



Thanks for your interest
See more at www.ngi-global.com

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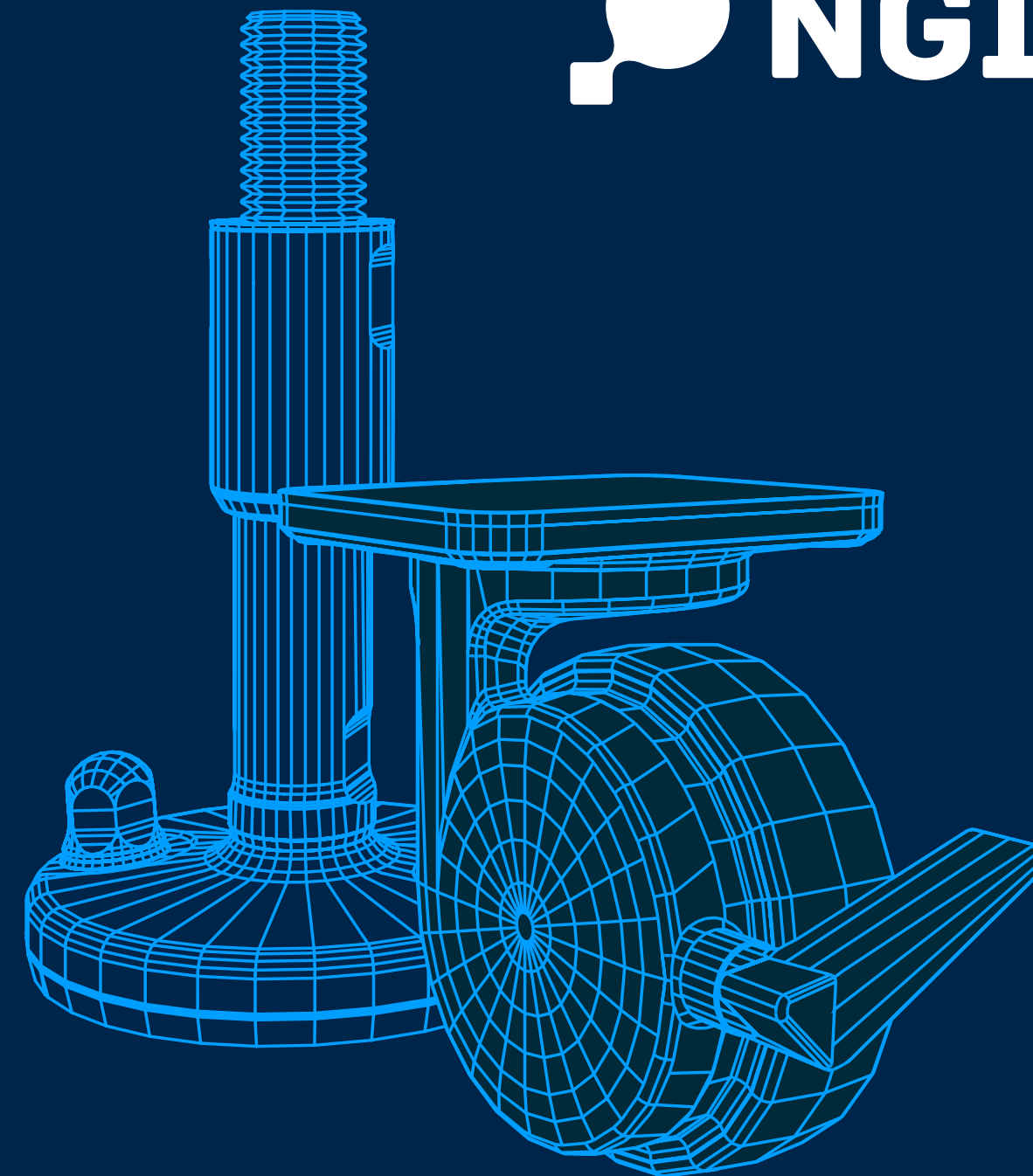
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All NGI hygienic components are
design and patent protected



Hygienic Components



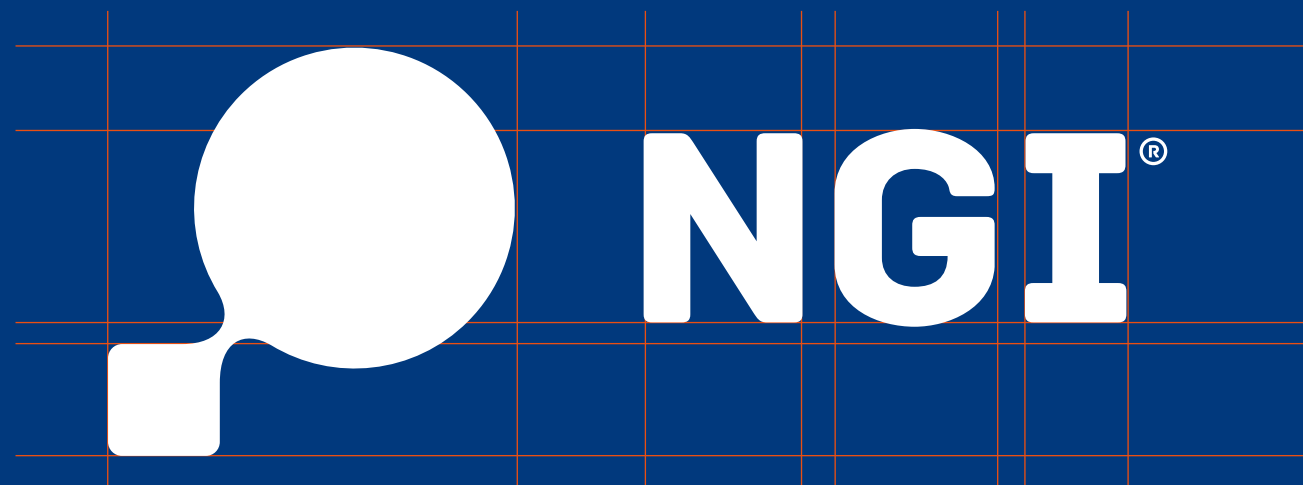
**“Hygienic and sustainable
solutions for the food industry**

**We continuously develop and
innovate our products and
concepts to satisfy the
requirements of our customers”**

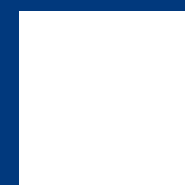
The logo DNA

The journey of our logo as we are transforming from a supplier of stainless steel products to a value-adding partner in hygienic design.

We believe that delivering high quality products on time is not sufficient to be successful. We want to build collaborative relationships with our customers with the authentic intention of creating real value.



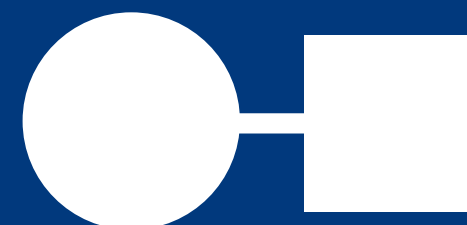
Heritage & hygiene



Data



Dynamic



Knowledge-sharing

The NGI logo is not just a logo

Every detail is meticulously designed to represent our history and DNA.

Hygiene is at the heart of everything we do and everything we believe in. This is represented by the clear, blue color of our logo and the circle shape.

Our new logo also entails a square shape representing the data-driven and digital organization that NGI has grown to be. We systematically collect data that can be vital to large organizations. This data allows sites to learn from each other and standardize across the organization.

The line between the circle and square represents connectivity, partnerships and the strong relations we take pride in building with our customers.

The monogram of the logo has come to live to portray the dynamic and digital nature of NGI. Our new website which is set to launch in the beginning 2023 will further support this as it is being built to be engaging, animated and video-driven.

Maximum **12-HOURS RESPONSE TIME** to customer enquiries
QUICK ORDER CONFIRMATION (within 24 hours)
 Incoming orders packed and **SHIPPED THE SAME DAY**

World-wide delivery **1-6 DAYS**
 Optional **EXPRESS DELIVERY** (next day)
TRACK & TRACE on all shipments

WHY NGI?

1-4 DAYS
DELIVERY IN
SCANDINAVIA

4-6 DAYS
DELIVERY IN REST
OF WORLD

NO MINIMUM ORDER QUANTITIES
 No levelling **PROJECT IS IMPOSSIBLE** for NGI

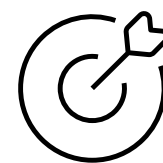
NGI offers **ALL TYPES OF HIGH-QUALITY LEVELLING FEET** at competitive prices
 NGI is the **ONLY MANUFACTURER IN THE WORLD** of certified hygienic levelling feet
 Country-specific key account consultants with **LOCAL LANGUAGE SKILLS**



Specific market consultants

Invitation to innovation
Investing in knowledge-sharing

Locally based Area Sales Managers

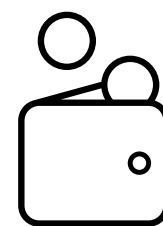


Gain a competitive advantage with hygienic components

NGI has grown to become the global market leader for hygienic components due to our continuously high involvement in our customer's businesses and needs.

Our deep insight into the various sectors within the machine manufacturing and food processing industries makes us a value-adding partner with focus on consulting and knowledge sharing.

Today, NGI is represented in more than 50 countries and is rapidly expanding. As an NGI customer you will always be able to talk to a country-specific consultant with local language skills.



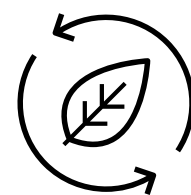
Do you want us to calculate your savings?

Contact us if you want a free sample or if you want us to help calculate your savings?

Product Innovation

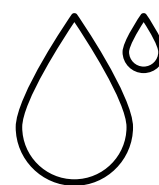
Innovating for tomorrow
Investing in research & development

NGI Innovation - the Sustainable Way



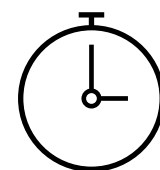
Stainless steel - Recyclable materials

80% of our products can be recycled. We are working on initiatives to make this percentage even higher.



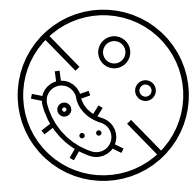
Hygienic seals - Resource saving

Permit easy cleaning and reduce water consumption.



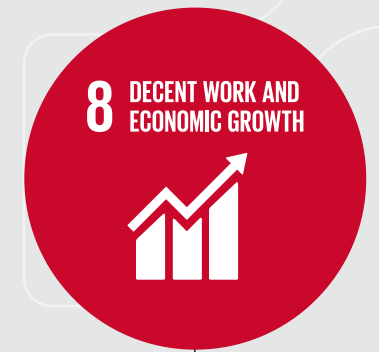
High Quality - Longer lifetime

Our products are very high quality which means they have a longer lifetime than corresponding components.



Hygienic design - Protecting consumers

We make sure that the components do not constitute a hygiene risk through innovative and uncompromising design.



Support sustainability with NGI components

NGI constantly work to optimize the hygienic behaviour in the many companies using our certified hygienic components.

Our task goes far beyond just our products. We ensure responsible behavior through collaboration, insight and knowledge sharing accross industries and country borders.

Using NGI's hygienic components significantly improves food safety, optimizes and **reduces the use of cleaning ressources with minimum 28%.**

CASE STORY

ARLA Retrofit to avoid cracks and openings in the floor

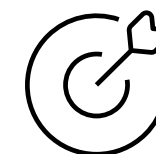


DAIRY, MILK
& CHEESE



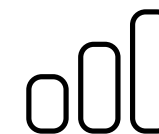
THE CHALLENGE

Arla's dairy in Rødkærsbro (Rødkaersbro), Denmark, is the largest mozzarella production site in Europe. The dairy had a problem with some of the pumps in their production area, because the vibrations of the pumps were so severe that they caused holes in the floor underneath them. This was a problem in relation to maintenance as well as hygiene.



THE SOLUTION

A local maintenance engineer asked NGI for assistance, and NGI retrofitted the feet under the pumps with NGI certified hygienic levelling feet.



THE EFFECT

The new feet levelled out the vibrations of the pumps and there was no longer a problem with holes in the floor. This made maintenance easier, optimized the uptime of the machinery and increased the overall hygiene of the production area. The retrofitting has, in other words, saved Arla money because they no longer have to stop production and fix holes, and it has, also improved the general hygiene.

"As part of Arla Maintenance it is crucial that the machines are up and running all the time. If we need to have extra down-time it will be a problem.

I saw the hygienic feet as an excellent option to minimise the floor damage, the pumps were causing on our floor. That the feet are hygienic and easy to clean for facility services is in perfect synergy with Arla's new updated hygienic standard.

The feet are very hygienic and easy to clean - and the hygienic seal to the floor will secure that the vibrations from the pump are absorbed and doesn't make holes anymore."

Per Kaster Nielsen
Maintenance, Arla

CASE STORY

BARRY CALLEBAUT

The highest standards - also in hygiene

BARRY CALLEBAUT

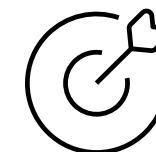


BAKERY &
SWEETS



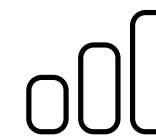
THE CHALLENGE

As a major part of the world's chocolate food chain, Barry Callebaut wants to secure the highest standards within hygiene. After they started using hygienic feet from NGI in their factories in Belgium and United Kingdom they saw the value of implementing these feet at the specifications stage when they ordered new machines from their machine builders. Therefore, Barry Callebaut wanted to implement NGI components in their technical specifications.



THE SOLUTION

NGI helped Barry Callebaut develop and implement their standard for production equipment. NGI has been in close contact with Barry Callebaut during the process and NGI have furthermore helped the machine builders of Barry Callebaut with the implementation. Throughout the solution NGI and Barry Callebaut has focused on all parts of the machine supply chain, ensuring that both Barry Callebaut and the advisers and suppliers all benefit from the new standards.



THE EFFECT

The new standard is implemented at Barry Callebaut and the suppliers have started using the standards. One of these suppliers is DESMI and they have confirmed that both the standards and the NGI hygienic feet are easy to work with.

“NGI is a very interesting partner for us since their innovation within hygienic design allows us as a brand owner to specify hygienic EHEDG certified levelling systems, thereby assuring that NGI will assist the OEM in implementing the most hygienic possible systems to our final gain.

We will continuously keep track of the current and new NGI hygienic products, and we are sure we have found a partner that can assist us and our machine builders with very little effort from our side to our final gain.”

Hugo Durado & Sebastien Ducatteeuw
Mechanical engineer & Project manager,
Barry Callebaut

CASE STORY

ECOLAB Identifying the problem & delivering the solution

ECOLAB®

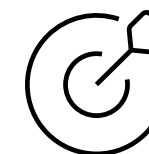


DAIRY, MILK
& CHEESE



THE CHALLENGE

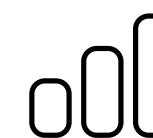
One of Ecolab's customers suffered a serious listeria outbreak at a European factory. They brought in Ecolab in order to find the problem and point to a possible solution.



THE SOLUTION

A specialist from Ecolab visited the plant, and he found several points for improvement. Some of these were related to machine design. Numerous machines were for example not built with hygienically optimized components.

Due to Ecolab's participation in BOPP – NGI's Brand Owner Partnership Programme – the specialist was able to not only identify the problem but to point to a solution as well. And the machines were retrofitted with hygienic and easy-to-clean certified leveling feet from NGI.



THE EFFECT

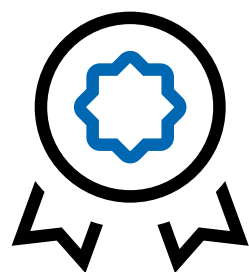
Ecolab's customer was offered a fast and effective solution to their problem, and afterward the customer has asked machine builders to contact NGI to make sure that machines are supplied with NGI's certified components in the future.

NGI is thus brought in as a preferred supplier of certified feet as well as an external expert on hygienic design.

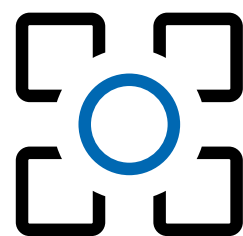
"Being part of BOPP will allow us to offer our customers hygienic design advise about how to solve specific issues in their production regarding hygienic design and of course correctly combined with Ecolab cleaning procedures."

Michael Stavad

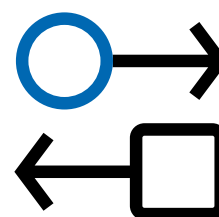
European Application Specialist Food,
Ecolab



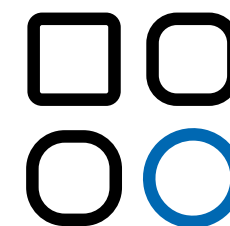
Golden Line



Knowledge-sharing



Retrofit



Standardization



Task force bacteria

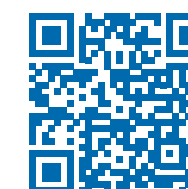
Improving hygiene and food safety doesn't have to be difficult...

It is often just a matter of using the correct systematic and methods approach to solve specific issues. NGI's brand owner partnership programme is a range of initiatives to ensure collaboration, insight, knowledge sharing, documentation and standardisation.



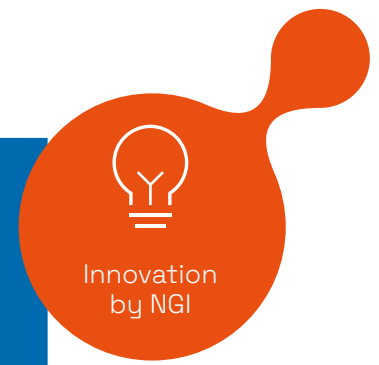
The NGI brand owner partnership programme consists of 5 concrete initiatives, which can improve food safety, hygiene and cleanability in your production environments.

The programme is a scalable set of tools, that can be adapted to the individual brand owners needs and wishes.



Get to know more about BOPP by NGI
www.bopp.ngi-global.com

Bearing Houses





Innovative & Reliable

We provide the optimal solution for your application

The bearing houses are certified and designed to comply with EHEDG, 3-A and USDA rules and guidelines and are specifically designed to minimize risks of contamination and enhance food safety.

The bearing house has a patented waterproof encasement that seals the bearing blocking out dirt and bacteria as well as extending the lifetime of the bearing. The bearings are lubricated for life eliminating the risk of spreading contaminated grease during high-pressure cleaning.

The shaft insertion in to the bearing house has a new groundbreaking patented design that enables a waterproof seal to the shaft despite an installation angle of up to 3 degrees misalignment.

-  Easy installation on differently designed conveyors
-  Enhanced food safety
-  A complete hygienic design minimizing risks of cross-contamination
-  Reduce energy consumption
-  Reduce usage of water and cleaning detergents

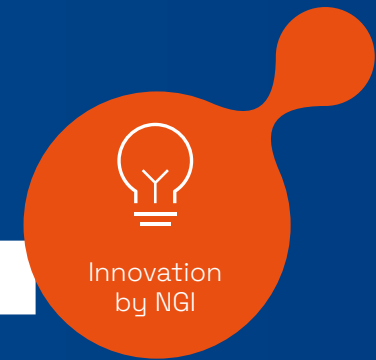


red dot winner 2022

Go to www.ngi-global.com/bearinghouses to read more and see our product range.



Hygienic Castor



Innovative & Reliable

We provide the optimal
solution for your application

The new certified hygienic swivel castors from NGI are the only patented castors in the world hygienically designed in accordance to EHEDG, 3-A and USDA design principles securing optimal conditions for cleaning with easy access from all angles.

The hygienic castor from NGI enhances hygienic safety significantly as it is designed with a one-sided fork housing providing easy access for cleaning. All surfaces are smooth and drainable as they are either round or have a 3° angle, thus, dirt and bacteria will not accumulate.

The brake is integrated in the fork housing and locking of rotation and pivoting occurs inside the castor. Furthermore, the design of the castor allows quick and easy installation.



Enhanced food safety



A complete hygienic design minimizing risks of cross-contamination



Plug&Play installation



Minimize water usage and use of cleaning detergents



Go to www.ngi-global.com/hygieniccastor
to read more and see our product range.



CIP Unit

Hygienic



Efficient & easy to install

Hygienic and automatized cleaning of conveyor belts

The easy-to-fit hygienic CIP unit is a simple and efficient solution, where nozzles are positioned on the two spray bars. This is to effectively remove the accumulated organic residues from both sides of a process and conveyor belting.

The CIP unit can easily be installed with no use of complicated engineering and conveyor frame modifications. The device is highly efficient, hygienically designed, and makes cleaning more environmentally friendly.

The installation of the CIP unit minimizes the operator's manual cleaning and contributes to reduce the resource utilization such as water, labor and detergents.

When installed, you reduce contamination and microbial growth and increase the hygiene level of your conveyor belt.



Easy installation on differently designed conveyors



Enhanced food safety



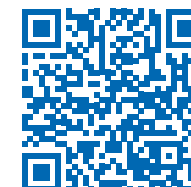
A complete hygienic design minimizing risks of cross-contamination



Reduce energy consumption



Reduce usage of water and cleaning detergents



Go to uk.ngi-global.com/products/hygienic-cip-unit to read more

Order products Easily



NGI customers can now login to our website at **www.ngi-global.com**

- Order products easily with the quick purchase option
- Save your favorite products
- View your order history
- Reorder products easily

Please contact NGI to acquire username and password.

CERTIFIED HYGIENIC



**CERTIFIED HYGIENIC
LEVELLING FEET**

STAINLESS STEEL

30



**CERTIFIED HYGIENIC
BEARING HOUSES**

REINFORCED POLYAMIDE

92



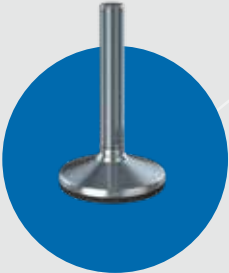
**CERTIFIED HYGIENIC
CASTORS**

STAINLESS STEEL

126

These design and patent protected products are the optimal choice for machinery that has to comply with strict hygiene requirements. Designed in accordance with USDA, EHEDG and 3-A design principles, the products secure easy access for cleaning and optimal conditions for food safety.

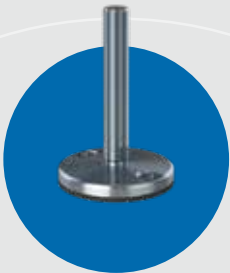
LEVELLING FEET



**FULLY-THREADED
LEVELLING FEET**

STAINLESS STEEL

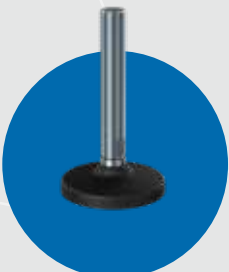
152



**FULLY-THREADED
SOLID LEVELLING
FEET**

STAINLESS STEEL


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**FULLY-THREADED
PLASTIC LEVELLING
FEET**

REINFORCED POLYAMIDE

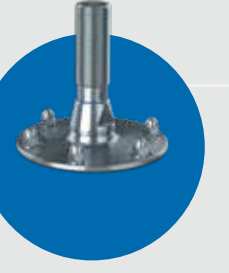
202



**FULLY-THREADED
WEIGHING
LEVELLING FEET**

STAINLESS STEEL

224




**FULLY-THREADED
SEISMIC
LEVELLING FEET**

STAINLESS STEEL

242

CASTORS




**HYGIENIC
CASTORS**

STAINLESS STEEL

260


OTHERS



**TANK SUPPORT
BOLTS**

STAINLESS STEEL

286



ACCESSORIES

STAINLESS STEEL

300

SPECIFICATIONS



**TECHNICAL
SPECIFICATIONS**

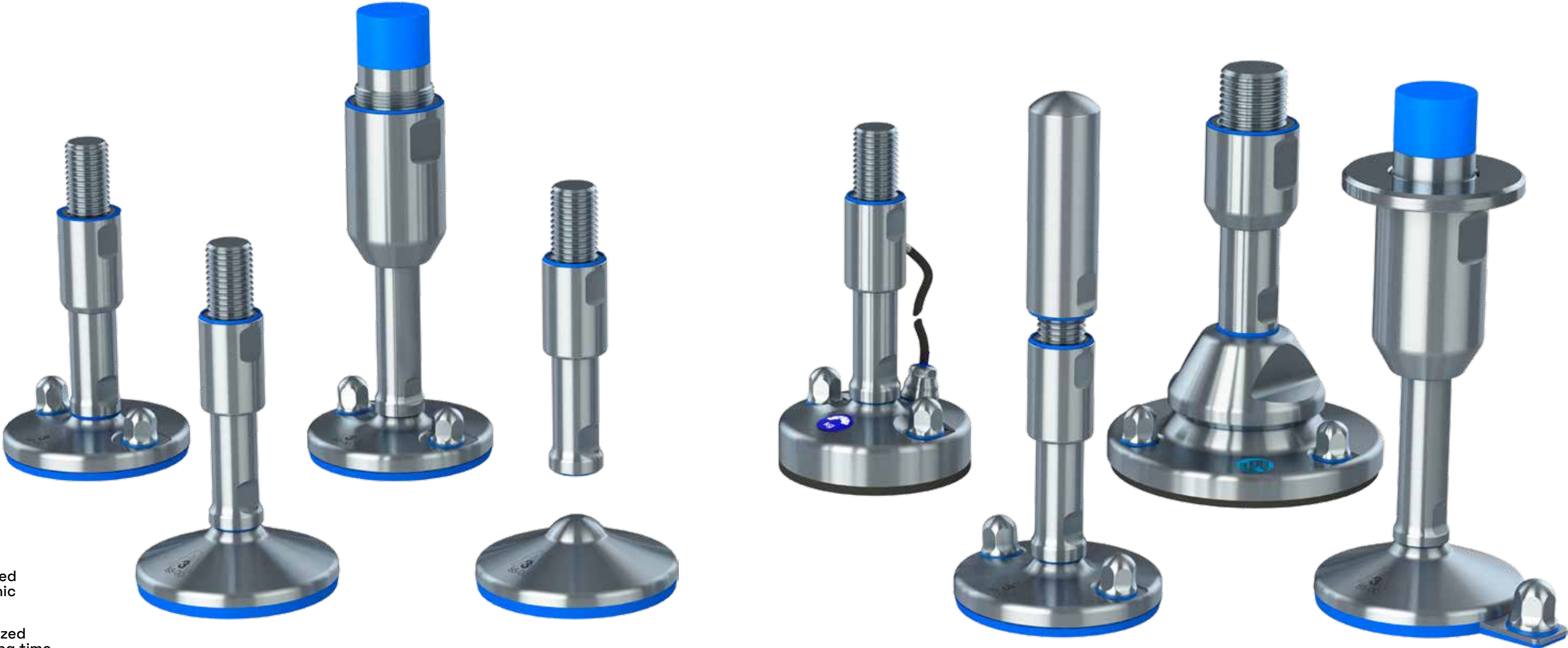
338

Certified hygienic Levelling feet



THE only levelling feet in the world hygienically
certified by 3-A, USDA & EHEDG standards
for use in sanitary production environments

Self-draining surfaces, sealed movable parts and
no exposed thread secures absolute minimum cleaning and
maximum sanitary safety



-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

Certified hygienic Levelling feet

All process industries are subject to increasing regulatory requirements, which increases the focus on resource consumption, product safety and official hygienic certifications. The 3-A, USDA and EHEDG certified levelling feet reduce the water consumption and cleaning resources in addition to minimizing the risk of contamination in the production. Choosing NGI's certified levelling feet will hygienically enhance your machinery and your customer's Return-On-Investment (ROI). All certified hygienic levelling feet with fastening to floor are delivered with certified hygienic nuts.

Product Group Features

- EHEDG certification "TYPE EL – 1st CLASS" and 3-A certification "88-00"
- USDA certification "Dairy" and "NSF/ANIS/3-A 14159-1-2014"
- Self-draining surfaces and safety against exposed thread secures absolute minimum cleaning
- Low-friction washer between spindle and footplate ensures easy adjustment
- All movable parts are 100% hygienically sealed even if the load on the foot is removed
- Vulcanized FDA-approved, anti-vibration, anti-slip rubber blocks out bacteria underneath the footplate
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401
- More than 1.000 different variations available (weight load, height-adjustment, flexible mounting parts)
- All sealings are blue and therefore detectable by scanning systems
- Design and patent protected

ZHJS

Special Features

- Height variation 107 mm – 199 mm
- Weight load up to 110.000 N due to solid footplate & vulcanized rubber
- 3-A logo & EHEDG logo on footplate for certified recognition
- Thread covered with hygienic sleeve functioning as counter nut
- Optional hygienic top cover
- Safety against exposed thread
- Optimized design for cleaning
- Surface below 0,8 µm RA
- 2 X fixing to the floor
- Extra hygienic sealings
- Delivered with hygienic nuts



40

XH

Special Features

- Height variation 104 mm – 206 mm
- Weight load up to 65.000 N
- 3-A logo on footplate for certified recognition
- Thread covered with hygienic sleeve functioning as counter nut
- Optional top cover
- Optional fixing to the floor including hygienic nuts

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ZHJC

Special Features

- Height variation 107 mm – 199 mm
- Weight load up to 110.000 N due to solid footplate & vulcanized rubber
- 3-A logo & EHEDG logo on footplate for certified recognition
- Thread covered with hygienic sleeve functioning as counter nut
- Optional hygienic top cover
- Optimized design for cleaning
- Surface below 0,8 µm RA
- 2 X fixing to the floor
- Extra hygienic sealings
- Delivered with hygienic nuts



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XHG + XHJ

Special Features

- Height variation 101 mm – 197 mm
- Weight load up to 110.000 N due to solid footplate & vulcanized rubber
- 3-A logo on footplate for certified recognition
- Thread covered with hygienic sleeve functioning as counter nut
- Optional top cover
- Optional fixing to the floor including hygienic nuts

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ZHFVJ

Special features

- Height variation 96 mm – 327 mm
- Weight load up to 95.500 N due to solid footplate & vulcanized rubber
- 3-A and EHEDG logo on footplate for certified recognition
- 3-A, EHEDG & USDA certified
- Sealed low-friction thread (lubricated for life)
- Flexible mounting with optional flanges or thread adaptor
- Optimized design for cleaning
- Surface below 0,8 µm RA
- 2 X fixing to the floor
- Extra hygienic sealings
- Delivered with hygienic nuts



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XHT

Special Features

- Height variation 109 mm – 208 mm
- Weight load up to 75.000 N
- The footplate and spindle are two separate parts
- Diametrically centered elevation on the footplate
- 3-A logo on footplate for certified recognition
- Thread covered with hygienic sleeve functioning as counter nut
- Optional top cover

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Certified hygienic Levelling feet

All process industries are subject to increasing regulatory requirements, which increases the focus on resource consumption, product safety and official hygienic certifications.

The 3-A, USDA and EHEDG certified levelling feet reduce the water consumption and cleaning resources in addition to minimizing the risk of contamination in the production.

Choosing NGI's certified levelling feet will hygienically enhance your machinery and your customer's Return-On-Investment (ROI).

All certified hygienic levelling feet with fastening to floor are delivered with certified hygienic nuts.



XHFV

Special Features

- Height variation 99 mm – 335 mm
- Weight load up to 65.000 N
- 3-A logo on footplate for certified recognition
- Sealed low-friction thread (lubricated for life)
- Flexible mounting with optional flanges or thread adaptor
- No risk of over-adjusting the sleeve and thereby exposing thread
- Optional fixing to the floor including hygienic nuts

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XHW

Special Features

- Height variation 115 mm – 218 mm
- Weight load up to 5 ton
- Spindle sizes M16, M20, M24, M30 & M36
- Footplate sizes Ø 80, Ø105, Ø125 & Ø150 mm
- Admits up to 5° slope on floors and equipment
- Vulcanized FDA-approved, anti-vibration, anti-slip rubber
- Thread covered with hygienic sleeve functioning as counter nut

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XHFVG + XHFVJ

Special Features

- Height variation 96 mm – 326 mm
- Weight load up to 110.000 N due to solid footplate & vulcanized rubber
- 3-A logo on footplate for certified recognition
- USDA certified
- Sealed low-friction thread (lubricated for life)
- Flexible mounting with optional flanges or thread adaptor
- Optional fixing to the floor including hygienic nuts

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XHGW + XHJW

Special Features

- Height variation 115 mm – 217 mm
- Weight load up to 5 ton
- Spindle sizes M16, M20, M24, M30 & M36
- Footplate sizes Ø105, Ø125 & Ø150 mm
- Admits up to 10° slope on floors and equipment
- Thread covered with hygienic sleeve functioning as counter nut

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XHFVT

Special Features

- Height variation 104 mm – 335 mm
- Weight load up to 75.000 N
- The footplate and spindle are two separate parts
- Diametrically centered elevation on the footplate
- 3-A logo on footplate for certified recognition
- 3-A & USDA certified
- Sealed low-friction thread (lubricated for life)
- Flexible mounting with optional flanges or thread adaptor

64



XHTW

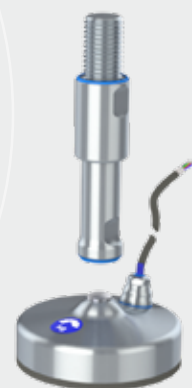
Special Features

- Height variation 115 mm – 218 mm
- Weight load up to 5 ton
- Spindle sizes M16, M20, M24, M30 & M36
- Footplate sizes Ø105, Ø125 & Ø150 mm
- Admits up to 5° slope on floors and equipment
- Vulcanized FDA-approved, anti-vibration, anti-slip rubber
- Thread covered with hygienic sleeve functioning as counter nut
- Separated spindle from weighing footplate makes maintenance easier
- Spindle indirectly connected to the load cell through the footplate

72

Certified hygienic Levelling feet

All process industries are subject to increasing regulatory requirements, which increases the focus on resource consumption, product safety and official hygienic certifications. The 3-A, USDA and EHEDG certified levelling feet reduce the water consumption and cleaning resources in addition to minimizing the risk of contamination in the production. Choosing NGI's certified levelling feet will hygienically enhance your machinery and your customer's Return-On-Investment (ROI). All certified hygienic levelling feet with fastening to floor are delivered with certified hygienic nuts.



XHGTW

Special Features

- Height variation 115 mm – 217 mm
- Weight load up to 5 ton
- Spindle sizes M16, M20, M24, M30, M36
- Footplate sizes Ø105, Ø125 & Ø150 mm
- Admits up to 10° slope on floors and equipment
- Separated spindle from weighing footplate makes maintenance easier
- Spindle indirectly connected to the load cell through the footplate.

74

Instructions

It is important to follow these instructions in order to ensure the certified hygienic design and functionality. This documentation is enclosed with the levelling feet and should always be handed over to the enduser.



NGI



CLEANING & MAINTENANCE

This cleaning and maintenance manual describes how to clean and maintain the levelling foot once installed.

80

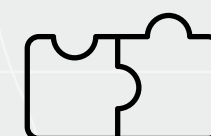


XHJSE (S)

Special Features

- Height adjustment 155 mm - 285 mm
- Certified according to USDA hygienic standard
- Designed according to the 3-A and EHEDG hygienic standards
- Available in two standard lengths per diameter size
- Comes with a hygienic sleeve
- Circular arrangement of anchors for best seismic performance
- Spindle sizes M30, M36, M42, M48 & M56 mm

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INSTALLATION MANUAL

This installation manual describes how to install the levelling foot onto the machine or equipment for which it is intended to support.

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XHJSE (L)

Special Features

- Height adjustment 221 mm - 355 mm
- Certified according to USDA hygienic standard
- Designed according to the 3-A and EHEDG hygienic standards
- Available in two standard lengths per diameter size
- Comes with a hygienic sleeve
- Circular arrangement of anchors for best seismic performance
- Spindle sizes M56, M64, M72, M80 & M90 mm

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DECLARATION OF CONFORMITY

This declaration of conformity lists all the directives and standards that NGI adheres to. This ensures that products from NGI are always in compliance with currently valid requirements.

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Certified hygienic Accessories

NGI is able to deliver all necessary accessories, which ensures a quick and easy installation of the levelling foot. In addition to supplying standardized accessories we are also able to supply customized accessories.

It is important to follow these instructions in order to ensure the certified hygienic design and functionality.



CERTIFIED HYGIENIC DOME-HEADED NUT

- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS I AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 µm RA
- Available in sizes M6-M24
- Are delivered with all certified hygienic machine feet with floor fixing



306



CERTIFIED HYGIENIC TOP COVER

- Top cover with blue sealing detectable by scanning systems
- Ensures hygienic covering of the exposed top thread
- Minimum cleaning effort due to the self-draining design
- Available in standardized and customized dimensions

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CERTIFIED HYGIENIC LOW-HEADED NUT

- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS I AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 µm RA
- Available in sizes M5-M24



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CERTIFIED HYGIENIC FLANGES & ADAPTOR

- Add-on for the XHFV & ZHFVJ system
- Adaptor converts the size and type of the thread and extends the sleeve. It has blue sealings detectable by scanning systems.
- Flanges are squared or round and installed by bolting or welding. They are available in a large variety of sizes.

314



CERTIFIED HYGIENIC BOLT

- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS I AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 µm RA
- Available in sizes M5-M24



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Certified hygienic Levelling feet - ZHJS

The design and patent protected solid ZHJS levelling foot is the optimal choice for heavy machinery and equipment that has to comply with the strictest hygienic requirements.

The thread is covered with a hygienic sleeve which cannot be overadjusted and secures safety against exposed thread. The sleeve also functions as a counter nut. The ZHJS is designed to be fastened to the floor by the two fixing holes in the footplate. Hygienic nuts according to EHEDG specifications are included.

All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

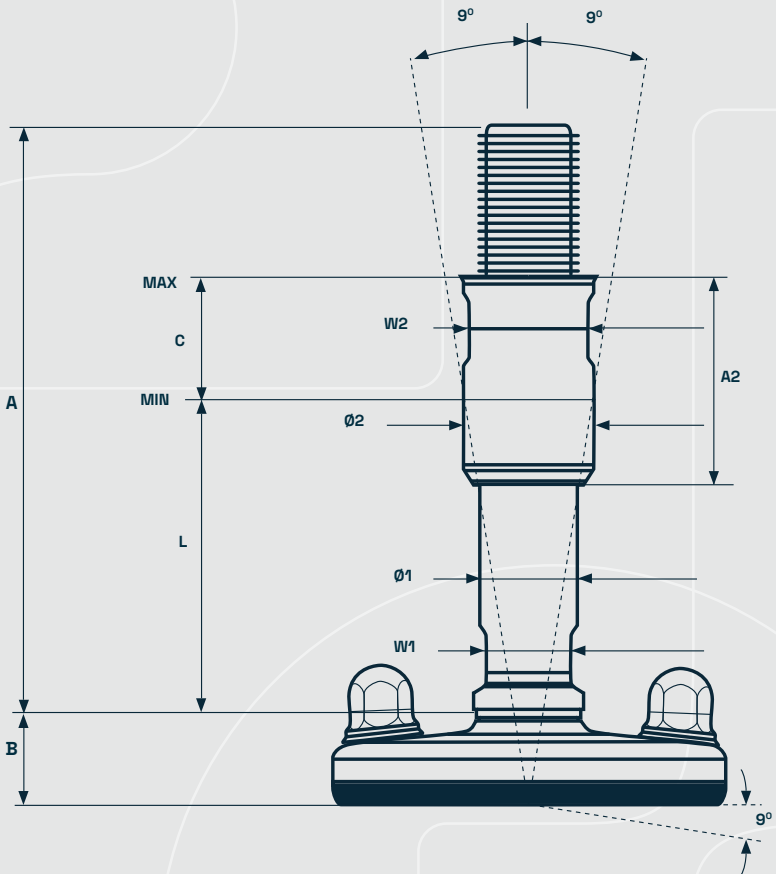
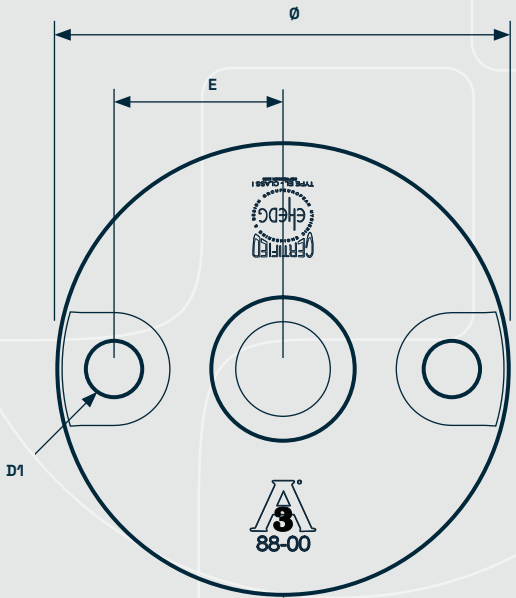
Minimum cleaning effort is obtained by the design of the self-draining 0,8 µm RA surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

Available upon request:

- Official 3-A, USDA and EHEDG hygiene certificates
- Installation instructions
- Cleaning & maintenance instructions

Included in every shipment:

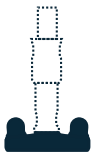
- Certified hygienic nuts



Certified hygienic Levelling feet - ZHJS



FOOT PLATE



SPINDLE



SLEEVE



PRODUCT CODE

EXAMPLE

FOOT - SPINDLE - SLEEVE

ZHJ105 - XHJGSC16155 - RHOXS1655

DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
79	25	29	8,4	35.000	ZHJ080
104	25	39	13	55.000	ZHJ105
124	25	48	13	110.000	ZHJ125
149	25	61	13	110.000	ZHJ150

THREAD	HEIGHT A [mm]	MIN HEIGHT L [mm]	W1 [mm]	DIAMETER Ø1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
M16	155	99	15	17	30.800	XHJGSC16155
M16	215	108	15	17	24.900	XHJGSC16215
M20	155	99	19	21	48.200	XHJGSC20155
M20	215	108	19	21	48.200	XHJGSC20215
M24	155	99	22	26,4	69.200	XHJGSC24155
M24	215	108	22	26,4	69.200	XHJGSC24215
M30	155	82	27	32	110.200	XHJGSC30155
M30	215	111	27	32	110.200	XHJGSC30215
M36	155	82	28	32	160.200	XHJGSC36155
M36	215	111	28	32	160.200	XHJGSC36215

THREAD	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M16	22	24,8	55	36	RHOXS1655
M16	22	24,8	85	66	RHOXS1685
M20	27	29,8	55	36	RHOXS2055
M20	27	29,8	85	66	RHOXS2085
M24	32	34,8	55	36	RHOXS2455
M24	32	34,8	85	66	RHOXS2485
M30	38	41,8	55	33	RHOXS3055
M30	38	41,8	85	63	RHOXS3085
M36	46	49,8	55	33	RHOXS3655
M36	46	49,8	85	63	RHOXS3685

Total height = A + B
Minimum usable height = B + L
Maximum usable height = B + L + C
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of total height = +/-1,5 mm

Certified hygienic Levelling feet - ZHJC

The design and patent protected solid ZHJC levelling foot is the optimal choice for heavy machinery and equipment that has to comply with the strictest hygienic requirements.

The ZHJC is designed to be fastened to the floor by the two fixing holes in the footplate. Hygienic nuts according to EHEDG specifications are included.

All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

Minimum cleaning effort is obtained by the design of the self-draining 0,8 µm RA surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

Available upon request:

- Official 3-A and EHEDG hygiene certificates
- Installation instructions
- Cleaning & maintenance instructions

Included in every shipment:

- Certified hygienic nuts



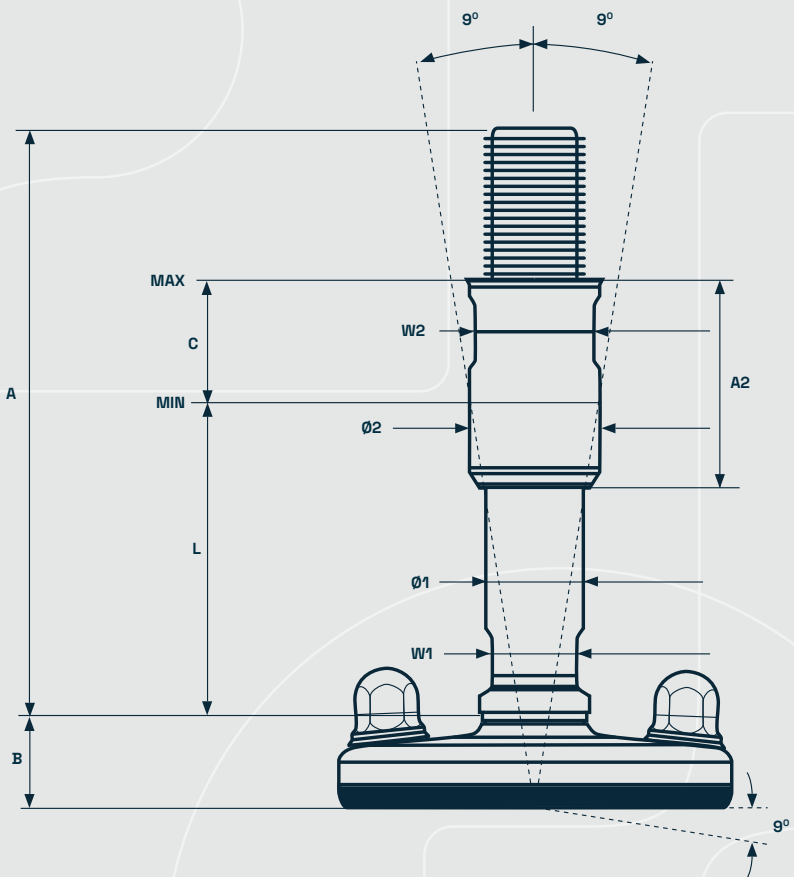
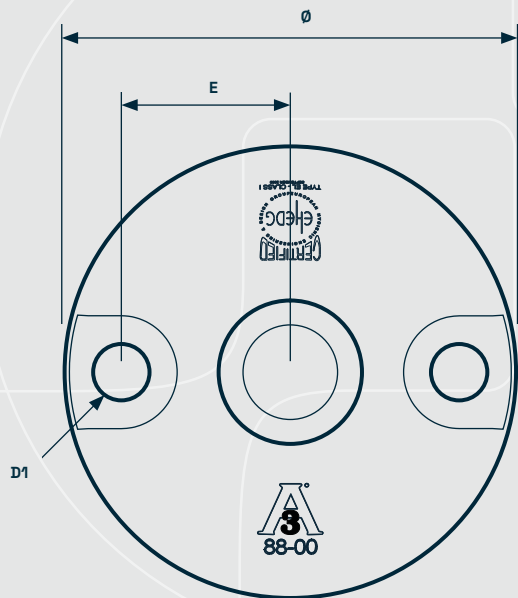
Certified
hygienic



Minimized
cleaning time



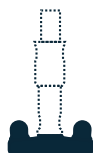
Minimized
water usage



Certified hygienic Levelling feet - ZHJC



FOOT PLATE



PRODUCT CODE

EXAMPLE

FOOT - SPINDLE - SLEEVE

ZHJ105-XHJGSC16155-RHOXC1655

DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
79	25	29	8,4	35.000	ZHJ080
104	25	39	13	55.000	ZHJ105
124	25	48	13	110.000	ZHJ125
149	25	61	13	110.000	ZHJ150

SPINDLE



THREAD	HEIGHT A [mm]	MIN HEIGHT L [mm]	W1 [mm]	DIAMETER Ø1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
M16	155	99	15	17	30.800	XHJGSC16155
M16	215	108	15	17	24.900	XHJGSC16215
M20	155	99	19	21	48.200	XHJGSC20155
M20	215	108	19	21	48.200	XHJGSC20215
M24	155	99	22	26,4	69.200	XHJGSC24155
M24	215	108	22	26,4	69.200	XHJGSC24215
M30	155	82	27	32	110.200	XHJGSC30155
M30	215	111	27	32	110.200	XHJGSC30215

SLEEVE



THREAD	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M16	22	24,8	55	36	RHOXC1655
M16	22	24,8	85	66	RHOXC1685
M20	27	29,8	55	36	RHOXC2055
M20	27	29,8	85	66	RHOXC2085
M24	32	34,8	55	36	RHOXC2455
M24	32	34,8	85	66	RHOXC2485
M30	38	41,8	55	33	RHOXC3055
M30	38	41,8	85	63	RHOXC3085

Total height
Minimum usable height
Maximum usable height
Maximum nominal load
Tolerance of total height

= A + B
= B + L
= B + L + C
= Lowest value for footplate or spindle
= +/-1,5 mm



Certified hygienic Levelling feet - ZHFVJ

The design and patent protected ZHFVJ is the optimal choice for machinery and equipment that has to comply with the strictest hygiene requirements.

The ZHFVJ offers supreme height adjustment 100 mm as standard and has a sealed low-friction thread (lubricated for life).

Flexible mounting with optional flanges or thread adaptor, no risk of overadjusting the sleeve and thereby exposing the thread.

All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

Minimum cleaning effort is obtained by the design of the self-draining 0,8 µm RA surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

ZHFVJ is designed to be fastened to the floor by the two fixing holes in the footplate. Hygienic nuts according to EHEDG specifications are included.

Available upon request:

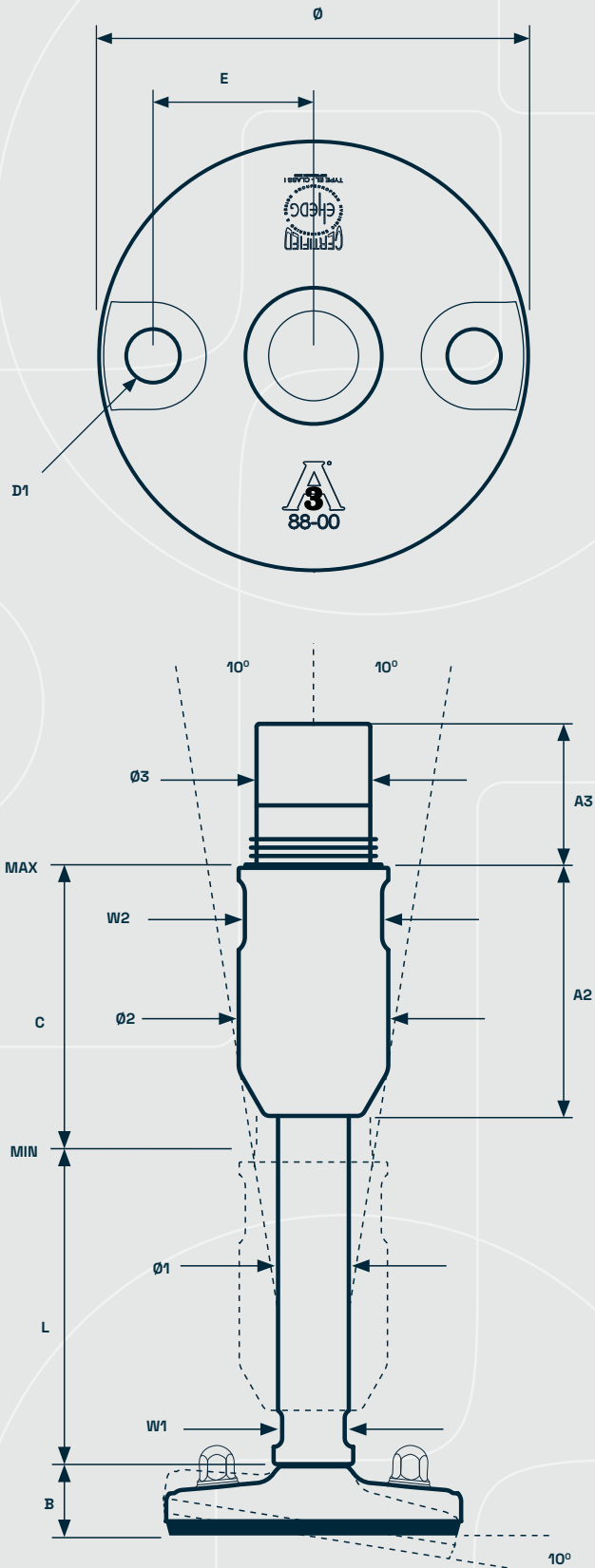
- Official 3-A, USDA and EHEDG hygiene certificates
- Installation instructions
- Cleaning & maintenance instructions

Included in every shipment:

- Certified hygienic nuts



-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage



Certified hygienic Levelling feet - ZHFVJ



FOOT PLATE



PRODUCT CODE	FOOT - SPINDLE - SLEEVE
EXAMPLE	ZHFVJ150-XHFJG33144-V1

DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
79	25	29	8,4	35.000	ZHJ080
104	25	39	13	55.000	ZHJ105
124	25	48	13	95.500	ZHJ125
149	25	61	13	95.500	ZHJ150

SPINDLE



THREAD	MIN HEIGHT L [mm]	DIAMETER Ø1 [mm]	W1 [mm]	ITEM CODE
M33x3,5	71	25	22	XHFJG
M33x3,5	111	25	22	XHFJG
M33x3,5	152	25	22	XHFJG

SLEEVE



THREAD	ADJUSTMENT C [mm]	HEIGHT A2 [mm]	HEIGHT A3 [mm]	DIAMETER Ø2 [mm]	DIAMETER Ø3 [mm]	W2 [mm]	ITEM CODE
M44x2	100	51	90	54,8	40	50	V1
M44x2	100	91	50	54,8	40	50	V2
M44x2	100	131	10	54,8	40	50	V3
M44x2	V3 + adaptor						



Total height
Minimum usable height
Maximum usable height
Maximum nominal load
Tolerance of total height

= B + L + C + A2
= B + L
= B + L + C
= Lowest value for footplate or spindle
= +/-1,5 mm

Certified hygienic Levelling feet - XH

The design and patent protected XH levelling foot is the optimal choice for machinery and equipment that has to comply with the strictest hygienic requirements.

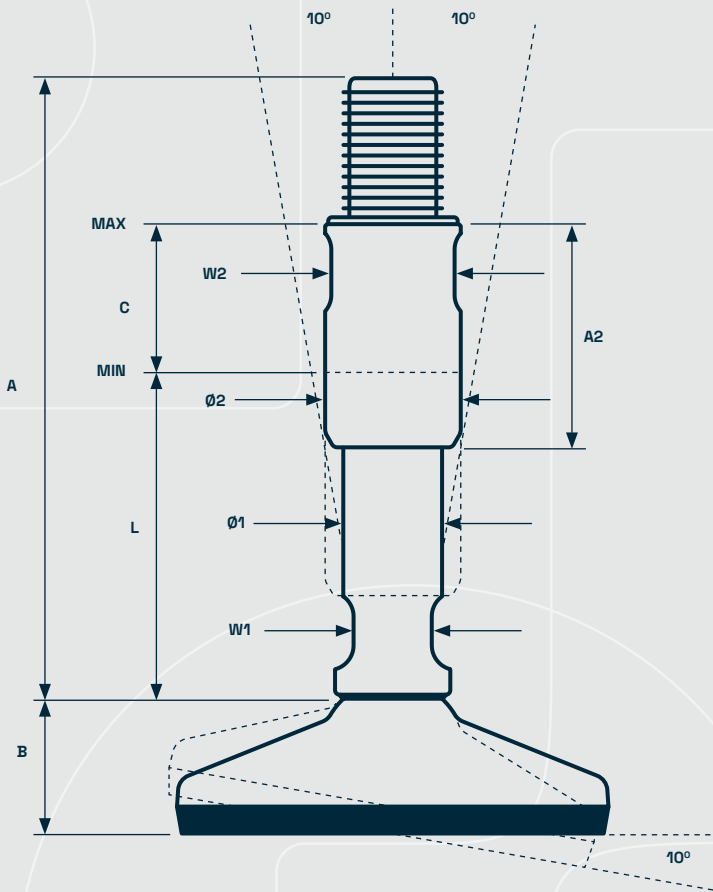
All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

Minimum cleaning effort is obtained by the design of the self-draining surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

Available upon request:

- Official 3-A hygiene certificate
- Installation instructions
- Cleaning & maintenance instructions

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage



Certified hygienic Levelling feet - XH



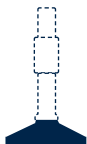
PRODUCT CODE

EXAMPLE

FOOT - SPINDLE - SLEEVE

XH065-XH15150-RHOX1650

FOOT PLATE



DIAMETER Ø [mm]	HEIGHT B [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
65	28	9.000	XH065
80	33	15.000	XH080
105	33	22.000	XH105
125	34	32.000	XH125
150	34	65.000	XH150

SPINDLE



THREAD	HEIGHT A [mm]	MIN HEIGHT L [mm]	W1 [mm]	DIAMETER Ø1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
M12	150	76	13	16	8.000	XH12150
M16	150	76	13	16	30.800	XH16150
M16	210	106	13	16	24.900	XH16210
M20	150	76	15	20	48.200	XH20150
M20	210	106	15	20	48.200	XH20210
M24	150	76	19	24	69.200	XH24150
M24	210	106	19	24	69.200	XH24210
M30	150	76	24	30	110.200	XH30150
M30	210	106	24	30	110.200	XH30210
M36	150	76	30	36	160.200	XH36150
M36	210	106	30	36	160.200	XH36210

SLEEVE



THREAD	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M12	22	24,8	50	36	RHOX1250
M16	22	24,8	50	36	RHOX1650
M16	22	24,8	80	66	RHOX1680
M20	27	29,7	50	36	RHOX2050
M20	27	29,7	80	66	RHOX2080
M24	30	34,5	50	36	RHOX2450
M24	30	34,5	80	66	RHOX2480
M30	36	39,5	50	33	RHOX3050
M30	36	39,5	80	63	RHOX3080
M36	46	49,5	50	33	RHOX3650
M36	46	49,5	80	63	RHOX3680

Total height = A + B
Minimum usable height = B + L
Maximum usable height = B + L + C
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of total height = +/-1,5 mm



Certified hygienic Levelling feet - XH Fixing

The design and patent protected XH Fixing levelling foot is the optimal choice for machinery and equipment that has to comply with the strictest hygienic requirements.

The XH Fixing is designed to be fastened to the floor by the fixing plate. Certified hygienic levelling feet are always delivered with hygienic nuts.

All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

Minimum cleaning effort is obtained by the design of the self-draining surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

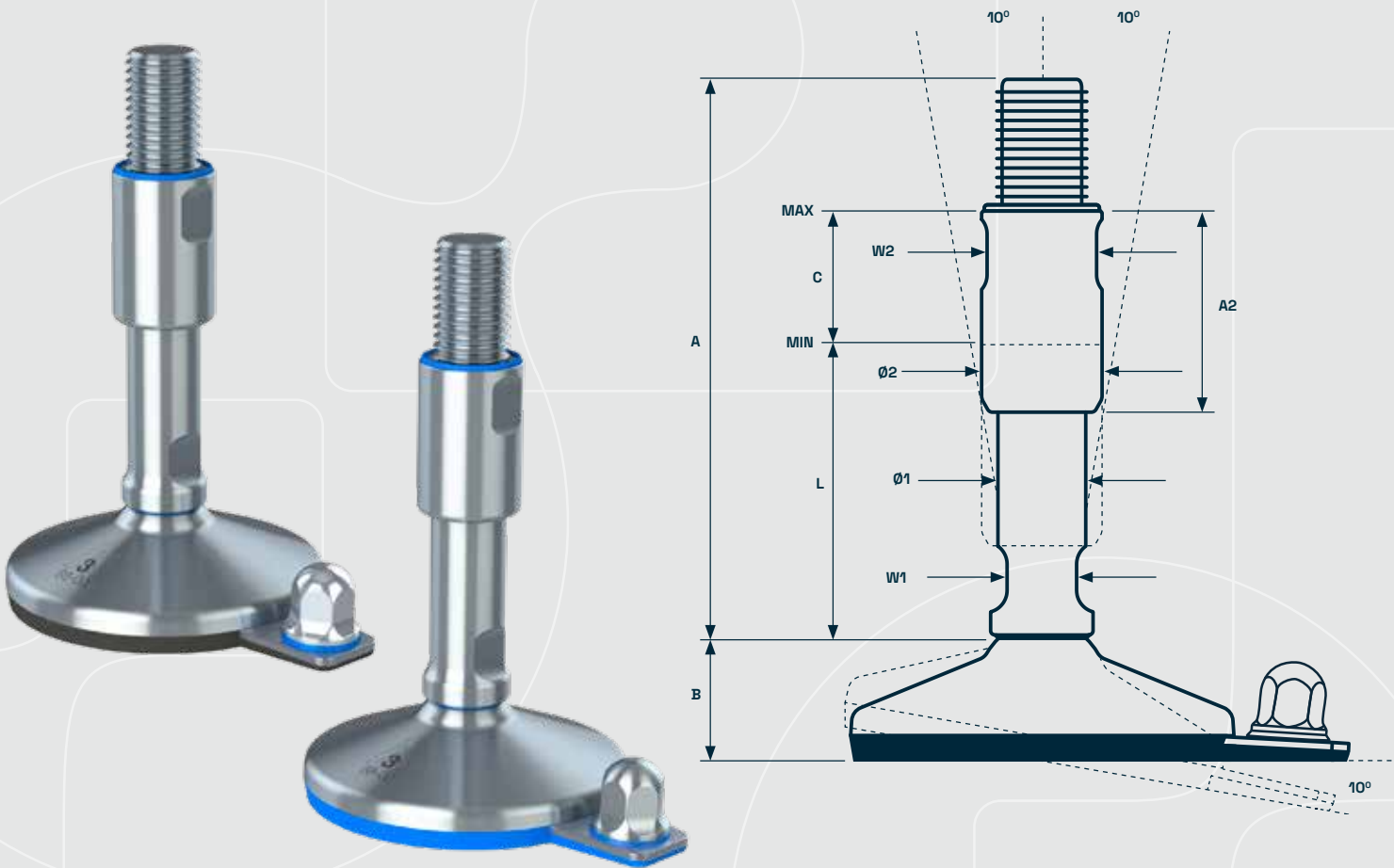
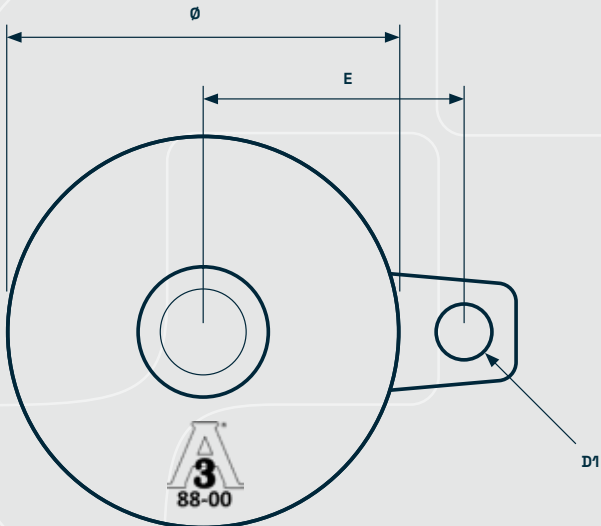
Available upon request:

- Official 3-A hygiene certificate
- Installation instructions
- Cleaning & maintenance instructions

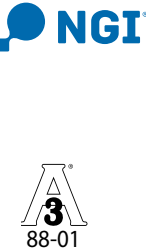
Included in every shipment:

- Certified hygienic nuts

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage



Certified hygienic Levelling feet - XH Fixing



FOOT PLATE



PRODUCT CODE	FOOT - SPINDLE - SLEEVE
EXAMPLE	XH-FIX066-XH16150-RHOX1650

DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
65	28	46,8	15	9.000	XH-FIX066
80	33	53,2	15	15.000	XH-FIX081
105	33	70,0	15	22.000	XH-FIX106
125	34	80	15	32.000	XH-FIX126

SPINDLE



THREAD	HEIGHT A [mm]	MIN HEIGHT L [mm]	W1 [mm]	DIAMETER Ø1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
M12	150	76	13	16	8.000	XH12150
M16	150	76	13	16	30.800	XH16150
M16	210	106	13	16	24.900	XH16210
M20	150	76	15	20	48.200	XH20150
M20	210	106	15	20	48.200	XH20210
M24	150	76	19	24	69.200	XH24150
M24	210	106	19	24	69.200	XH24210
M30	150	76	24	30	110.200	XH30150
M30	210	106	24	30	110.200	XH30210
M36	150	76	30	36	160.200	XH36150
M36	210	106	30	36	160.200	XH36210

SLEEVE



THREAD	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M12	22	24,8	50	36	RHOX1250
M16	22	24,8	50	36	RHOX1650
M16	22	24,8	80	66	RHOX1680
M20	27	29,7	50	36	RHOX2050
M20	27	29,7	80	66	RHOX2080
M24	30	34,5	50	36	RHOX2450
M24	30	34,5	80	66	RHOX2480
M30	36	39,5	50	33	RHOX3050
M30	36	39,5	80	63	RHOX3080
M36	46	49,5	50	33	RHOX3650
M36	46	49,5	80	63	RHOX3680

Total height = A + B
Minimum usable height = B + L
Maximum usable height = B + L + C
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of total height = +/-1,5 mm



Certified hygienic Levelling feet - XHG

The design and patent protected solid XHG levelling foot is the optimal choice for heavy machinery and equipment that has to comply with the strictest hygienic requirements.

All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

Minimum cleaning effort is obtained by the design of the self-draining surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

Available upon request:

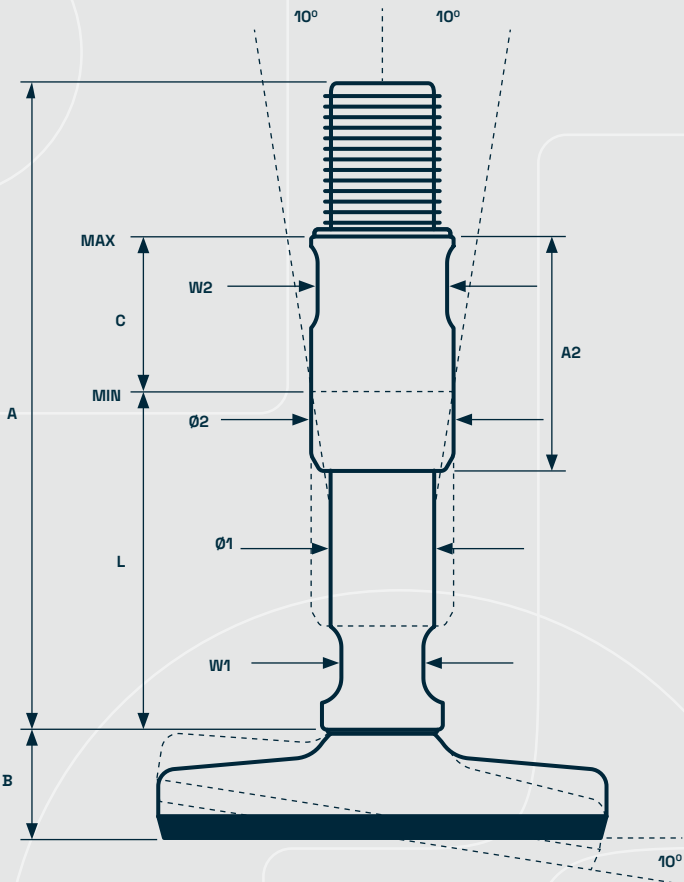
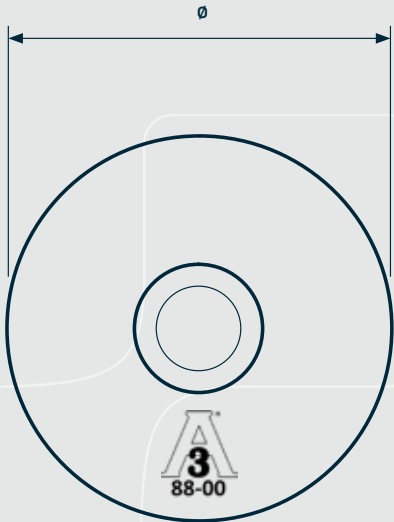
- Official 3-A hygiene certificate
- Installation instructions
- Cleaning & maintenance instructions

- 

Certified
hygienic
- 

Minimized
cleaning time
- 

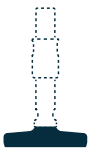
Minimized
water usage



Certified hygienic Levelling feet - XHG



FOOT PLATE



PRODUCT CODE	FOOT - SPINDLE - SLEEVE
EXAMPLE	XHG105 - XHJG16150 - RHGX1650

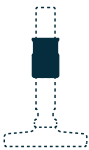
DIAMETER Ø [mm]	HEIGHT B [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
79	25	35.000	XHG080
104	25	55.000	XHG105
124	25	110.000	XHG125
149	25	110.000	XHG150

SPINDLE



THREAD	HEIGHT A [mm]	MIN HEIGHT L [mm]	W1 [mm]	DIAMETER Ø1 [mm]	NOM LOAD [N]	ITEM CODE
M16	150	76	13	16	30.800	XHJG16150
M16	210	106	13	16	24.900	XHJG16210
M20	150	76	15	20	48.200	XHJG20150
M20	210	106	15	20	48.200	XHJG20210
M24	150	76	19	24	69.200	XHJG24150
M24	210	106	19	24	69.200	XHJG24210
M30	150	76	24	30	110.200	XHJG30150
M30	210	106	24	30	110.200	XHJG30210
M36	150	76	30	36	160.200	XHJG36150
M36	210	106	30	36	160.200	XHJG36210

SLEEVE



THREAD	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M16	22	24,8	50	36	RHGX1650
M16	22	24,8	80	66	RHGX1680
M20	27	29,7	50	36	RHGX2050
M20	27	29,7	80	66	RHGX2080
M24	30	34,5	50	36	RHGX2450
M24	30	34,5	80	66	RHGX2480
M30	36	39,5	50	33	RHGX3050
M30	36	39,5	80	63	RHGX3080
M36	46	49,5	50	33	RHGX3650
M36	46	49,5	80	63	RHGX3680



Total height = A + B
Minimum usable height = B + L
Maximum usable height = B + L + C
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of total height = +/-1,5 mm

Certified hygienic Levelling feet - XHJ

The design and patent protected solid XHJ levelling foot is the optimal choice for heavy machinery and equipment that has to comply with the strictest hygienic requirements.

The XHJ is designed to be fastened to the floor by the two fixing holes in the footplate. Certified hygienic levelling feet are always delivered with hygienic nuts.

All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

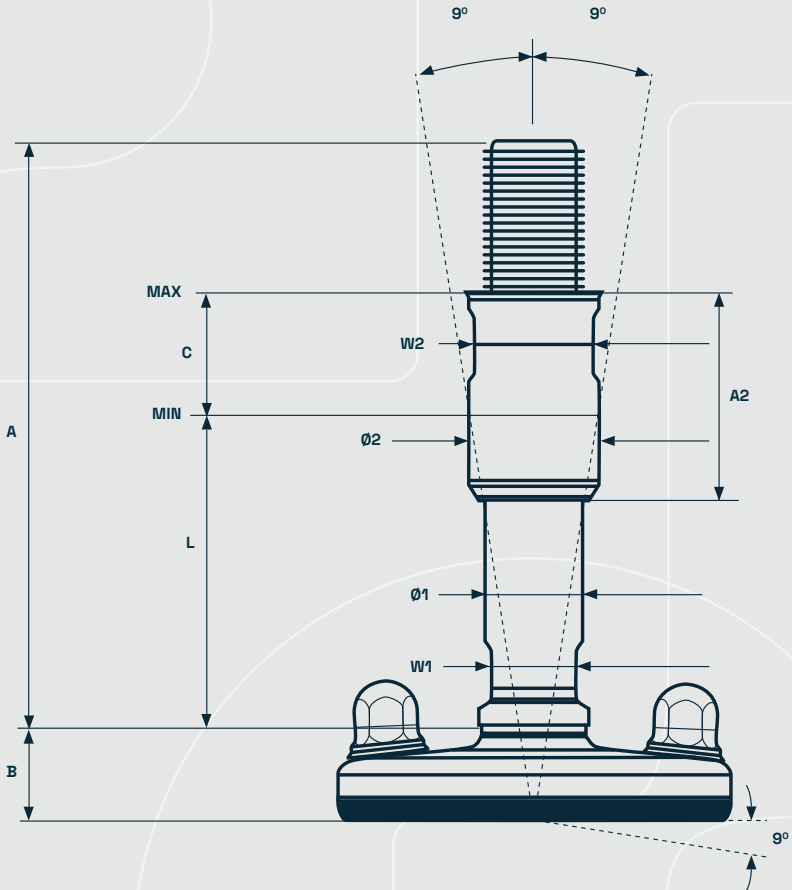
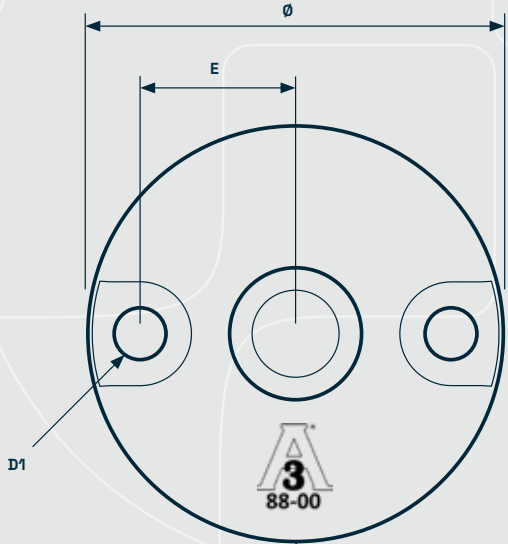
Minimum cleaning effort is obtained by the design of the self-draining surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

Available upon request:

- Official 3-A hygiene certificate
- Installation instructions
- Cleaning & maintenance instructions

Included in every shipment:

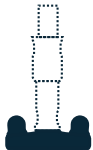
- Certified hygienic nuts



Certified hygienic Levelling feet - XHJ



FOOT PLATE



PRODUCT CODE

EXAMPLE

FOOT - SPINDLE - SLEEVE

XHJ105 - XHJG16150 - RHGX1650

DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
79	25	29	8,4	35.000	XHJ080
104	25	38	13	55.000	XHJ105
124	25	47	13	110.000	XHJ125
149	25	62	13	110.000	XHJ150

SPINDLE



THREAD	HEIGHT A [mm]	MIN HEIGHT L [mm]	W1 [mm]	DIAMETER Ø1 [mm]	NOM LOAD [N]	ITEM CODE
M16	150	76	13	16	30.800	XHJG16150
M16	210	106	13	16	24.900	XHJG16210
M20	150	76	15	20	48.200	XHJG20150
M20	210	106	15	20	48.200	XHJG20210
M24	150	76	19	24	69.200	XHJG24150
M24	210	106	19	24	69.200	XHJG24210
M30	150	76	24	30	110.200	XHJG30150
M30	210	106	24	30	110.200	XHJG30210
M36	150	76	30	36	160.200	XHJG36150
M36	210	106	30	36	160.200	XHJG36210

SLEEVE



THREAD	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M16	22	24,8	50	36	RHGX1650
M16	22	24,8	80	66	RHGX1680
M20	27	29,7	50	36	RHGX2050
M20	27	29,7	80	66	RHGX2080
M24	30	34,5	50	36	RHGX2450
M24	30	34,5	80	66	RHGX2480
M30	36	39,5	50	33	RHGX3050
M30	36	39,5	80	63	RHGX3080
M36	46	49,5	50	33	RHGX3650
M36	46	49,5	80	63	RHGX3680

Total height = A + B
Minimum usable height = B + L
Maximum usable height = B + L + C
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of total height = +/-1,5 mm



Certified hygienic Levelling feet - XHT

The design and patent protected XHT levelling foot is the optimal choice for machinery and equipment that has to comply with the strictest hygienic requirements.

The XHT consists of a separated footplate and spindle connected by the diametrically centered elevation on the footplate.

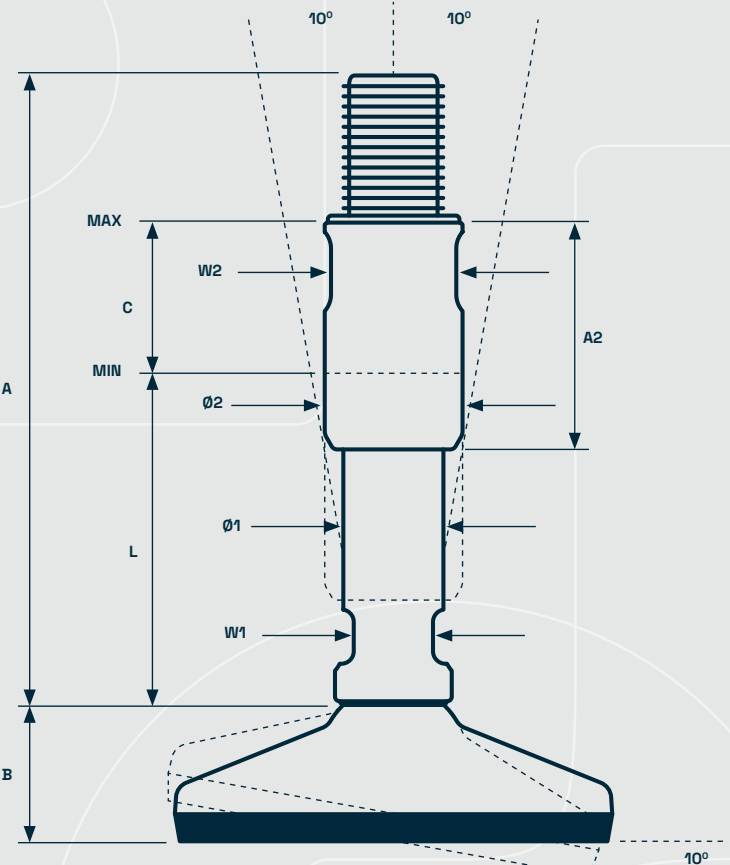
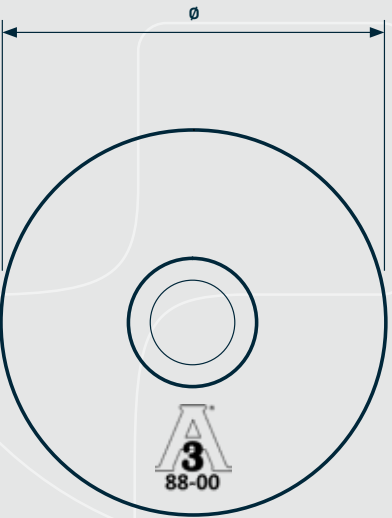
All movable parts are 100% hygienically sealed. All sealings are blue and therefore detectable by scanning systems.

Minimum cleaning effort is obtained by the design of the self-draining surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

Available upon request:

- Official 3-A hygiene certificate
- Installation instructions
- Cleaning & maintenance instructions

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage



Certified hygienic Levelling feet - XHT



PRODUCT CODE	FOOT - SPINDLE - SLEEVE
EXAMPLE	XHT080 - XHT16150 - RHOX1650

FOOT PLATE



DIAMETER Ø [mm]	HEIGHT B [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
80	33	15.000	XHT080
105	33	22.000	XHT105
125	34	32.000	XHT125
150	36	65.000	XHT150

SPINDLE



THREAD	HEIGHT A [mm]	MIN HEIGHT L [mm]	W1 [mm]	DIAMETER Ø2 [mm]	NOM LOAD [N]	ITEM CODE
M16	150	76	13	16	30.800	XHTS16150
M16	210	106	13	16	24.900	XHTS16210
M20	150	76	15	20	48.200	XHTS20150
M20	210	106	15	20	48.200	XHTS20210
M24	150	76	19	24	69.200	XHTS24150
M24	210	106	19	24	69.200	XHTS24210
M30	150	76	24	30	110.200	XHTS30150
M30	210	106	24	30	110.200	XHTS30210
M36	150	76	30	36	160.200	XHTS36150
M36	210	106	30	36	160.200	XHTS36210

SLEEVE



THREAD	W2 [mm]	DIAMETER Ø1 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M16	22	24,8	50	36	RHOX1650
M16	22	24,8	80	66	RHOX1680
M20	27	29,7	50	36	RHOX2050
M20	27	29,7	80	66	RHOX2080
M24	30	34,5	50	36	RHOX2450
M24	30	34,5	80	66	RHOX2480
M30	36	39,5	50	33	RHOX3050
M30	36	39,5	80	63	RHOX3080
M36	46	49,5	50	33	RHOX3650
M36	46	49,5	80	63	RHOX3680



Total height = A + B
Minimum usable height = B + L
Maximum usable height = B + L + C
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of total height = +/-1,5 mm

Certified hygienic Levelling feet - XHFV

The design and patent protected XHFV levelling foot is the optimal choice for machinery and equipment that has to comply with the strictest hygienic requirements.

The XHFV offers supreme height adjustment 100 mm as standard and has a sealed low-friction thread (lubricated for life).

Flexible mounting with optional flanges or thread adaptor.

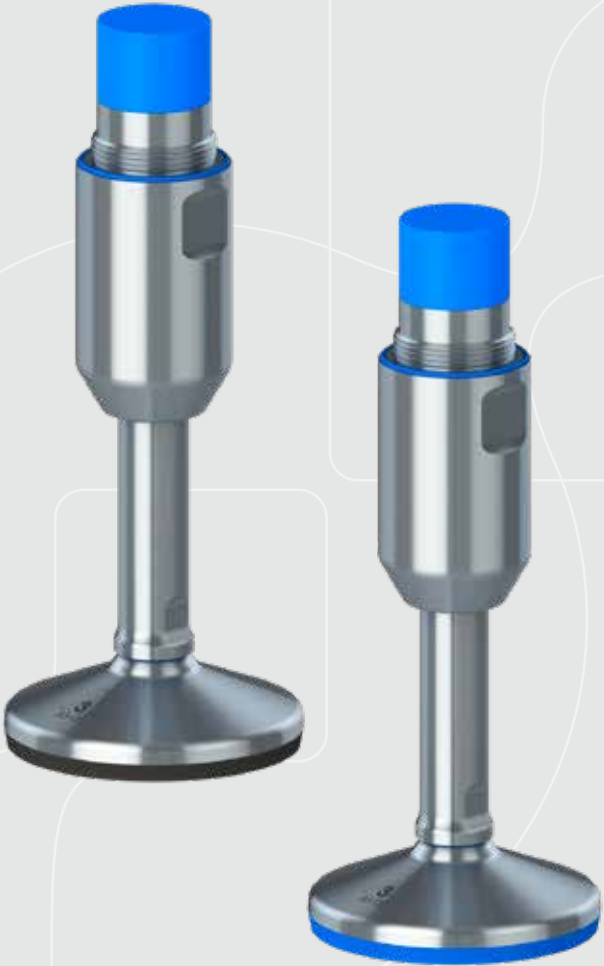
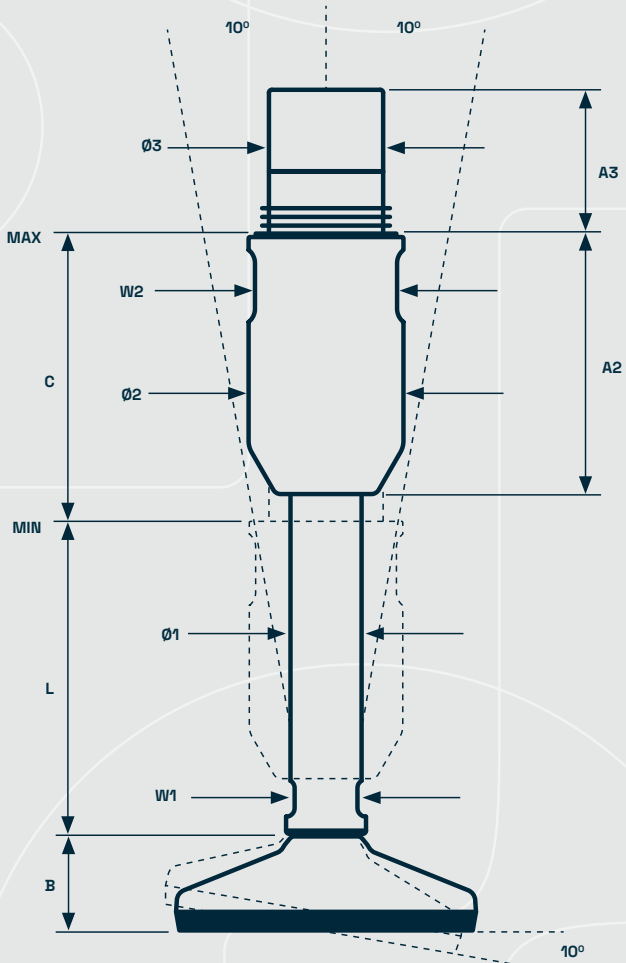
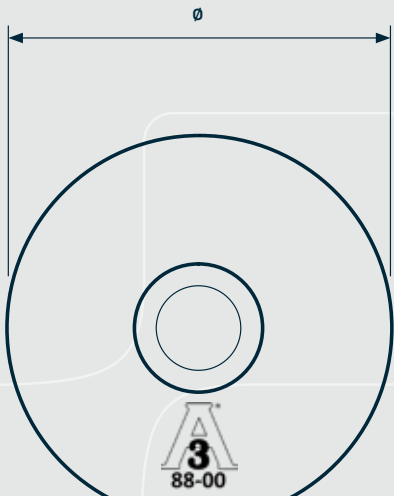
All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

Minimum cleaning effort is obtained by the design of the self-draining surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

Available upon request:

- Official 3-A & USDA hygiene certificates
- Installation instructions
- Cleaning & maintenance instructions

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage



Certified hygienic Levelling feet - XHFV



PRODUCT CODE	FOOT - SPINDLE - SLEEVE
EXAMPLE	XHFV065-XHF33144-V1

FOOT PLATE



DIAMETER Ø [mm]	HEIGHT B [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
65	28	9.000	XH065
80	33	15.000	XH080
105	33	22.000	XH105
125	34	32.000	XH125
150	34	65.000	XH150

SPINDLE



THREAD	MIN HEIGHT L [mm]	DIAMETER Ø1 [mm]	W1 [mm]	ITEM CODE
M33x3,5	71	25	22	XHF
M33x3,5	111	25	22	XHF
M33x3,5	151	25	22	XHF

SLEEVE



THREAD	ADJUSTMENT C [mm]	HEIGHT A2 [mm]	HEIGHT A3 [mm]	DIAMETER Ø2 [mm]	DIAMETER Ø3 [mm]	W2 [mm]	ITEM CODE
M44x2	100	51	90	54,8	40	50	V1
M44x2	100	91	50	54,8	40	50	V2
M44x2	100	131	10	54,8	40	50	V3
M44x2	V3 + adaptor						



Total height = B + L + C + A2
Minimum usable height = B + L
Maximum usable height = B + L + C
Tolerance of total height = +/-1,5 mm
Extra long V4 = V3 + adaptor

Certified hygienic Levelling feet - XHFV Fixing

The design and patent protected XHFV Fixing levelling foot is the optimal choice for machinery and equipment that has to comply with the strictest hygienic requirements.

The XHFV Fixing is designed to be fastened to the floor by the fixing plate. Certified hygienic levelling feet are always delivered with hygienic nuts.

The XHFV Fixing offers supreme height adjustment 100 mm as standard and has a sealed low-friction thread (lubricated for life).

Flexible mounting with optional flanges or thread adaptor.

All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

Minimum cleaning effort is obtained by the design of the self-draining surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

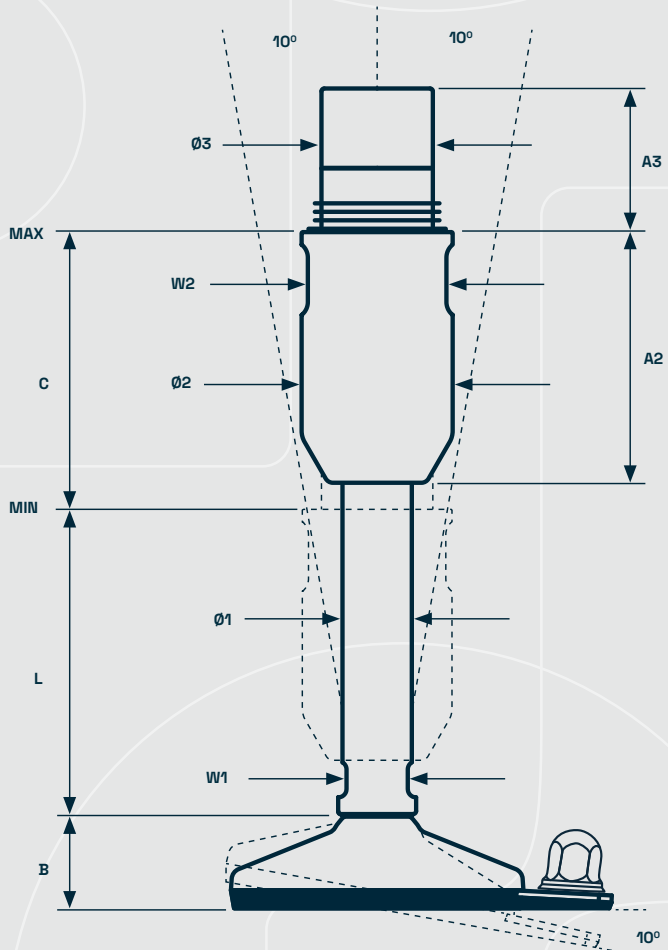
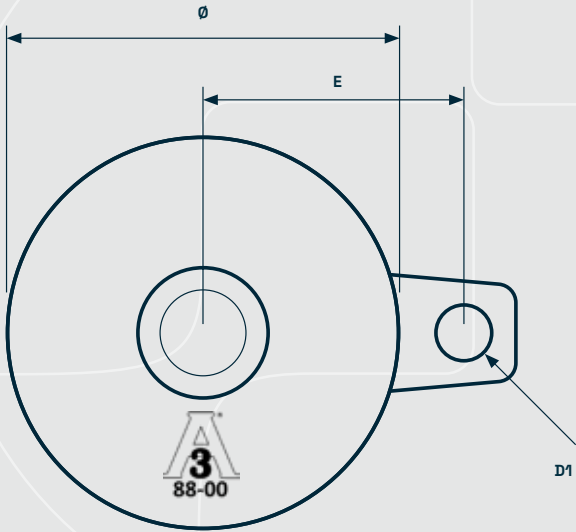
Available upon request:

- Official 3-A & USDA hygiene certificates
- Installation instructions
- Cleaning & maintenance instructions

Included in every shipment:

- Certified hygienic nuts

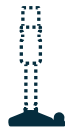
-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage



Certified hygienic Levelling feet - XHFV Fixing



FOOT PLATE



SPINDLE



SLEEVE



PRODUCT CODE
EXAMPLE

FOOT - SPINDLE - SLEEVE
XHFV-FIX066-XHF33144-V1

DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRES- SION [N]	ITEM CODE
65	28	46,8	15	9.000	XH-FIX066
80	33	53,2	15	15.000	XH-FIX081
105	33	70,0	15	22.000	XH-FIX106
125	34	80,0	15	32.000	XH-FIX126

THREAD	MIN HEIGHT L [mm]	DIAMETER Ø1 [mm]	W1 [mm]	ITEM CODE
M33x3,5	71	25	22	XHF
M33x3,5	111	25	22	XHF
M33x3,5	151	25	22	XHF

THREAD	ADJUSTMENT C [mm]	HEIGHT A1 [mm]	HEIGHT A2 [mm]	DIAMETER Ø2 [mm]	DIAMETER Ø3 [mm]	W2 [mm]	ITEM CODE
M44x2	100	51	90	54,8	40	41	V1
M44x2	100	91	50	54,8	40	41	V2
M44x2	100	131	10	54,8	40	41	V3
M44X2	V3 + adaptor						

Total height
Minimum usable height
Maximum usable height
Tolerance of total height
Extra long V4

= B + L + C + A2
= B + L
= B + L + C
= +/-1,5 mm
= V3 + adaptor

Certified hygienic Levelling feet - XHFVG

The design and patent protected solid XHFVG levelling foot is the optimal choice for heavy machinery and equipment that has to comply with the strictest hygienic requirements.

The XHFVG offers supreme height adjustment 100 mm as standard and has a sealed low-friction thread (lubricated for life).

Flexible mounting with optional flanges or thread adaptor, no risk of over-adjusting the sleeve and thereby exposing the thread.

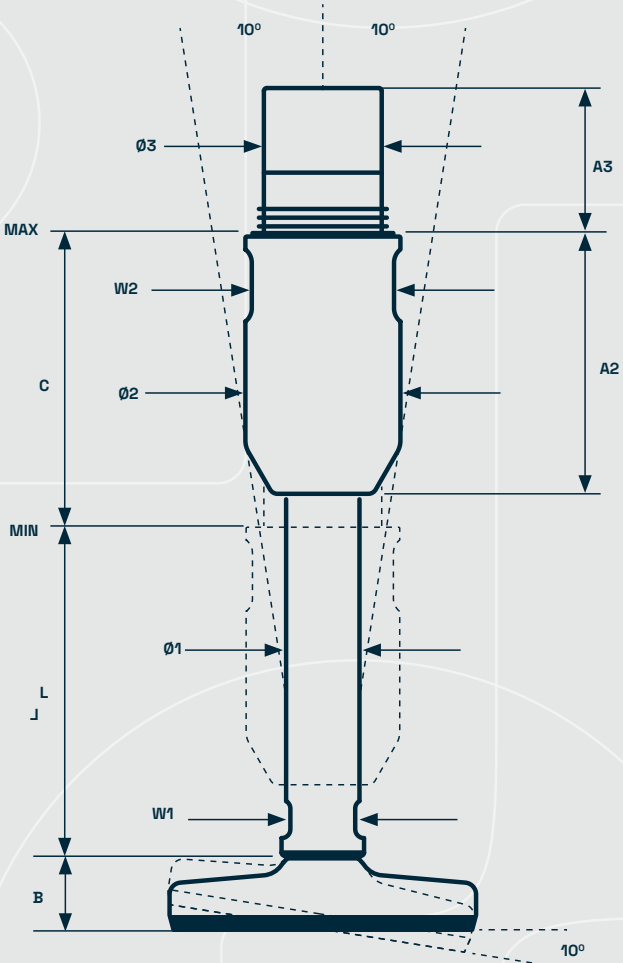
All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

Minimum cleaning effort is obtained by the design of the self-draining surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

Available upon request:

- Official 3-A & USDA hygiene certificates
- Installation instructions
- Cleaning & maintenance instructions

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage



Certified hygienic Levelling feet - XHFVG



PRODUCT CODE	FOOT - SPINDLE - SLEEVE
EXAMPLE	XHFVG105 - XHFJG33144 - V1

FOOT PLATE



DIAMETER Ø [mm]	HEIGHT B [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
79	25	35.000	XHFVG080
104	25	55.000	XHFVG105
124	25	110.000	XHFVG125
149	25	110.000	XHFVG150

SPINDLE



THREAD	MIN HEIGHT L [mm]	DIAMETER Ø1 [mm]	W1 [mm]	ITEM CODE
M33x3,5	71	25	22	XHFJG
M33x3,5	111	25	22	XHFJG
M33x3,5	151	25	22	XHFJG

SLEEVE



THREAD	ADJUSTMENT C [mm]	HEIGHT A2 [mm]	HEIGHT A3 [mm]	DIAMETER Ø2 [mm]	DIAMETER Ø3 [mm]	W2 [mm]	ITEM CODE
M44x2	100	51	90	54,8	40	50	V1
M44x2	100	91	50	54,8	40	50	V2
M44x2	100	131	10	54,8	40	50	V3
M44x2	V3 + adaptor						



Total height = B + L + C + A3
Minimum usable height = B + L
Maximum usable height = B + L + C
Tolerance of total height = +/-1,5 mm

Certified hygienic Levelling feet - XHFVJ

The design and patent protected solid XHFVJ levelling foot is the optimal choice for heavy machinery and equipment that has to comply with the strictest hygienic requirements.

The XHFVJ offers supreme height adjustability up to 100 mm as standard and has a sealed low-friction thread (lubricated for life).

The XHFVJ is designed to be fastened to the floor by the two fixing holes in the footplate. Certified hygienic levelling feet are always delivered with hygienic nuts.

Flexible mounting with optional flanges or thread adaptor.

All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

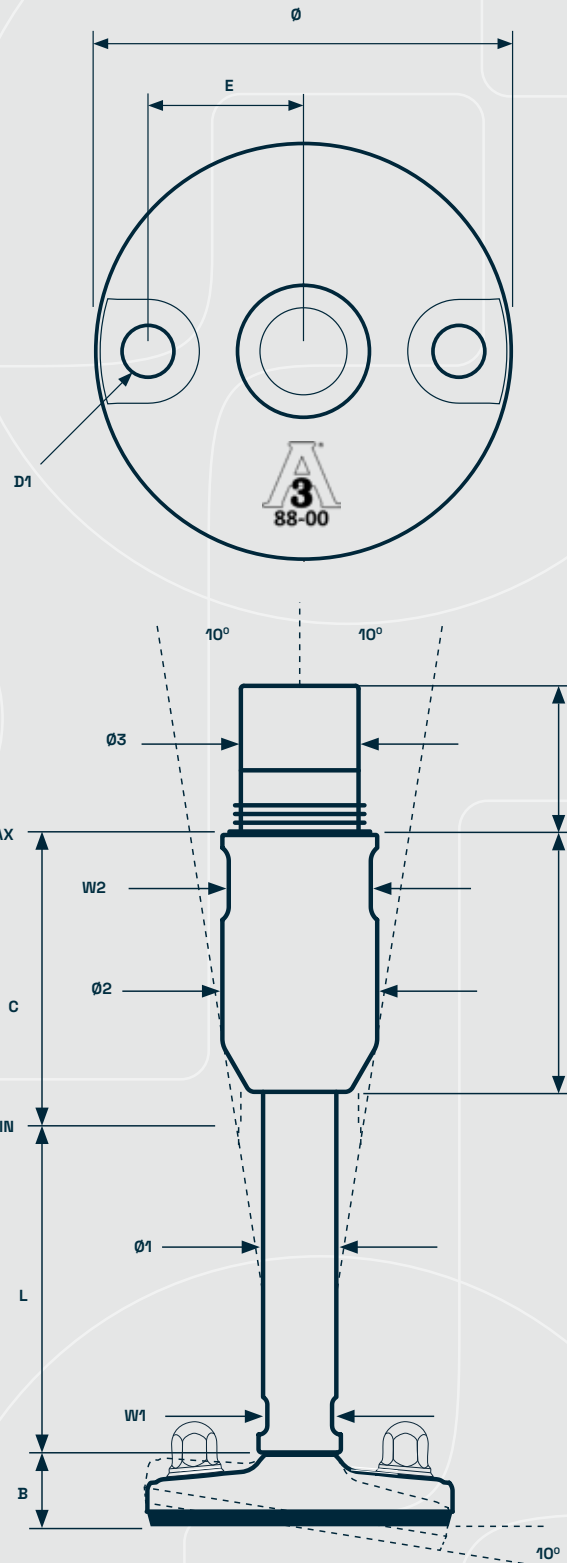
Minimum cleaning effort is obtained by the design of the self-draining surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

Available upon request:

- Official 3-A & USDA hygiene certificates
- Installation instructions
- Cleaning & maintenance instructions

Included in every shipment:

- Certified hygienic nuts



Certified hygienic Levelling feet - XHFVJ



FOOT PLATE



SPINDLE



SLEEVE



PRODUCT CODE

EXAMPLE

FOOT - SPINDLE - SLEEVE

XHFVJ105 - XHFJG33144 - V1

DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
79	25	29	8	35.000	XHJ080
104	25	38	13	55.000	XHJ105
124	25	47	13	110.000	XHJ125
149	25	62	13	110.000	XHJ150

THREAD	MIN HEIGHT L [mm]	DIAMETER Ø1 [mm]	W1 [mm]	ITEM CODE
M33x3,5	71	25	22	XHFJG
M33x3,5	111	25	22	XHFJG
M33x3,5	151	25	22	XHFJG

THREAD	ADJUSTMENT C [mm]	HEIGHT A2 [mm]	HEIGHT A3 [mm]	DIAMETER Ø2 [mm]	DIAMETER Ø3 [mm]	W2 [mm]	ITEM CODE
M44x2	100	51	90	54,8	40	50	V1
M44x2	100	91	50	54,8	40	50	V2
M44x2	100	131	10	54,8	40	50	V3
M44x2	V3 + adaptor						

Total height = B + L + C + A2
Minimum usable height = B + L
Maximum usable height = B + L + C
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of total height = +/-1,5 mm



Certified hygienic Levelling feet - XHFVT

The design and patent protected XHFVT levelling foot is the optimal choice for machinery and equipment that has to comply with the strictest hygienic requirements.

The XHFVT consists of a separated footplate and spindle connected by the diametrically centered elevation on the footplate.

The XHFVT offers supreme height adjustment 100 mm as standard and has a sealed low-friction thread (lubricated for life).

Flexible mounting with optional flanges or thread adaptor.

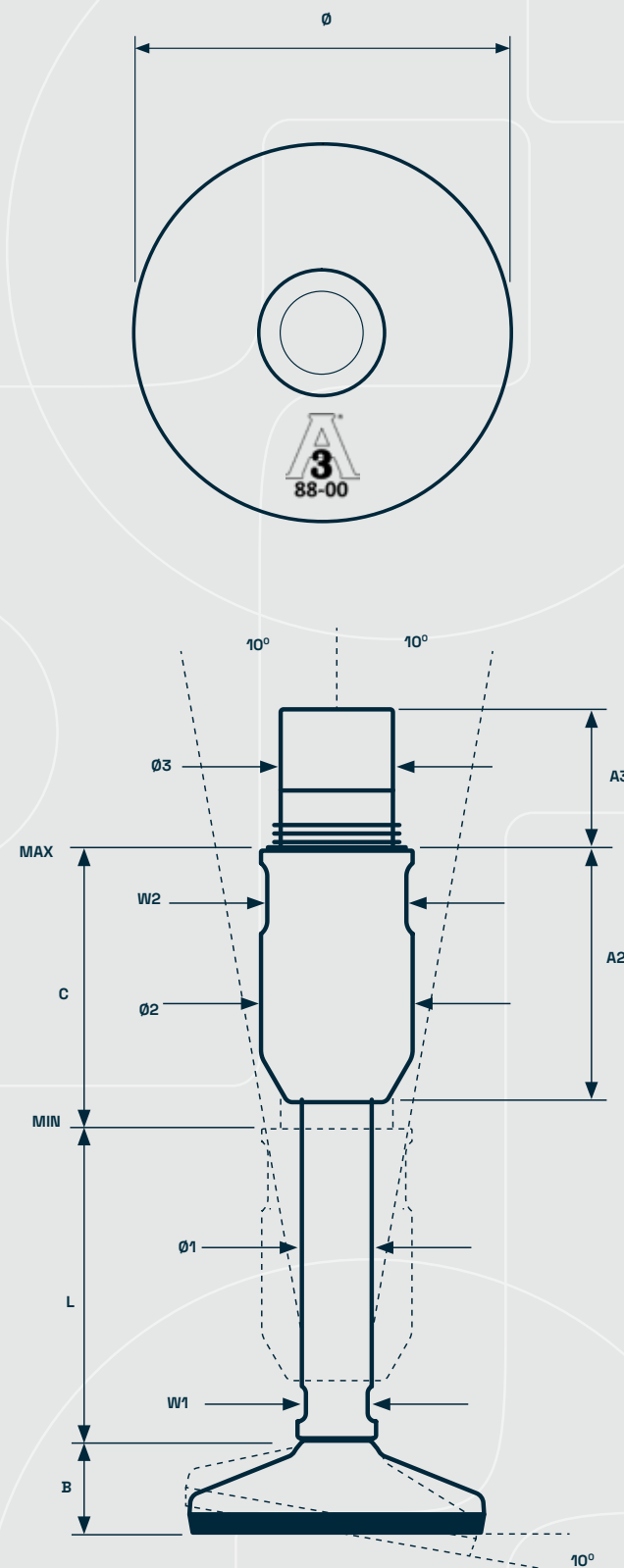
All movable parts are 100% hygienically sealed. All sealings are blue and therefore detectable by scanning systems.

Minimum cleaning effort is obtained by the design of the self-draining surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

Available upon request:

- Official 3-A & USDA hygiene certificates
- Installation instructions
- Cleaning & maintenance instructions

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage



Certified hygienic Levelling feet - XHFVT



FOOT PLATE



SPINDLE



SLEEVE



PRODUCT CODE	FOOT - SPINDLE - SLEEVE
EXAMPLE	XHFVT080 - XHFT33144 - V1

DIAMETER Ø [mm]	HEIGHT B [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
80	33	15.000	XHJ080
105	33	22.000	XHJ105
125	34	32.000	XHJ125
150	34	70.000	XHJ150

THREAD	MIN HEIGHT L [mm]	DIAMETER Ø1 [mm]	W1 [mm]	ITEM CODE
M33x3,5	71	25	22	XHFT
M33x3,5	111	25	22	XHFT
M33x3,5	151	25	22	XHFT

THREAD	ADJUSTMENT C [mm]	HEIGHT A2 [mm]	HEIGHT A3 [mm]	DIAMETER Ø2 [mm]	DIAMETER Ø3 [mm]	W2 [mm]	ITEM CODE
M44x2	100	51	90	54,8	40	41	V1
M44x2	100	91	50	54,8	40	41	V2
M44x2	100	131	10	54,8	40	41	V3
M44X2	V3 + adaptor						

Total height = B + L + C + A2
Minimum usable height = B + L
Maximum usable height = B + L + C
Tolerance of total height = +/-1,5 mm

Certified hygienic Weighing levelling feet - XHW

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The design and patent protected XHW weighing levelling foot is the optimal choice for supporting and weighing machinery, equipment, tanks and vessels in environments with strict hygienic requirements. The load cell is secured, guided and protected inside the foot.

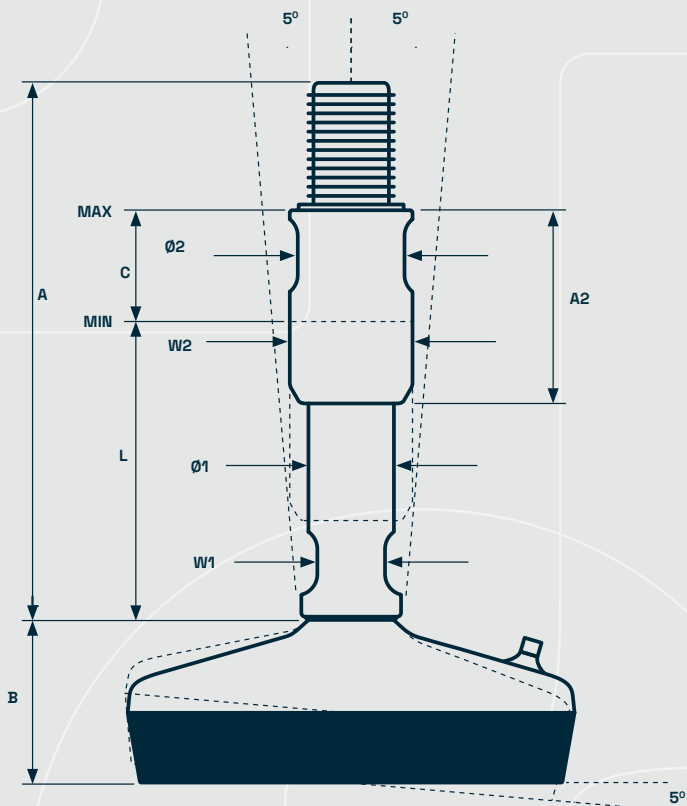
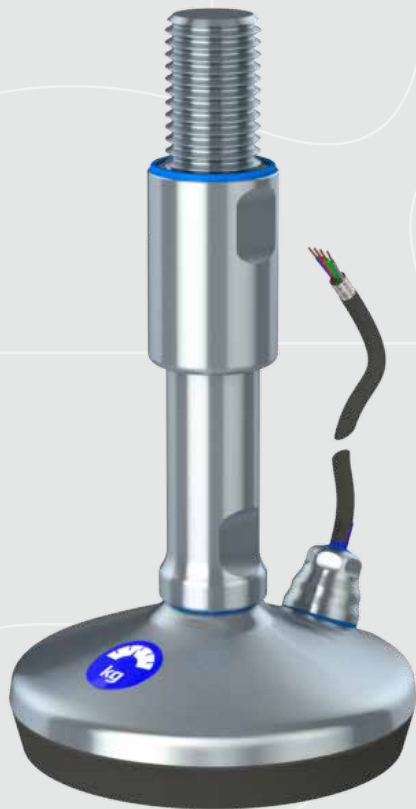
- Secured: Load cell is secured against hazardous mechanical external impacts
- Guided: Can obtain strong forces in all directions without affecting the load cell
- Protected: Against external influences like corrosion, temperatures and bacteria

The XHW levelling foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate and protects the load cell.

- Maintenance free and height-adjustable compact design
- Simple and fast installation - no mounting kit needed
- The different load cells cover a span of 30kg to 5000 kg
- Designed according to the 3-A and EHEDG hygienic standards
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401

Available upon request:

- Datasheet
- Installation instructions
- Cleaning & maintenance instructions



Certified hygienic Weighing levelling feet - XHW



PRODUCT CODE	FOOT	SPINDLE	SLEEVE	LOAD CELL
EXAMPLE	XHW105	XHM1224150	RHOX2450	PR6211/32D1

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	LOAD CELL NOM LOAD [KG]	ITEM CODE
80	80	39	30/50/100/200/300	XHW080
105	105	40	30/50/100/200/300	XHW105
125	125	45	500/1000/2000/3000/5000	XHW125
150	150	46	500/1000/2000/3000/5000	XHW150

THREAD [metric]	HEIGHT A [mm]	HEIGHT L [mm]	W1 [mm]	DIAMETER Ø1 [mm]	NOM LOAD [N]	ITEM CODE
M20	150	76	17	20	48.200	XHM1220150
M20	210	106	17	20	48.200	XHM1220210
M24	150	76	19	24	69.200	XHM1224150
M24	210	106	19	24	69.200	XHM1224210
M30	150	76	24	30	110.200	XHM1230150
M30	210	106	24	30	110.200	XHM1230210
M36	150	76	30	32	160.200	XHM1236150
M36	210	106	30	32	160.200	XHM1236210

THREAD [metric]	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M20	27	29,7	50	36	RHOX2050
M20	27	29,7	80	66	RHOX2080
M24	30	34,5	50	36	RHOX2450
M24	30	34,5	80	66	RHOX2480
M30	36	39,5	50	33	RHOX3050
M30	36	39,5	80	63	RHOX3080
M36	46	49,5	50	33	RHOX3650
M36	46	49,5	80	63	RHOX3680

LOAD CELL MIN. THREAD [OUTPUT]	30 KG	50 KG	100 KG	200 KG	300 KG	500 KG M24	1.000 KG M24	2.000 KG M30	3.000 KG M30	5.000 KG M30
2mV/V	PR6211/31D1	PR6211/51D1	PR6211/12D1	PR6211/13D1	PR6211/32D1	PR6251/52L	PR6251/13L	PR6251/23L	PR6251/33L	PR6251/53L
4-20mA	-	-	-	-	-	PR6251/52LA	PR6251/13LA	PR6251/23LA	PR6251/33LA	PR6251/53LA



Total height = A + B
Minimum usable height = B + L
Maximum usable height = B + L + C
Maximum nominal load = Lowest value for load cell or spindle
Tolerance of total height = +/-1,5 mm

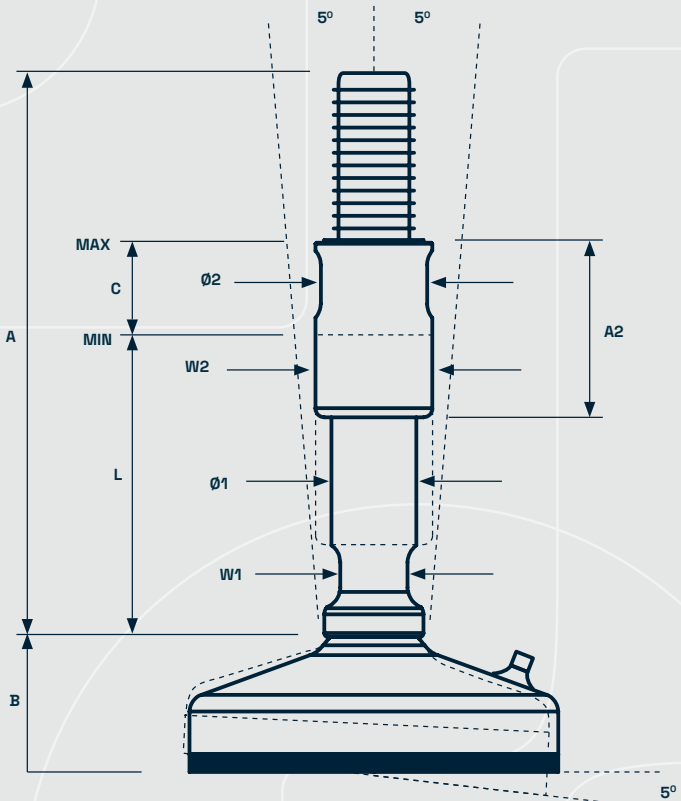
Certified hygienic Weighing levelling feet - XHGW

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The design and patent protected XHGW weighing levelling foot is the optimal choice for supporting and weighing machinery, equipment, tanks and vessels in environments with strict hygienic requirements. The load cell is secured, guided and protected inside the foot.

- Secured: Load cell is secured against hazardous mechanical external impacts
- Guided: Can obtain strong forces in all directions without affecting the load cell
- Protected: Against external influences like corrosion, temperatures and bacteria
- Maintenance free and height-adjustable compact design
- Simple and fast installation - no mounting kit needed
- The different load cells cover a span of 30 kg to 5.000 kg
- Designed according to the 3-A and EHEDG hygienic standards
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401

- Available upon request:
- Datasheet
 - Installation instructions
 - Cleaning & maintenance instructions



Certified hygienic Weighing levelling feet - XHGW



FOOT PLATE



SPINDLE



SLEEVE

PRODUCT CODE	FOOT	-	SPINDLE	-	SLEEVE	-	LOAD CELL
EXAMPLE	XHGW105	-	XHJGM1220150	-	RHOX2050	-	PR6211/32D1

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	LOAD CELL NOM LOAD [KG]	ITEM CODE
105	104	39	30/50/100/200/300	XHGW105
150	149	45	500/1000/2000/3000/5000	XHGW150

THREAD [metric]	HEIGHT A [mm]	HEIGHT L [mm]	W1 [mm]	DIAMETER Ø1 [mm]	NOM LOAD [N]	ITEM CODE
M20	150	76	17	20	48.200	XHM1220150
M20	210	106	17	20	48.200	XHM1220210
M24	150	76	19	24	69.200	XHM1224150
M24	210	106	19	24	69.200	XHM1224210
M30	150	76	24	30	110.200	XHM1230150
M30	210	106	24	30	110.200	XHM1230210
M36	150	76	30	32	160.200	XHM1236150
M36	210	106	30	32	160.200	XHM1236210

THREAD [metric]	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M20	27	29,7	50	36	RHOX2050
M20	27	29,7	80	66	RHOX2080
M24	30	34,5	50	36	RHOX2450
M24	30	34,5	80	66	RHOX2480
M30	36	39,5	50	33	RHOX3050
M30	36	39,5	80	63	RHOX3080
M36	46	49,5	50	33	RHOX3650
M36	46	49,5	80	63	RHOX3680

LOAD CELL MIN. THREAD [OUTPUT] 2mV/V 4-20mA	30 KG	50 KG	100 KG M16	200 KG	300 KG	500 KG M24	1.000 KG M24	2.000 KG M30	3.000 KG M30	5.000 KG M30
	PR6211/31D1	PR6211/51D1	PR6211/12D1	PR6211/13D1	PR6211/32D1	PR6251/52L	PR6251/13L	PR6251/23L	PR6251/33L	PR6251/53L
	-	-	-	-	-	PR6251/52LA	PR6251/13LA	PR6251/23LA	PR6251/33LA	PR6251/53LA



Total height = A + B
Minimum usable height = B + L
Maximum usable height = B + L + C
Maximum nominal load = Lowest value for load cell or spindle
Tolerance of total height = +/- 1,5 mm

Certified hygienic Weighing levelling feet - XHJW

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The design and patent protected XHJW weighing levelling foot is the optimal choice for supporting and weighing machinery, equipment, tanks and vessels in environments with strict hygienic requirements. The load cell is secured, guided and protected inside the foot.

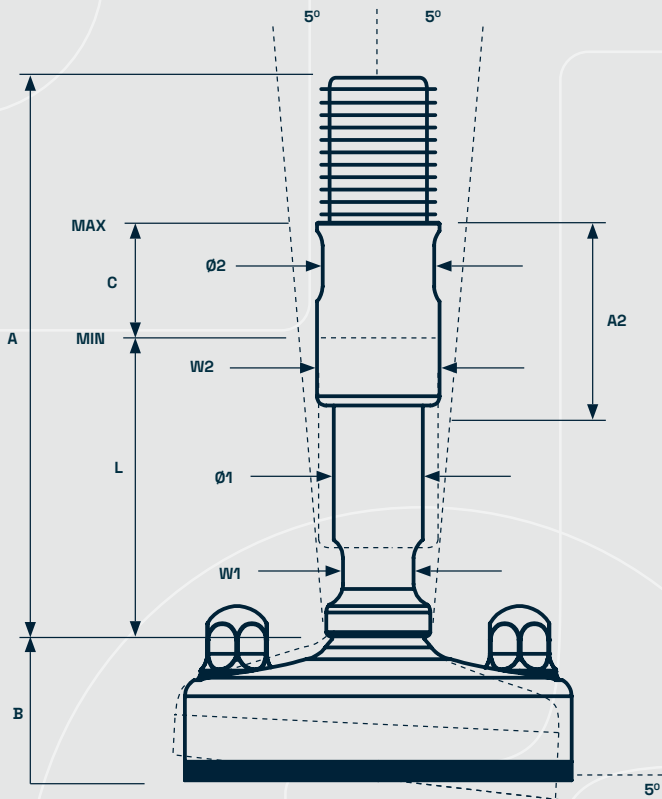
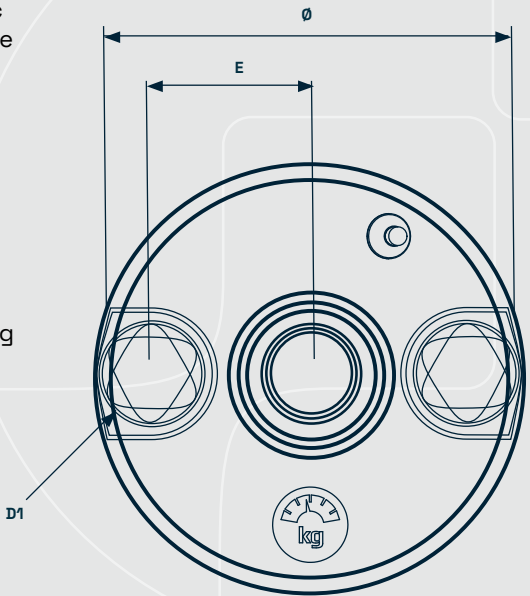
- Secured: Load cell is secured against hazardous mechanical external impacts
- Guided: Can obtain strong forces in all directions without affecting the load cell
- Protected: Against external influences like corrosion, temperatures and bacteria

The XHJW is designed to be fastened to the floor by the two fixing holes in the footplate.

- Maintenance free and height-adjustable compact design
- Simple and fast installation - no mounting kit needed
- The different load cells cover a span of 30 kg to 5.000 kg
- Designed according to the 3-A and EHEDG hygienic standards
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401

Available upon request:

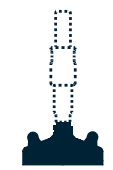
- Datasheet
- Installation instructions
- Cleaning & maintenance instructions



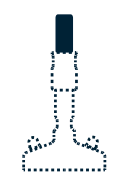
Certified hygienic Weighing levelling feet - XHJW



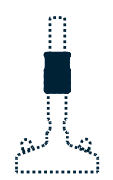
FOOT PLATE



SPINDLE



SLEEVE



PRODUCT CODE	FOOT	-	SPINDLE	-	SLEEVE	-	LOAD CELL
EXAMPLE	XHJW105	-	XHJGM1220150	-	RHOX2050	-	PR6211/32D1

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	LOAD CELL NOM LOAD [KG]	ITEM CODE
105	104	39	37,75	13	30/50/100/200/300	XHJW105
150	149	45	58	13	500/1000/2000/3000/5000	XHJW150

THREAD [metric]	HEIGHT A [mm]	HEIGHT L [mm]	W1 [mm]	DIAMETER Ø1 [mm]	NOM LOAD [N]	ITEM CODE
M20	150	76	17	20	48.200	XHM1220150
M20	210	106	17	20	48.200	XHM1220210
M24	150	76	19	24	69.200	XHM1224150
M24	210	106	19	24	69.200	XHM1224210
M30	150	76	24	30	110.200	XHM1230150
M30	210	106	24	30	110.200	XHM1230210
M36	150	76	30	32	160.200	XHM1236150
M36	210	106	30	32	160.200	XHM1236210

THREAD [metric]	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M20	27	29,7	50	36	RHOX2050
M20	27	29,7	80	66	RHOX2080
M24	30	34,5	50	36	RHOX2450
M24	30	34,5	80	66	RHOX2480
M30	36	39,5	50	33	RHOX3050
M30	36	39,5	80	63	RHOX3080
M36	46	49,5	50	33	RHOX3650
M36	46	49,5	80	63	RHOX3680

LOAD CELL
MIN. THREAD
[OUTPUT]
2mV/V
4-20mA

30 KG	50 KG	100 KG M16	200 KG	300 KG	500 KG M24	1.000 KG M24	2.000 KG M30	3.000 KG M30	5.000 KG M30
PR6211/31D1	PR6211/51D1	PR6211/12D1	PR6211/13D1	PR6211/32D1	PR6251/52L	PR6251/13L	PR6251/23L	PR6251/33L	PR6251/53L
-	-	-	-	-	PR6251/52LA	PR6251/13LA	PR6251/23LA	PR6251/33LA	PR6251/53LA



Total height = A + B
Minimum usable height = B + L
Maximum usable height = B + L + C
Maximum nominal load = Lowest value for load cell or spindle
Tolerance of total height = +/- 1,5 mm

Certified hygienic Weighing levelling feet - XHTW

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The design and patent protected XHTW weighing levelling foot is the optimal choice for supporting and weighing machinery, equipment, tanks and vessels in environments with strict hygienic requirements. The load cell is secured, guided and protected inside the foot.

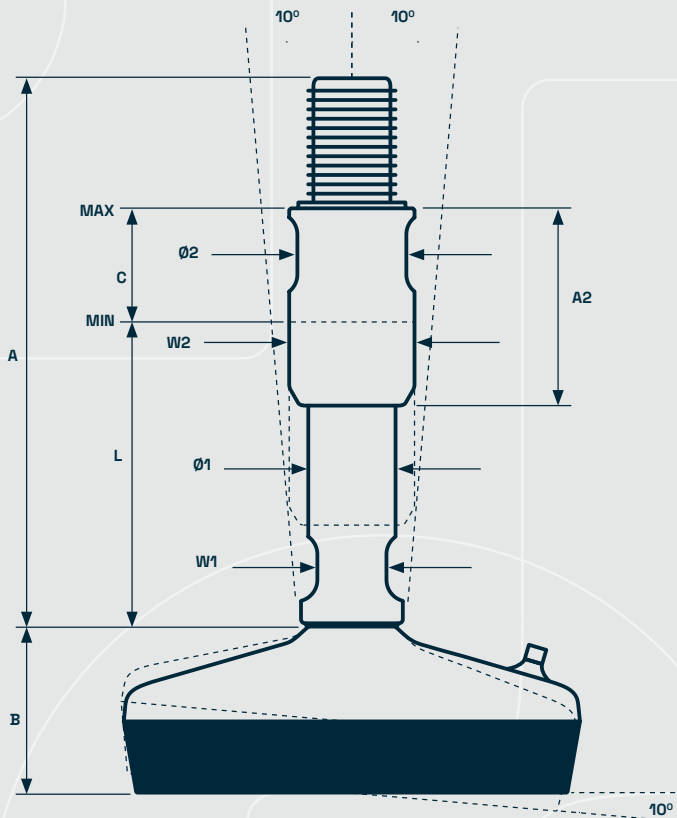
- Secured: Load cell is secured against hazardous mechanical external impacts
- Guided: Can obtain strong forces in all directions without affecting the load cell
- Protected: Against external influences like corrosion, temperatures and bacteria

The XHTW consists of a separated footplate and spindle connected by the diametrically centered elevation on the weighing footplate. Additionally, the levelling foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate and protects the load cell.

- Maintenance free and height-adjustable compact design
- Simple and fast installation - no mounting kit needed
- The different load cells cover a span of 30 kg to 5000 kg
- Designed according to the 3-A and EHEDG hygienic standards
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401

Available upon request:

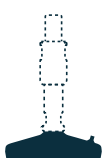
- Datasheet
- Installation instructions
- Cleaning & maintenance instructions



Certified hygienic Weighing levelling feet - XHTW



FOOT PLATE



SPINDLE



SLEEVE



PRODUCT CODE	FOOT	SPINDLE	SLEEVE	LOAD CELL
EXAMPLE	XHTW105	XHT24150	RHOX2450	PR6211/32D1

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	LOAD CELL NOM LOAD [KG]	ITEM CODE
80	80	39	30/50/100/200/300	XHW080
105	105	40	30/50/100/200/300	XHW105
125	125	45	500/1000/2000/3000/5000	XHW250
150	150	46	500/1000/2000/3000/5000	XHW250

THREAD [metric]	HEIGHT A [mm]	HEIGHT L [mm]	W1 [mm]	DIAMETER Ø1 [mm]	NOM LOAD [N]	ITEM CODE
M16	150	76	13	16	30.800	XHT16150
M16	210	106	13	16	24.900	XHT16210
M20	150	76	17	20	48.200	XHT20150
M20	210	106	17	20	48.200	XHT20210
M24	150	76	19	24	69.200	XHT24150
M24	210	106	19	24	69.200	XHT24210
M30	150	76	24	30	110.200	XHT30150
M30	210	106	24	30	110.200	XHT30210
M36	150	76	30	32	160.200	XHT36150
M36	210	106	30	32	160.200	XHT36210

THREAD [metric]	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M16	22	24,8	50	36	RHOX1650
M16	22	24,8	80	66	RHOX1680
M20	27	29,7	50	36	RHOX2050
M20	27	29,7	80	66	RHOX2080
M24	30	34,5	50	36	RHOX2450
M24	30	34,5	80	66	RHOX2480
M30	36	39,5	50	33	RHOX3050
M30	36	39,5	80	63	RHOX3080
M36	46	49,5	50	33	RHOX3650
M36	46	49,5	80	63	RHOX3680

LOAD CELL
MIN. THREAD
[OUTPUT]
2mV/V
4-20mA

30 KG	50 KG	100 KG M16	200 KG	300 KG	500 KG M24	1.000 KG M24	2.000 KG M30	3.000 KG M30	5.000 KG M30
PR6211/31D1	PR6211/51D1	PR6211/12D1	PR6211/13D1	PR6211/32D1	PR6251/52L	PR6251/13L	PR6251/23L	PR6251/33L	PR6251/53L
-	-	-	-	-	PR6251/52LA	PR6251/13LA	PR6251/23LA	PR6251/33LA	PR6251/53LA

Total height = A + B
Minimum usable height = B + L
Maximum usable height = B + L + C
Maximum nominal load = Lowest value for load cell or spindle
Tolerance of total height = +/-1,5 mm



Certified hygienic Weighing levelling feet - XHGTW

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The design and patent protected XHGTW weighing levelling foot is the optimal choice for supporting and weighing machinery, equipment, tanks and vessels in environments with strict hygienic requirements. The load cell is secured, guided and protected inside the foot.

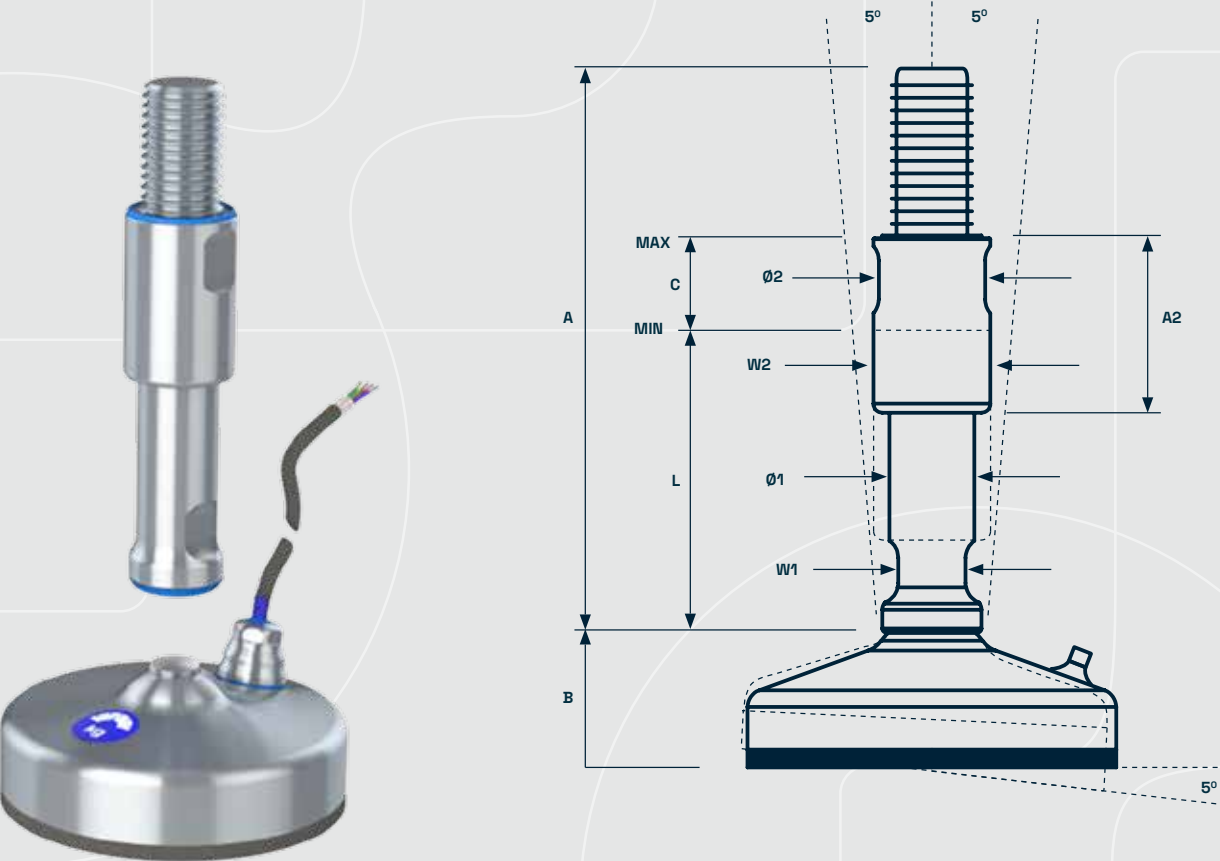
- Secured: Load cell is secured against hazardous mechanical external impacts
- Guided: Can obtain strong forces in all directions without affecting the load cell
- Protected: Against external influences like corrosion, temperatures and bacteria

The XHGTW consists of a separated footplate and spindle connected by the diametrically centered elevation on the weighing footplate.

- Maintenance free and height-adjustable compact design
- Simple and fast installation - no mounting kit needed
- The different load cells cover a span of 30 kg to 5.000 kg
- Designed according to the 3-A and EHEDG hygienic standards
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401

Available upon request:

- Datasheet
- Installation instructions
- Cleaning & maintenance instructions



Certified hygienic Weighing levelling feet - XHGTW



FOOT PLATE



SPINDLE



SLEEVE



PRODUCT CODE	FOOT	SPINDLE	SLEEVE	LOAD CELL
EXAMPLE	XHGTW105	XHT20150	RHOX2050	PR6211/32D1

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	LOAD CELL NOM LOAD [KG]	ITEM CODE
105	104	39	30/50/100/200/300	XHGTW105
150	149	45	500/1000/2000/3000/5000	XHGTW150

THREAD [metric]	HEIGHT A [mm]	HEIGHT L [mm]	W1 [mm]	DIAMETER Ø1 [mm]	NOM LOAD [N]	ITEM CODE
M16	150	76	13	16	30.800	XHT16150
M16	210	106	13	16	24.900	XHT16210
M20	150	76	17	20	48.200	XHT20150
M20	210	106	17	20	48.200	XHT20210
M24	150	76	19	24	69.200	XHT24150
M24	210	106	19	24	69.200	XHT24210
M30	150	76	24	30	110.200	XHT30150
M30	210	106	24	30	110.200	XHT30210
M36	150	76	30	32	160.200	XHT36150
M36	210	106	30	32	160.200	XHT36210

THREAD [metric]	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M16	22	24,8	50	36	RHOX1650
M16	22	24,8	80	66	RHOX1680
M20	27	29,7	50	36	RHOX2050
M20	27	29,7	80	66	RHOX2080
M24	30	34,5	50	36	RHOX2450
M24	30	34,5	80	66	RHOX2480
M30	36	39,5	50	33	RHOX3050
M30	36	39,5	80	63	RHOX3080
M36	46	49,5	50	33	RHOX3650
M36	46	49,5	80	63	RHOX3680

LOAD CELL MIN. THREAD [OUTPUT]	30 KG	50 KG	100 KG M16	200 KG	300 KG	500 KG M24	1.000 KG M24	2.000 KG M30	3.000 KG M30	5.000 KG M30
2mV/V	PR6211/31D1	PR6211/51D1	PR6211/12D1	PR6211/13D1	PR6211/32D1	PR6251/52L	PR6251/13L	PR6251/23L	PR6251/33L	PR6251/53L
4-20mA	-	-	-	-	-	PR6251/52LA	PR6251/13LA	PR6251/23LA	PR6251/33LA	PR6251/53LA



Total height
Minimum usable height
Maximum usable height
Maximum nominal load
Tolerance of total height

= A + B
= B + L
= B + L + C
= Lowest value for load cell or spindle
= +/-1,5 mm

Certified hygienic Seismic levelling feet - XHJSE (S)

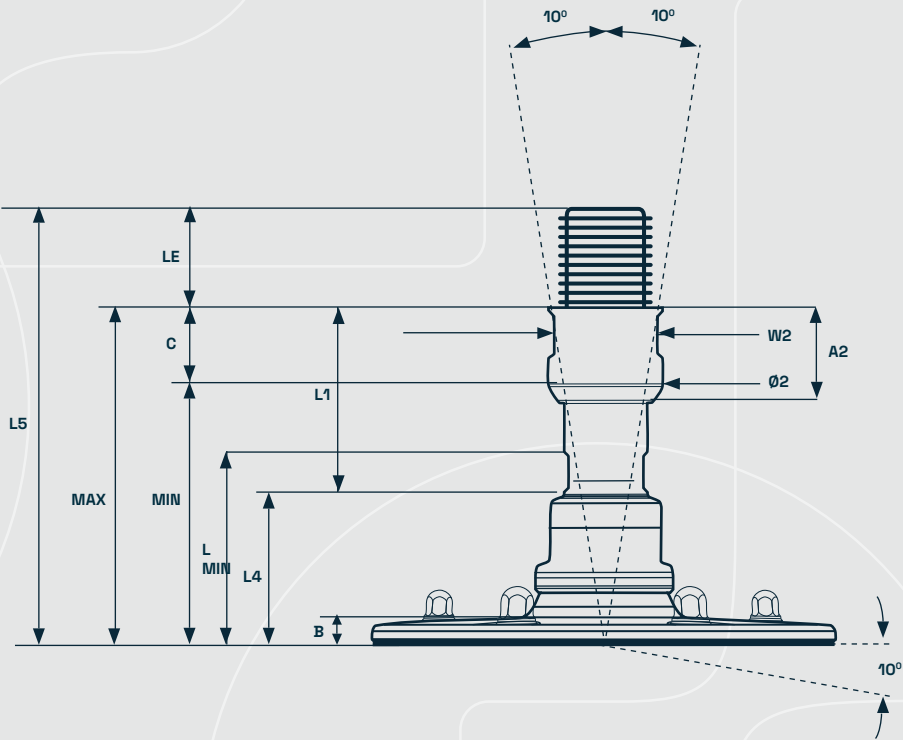
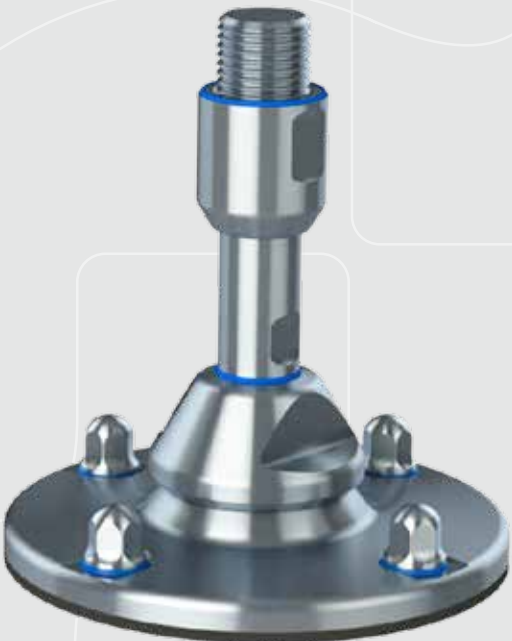
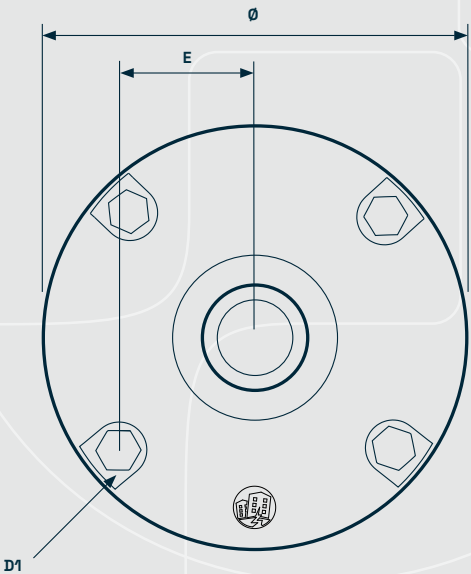
-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The design and patent protected seismic XHJSE (S) levelling foot is the optimal choice for machinery, equipment, tanks and vessels located in areas subject to earthquakes and also has to comply with the strictest hygienic requirements.

- Total seismic stability and bolted fastening to concrete floors
- Movable set-up - no concrete moulding required
- Seismic anchors chosen and approved by our experienced partner Hilti
- Patented locking mechanism secures seismic stability
- Calculated according to international seismic standard NZS 4219
- Design verified through Finite element simulation
- Designed according to the 3-A and EHEDG hygienic standards
- Certified according to USDA hygienic standard
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401

Available upon request:

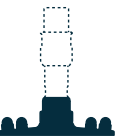
- Official USDA hygienic certificate
- Datasheet calculations
- Installation instructions
- Cleaning & maintenance instructions



Certified hygienic Seismic levelling feet - XHJSE (S)



FOOT PLATE



SPINDLE



SLEEVE



PRODUCT CODE						FOOT - SPINDLE - SLEEVE		
EXAMPLE						XHJSE150(S)-XHJSE36150-RHOXS3655		
TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLES [PCS]	BOLT TYPE [SIZE]	POSITION E [mm]	NOM PULL TENSION [N]	ITEM CODE	
150	149	19	3	M10x160	60	28000	XHJSE150(S)	
200	199	16,5	4	M12x155	80	38000	XHJSE200(S)	
250	249	15	4	M16x205	101	61.000	XHJSE250(S)	
300	299	12	6	M20x250	121	80000	XHJSE300(S)	

THREAD	HEIGHT L1 [mm]	HEIGHT L4 [mm]	HEIGHT L5 [mm]	L MIN [mm]	NOM LOAD COMPRESSION [N]	MAX HORIZONTAL LOAD SHEAR [N]	ITEM CODE
M30	116	77	228	105	60.000	2.100	XHJSE(S)30150
M30	178	77	288	107	60.000	1.300	XHJSE(S)30210
M36	114	77	221	103	96.000	3.500	XHJSE(S)36150
M36	179	77	288	105	96.000	2.200	XHJSE(S)36210
M42	118	82	233	109	140.000	4.900	XHJSE(S)42150
M42	179	82	298	110	140.000	3.200	XHJSE(S)42210
M48	143	82	283	120	140.000	6.900	XHJSE(S)48200
M48	203	82	343	120	140.000	4.800	XHJSE(S)48260
M56	138	82	278	115	140.000	13.100	XHJSE(S)56200
M56	203	82	343	120	140.000	8.900	XHJSE(S)56260

THREAD	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	LEVELLING MAX [mm]	LEVELLING MIN [mm]	ITEM CODE
M30	38	41,8	55	33	193	160	RHOXS3055
M30	38	41,8	85	63	255	192	RHOXS3085
M36	46	49,8	55	36	191	158	RHOXS3655
M36	46	49,8	85	66	256	190	RHOXS3685
M42	50	54,5	55	36	200	164	RHOXS4255
M42	50	54,5	85	66	261	195	RHOXS4285
M48	55	59,5	70	35	225	190	RHOXS4870
M48	55	59,5	100	65	285	220	RHOXS48100
M56	65	69,5	70	35	220	185	RHOXS5670
M56	65	69,5	100	65	285	220	RHOXS56100

Maximum nominal load
Tolerance of total height

= Depends on horizontal forces, request load diagram
= +/-1,5 mm

Certified hygienic Seismic levelling feet - XHJSE (L)

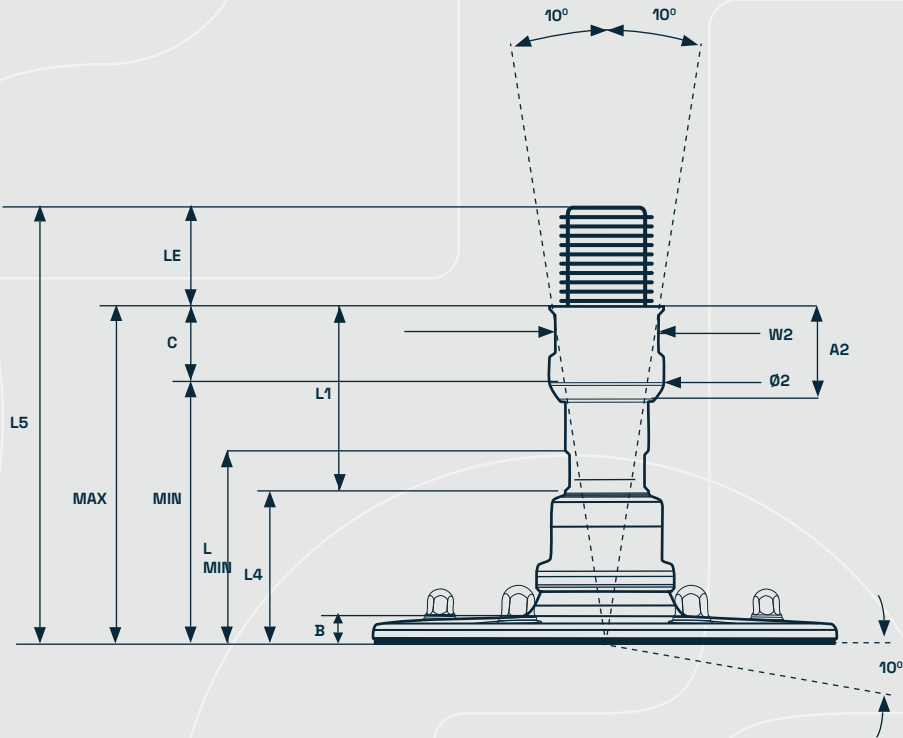
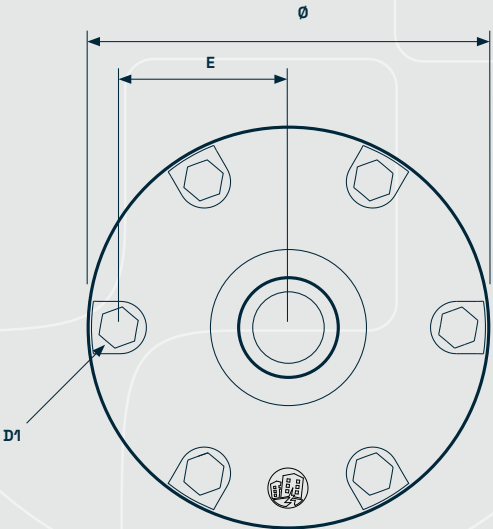
The design and patent protected seismic XHJSE (L) levelling foot is the optimal choice for machinery, equipment, tanks and vessels located in areas subject to earthquakes and also has to comply with the strictest hygienic requirements.

- Total seismic stability and bolted fastening to concrete floors
- Movable set-up - no concrete moulding required
- Seismic anchors chosen and approved by our experienced partner Hilti
- Patented locking mechanism secures seismic stability
- Calculated according to international seismic standard NZS 4219
- Design verified through Finite element simulation
- Designed according to the 3-A and EHEDG hygienic standards
- Certified according to USDA hygienic standard
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401

Available upon request:

- Official USDA hygienic certificate
- Datasheet calculations
- Installation instructions
- Cleaning & maintenance instructions

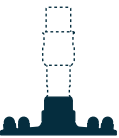
-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage



Certified hygienic Seismic levelling feet - XHJSE (L)



FOOT PLATE



SPINDLE



SLEEVE



PRODUCT CODE	FOOT - SPINDLE - SLEEVE
EXAMPLE	XHJSE300(L) - XHJSE80310 - RHOXS80115

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLES [PSC]	BOLT TYPE [SIZE]	POSITION E [mm]	NOM. PULL TENSION [N]	ITEM CODE
250	249	22	3	M16x240	101	63000	XHJSE250(L)
300	299	19	4	M20x250	121	82000	XHJSE300(L)
350	349	18	6	M20x250	142	90.000	XHJSE350(L)
400	399	17	6	M24x330	166	126000	XHJSE400(L)

THREAD	HEIGHT L1 [mm]	HEIGHT L4 [mm]	HEIGHT L5 [mm]	L MIN [mm]	NOM LOAD COMPRESSION [N]	MAX HORIZONTAL LOAD SHEAR [N]	ITEM CODE
M56	138	118	314	151	188.000	11.800	XHJSE(L)56200
M56	203	118	379	156	188.000	8.000	XHJSE(L)56260
M64	143	118	319	156	236.000	17.800	XHJSE(L)64200
M64	203	118	379	156	236.000	12.500	XHJSE(L)64260
M72	166	129	380	170	327.000	22.200	XHJSE(L)72250
M72	226	129	438	170	327.000	16.300	XHJSE(L)72310
M80	166	129	380	170	432.000	30.800	XHJSE(L)80250
M80	226	129	438	170	432.000	22.600	XHJSE(L)80310
M90	166	129	380	170	432.000	50.500	XHJSE(L)90250
M90	226	129	438	170	432.000	37.100	XHJSE(L)90310

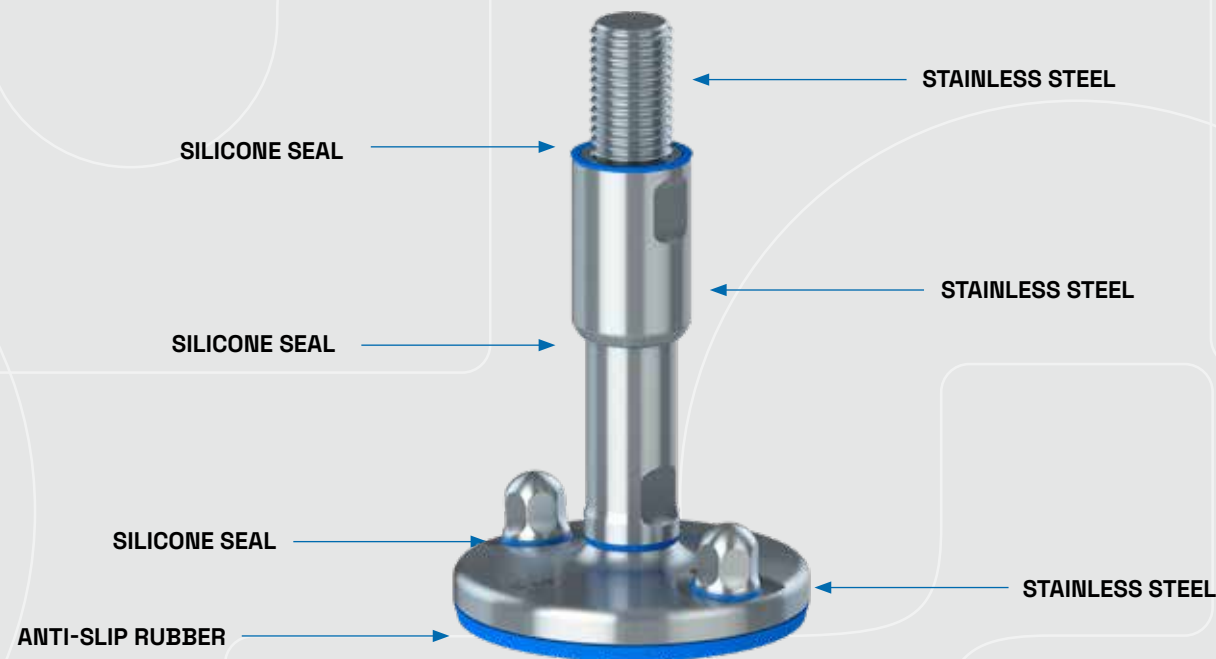
THREAD	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	LEVELLING MAX [mm]	LEVELLING MIN [mm]	ITEM CODE
M56	65	69,5	70	35	256	221	RHOXS5670
M56	65	69,5	100	65	321	256	RHOXS56100
M64	75	79,5	70	35	261	226	RHOXS6470
M64	75	79,5	100	65	321	256	RHOXS64100
M72	80	88	85	40	295	255	RHOXS7285
M72	80	88	115	70	355	285	RHOXS72115
M80	90	99,5	85	40	295	255	RHOXS8085
M80	90	99,5	115	70	355	285	RHOXS80115
M90	95	104	85	40	295	255	RHOXS59085
M90	96	104	115	70	355	285	RHOXS90115

Maximum nominal load
Tolerance of total height

= Depends on horizontal forces, request load diagram
= +/-1,5 mm

Cleaning & Maintenance

Levelling feet



CLEANING

1. Rinse with water (maximum temperature ~40°C on proteins).
2. Distribute and cover all surfaces with foaming alkaline detergent for minimum 10 minutes. All standard products within the industry can be used. Follow supplier recommendations for temperature (maximum 100°C) and concentration depending on foaming detergent.
3. Rinse with hot water (maximum 100°C) with low-medium pressure (approximately 8-12 bar) until it is visibly clean. Cleaning of the levelling foot including sealings and dome-headed nuts can normally be done with a spraying nozzle pointing in a downwards direction approximately 45°. For heavy duty cleaning a more direct-oriented nozzle can be necessary. Be careful not to damage the sealings if high pressure cleaning is used. Keep nozzle at minimum 200-300 mm distance.
4. Mechanical cleaning may be necessary if the levelling foot is severely soiled. Cleaning must be executed with a soft brush or soft plastic scraper together with a more direct pointing nozzle spray. Steel scraper, steel brush or other sharp metallic tools are strictly prohibited, since the sealings can be severely damaged and the steel surfaces will be scratched.

MAINTENANCE

1. If the sealings on the sleeve are damaged they must be replaced. Always use genuine spare parts from NGI.
2. If the sealing between the foot and the spindle is damaged, replace the whole levelling foot and install a new one. An assembled levelling foot cannot be separated.
3. Load on the levelling foot must be obtained in order for the footplate to be hygienically sealed to the floor.
4. For a levelling foot for floor fixing always make sure that the floor fixing nut or bolt is tightened as specified in the installation manual. Tighten if necessary. If replacement of nuts or washers is always use genuine spare parts from NGI.
5. If any readjustments are necessary the levelling foot and the nearest surroundings must be cleaned carefully to prevent any soil from entering the sleeve.

Installation

ZHJS, ZHJC, XH, XHT, XHJ, XHG

It is important to follow these instructions in order to ensure the certified hygienic design and functionality.

This documentation is enclosed with the levelling feet and should always be handed over to the end-user.

- 0A. Prior to installation of the levelling foot ensure that the floor does not exceed maximum slope.
- 0B. When installing, make sure that the footplate does not span over cracks, grout lines or other floor imperfections. If unavoidable, seal the cavity with bonding material under and around the edge of the footplate.
- 1A. Lift or jack up the machinery or equipment to install the levelling foot.
- 1B. Make sure that the sealing is correctly fixed on top of the sleeve. Grease the exposed thread with FoodLube Universal Grease and make sure to remove any excess grease after installation.
2. Install the levelling foot and use a wrench to adjust the vertical position and make sure that the engagement is no less than the diameter of the thread.

Repeat step 0A-2 for all feet supporting the machinery.

Lower the machinery so that the feet rest on the floor. Perform final height and levelling adjustments if needed and ensure that the load is uniformly distributed on all feet.

3. Use a wrench to rotate and tighten the sleeve against the machinery or equipment. Make sure that the sleeve is tightened to counter-lock the levelling foot and cover the thread.



If the levelling foot is not fully inserted into the machinery or equipment the thread will become partly exposed. In this case, it is not correctly installed and will neither meet 3A, USDA & EHEDG hygienic demands nor load specifications.



Installation

ZHFVJ, XHFV, XHFVT, XHFVJ, XHFVG

It is important to follow these instructions in order to ensure the certified hygienic design and functionality.

This documentation is enclosed with the levelling feet and should always be handed over to the end-user.

0A. Prior to installation of the levelling foot ensure that the floor does not exceed maximum slant.

0B. When installing, make sure that the footplate does not span over cracks, grout lines or other floor imperfections. If unavoidable, seal the cavity with bonding material under and around the edge of the footplate.

1A. Lift or jack up the machinery or equipment to install the levelling foot.

1B. Apply the optional flange to the machinery by welding or bolting. For a hygienic solution use dome-headed nuts.

2. Make sure that the sealing is correctly fixed on top of the sleeve and install the levelling foot using a wrench and apply Loctite if necessary.

Repeat step 0A-2 for all feet supporting the machinery.

Lower the machinery so that the feet rest on the floor. Perform final height and levelling adjustments if needed and ensure that the load is uniformly distributed on all feet.



No maintenance lubrication is needed. The sealed low-friction thread is lubricated for life and the levelling foot is secured against over-adjustment and exposure of the thread.



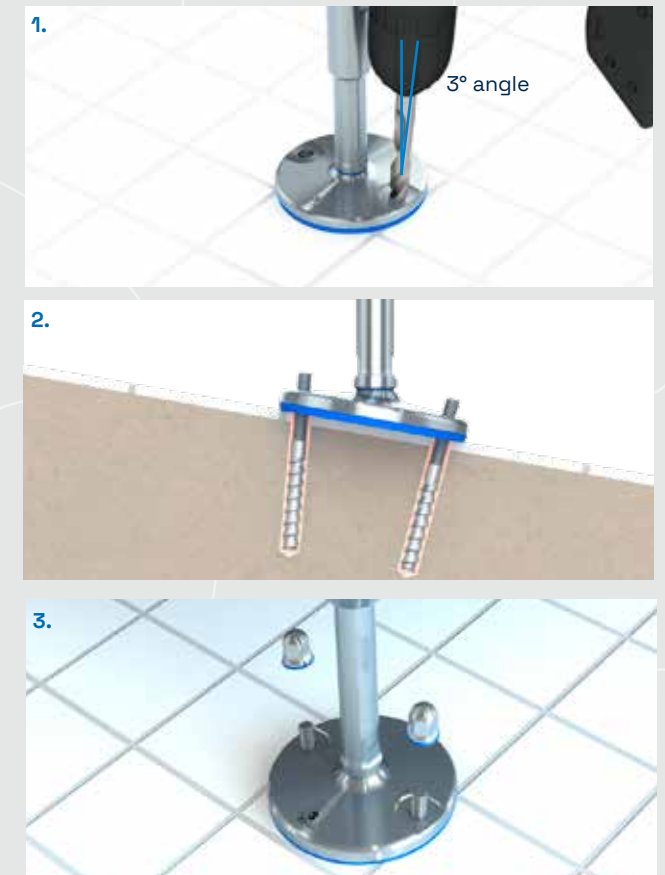
Installation

Floor fixing levelling feet

It is important to follow these instructions in order to ensure the certified hygienic design and functionality.

This documentation is enclosed with the levelling feet and should always be handed over to the end-user.

1. Hold the drill in a 3° angle so that it fits the direction of the fixing hole in the levelling foot. Drill the hole through the footplate down into the floor.
2. When an anchoring rod is used, make sure to allow the mortar to dry according to the manufacturer's instructions. When an expanding anchor is used, make sure to also follow the manufacturer's instructions.
3. Add the prescribed certified hygienic nuts using a maximum torque of 10-12 Nm.



Declaration of conformity levelling feet

- ZHJS, ZHJC, ZHFVJ

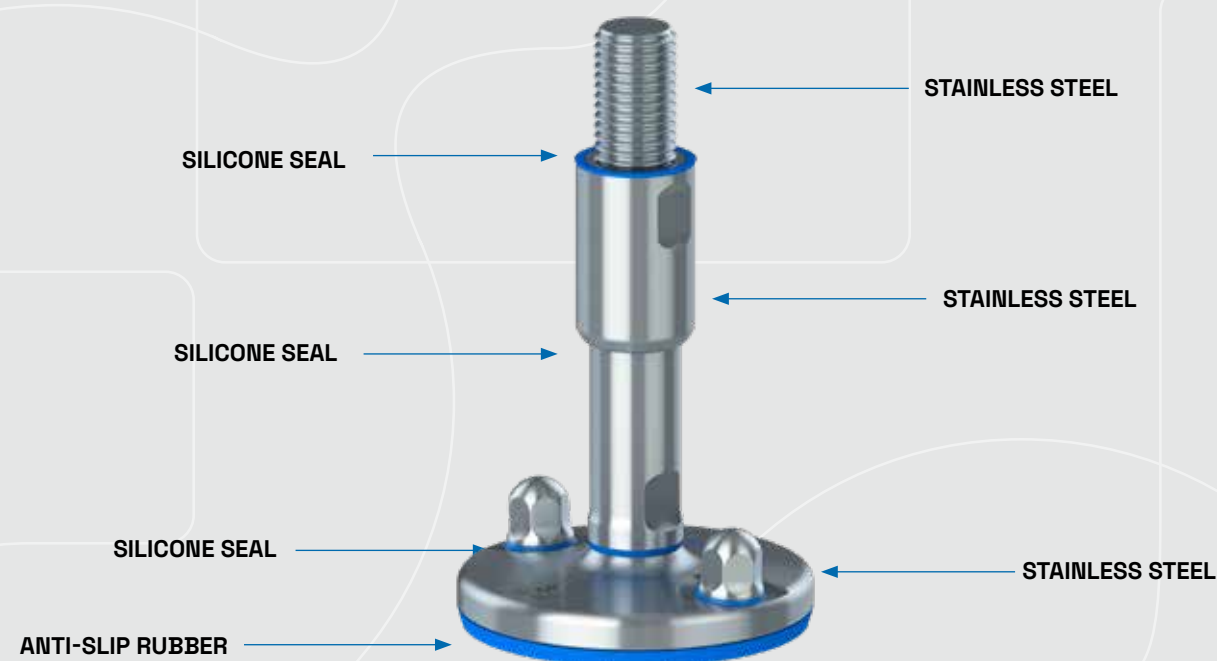


NGI fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentively follow the revisions and amendments to these directives and will design our products accordingly. This ensures that products from NGI are always in compliance with currently valid requirements.

Our product category is not covered by the scope of application of the EC directive for machinery. For this reason, they cannot be furnished with the CE marking in accordance with the EC directive for machinery.

NGI A/S, Virkelyst 3-7, 9400 Nørresundby, Denmark, hereby declares that the design is according to 3-A, USDA & EHEDG guidelines and regulations specified in the following.

Furthermore, we declare that the listed materials applied in our products comply with the demands for materials used within the food and pharmaceutical industries.



Declaration of conformity levelling feet

- ZHJS, ZHJC, ZHFVJ

Materials, Surface Roughness, Fabrication and Geometry

Metallic surfaces are constructed from AISI 304 grade stainless steel and are corrosion resistant under the specified conditions of use including those of cleaning. The elastomeric components are constructed from FDA approved NBR and TPE Santoprene® rubber material. The sealing washers are constructed from Aramid fiber material. All materials used are considered non-toxic and are non-absorbent.

All exposed metallic surfaces are finished to maximum surface roughness values of 0.8 µm Ra. All elastomeric components and sealing washers are left as moulded with no hand trimming and all surfaces are considered smooth enough to ensure superior cleanability.

There are no exposed dissimilar metal-to-metal contact areas in the construction where galvanic corrosion could occur.

Hygienic seals permit access for easy cleaning with no inaccessible pockets or crevices.

There is no risk of exposed threads and no unsealed metal-to-metal joints in the finished construction.

All exposed surfaces have a smooth finish so that soil may be cleaned from the surface using manual cleaning techniques and be free of pits, folds, cracks, crevices, and other imperfections in the final fabricated form.

Drainability and Installation

The levelling feet are designed to be self-draining and contain no horizontal ledges. Comprehensive instructions are provided containing detailed information to ensure compliance with the 3-A, USDA & EHEDG design criteria.

The 3-A Sanitary Standard 88-00 requires that when leveling feet are properly mounted on the equipment, they shall provide a minimum clearance between the lowest part of the equipment and the floor of no less than 4.0 inches (102 mm) if the equipment outlines an area in which no point is more than 12.5 inches (318 mm) from its' nearest edge. If the equipment outlines an area in which any point is more than 12.5 inches (318 mm) from its' nearest edge the clearance shall be at least 6 inches (152 mm).

The EHEDG guideline recommends a minimum clearance between the equipment and the floor or wall of 300 mm for easy cleaning and inspection.

When fasteners are required only dome nuts must be used. The exposed interfaces shall be sealed with sealing washers and there must be no threads exposed in the installed configuration of the levelling feet.

Declaration of conformity levelling feet

- ZHJS, ZHJC, ZHFVJ



Maintenance and Cleaning

Foot bases can be sealed to the floor if required. And the installation instructions make recommendations not to span over floor imperfections or grout lines without the addition of proprietary sealing compounds.

Maximum torque values are specified as appropriate on fastening arrangements to avoid over-compression of sealing washers and gaskets.

Maintenance instructions are clearly defined and prohibit the use of non-genuine replacement parts.

Cleaning instructions describe typical cleaning procedures with recommended maximum temperatures/pressures and stipulate the use of non-abrasive cleaning aids.

The design does not contain dead spaces and avoid accumulation of soil, microorganism's insects and other vermin in areas which cannot be easily cleaned.

Adhesives, Lubricants, Insulation and Signal Transfer Liquids

Sealing and thread locking compounds used in the construction are non-toxic in the cured state.

No lubricants, insulation material or signal transfer liquids are used in the construction.

Standards and directives

EN 1672-2:2005 Food machinery / General design principles/Part 2: Hygiene requirements.

EN ISO 14 159 2004 Safety of machinery – Hygiene requirements for the design of machinery.

Document 13 EHEDG guideline on the hygienic design of apparatus for open processes.

EHEDG Class I AUX: The hygienic design criteria evaluation report concludes that the designs meet the criteria for hygienic equipment class I AUX for components situated in the non-food area and are accessible for easy cleaning without dismantling.

3-A sanitary standard for machine levelling feet and supports.

USDA Guidelines for the sanitary design and fabrication of dairy processing equipment June 2001.

EU regulations

852/2004 on the hygiene of foodstuffs.

853/2004 specific hygiene rules for food of animal origin.

854/2004 specific rules for the organization of official controls on products of animal origin intended for human consumption.

1935/2004 on materials and articles intended to come into contact with food.

Declaration of conformity levelling feet

- ZHJS, ZHJC, ZHFVJ



The declaration of materials concerns the following Applications

Application: Material type: Compliance:	Steel components, e.g. spindle, sleeve and cover for foot Stainless steel, AISI 304/A2 (X5CrNi18-10), Euro norm 1.4301. By request: Stainless steel, AISI 316/A4 (X 5 CrNiMo 17 12 2), Euronorm 1.4401 EN 10204 Type 2.2. NGI A/S states that the product is in compliance with the order with indication of results of nonspecific inspection. NGI A/S has got EN 10204 type 3.1 inspection certificates on all material used in the products but not specified for each foot. In the directive 94/9/EC, Equipment for potentially explosive atmospheres, also known as the ATEX directive, equipment without its own potential source of ignition are not covered, nor shall be marked according to the directive. However, NGI levelling feet are suitable for use in all ATEX zones.
Application: Material type: Color: Hardness: Range of temperature: Compliance: REACH:	Foot base for NGI A/S's hygienic machine feet NBR (NNF-75) Blue 72 ± 3 Shore A DIN 53 505 Min -35°C to Max +110°C In accordance with regulation EC 1907/2006. Do not contain any substances above 0.1% (w/w) from: The Candidate List of Substances of Very High Concern (16.01.2020). Annex XVII (19-11-2019)
RoHS 2 & RoHS 3	In accordance with the directive 2011/65/EC and 2015/863/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.
ADI free:	Does not contain any substances originating from humans or animals.
Bisphenols:	Does not contain Bisphenols as described in 1895/2005/EEC. Nor BPA, BADGA, BFDGE or NOGE.
ODS:	Does not contain ozone depleting substances. In accordance with the Regulation EC 1005/2009 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 16 SEPTEMBER 2009 and Regulation EC 2037/2000 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 29 JUNE 2000.
Conflict Materials:	In accordance with US Law: "Dodd Frank Wall Street Reform & Consumer Protection Act", sec. 1502, of 21.07.2010.
GMP:	Good manufacturing process in accordance with 2023/2006 EC.
Hazardous materials:	Does not contain any hazardous substances as described in the Hong Kong International Convention for the Safe and Environmental. Sound Recycling of ships, 2009.
Phthalates:	Does not contain phthalates.
FDA:	Guideline 21 CFR 177.2600
Application: Material type: Hardness: Color: Range of temperature: Storage: Compliance:	Sealing ring between steel components for NGI's machine feet. Silicon rubber 60 Shore A RAL 5010 (blue) Min -60°C to Max +200°C According to ISO 2230 FDA: Guideline 21 CFR 177.2600 RoHS 2: In accordance with the Directive 2011/65/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL. GMP: Good manufacturing process in accordance with 2023/2006 EC.

Declaration of conformity levelling feet

- XH, XHT, XHG, XHJ, XHFV, XHFVT, XHFVG, XHFVJ

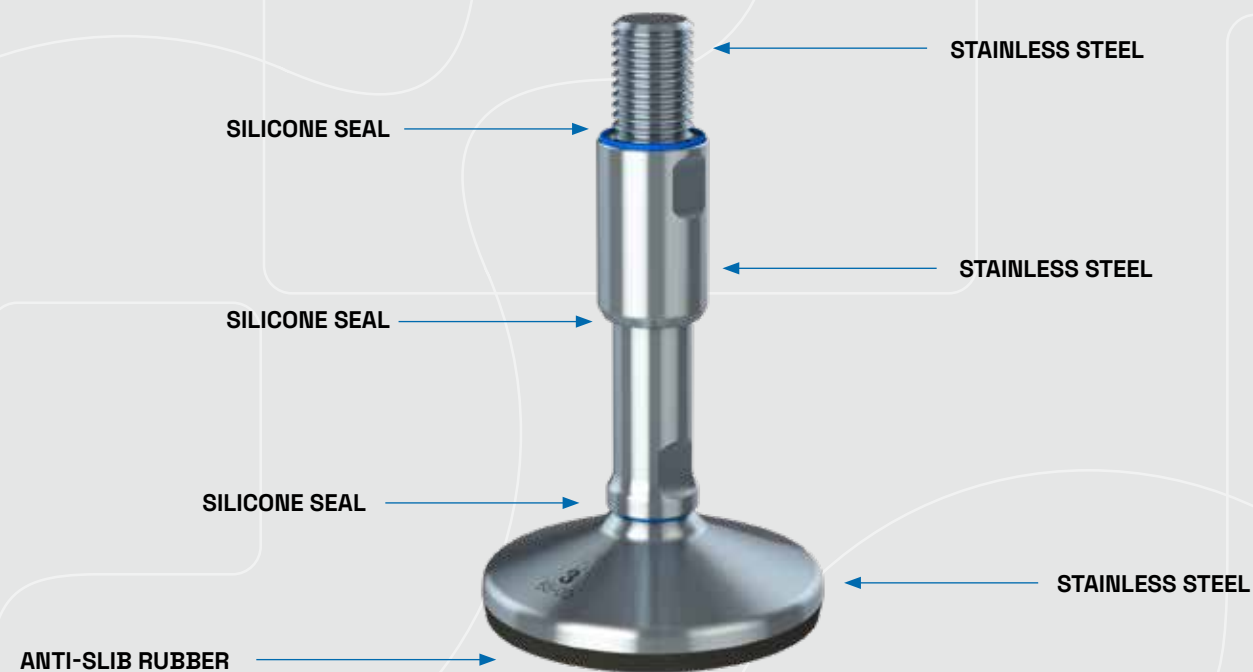


NGI fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentively follow the revisions and amendments to these directives and will design our products accordingly. This ensures that products from NGI are always in compliance with currently valid requirements.

Our product category is not covered by the scope of application of the EC directive for machinery. For this reason, they cannot be furnished with the CE marking in accordance with the EC directive for machinery.

NGI A/S, Virkelyst 3-7, 9400 Nørresundby, Denmark, hereby declares that the design is according to 3-A, USDA & EHEDG guidelines and regulations specified in the following.

Furthermore, we declare that the listed materials applied in our products comply with the demands for materials used within the food and pharmaceutical industries.



Declaration of conformity levelling feet

- XH, XHT, XHG, XHJ, XHFV, XHFVT, XHFVG, XHFVJ

Materials, Surface Roughness, Fabrication and Geometry

Metallic surfaces are constructed from AISI 304 grade stainless steel and are corrosion resistant under the specified conditions of use including those of cleaning. The elastomeric components are constructed from FDA approved NBR and TPE Santoprene® rubber material. The sealing washers are constructed from Aramid fiber material. All materials used are considered non-toxic and are non-absorbent.

All exposed metallic surfaces are finished to maximum surface roughness values of 1.6 µm Ra. All elastomeric components and sealing washers are left as moulded with no hand trimming and all surfaces are considered smooth enough to ensure superior cleanability.

There are no exposed dissimilar metal-to-metal contact areas in the construction where galvanic corrosion could occur.

Hygienic seals permit access for easy cleaning with no inaccessible pockets or crevices.

There is no risk of exposed threads and no unsealed metal-to-metal joints in the finished construction.

All exposed surfaces have a smooth finish so that soil may be cleaned from the surface using manual cleaning techniques and be free of pits, folds, cracks, crevices, and other imperfections in the final fabricated form.

Drainability and Installation

The levelling feet are designed to be self-draining and contain no horizontal ledges. Comprehensive instructions are provided containing detailed information to ensure compliance with the 3-A, USDA & EHEDG design criteria.

The 3-A Sanitary Standard 88-00 requires that when leveling feet are properly mounted on the equipment, they shall provide a minimum clearance between the lowest part of the equipment and the floor of no less than 4.0 inches (102 mm) if the equipment outlines an area in which no point is more than 12.5 inches (318 mm) from its' nearest edge. If the equipment outlines an area in which any point is more than 12.5 inches (318 mm) from its' nearest edge the clearance shall be at least 6 inches (152 mm).

The EHEDG guideline recommends a minimum clearance between the equipment and the floor or wall of 300 mm for easy cleaning and inspection.

When fasteners are required only dome nuts must be used. The exposed interfaces shall be sealed with sealing washers and there must be no threads exposed in the installed configuration of the levelling feet.

Declaration of conformity levelling feet

- XH, XHT, XHG, XHJ, XHFV, XHFVT, XHFVG, XHFVJ



Maintenance and Cleaning

Foot bases can be sealed to the floor if required. And the installation instructions make recommendations not to span over floor imperfections or grout lines without the addition of proprietary sealing compounds.

Maximum torque values are specified as appropriate on fastening arrangements to avoid over-compression of sealing washers and gaskets.

Maintenance instructions are clearly defined and prohibit the use of non-genuine replacement parts.

Cleaning instructions describe typical cleaning procedures with recommended maximum temperatures/pressures and stipulate the use of non-abrasive cleaning aids.

The design does not contain dead spaces and avoid accumulation of soil, microorganism's insects and other vermin in areas which cannot be easily cleaned.

Adhesives, Lubricants, Insulation and Signal Transfer Liquids

Sealing and thread locking compounds used in the construction are non-toxic in the cured state.

No lubricants, insulation material or signal transfer liquids are used in the construction.

Standards and directives

EN 1672-2:2005 Food machinery / General design principles/Part 2: Hygiene requirements.

EN ISO 14 159 2004 Safety of machinery – Hygiene requirements for the design of machinery.

3-A sanitary standard for machine levelling feet and supports.

USDA Guidelines for the sanitary design and fabrication of dairy processing equipment June 2001.

EU regulations

852/2004 on the hygiene of foodstuffs.

853/2004 specific hygiene rules for food of animal origin.

854/2004 specific rules for the organization of official controls on products of animal origin intended for human consumption.

1935/2004 on materials and articles intended to come into contact with food.

Declaration of conformity levelling feet

- XH, XHT, XHG, XHJ, XHFV, XHFVT, XHFVG, XHFVJ



The declaration of materials concerns the following Applications

Application:

Material type:

Compliance:

Steel components, e.g. spindle, sleeve and cover for foot

Stainless steel, AISI 304/A2 (X5CrNi18-10), Euro norm 1.4301.
By request: Stainless steel, AISI 316/A4 (X 5 CrNiMo 17 12 2), Euronorm 1.4401
EN 10204 Type 2.2. NGI A/S states that the product is in compliance with the order with indication of results of nonspecific inspection.
NGI A/S has got EN 10204 type 3.1 inspection certificates on all material used in the products but not specified for each foot.

In the directive 94/9/EC, Equipment for potentially explosive atmospheres, also known as the ATEX directive, equipment without its own potential source of ignition are not covered, nor shall be marked according to the directive. However, NGI levelling feet are suitable for use in all ATEX zones.

Application:

Material type:

Color:

Hardness:

Range of temperature:

Foot base for NGI A/S's hygienic machine feet

NBR (NNF-75)

Black & blue

72 ± 3 Shore A DIN 53 505

Min -35°C to Max +110°C

Compliance:

REACH:

In accordance with regulation EC 1907/2006.
Do not contain any substances above 0.1% (w/w) from:
The Candidate List of Substances of Very High Concern (16.01.2020).
Annex XVII (19-11-2019)

RoHS 2 & RoHS 3

In accordance with the directive 2011/65/EC and 2015/863/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.

ADI free:

Does not contain any substances originating from humans or animals.

Bisphenols:

Does not contain Bisphenols as described in 1895/2005/EEC. Nor BPA, BADGA, BFDGE or NOGE.

ODS:

Does not contain ozone depleting substances. In accordance with the Regulation EC 1005/2009 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 16 SEPTEMBER 2009 and Regulation EC 2037/2000 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 29 JUNE 2000.

Conflict Materials:

In accordance with US Law: "Dodd Frank Wall Street Reform & Consumer Protection Act", sec. 1502, of 21.07.2010.

GMP:

Good manufacturing process in accordance with 2023/2006 EC.

Hazardous materials:

Does not contain any hazardous substances as described in the Hong Kong International Convention for the Safe and Environmental. Sound Recycling of ships, 2009.

Phthalates:

Does not contain phthalates.
FDA: Guideline 21 CFR 177.2600

Application:

Material type:

Hardness:

Color:

Range of temperature:

Storage:

Compliance:

Sealing ring between steel components for NGI's machine feet.

Silicon rubber

60 Shore A

RAL 5010 (blue)

Min -60°C to Max +200°C

According to ISO 2230

FDA: Guideline 21 CFR 177.2600

RoHS 2: In accordance with the Directive 2011/65/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.

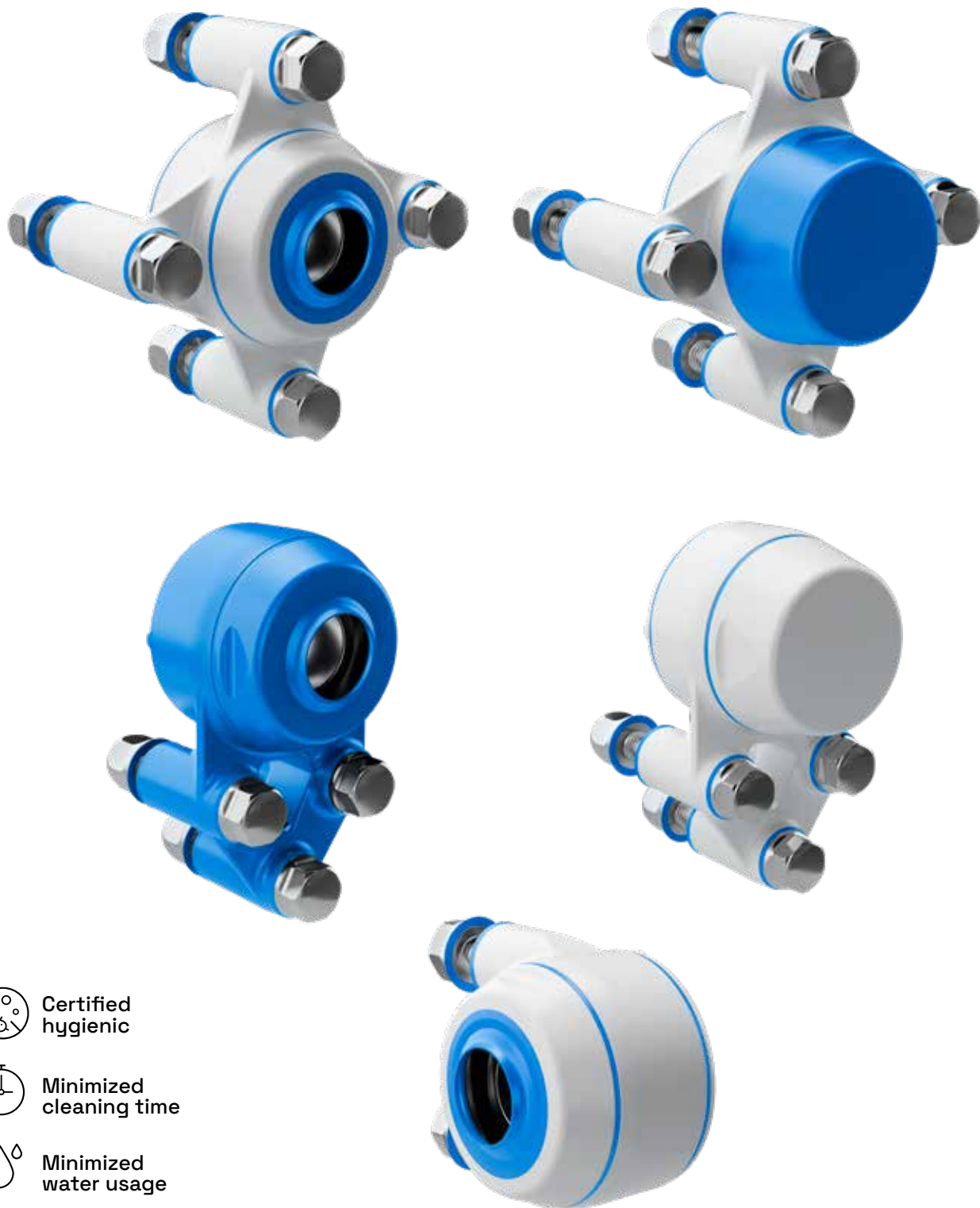
GMP: Good manufacturing process in accordance with 2023/2006 EC.

Certified hygienic Bearing houses



The only patented bearing house in the world
hygienically designed and certified by
EHEDG, 3-A and USDA standards with extreme easy
access for cleaning from all angles.

The bearing house provide a patented waterproof sealing that
allows 3 degrees misalignment and can be equipped with a
high-performance ceramic bearing lubricated for life with 4-8
times extended lifetime



-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

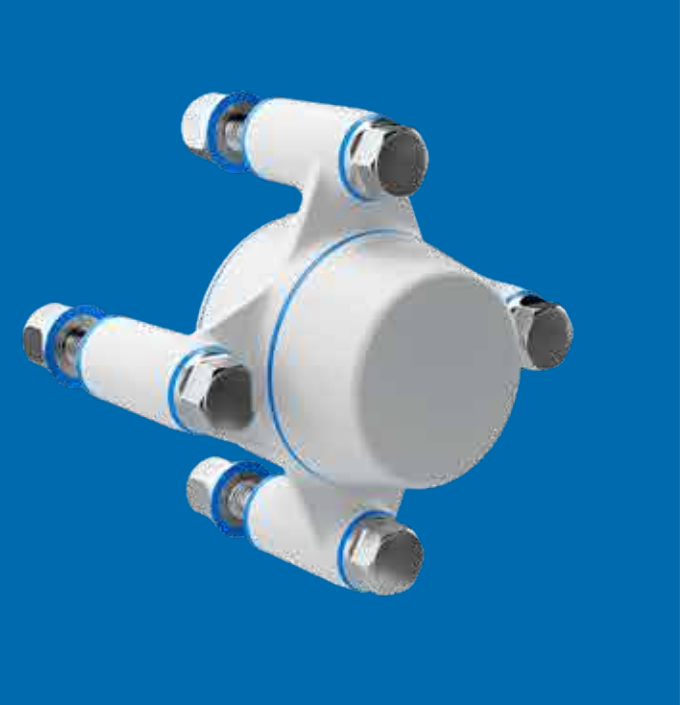
-  X-Ray detectable
-  Innovation by NGI
-  Reduce costs
-  Enhanced food safety
-  Plug & play installation
-  Reduce energy

Anti-static
XB series
- visit our
website

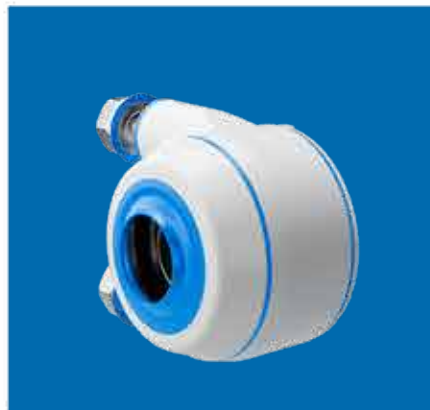
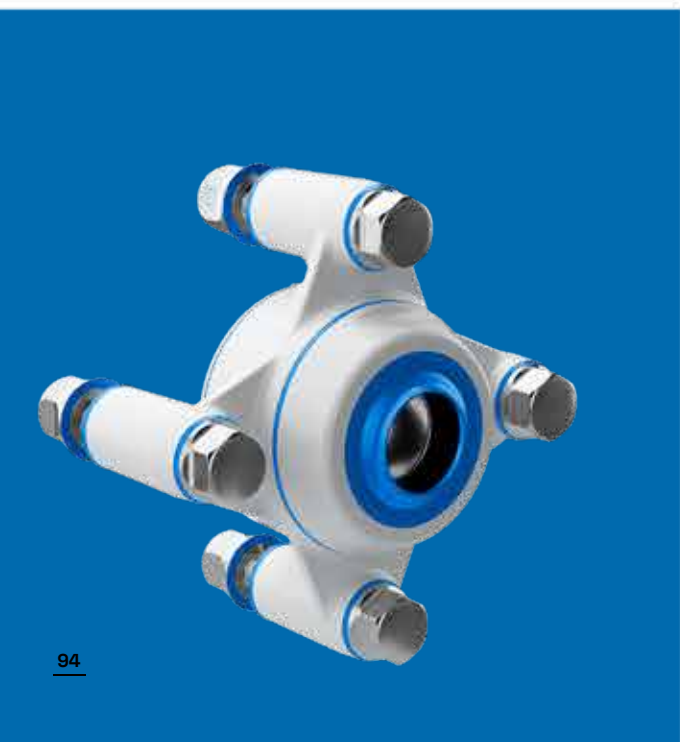
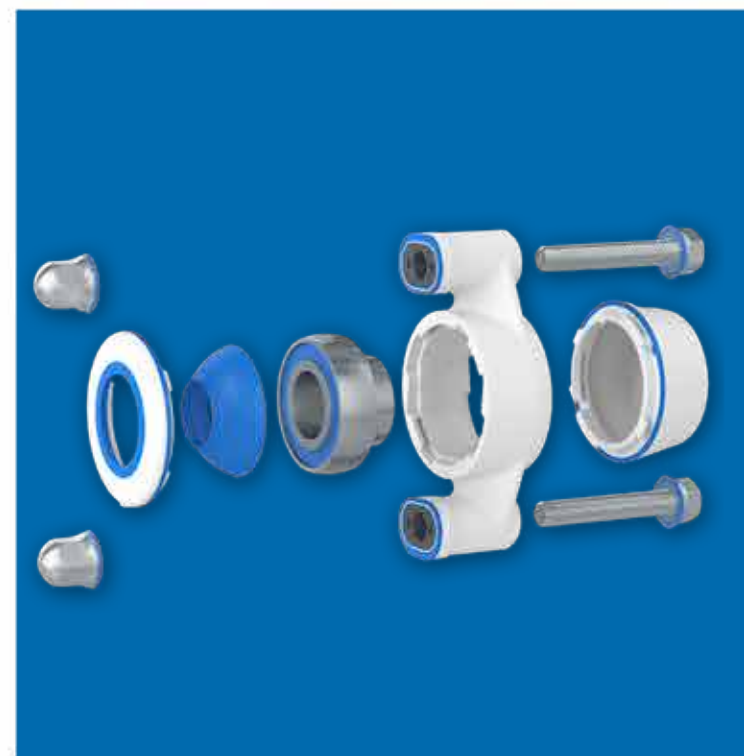


reddot winner 2022





CERTIFIED HYGIENIC
**BEARING
HOUSES**



Quote

“We are in the food processing industry where hygiene and sanitation matter most and the high-quality parts from NGI really point towards that providing our customers the possibility of an easy-clean, low maintenance, and high-durability components.

All qualities which customers in the food processing industry are looking for.”

Ulrich Krümpelmann
International Sales Manager,
Alco-food-machines GmbH & Co. KG,
Germany

Gain a competitive advantages with hygienic components

The hygienic standard of your production equipment is a crucial competitive parameter when it comes to winning an order or being authorized as a new supplier.

Scan the below QR code and watch a video from Alco-food-machines, Mr. Ulrich Krümpelmann, who explains how a component on a food processing machine can have influence on your competitiveness.





Chose NGI hygienic components due to the many features

We have interviewed one of our Italian customers in order to learn more about how our customers experience today's challenges in regard to food safety and higher hygiene. MORC2 is a machine builder and constructs and manufactures conveyors.

You can see the whole testimonial from MORC2 on our website by scanning the QR code below.



Quote

“The reasons why we chose NGI bearing houses are mainly their characteristics such as the good quality of the materials, the strength and stability. Another important feature is that they are lubrication free, which is crucial for minimizing the risk of contaminating the machinery.

NGI proves to be a reliable partner in price and performance of their products”.

Lucia Ulinici
MORC2 s.r.l.
Italy

The investment pays off

Below is a conservative example of the Return on Investment of using NGI lubrication-free bearing houses compared to lubricated bearing houses 20 EUR surcharge per bearing house for 400 units and lubrication every two weeks.

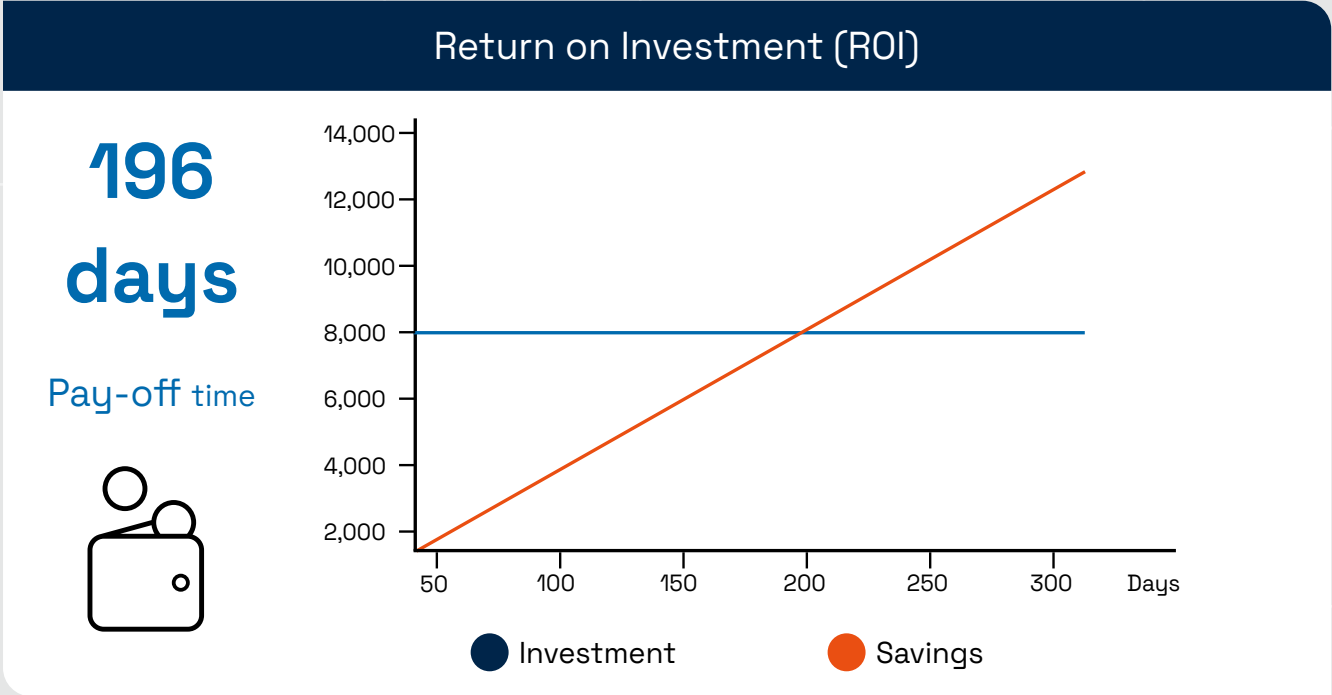
Please note that the surcharge will rarely be 20 EUR, and most end-users lubricate more frequently than every two weeks.

The investment	
Surcharge per bearing house [EUR]	20
Number of bearing houses [quantity]	400
Total extra investment (competitor vs. NGI) [EUR]	8,000
The cost savings related to lubrication	
Amount of grease per lubrication [kg]	0,015
Number of lubrications per year [quantity]	26
Cost of grease per kg [EUR]	40
Total costs for grease per year [EUR]	6,240
Cost per man hour [EUR]	25
Time for each lubrication [Minutes]	2
Cost of manpower per year [EUR]	8,667
Total lubrication costs [EUR]	14,907

The savings	
Total investment (competitor vs. NGI) [EUR]	8,000
Savings of lubrication costs [EUR]	14,907
Profit after 12 months [EUR]	6,907
Pay-back after 12 months [%]	186%
Return on Investment [time]	196 days

186% ROI
after one
year

Hygiene will save your customer money



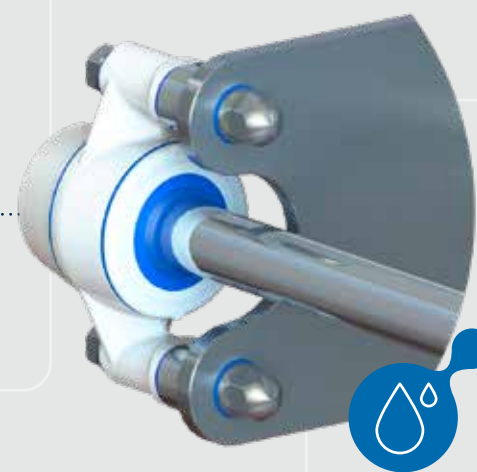
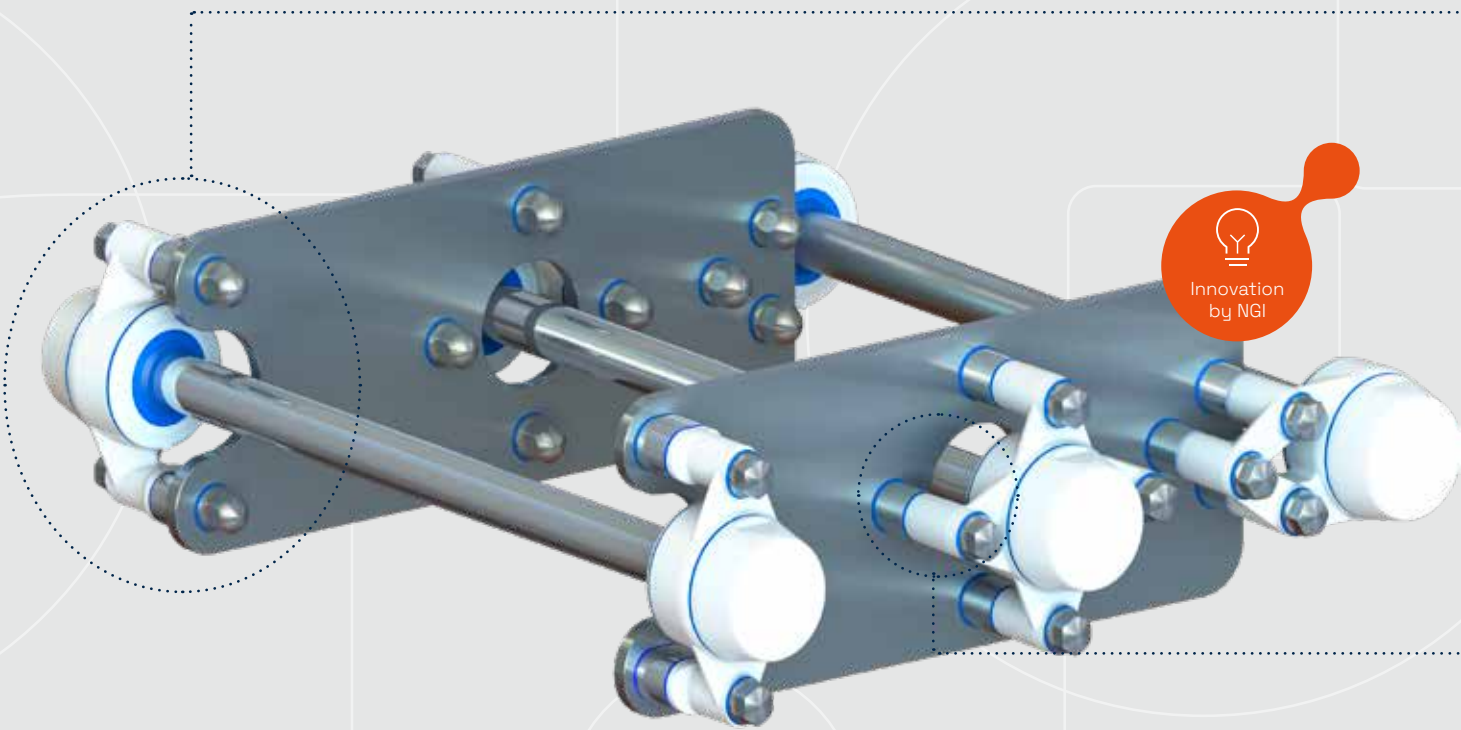
Sustainability and reduced risk of bearing failure



- 2/3 of bearing failures are caused by lack of or faulty lubrication. Since the NGI bearings are lubrication-free, the risk of failure is considerably reduced.
- The hygienic design contributes to reducing the emission of water and detergents in the cleaning process thus reducing the environmental impact.
- The lubrication-free bearings eliminate the emission of grease spreading from the bearing to both wastewater and to other parts of the production environment.

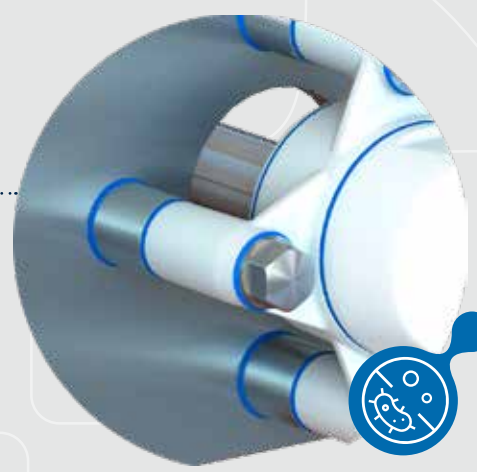
Certified hygienic Bearing houses with spacers

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage



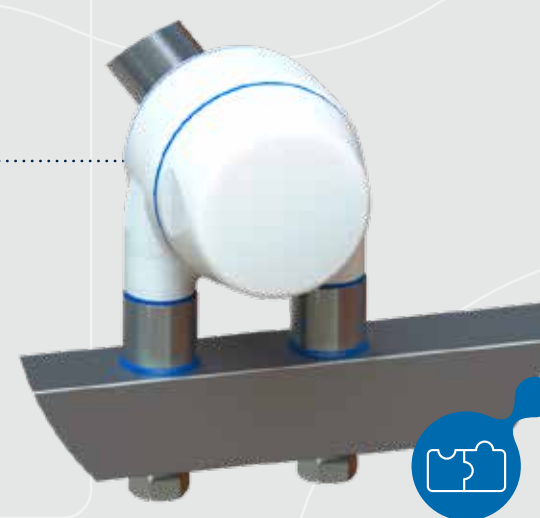
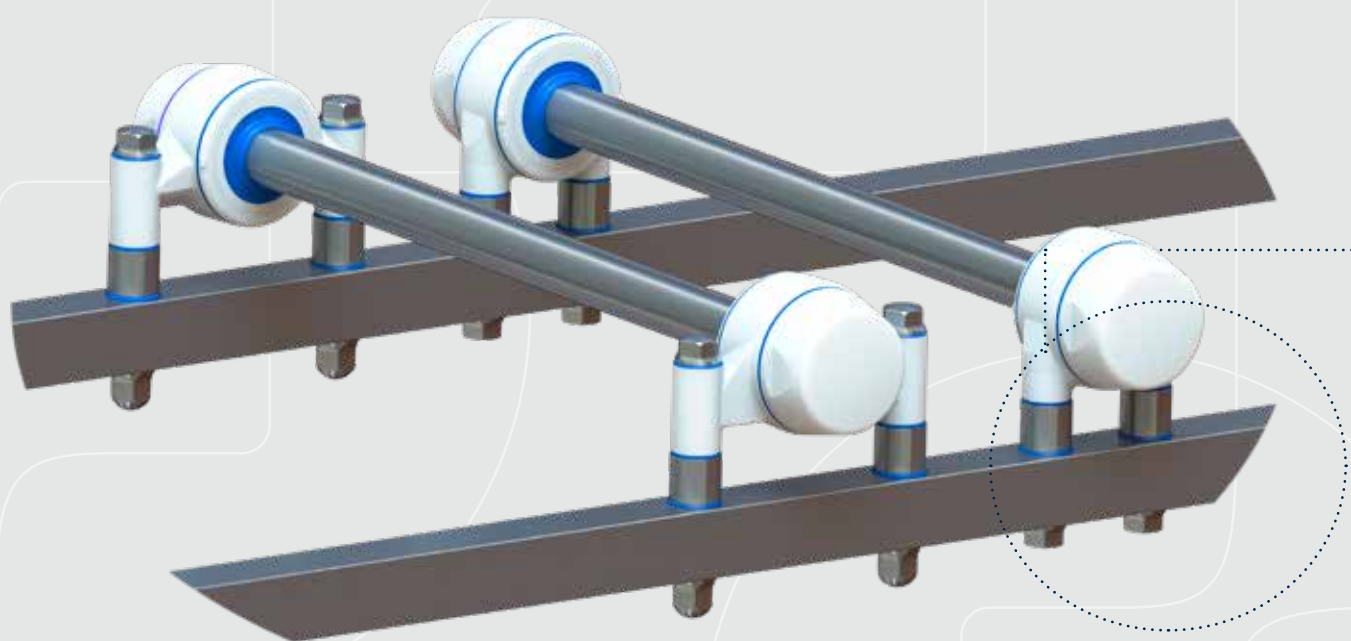
Easy cleaning from all angles

NGI has created a bearing house that is extremely easy to clean from all angles as water can easily reach all surfaces. All transitions and connections between materials are hygienically sealed with blue sealings.



Hygienic spacers

A high focus on hygienic design ensures that the bearing house can be cleaned behind and around the shaft and furthermore, NGI offers hygienic spacers to increase the distance to machines and equipment to over an inch as recommended by USDA.



Installation

Installation is easy and you will be able to use your usual procedure, however, as the bearing can be turned inside the house and covers are replaceable, the bearing house from NGI is far more flexible and can be mounted in more ways than traditional bearing houses.

Certified hygienic Bearing houses

NGI is the only manufacturer in the world of certified hygienic bearing houses designed to comply and certified by EHEDG, 3-A and USDA standards. The product group consists of five different types of bearing houses fitted with ceramic or as standard stainless steel bearings. The bearing houses are designed according to ISO3228_2013 and fit insert bearings that meet ISO9628_2006. This also applies to outside dimensions and it is therefore, a perfect hygienic substitution for an unhygienic solution.

Choosing bearing houses from NGI optimized with ceramic spherical ball bearings you will be able to reach optimal quality, robustness and stability. The bearing houses are lubrication free which minimizes maintenance and the need for grease, thereby, minimizing the risk of contaminating the product. Our bearing houses are IP69K-certified.

Product Group Features

- Easy access for cleaning from all angles
- Flexible mounting - can accomodate initial misalignment
- Fitted with stainless steel bearing or ceramic bearing.
- Tested and conforms to ISO9628_2006 & ISO3228_2013
- Can be supplied with hygienic bolts and nuts as standard. More sizes available upon request.
- Can accomodate temperatures -20°C to +110°C depending on insert bearing
- Unique patented seal system, waterproof at more than 3° misalignment
- Produced in sturdy grilamid with co-moulded FDA-approved TPS seals
- The housing is able to withstand the same dynamic and static radial load as insert bearings
- Housing made from grilamid, a high strength High-performance PA12 and optimized for detection in the food and pharmaceutical industries
- Suitable for heavier or alternating axial load depending on the way it is locked onto the shaft
- For further information on load capacities look at bearing data sheet or contact NGI



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XB2FC

Special Features

- 2-hole flange bearing house
- Mounted parallel to shaft direction
- Shaft diameter 20 mm - 40 mm
- Can be supplied with certified hygienic nuts and bolts for maximum hygienic safety

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XBPBC

Special Features

- Pillow block bearing house
- Mounted perpendicularly to shaft direction
- Shaft diameter 25 mm - 30 mm
- Can be supplied with certified hygienic nuts and bolts for maximum hygienic safety

112

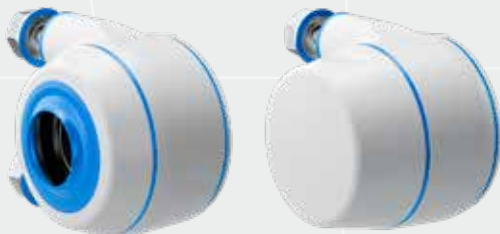


XB3FC

Special Features

- 3-hole flange bearing house
- Mounted parallel to shaft direction
- Shaft diameter 20 mm - 30 mm
- Can be supplied with certified hygienic nuts and bolts for maximum hygienic safety

108

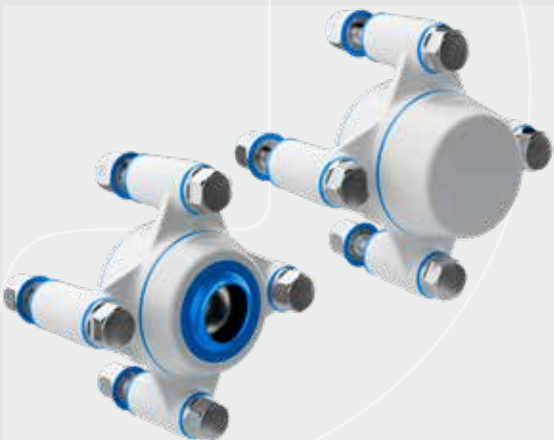


XBTBC

Special Features

- Tapped base bearing house
- Mounted perpendicularly to shaft direction
- Shaft diameter 25 mm - 30 mm
- Can be supplied with certified hygienic nuts and bolts for maximum hygienic safety

114



XB4FC

Special Features

- 4-hole flange bearing house
- Mounted parallel to shaft direction
- Shaft diameter 20 mm - 40 mm
- Can be supplied with certified hygienic nuts and bolts for maximum hygienic safety

110



Declaration of conformity

This declaration of conformity lists all the directives and standards that NGI adheres to. This ensures that products from NGI are always in compliance with currently valid requirements.

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Certified hygienic Bearing houses - XB2FC

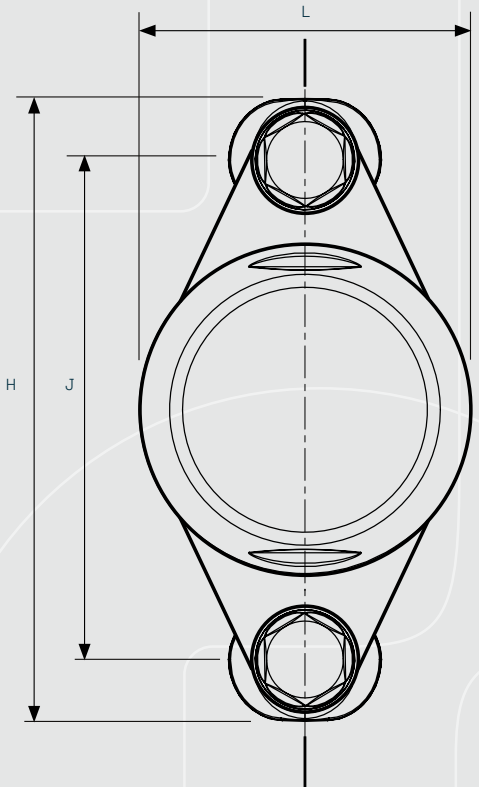
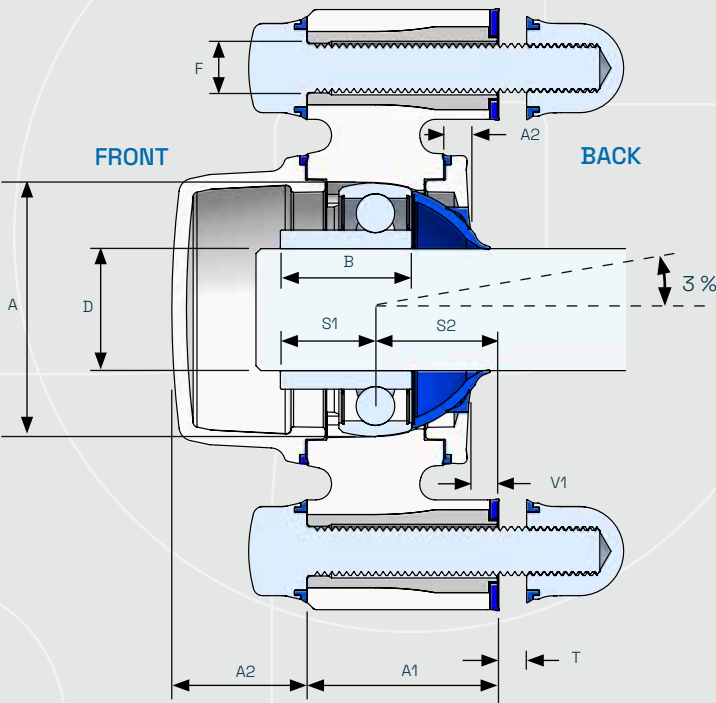
- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XB2FC 2-hole flange bearing house is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.

The XB2FC bearing house is mounted parallel to shaft direction

The XB2FC is designed to provide easy access for cleaning from all angles. We recommend that you choose a bearing house with NGI's hygienic nuts and bolts for maximum hygienic safety.

The XB2FC meets the requirements of EC 1935/2004, EC 10/2011,EC 2023/2006 and FDA.



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Certified hygienic Bearing houses - XB2FC



Bearing house



Bearing type



Cover



Nut and Bolt



Color bearing house

Product code	Bearing house	Bearing type	Front cover	Back cover	Bolt (optional)
Example	XB2FC52-	SSB2500-	CL(W)-	OS(W)-	BXHM1050

Size A [mm]	Shaft diameter D [mm]	V1 [mm]	J [mm]	F [mm]	H [mm]	I [mm]	A1 [mm]	S2 [mm]	Item code
47	20	7,5	90	10,2	114,2	57,8	36	24	XB2FC47
52	25	6,4	99	10,2	123	65,8	39	25	XB2FC52
62	30	6,6	116,5	10,2	144,9	79,7	41,5	27	XB2FC62
72	35	7,1	130	12,2	160,4	91,7	46,5	30	XB2FC72
80	40	7,4	143,5	12,2	175,9	101,6	50	32	XB2FC80

Bearing ball material	Shaft diameter D [mm]	Width B [mm]	Distance S1 [mm]	Maximum speed sealing* [R/MIN.]	Static load rating Co [N]	Dynamic load rating C [N]	Item code
Stainless steel w. screws	20	25	18	1875	5040	10370	SSB2000
Stainless steel w. screws	25	27	19,5	1500	5970	11310	SSB2500
Stainless steel w. screws	30	30	22	1250	8640	15730	SSB3000
Stainless steel w. screws	35	34	24,5	1070	11680	20830	SSB3500
Stainless steel w. screws	40	37	26,5	940	13600	23550	SSB4000

The above bearing is the most common bearing - stainless steel with screws. We have, however, four types of bearings - stainless steel or ceramic hybrid with screws or with locking collar. Find our complete assortment of bearings on page 28.

Size A [mm]	Shaft diameter D [mm]	OS [Open small]	om [Open Medium]	CM [Closed Medium]	CL [Closed Large]	Item code
		A2	A2	A2	A2	Color code - See below
47	20	4,5	14,6	16,7	-	
52	25	4,6	14,6	17,2	27,5	
62	30	5,9	20,4	23,3	35,7	
72	35	6,4	19,5	23,2	-	
80	40	6,6	22,3	26,2	-	



Our bearing houses can be supplied with certified hygienic bolts and nuts. More bolt lengths are available. Find the relevant assortment of bolts and nuts for bearing houses on page 29.

Color	Color code
WHITE	(W)
BLUE	(B)
BLACK	(S)



* The hygienic bearing house is typically used on conveyors rotating at relatively low speeds (below 2000 rpm), the housing creates a hygienic environment for the bearing, and it would be optimal to mount it on an AISI hard surface between 0.8 µm and 1.6 Ram Ra with a tolerance not exceeding h9, preferably lower.

Misalignment angle = +/-3 °

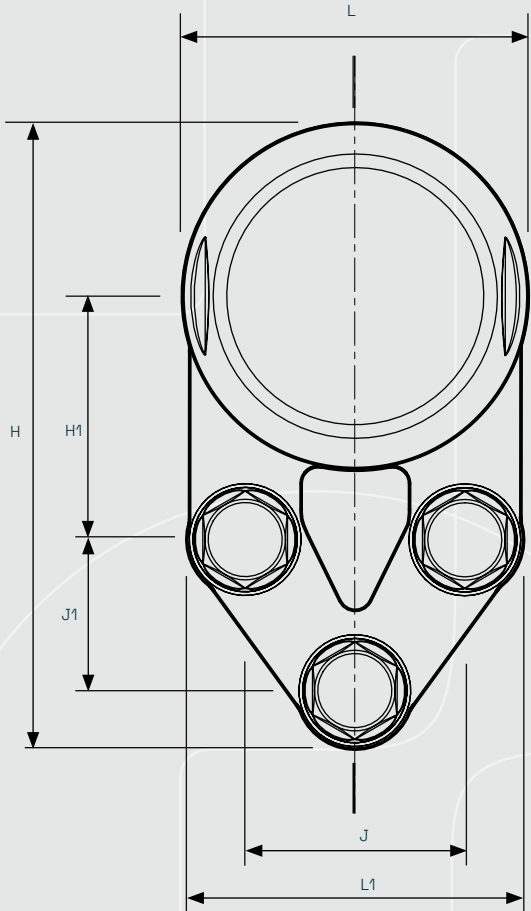
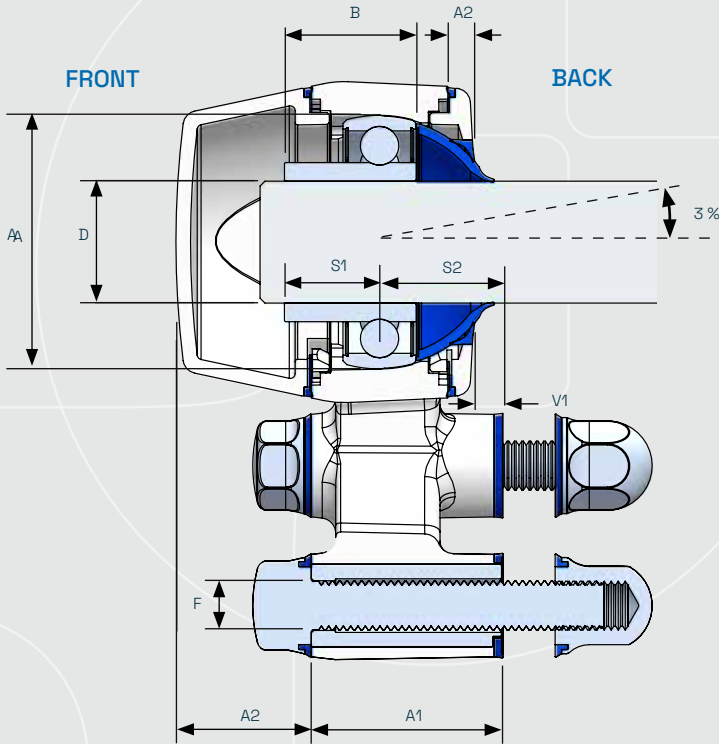
Certified hygienic Bearing houses - XB3FC

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XB3FC 3-hole flange bearing house is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements. The XB3FC bearing house is mounted parallel to shaft direction.

The XB3FC is designed to provide easy access for cleaning from all angles. We recommend that you choose a bearing house with NGI's hygienic nuts and bolts for maximum hygienic safety.

The XB3FC meets the requirements of EC 1935/2004, EC 10/2011, EC 2023/2006 and FDA.



Certified hygienic Bearing houses - XB3FC



Bearing house



Bearing type



Cover



Nut and Bolt



Color bearing house

Product code	Bearing house	Bearing type	Front cover	Back cover	Bolt (optional)
Example	XB3FC52-	SSB2500-CL(W)-	OS(W)-		BXHM1050

Size A [mm]	Shaft diameter D [mm]	V1 [mm]	J [mm]	J1 [mm]	F [mm]	H [mm]	H1 [mm]	I [mm]	I1 [mm]	A1 [mm]	S2 [mm]	Item code
47	20	7,5	38	22	10,2	104,8	43	57,7	60	36	24	XB3FC47
52	25	6,4	41,5	28,5	10,2	118,3	46	65,6	63,5	39	25	XB3FC52
62	30	6,6	47,5	32	10,2	137,3	52,5	79,6	72,3	41,5	27	XB3FC62
72	35	-	-	-	-	-	-	-	-	-	-	XB3FC72
80	40	-	-	-	-	-	-	-	-	-	-	XB3FC80

Bearing ball material	Shaft diameter D [mm]	Width B [mm]	Distance S1 [mm]	Maximum speed sealing* [R/MIN.]	Static load rating Co [N]	Dynamic load rating C [N]	Item code
Stainless steel w. screws	20	25	18	1875	5040	10370	SSB2000
Stainless steel w. screws	25	27	19,5	1500	5970	11310	SSB2500
Stainless steel w. screws	30	30	22	1250	8640	15730	SSB3000
Stainless steel w. screws	-	-	-	-	-	-	SSB3500
Stainless steel w. screws	-	-	-	-	-	-	SSB4000

The above bearing is the most common bearing - stainless steel with screws. We have, however, four types of bearings - stainless steel or ceramic hybrid with screws or with locking collar. Find our complete assortment of bearings on page 28.

Size A [mm]	Shaft diameter D [mm]	OS [Open small]	om [Open Medium]	CM [Closed Medium]	CL [Closed Large]	Item code
		A2	A2	A2	A2	Color code - See below
47	20	4,5	14,6	16,7	-	
52	25	4,6	14,6	17,2	27,5	
62	30	5,9	20,4	23,3	35,7	
72	35	6,4	19,5	23,2	-	
80	40	6,6	22,3	26,2	-	



Our bearing houses can be supplied with certified hygienic bolts and nuts. More bolt lengths are available. Find the relevant assortment of bolts and nuts for bearing houses on page 29.

Color	Color code
WHITE	(W)
BLUE	(B)
BLACK	(S)



* The hygienic bearing house is typically used on conveyors rotating at relatively low speeds (below 2000 rpm), the housing creates a hygienic environment for the bearing, and it would be optimal to mount it on an AISI hard surface between 0.8 µm and 1.6 µm Ra with a tolerance not exceeding h9, preferably lower. Misalignment angle = +/-3°

Certified hygienic Bearing houses - XB4FC

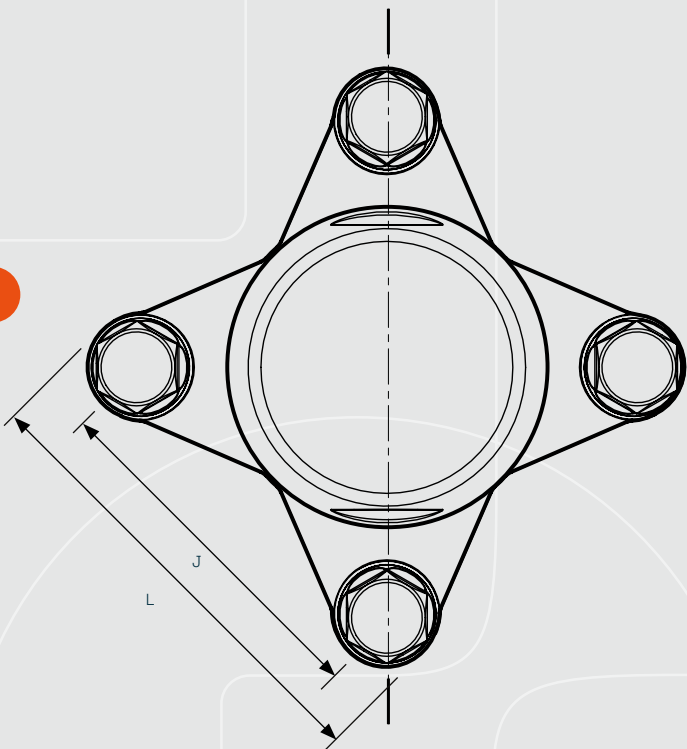
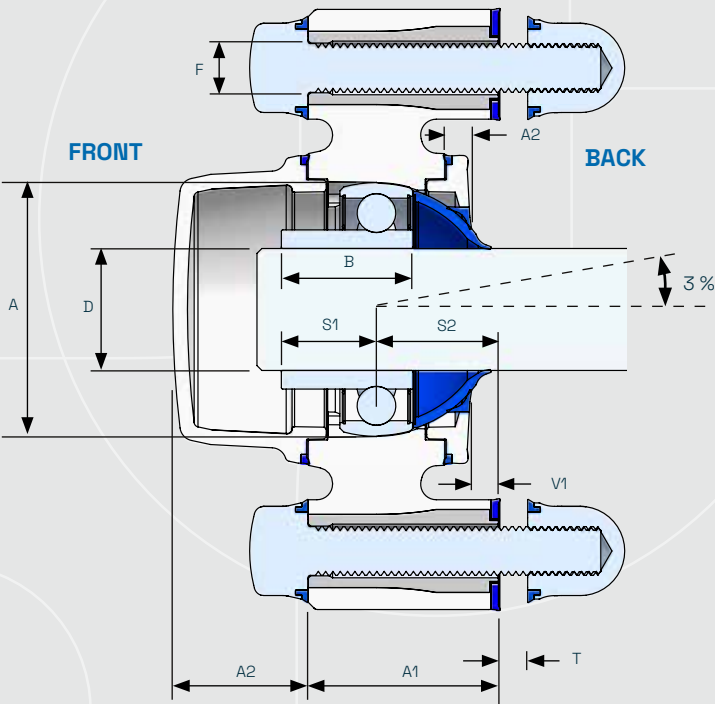
- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XB4FC 4-hole flange bearing house is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.

The XB4FC bearing house is mounted parallel to shaft direction.

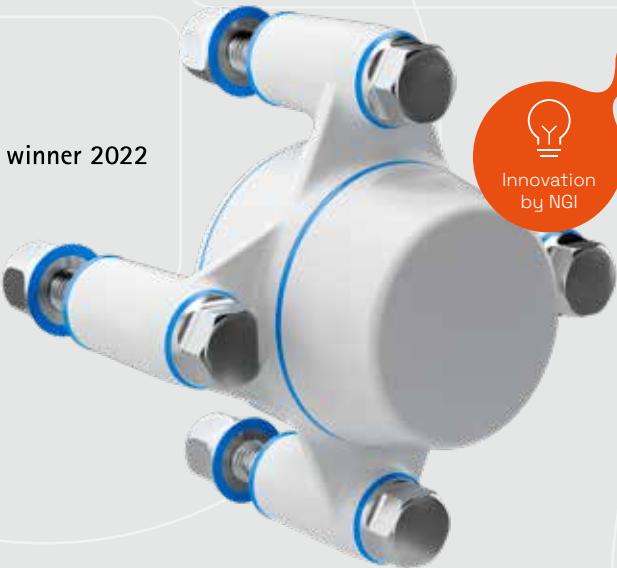
The XB4FC is designed to provide easy access for cleaning from all angles. We recommend that you choose a bearing house with NGI's hygienic nuts and bolts for maximum hygienic safety.

The XB4FC meets the requirements of EC 1935/2004, EC 10/2011, EC 2023/2006 and FDA.



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Innovation by NGI



Certified hygienic Bearing houses - XB4FC



Bearing house



Bearing type



Cover



Nut and Bolt



Color bearing house



Product code	Bearing house	Bearing type	Front cover	Back cover	Bolt (optional)
Example	XB4FC52-	SSB2500-CL(W)-	OS(W)-		BXHM1050

Size A [mm]	Shaft diameter d [mm]	V1 [mm]	J [mm]	F [mm]	L [mm]	A1 [mm]	S2 [mm]	Item code
47	20	7,5	63,5	10,2	84,7	36	24	XB4FC47
52	25	6,4	70	10,2	92	39	25	XB4FC52
62	30	6,6	82,5	10,2	109,1	41,5	27	XB4FC62
72	35	7,1	92	12,2	119,2	46,5	30	XB4FC72
80	40	7,4	101,5	12,2	130,8	50	32	XB4FC80

Bearing ball material	Shaft diameter D [mm]	Width B [mm]	Distance S1 [mm]	Maximum speed sealing* [R/MIN.]	Static load rating Co [N]	Dynamic load rating C [N]	Item code
Stainless steel w. screws	20	25	18	1875	5040	10370	SSB2000
Stainless steel w. screws	25	27	19,5	1500	5970	11310	SSB2500
Stainless steel w. screws	30	30	22	1250	8640	15730	SSB3000
Stainless steel w. screws	35	34	24,5	1070	11680	20830	SSB3500
Stainless steel w. screws	40	37	26,5	940	13600	23550	SSB4000

The above bearing is the most common bearing - stainless steel with screws. We have, however, four types of bearings - stainless steel or ceramic hybrid with screws or with locking collar. Find our complete assortment of bearings on page 28.

Size A [mm]	Shaft diameter D [mm]	OS [Open small]	om [Open Medium]	CM [Closed Medium]	CL [Closed Large]	Item code
		A2	A2	A2	A2	Color code - See below
47	20	4,5	14,6	16,7	-	
52	25	4,6	14,6	17,2	27,5	
62	30	5,9	20,4	23,3	35,7	
72	35	6,4	19,5	23,2	-	
80	40	6,6	22,3	26,2	-	



Our bearing houses can be supplied with certified hygienic bolts and nuts. More bolt lengths are available. Find the relevant assortment of bolts and nuts for bearing houses on page 29.

Color	Color code
WHITE	(W)
BLUE	(B)
BLACK	(S)

* The hygienic bearing house is typically used on conveyors rotating at relatively low speeds (below 2000 rpm), the housing creates a hygienic environment for the bearing, and it would be optimal to mount it on an AISI hard surface between 0.8 µm and 1.6 Ram Ra with a tolerance not exceeding h9, preferably lower.

Misalignment angle = +/-3 °

Certified hygienic Bearing houses - XBPBC

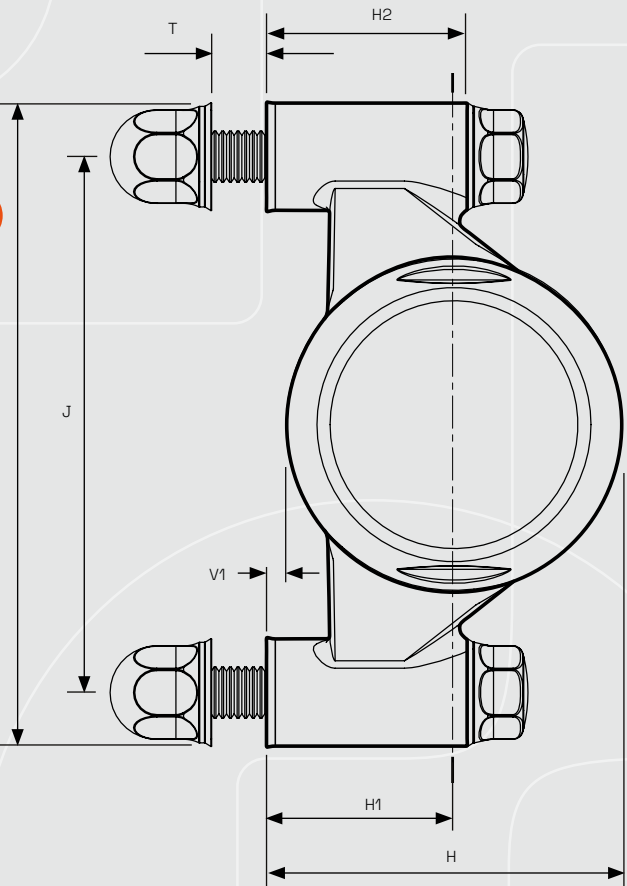
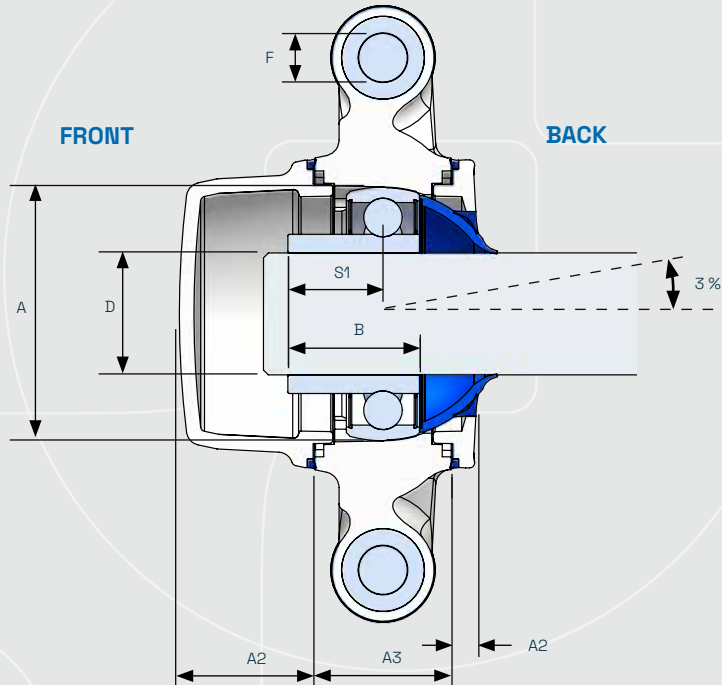
-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The design and patent protected XBPBC 2-hole block full bearing house is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.

The XBPBC bearing house is mounted perpendicularly to shaft direction

The XBPBC is designed to provide easy access for cleaning from all angles. We recommend that you choose a bearing house with NGI's hygienic nuts and bolts for maximum hygienic safety.

The XBPBC meets the requirements of EC 1935/2004, EC 10/2011, EC 2023/2006 and FDA.



Innovation
by NGI



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Certified hygienic Bearing houses - XBPBC



Bearing house



Bearing type



Cover



Nut and Bolt



Color bearing house

Product code	Bearing house	Bearing type	Front cover	Back cover	Bolt (optional)
Example	XBPBC25-	SSB2500-CL(W)-	OS(W)-		BXHM1060

Size A [mm]	Shaft diameter d [mm]	V1 [mm]	J [mm]	F [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	A3 [mm]	Item code
47	20	-	-	-	-	-	-	-	-	XBPBC47
52	25	3,6	105	10,2	69,4	36,5	39	126	28	XBPBC52
62	30	3	121	10,2	82,8	42,9	41,5	146	29	XBPBC62
72	35	-	-	-	-	-	-	-	-	XBPBC72
80	40	-	-	-	-	-	-	-	-	XBPBC80

Bearing ball material	Shaft diameter D [mm]	Width B [mm]	Distance S1 [mm]	Maximum speed sealing* [R/MIN.]	Static load rating Co [N]	Dynamic load rating C [N]	Item code
Stainless steel w. screws	-	-	-	-	-	-	SSB2000
Stainless steel w. screws	25	27	19,5	1500	5970	11310	SSB2500
Stainless steel w. screws	30	30	22	1250	8640	15730	SSB3000
Stainless steel w. screws	-	-	-	-	-	-	SSB3500
Stainless steel w. screws	-	-	-	-	-	-	SSB4000

The above bearing is the most common bearing - stainless steel with screws. We have, however, four types of bearings - stainless steel or ceramic hybrid with screws or with locking collar. Find our complete assortment of bearings on page 28.

Size A [mm]	Shaft diameter D [mm]	OS [Open small]	om [Open Medium]	CM [Closed Medium]	CL [Closed Large]	Item code
		A2	A2	A2	A2	Color code - See below
47	20	4,5	14,6	16,7	-	
52	25	4,6	14,6	17,2	27,5	
62	30	5,9	20,4	23,3	35,7	
72	35	6,4	19,5	23,2	-	
80	40	6,6	22,3	26,2	-	



Our bearing houses can be supplied with certified hygienic bolts and nuts. More bolt lengths are available. Find the relevant assortment of bolts and nuts for bearing houses on page 29.

Color	Color code
WHITE	(W)
BLUE	(B)
BLACK	(S)

* The hygienic bearing house is typically used on conveyors rotating at relatively low speeds (below 2000 rpm), the housing creates a hygienic environment for the bearing, and it would be optimal to mount it on an AISI hard surface between 0.8 µm and 1.6 Ram Ra with a tolerance not exceeding h9, preferably lower.

Misalignment angle = +/-3 °

Certified hygienic Bearing houses - XBTBC

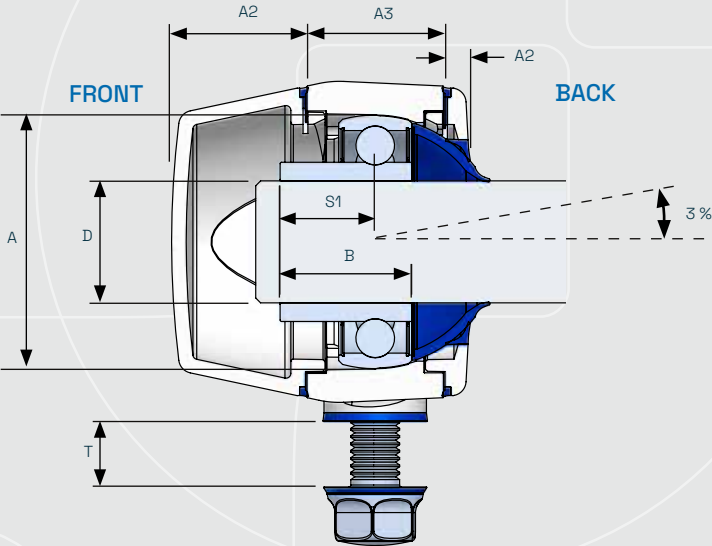
- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XBTBC block short-base bearing house is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.

The XBTBC bearing house is mounted perpendicularly to shaft direction

The XBTBC is designed to provide easy access for cleaning from all angles. We recommend that you choose a bearing house with NGI's hygienic nuts and bolts for maximum hygienic safety.

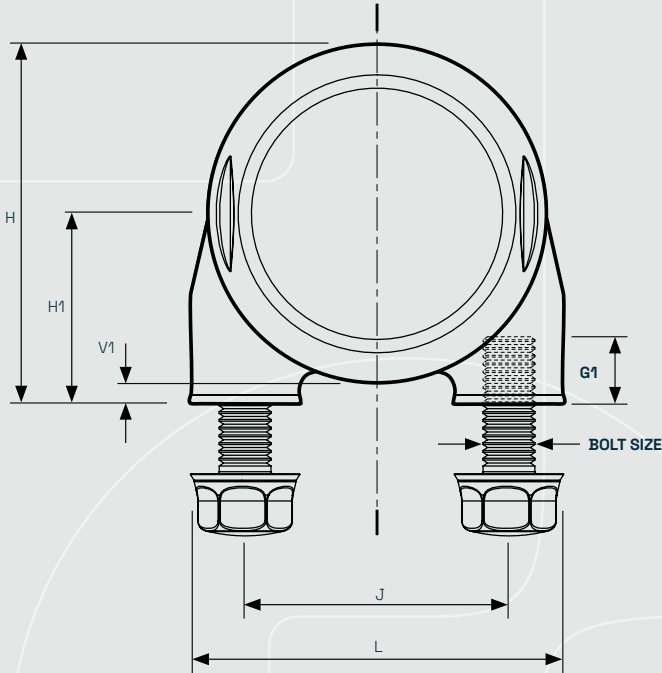
The XBTBC meets the requirements of EC 1935/2004, EC 10/2011, EC 2023/2006 and FDA.



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Innovation by NGI



Certified hygienic Bearing houses - XBTBC



Product code	Bearing house	Bearing type	Front cover	Back cover	Bolt (optional)
Example	XBTBC25-	SSB2500-CL(W)-	OS(W)-		BXHM1060

Bearing house



Size A [mm]	Shaft diameter D [mm]	J [mm]	H [mm]	H1 [mm]	I [mm]	G1 [mm]	A3 [mm]	Item code
47	20	-	-	-	-	-	-	XBTBC47
52	25	51	69,4	36,5	72,3	13	28	XBTBC52
62	30	76	82,7	42,9	100,9	13	29	XBTBC62
72	35	-	-	-	-	-	-	XBTBC72
80	40	-	-	-	-	-	-	XBTBC80

Bearing type



Bearing ball material	Shaft diameter D [mm]	Width B [mm]	Distance S1 [mm]	Maximum speed sealing* [R/MIN.]	Static load rating Co [N]	Dynamic load rating C [N]	Item code
Stainless steel w. screws	-	-	-	-	-	-	SSB2000
Stainless steel w. screws	25	27	19,5	1500	5970	11310	SSB2500
Stainless steel w. screws	30	30	22	1250	8640	15730	SSB3000
Stainless steel w. screws	-	-	-	-	-	-	SSB3500
Stainless steel w. screws	-	-	-	-	-	-	SSB4000

The above bearing is the most common bearing - stainless steel with screws. We have, however, four types of bearings - stainless steel or ceramic hybrid with screws or with locking collar. Find our complete assortment of bearings on page 28.

Cover



Size A [mm]	Shaft diameter D [mm]	OS [Open small]	om [Open Medium]	CM [Closed Medium]	CL [Closed Large]	Item code
		A2	A2	A2	A2	Color code - See below
47	20	4,5	14,6	16,7	-	
52	25	4,6	14,6	17,2	27,5	
62	30	5,9	20,4	23,3	35,7	
72	35	6,4	19,5	23,2	-	
80	40	6,6	22,3	26,2	-	

Nut and Bolt



Our bearing houses can be supplied with certified hygienic bolts and nuts. More bolt lengths are available. Find the relevant assortment of bolts and nuts for bearing houses on page 29.

Color bearing house

Color	Color code
WHITE	(W)
BLUE	(B)
BLACK	(S)



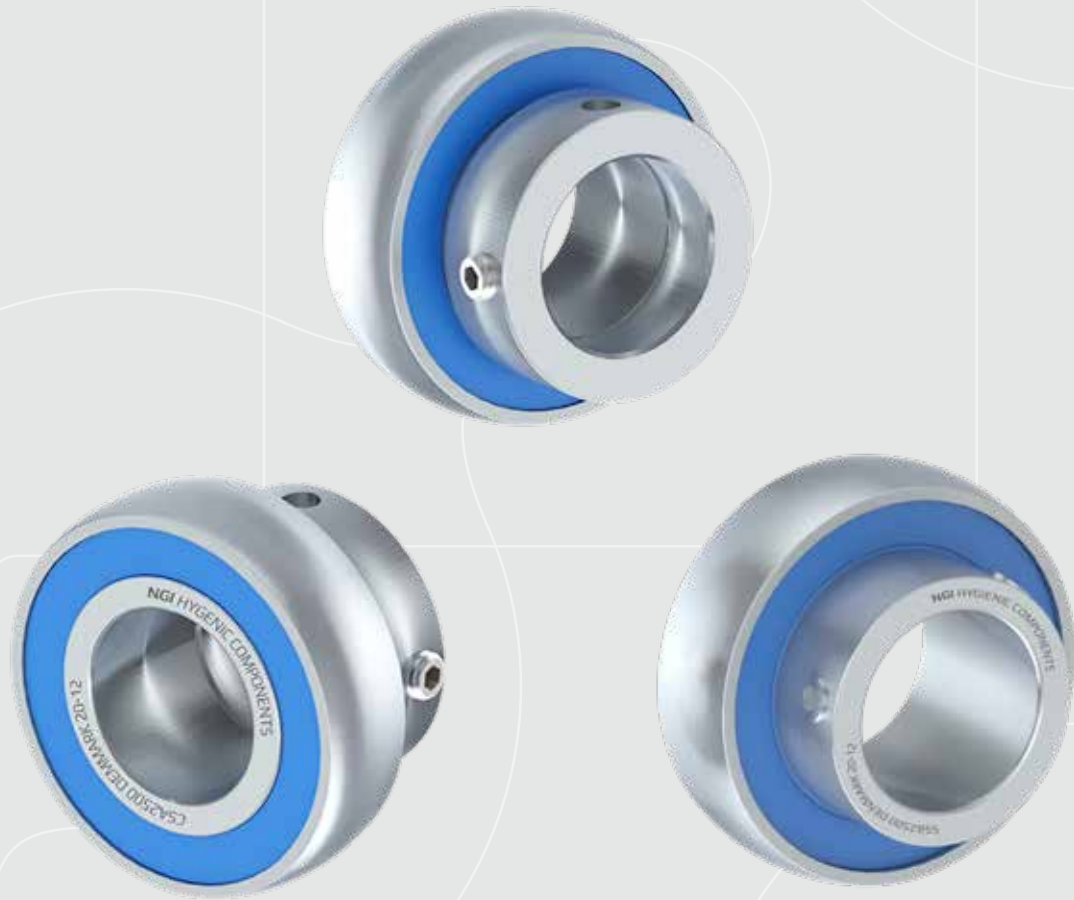
* The hygienic bearing house is typically used on conveyors rotating at relatively low speeds (below 2000 rpm), the housing creates a hygienic environment for the bearing, and it would be optimal to mount it on an AISI hard surface between 0.8 µm and 1.6 Ram Ra with a tolerance not exceeding h9, preferably lower.

Misalignment angle = +/-3 °

In 30% of the cases, it is expected that the ceramic bearings will never need to be replaced for the entire service life of the machine.



Minimized
water usage



Hygienic Bearings stainless steel or ceramic hybrid



SSB

- Stainless Steel Bearing
- Stainless steel balls
- AISI 440 rings



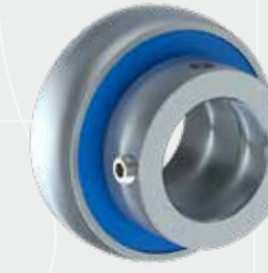
CSB

- Ceramic Bearing
- Hybrid with ceramic balls
- AISI 440 rings



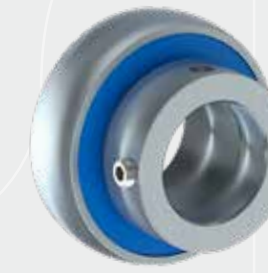
SSA

- Stainless Steel Bearing
- Stainless steel balls
- AISI 440 rings
- Eccentric locking collar



CSA

- Ceramic Bearing
- Hybrid with ceramic balls
- AISI 440 rings
- Eccentric locking collar



Hygienic Bearings stainless steel or ceramic hybrid

Our bearings are pre-installed in the bearing houses and we currently offer 4 types - stainless steel or ceramic hybrid bearing with screws or locking collar.

Our certified hygienic bearing houses with IP69K sealing provide the ideal environment for the bearing and are therefore suitable for maintenance-free operation.

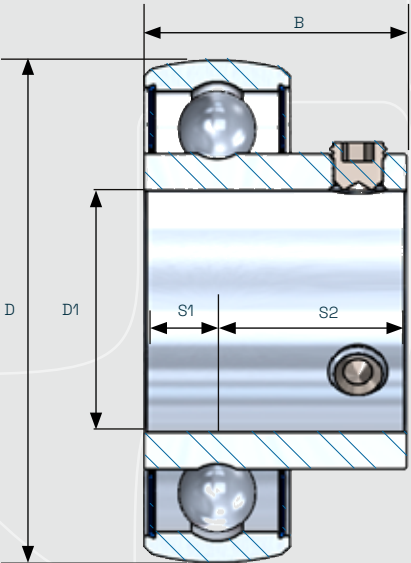
The main operating parameters that determine the lifetime of the bearing are bearing type and size, load, speed, operating temperature, shaft tolerances.

Our ball bearings are greased-for-life with high-performance multi-purpose grease designed specifically for the lubrication of food processing machinery all sealed-for-life by seals made from FDA-approved blue NBR.

The locking method with screws is the most common locking function.

Bearings with an eccentric locking collar are intended primarily for use in applications where the direction of rotation is constant. On one side of the bearing inner ring is an eccentric extension that fits the locking collar.

- Certified hygienic
- Minimized cleaning time
- Minimized water usage



Hygienic Bearings stainless steel or ceramic hybrid

Bearing ball Stainless steel	Locking function	Size D [mm]	Shaft diameter D1 [mm]	Width B [mm]	Distance S1 [mm]	Max. speed bearing* [R/MIN.]	Static load rating Co [N]	Dynamic load rating C [N]	Item code
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With screws	47	20	25	18	4800	5040	10370	SSB2000
With screws	52	25	27	19,5	4200	5970	11310	SSB2500
With screws	62	30	30	22	3780	8640	15730	SSB3000
With screws	72	35	34	24,5	3150	11680	20830	SSB3500
With screws	80	40	37	26,5	2750	13600	23550	SSB4000
With locking collar	47	20	25	18	4800	5040	10370	SSA2000
With locking collar	52	25	27	19,5	4200	5970	11310	SSA2500
With locking collar	62	30	30	22	3780	8640	15730	SSA3000
With locking collar	72	35	34	24,5	3150	11680	20830	SSA3500
With locking collar	80	40	37	26,5	2750	13600	23550	SSA4000

Bearing ball Ceramic hybrid	Locking function	Size D [mm]	Shaft diameter D1 [mm]	Width B [mm]	Distance S1 [mm]	Max. speed bearing* [R/MIN.]	Static load rating Co [N]	Dynamic load rating C [N]	Item code
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With screws	47	20	25	18	4800	4032	10370	CSB2000
With screws	52	25	27	19,5	4200	4776	11310	CSB2500
With screws	62	30	30	22	3780	6912	15730	CSB3000
With screws	72	35	34	24,5	3150	9344	20830	CSB3500
With screws	80	40	37	26,5	2750	10880	23550	CSB4000
With locking collar	47	20	25	18	4800	4032	10370	CSA2000
With locking collar	52	25	27	19,5	4200	4776	11310	CSA2500
With locking collar	62	30	30	22	3780	6912	15730	CSA3000
With locking collar	72	35	34	24,5	3150	9344	20830	CSA3500
With locking collar	80	40	37	26,5	2750	10880	23550	CSA4000



Grease for bearing balls in stainless steel:
Our bearing balls in stainless steel are lubricated-for-life with Mobilgrease FM 222 a high performance multi-purpose products designed specifically for the lubrication of food processing machinery. FM 222 are Agriculture and Agri-Food Canada category n lubricant (incidental food contact) and are formulated with components meeting the requirements of CFR 178.3570, Chapter 21, and NSF registered as H1 classified lubricants. DIN 51825 KPF2K-20 - Kosher/Parve -Halal.

Grease for bearing balls in ceramic hybrid:
Our bearing ball in ceramic hybrid are lubricated-for-life with ROCOL® FOODLUBE Premier 1 a soft, white, non-toxic lubricant containing PTFE for the effective lubrication and protection of ball, roller and plain bearings, slides and bushes particularly those operating in food, pharmaceutical and other clean environments. FOODLUBE Premier 1 is temperature resistance of -20°C to +180°C and it is manufactured from only FDA listed ingredients: FDA Group 21 CFR 178.3570. FOODLUBE Premier 1 is NSF registered, NSF H1 registered – 141084 and ISO 21469 certified.



* The hygienic bearing house is typically used on conveyors rotating at relatively low speeds (below 2000 rpm), the housing creates a hygienic environment for the bearing, and it would be optimal to mount it on an AISI hard surface between 0.8 µm and 1.6 Ram Ra with a tolerance not exceeding h9, preferably lower.

Certified hygienic bolts & nuts

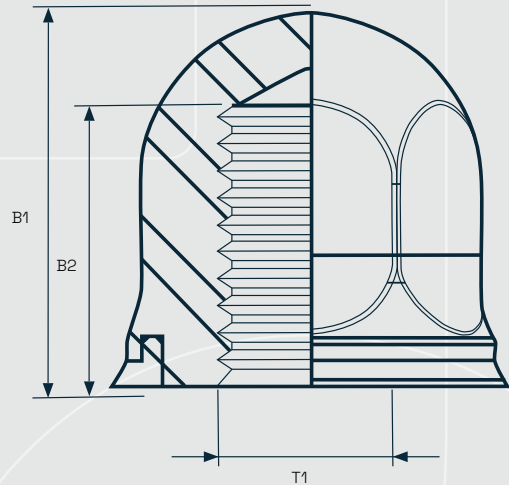
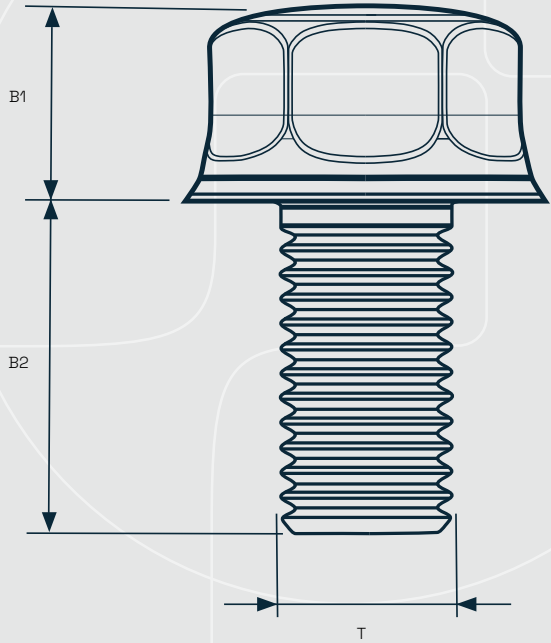
-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

NGI is able to offer certified hygienic bolts and nuts with blue NBR rubber seals. The NBR rubber seal blocks out water and bacteria and also prevents a non-hygienic metal-to-metal assembly.

The bolts and nuts have self-draining surfaces with a maximal roughness of 0.8 µm Ra. The design of the bolts and nuts does not deviate from the sizes of current standard bolts and nuts. Therefore, wrench sizes, thread heights etc. all remains the same making it very easy to upgrade and replace standard bolts.

This is the right choice of accessories to be used on all machinery in all certified hygienic wash-down environments.

- Certified in accordance with 3-A (RPSCQC)
- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS I AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 µm Ra
- Available in sizes M5-M24



Certified hygienic bolts & nuts



Certified hygienic bolts - BXH



Size A	Bolt size T	Head height B1	Bolt length* B2	Plate thickness		Tightening torque	Outer nut diameter	Item code
[mm]		[mm]	[mm]	[mm]	[mm]	[Nm]	[mm]	
47	M10	12	50	1-5	16	38	21,1	BXHM1050
47	M10	12	55	5-10	16	38	21,1	BXHM1055
52	M10	12	50	1-5	16	38	21,1	BXHM1050
52	M10	12	55	5-10	16	38	21,1	BXHM1055
62	M10	12	55	1-5	16	38	21,1	BXHM1055
62	M10	12	60	5-10	16	38	21,1	BXHM1060
72	M12	14	60	1-5	18	68	25,8	BXHM1260
72	M12	14	65	5-10	18	68	25,8	BXHM1265
80	M12	14	65	1-5	18	68	25,8	BXHM1265
80	M12	14	70	5-10	18	68	25,8	BXHM1270

Certified hygienic dome-headed nut - NDXH



Thread T1	Tightening torque	Total height B1	Thread length B2		Outer nut diameter	Item code
	[Nm]	[mm]	[mm]	W [mm]	[mm]	
M10	38	19,9	15	16	21,1	NDXH-M10
M12	68	24,5	18	18	25,8	NDXH-M12



* Bearing can be supplied with certified hygienic bolts. More bolt lengths are available, contact NGI for other options.

Certified hygienic spacers

NGI can offer certified hygienic spacers with blue NBR rubber seals. The NBR rubber seal blocks out water and bacteria and prevents a non-hygienic metal-to-metal assembly.

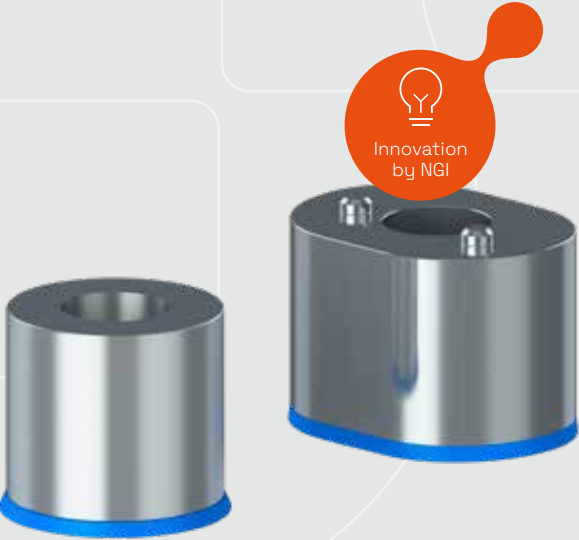
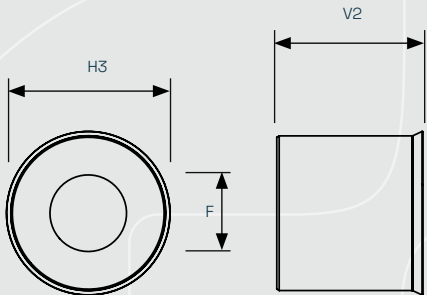
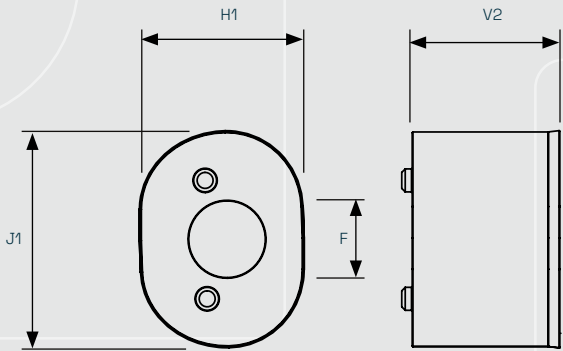
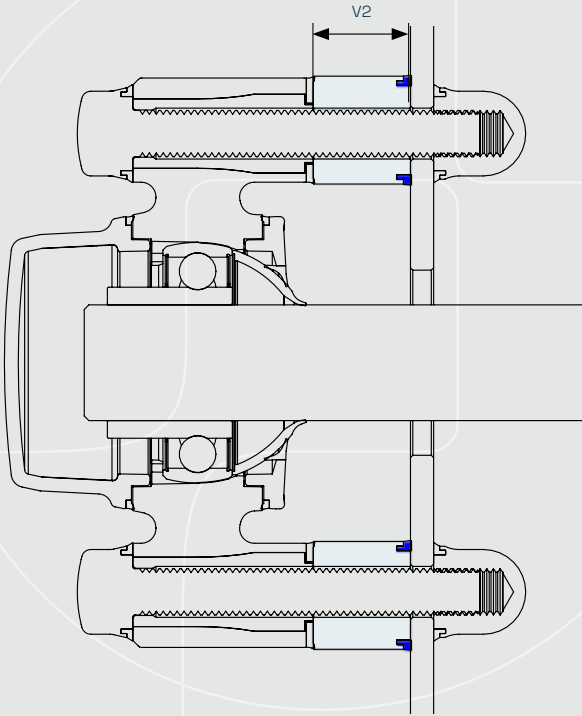
A high focus on hygienic design ensures that the bearing house can be cleaned behind and around the shaft and furthermore, NGI offers hygienic spacers to increase the distance to machines and equipment to over an inch as recommended by USDA.

NGI bearing houses are USDA certified.

When USDA laws are to be followed use the hygienic spacers from NGI to secure the approved distance to the support surface. For hygienic components from NGI which are already 3-A RPSCQC approved, USDA has mostly been about protection against visible threads and 1" spacers for bearing housings.

To attach NGI hygienic bearing houses to the support surface always use NGI certified hygienic bolts or nuts to secure the overall hygienic design.

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage



Certified hygienic spacers



Oval Spacer

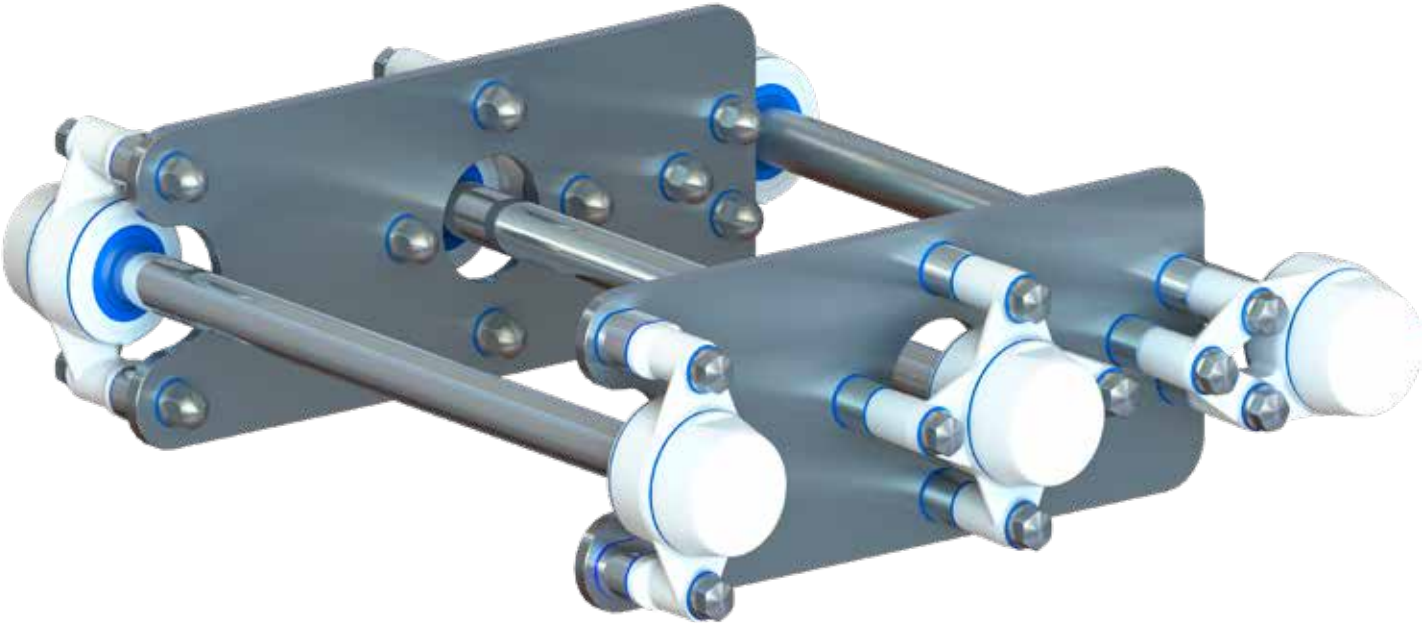


Bearing house size	A	V2	F	H1	J1	Item code
	[mm]	[mm]	[mm]	[mm]	[mm]	
47	19	13	23,2	30,8		8000200
52	19	11	23,5	31,2		HF95462
62	19	11	27,5	37,2		HF95463
72	19	15	28,4	48,8		HF95696
80	19	15	30,4	52,8		HF95705

Round Spacer



Bearing house size	A	V2	F	H3	Item code
	[mm]	[mm]	[mm]	[mm]	
47	22	12	22	HF95464	
52	22	12	22	HF95464	
62	22,5	12	26	HF95461	
72	22	15	28,5	HF95697	
80	22	15	30	HF95702	



Declaration of conformity bearing houses



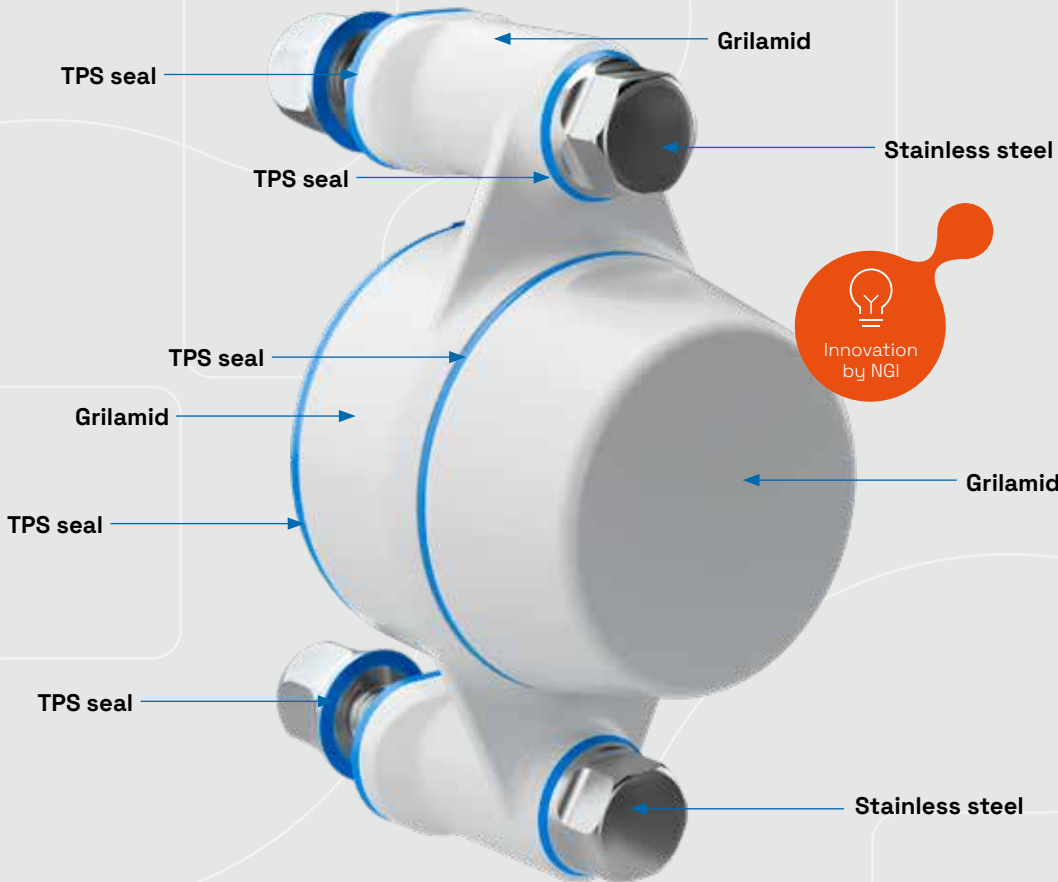
NGI fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentively follow the revisions and amendments to these directives and will design our products accordingly. This ensures that products from NGI are always in compliance with currently valid requirements.

Our product category is not covered by the scope of application of the EC directive for machinery. For this reason, they cannot be furnished with the CE marking in accordance with the EC directive for machinery.

Furthermore, we declare that the listed materials applied in our products comply with the demands for materials used within the food and pharmaceutical industries.



red dot winner 2022



- Certified hygienic
- Minimized cleaning time
- Minimized water usage

Declaration of conformity bearing houses



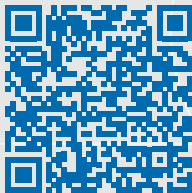
The declaration of materials concerns the following Applications

Application:	Insert bearings
Material type:	Stainless steel. By request: Ceramic balls NBR rubber seals
Compliance:	“Materials and articles to come in contact with food” 1935:2004/EC This certification is based on relevant information supplied by the material manufactures.
Application:	Hygienic bolts:
Material type:	Stainless steel AISI 316/A4 (A4 [X 5 CrNiMo 17 12 2], Euronorm
Material type bolts	1.4401 EN 10204 TYPE 2.2.
Material type seals	Silicon rubber
Compliance:	See conformity statement for NGI certified hygienic bolts
Application:	Bearing house & covers
Material type:	Grilamid frame, TPS seals
Electrically:	Non-conductive
Chemical resistance:	High to commonly applied cleaning agents
Color:	RAL 9010 (white) body, RAL 5010 (blue) seals
Range of temperature:	Min -20°C to Max +125 °C
Storage:	According to ISO 2230
Compliance:	Mounting according to ISO norm 3228:2013 Bearing compatibility according to ISO norm 9628:2006
FDA:	Guideline 21 CFR 177.2600
RoHS 2:	In accordance with the Directive 2011/65/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.
European Community:	“Materials and articles to come in contact with food” - 1935:2004/EC “Plastic materials and articles intended to come in contact with food” - 10:2011/EC
Water resistance:	IP69 Water resistant 7 atm or 70 meters.

Installation bearing houses

Scan the code and learn how to replace a bearing house.

You can also find detailed guidance in the installation of our bearing houses at www.ngi-global.com



Certified hygienic Castors

The only patented Castors in the world
hygienically designed in accordance to EHEDG,
3-A and USDA standards with easy
access for cleaning from all angles

For use in sanitary production environments.
self-draining surfaces, completely sealed
movable parts and no exposed thread secures absolute
minimum cleaning and maximum sanitary safety



Certified hygienic



Minimized cleaning time



Minimized water usage

Certified hygienic Castors

NGI is the only manufacturer in the world of patented castors hygienically designed in accordance with 3-A, EHEDG and USDA design principles. The product range consists of three hygienic groups of castors: A castor with a plate fitting, a castor with hygienic levelling spindles and a castor with round thread mounting.

The hygienic castors from NGI have smooth surfaces with soft curves enabling easy access for cleaning. All surfaces are either round or fitted with a 30 angle to provide optimal drainability. Furthermore, the castors are designed for quick and easy installation.



Product Group Features

- One-sided fork housing providing easy access for cleaning
- Housing made of stainless steel AISI 304/A2 1.4301
- Wheel axle with nut bolt hole
- Center of castor made from white polyamide
- Blue thread made from polyurethane
- Two high quality stainless steel ball bearings
- Wheel dimensions Ø100 (other dimensions to be launched)
- Load capacity tested in accordance to, and conforms to DS/EN12527:1999
- Developed in accordance to DS/EN12532:1999



XSCB-XHS

Special Features

- Certified hygienic swivel castor with levelling spindle
- Height variation 224,5 mm - 319,5 mm
- Brake on swivel and wheel
- Extra strong, hardened double roller bearing
- Dynamic castor weight load 2.000 N

132



XSCRB

Special Features

- Certified hygienic swivel castor
- Extra strong, hardened double roller bearing
- Brake on swivel and wheel
- Dynamic weight load 2.000 N

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XSC-XHS

Special Features

- Certified hygienic swivel castor with levelling spindle
- Height variation 224,5 mm - 319,5 mm
- Extra strong, hardened double roller bearing
- Dynamic castor weight load 2.000 N

134



XSCR

Special Features

- Certified hygienic swivel castor
- Extra strong, hardened double roller bearing
- Dynamic weight load 2.000 N

140



XC-XHS

Special Features

- Certified hygienic castor with levelling spindle
- Rigid swivel
- Height variation 224,5 mm - 319,5 mm
- Dynamic castor weight load 2.000 N

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XCR

Special Features

- Certified hygienic castor
- Rigid swivel
- Dynamic weight load 2.000 N

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Certified hygienic Castors

NGI is the only manufacturer in the world of patented castors hygienically designed in accordance with 3-A, EHEDG and USDA design principles. The product range consists of three hygienic groups of castors: A castor with a plate fitting, a castor with hygienic levelling spindles and a castor with round thread mounting.

The hygienic castors from NGI have smooth surfaces with soft curves enabling easy access for cleaning. All surfaces are either round or fitted with a 3o angle to provide optimal drainability. Furthermore, the castors are designed for quick and easy installation.



XSCSB

Special Features

- Certified hygienic swivel castor with plate fitting
- Extra strong, hardened double roller bearing
- Brake on swivel and wheel
- Dynamic weight load 2.000 N

144



XSCS

Special Features

- Certified hygienic swivel castor with plate fitting
- Extra strong, hardened double roller bearing
- Dynamic weight load 2.000 N

146



XCS

Special Features

- Certified hygienic castor with plate fitting
- Rigid swivel
- Dynamic weight load up 2.000 N

148



DECLARATION OF CONFORMITY

This declaration of conformity lists all the directives and standards that NGI adheres to. This ensures that products from NGI are always in compliance with currently valid requirements.

150



CERTIFIED HYGIENIC DOME-HEADED NUT

- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS i AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 pm RA
- Available in sizes M6-M24
- Are delivered with all certified hygienic machine feet with floor fixing



306



CERTIFIED HYGIENIC LOW-HEADED NUT

- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS i AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 pm RA
- Available in sizes M5-M24



308



CERTIFIED HYGIENIC BOLT

- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS i AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 pm RA
- Available in sizes M5-M24



310

Certified hygienic Castor - XSCB-XHS

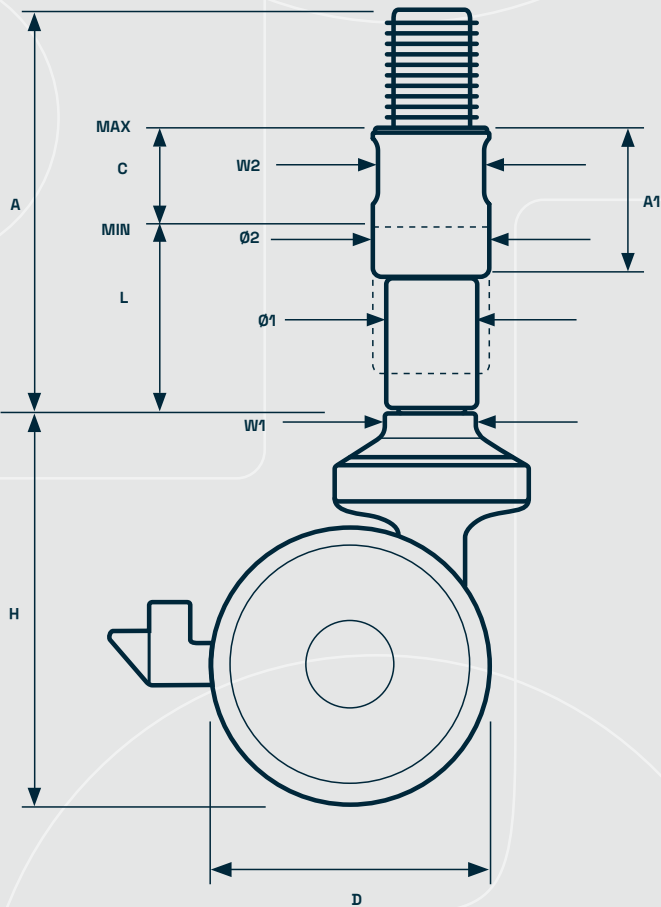
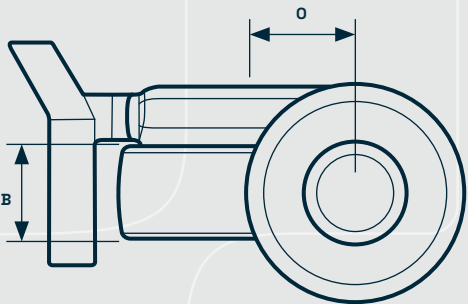
- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XSCB-XHS certified hygienic swivel castor with a levelling spindle is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.

The XSCB-XHS is equipped with a brake on swivel and wheel which is completely integrated in the single-sided fork housing providing accessible surfaces and extreme easy access for cleaning.

The thread on the spindle is covered with a hygienic sleeve which cannot be overadjusted and secures safety against exposed thread.

Spindle parts are 100% hygienically sealed with blue sealings detectable by scanning systems.



Certified hygienic Castor - XSCB-XHS



CASTOR



PRODUCT CODE	CASTOR - SPINDLE - SLEEVE
EXAMPLE	XSCB100 - XHSM1630155 - RHOXS3055

TYPE	DIAMETER D [mm]	HEIGHT H [mm]	OFFSET O [mm]	WIDTH B [mm]	W1 [mm]	DYNAMIC LOAD [N]	ITEM CODE
100	100	142.5	30	29	32	2.000	XSCB100

SPINDLE



THREAD	HEIGHT A [mm]	MIN HEIGHT L [mm]	DIAMETER Ø1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
M24	155	82	26,4	958	XHSM1624155
M24	215	111	26,4	843	XHSM1624215
M30	155	82	32,0	1.928	XHSM1630155
M30	215	111	32,0	1.700	XHSM1630215
M36	155	82	32,0	3.366	XHSM1636155
M36	215	111	32,0	2.975	XHSM1636215
M42	155	82	37,3	5.261	XHSM1642155
M42	215	111	37,3	4.641	XHSM1642215

SLEEVE



THREAD	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A1 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M24	32	24,8	55	36	RHOXS2455
M24	32	24,8	85	66	RHOXS2485
M30	38	41,8	55	36	RHOXS3055
M30	38	41,8	85	66	RHOXS3085
M36	46	49,8	55	33	RHOXS3655
M36	46	49,8	85	63	RHOXS3685
M42	50	54,5	55	33	RHOXS4255
M42	50	54,5	85	63	RHOXS4285

Total height = A + H
Minimum usable height = H + L
Maximum usable height = H + L + C
Maximum nominal load = Lowest value for castor or spindle
Tolerance of total height = +/-1,5 mm



Certified hygienic Castor - XSC-XHS

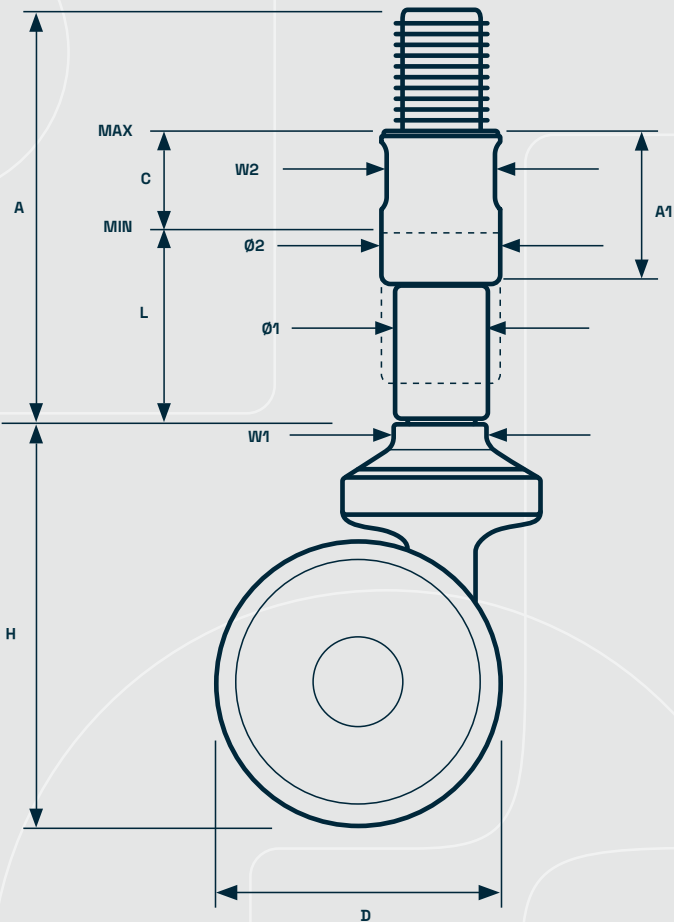
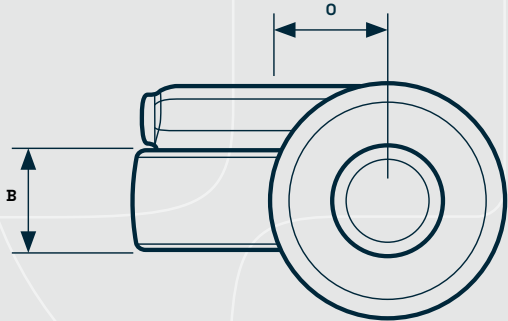
The design and patent protected XSC-XHS certified hygienic swivel castor with a levelling spindle is the optimal choice for machinery and equipment in that has to comply with strict hygiene requirements.

The castors are specifically designed to provide extreme easy access for cleaning and are fitted with smooth, drainable surfaces.

The thread is covered with a hygienic sleeve which cannot be overadjusted and secures safety against exposed thread.

Spindle parts are 100% hygienically sealed with blue sealings detectable by scanning systems.

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage



Innovation
by NGI

Certified hygienic Castor - XSC-XHS



CASTOR



SPINDLE



SLEEVE



PRODUCT CODE	CASTOR - SPINDLE - SLEEVE
EXAMPLE	XSC100 - XHSM1630210 - RHOXS3085

TYPE	DIAMETER D [mm]	HEIGHT H [mm]	OFFSET O [mm]	WIDTH B [mm]	W1 [mm]	DYNAMIC LOAD [N]	ITEM CODE
100	100	142,5	30	29	32	2.000	XSC100

THREAD	HEIGHT A [mm]	MIN HEIGHT L [mm]	DIAMETER Ø1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
M24	155	82	26,4	958	XHSM1624155
M24	215	111	26,4	843	XHSM1624215
M30	155	82	32,0	1.928	XHSM1630155
M30	215	111	32,0	1.700	XHSM1630215
M36	155	82	32,0	3.366	XHSM1636155
M36	215	111	32,0	2.975	XHSM1636215
M42	155	82	37,3	5.261	XHSM1642155
M42	215	111	37,3	4.641	XHSM1642215

THREAD	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A1 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M24	32	24,8	55	36	RHOXS2455
M24	32	24,8	85	66	RHOXS2485
M30	38	41,8	55	36	RHOXS3055
M30	38	41,8	85	66	RHOXS3085
M36	46	49,8	55	33	RHOXS3655
M36	46	49,8	85	63	RHOXS3685
M42	50	54,5	55	33	RHOXS4255
M42	50	54,5	85	63	RHOXS4285

Total height = A + B
Minimum usable height = B + L
Maximum usable height = B + L + C
Maximum nominal load = Lowest value for castor or spindle
Tolerance of total height = +/-1,5 mm

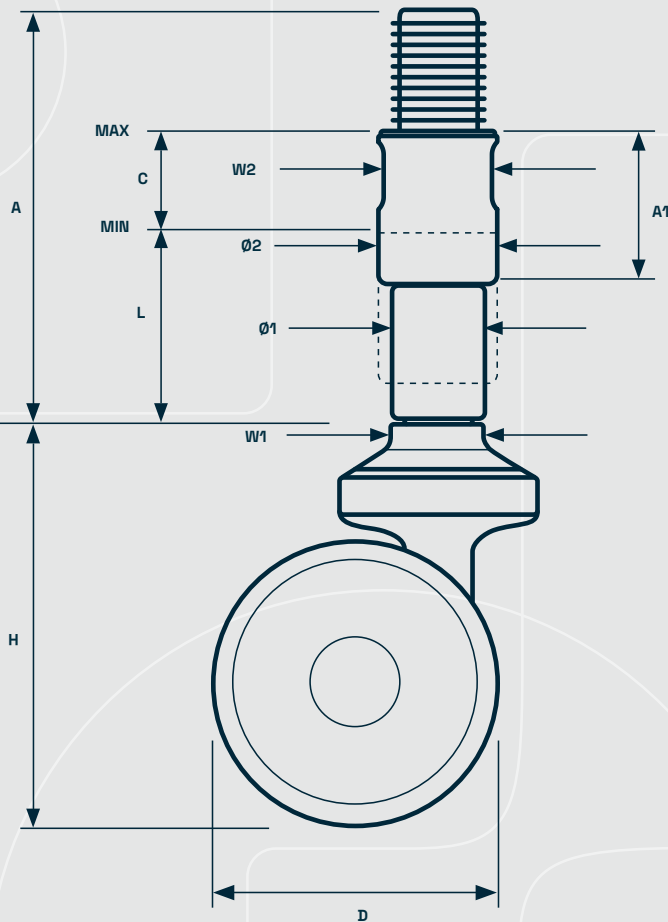
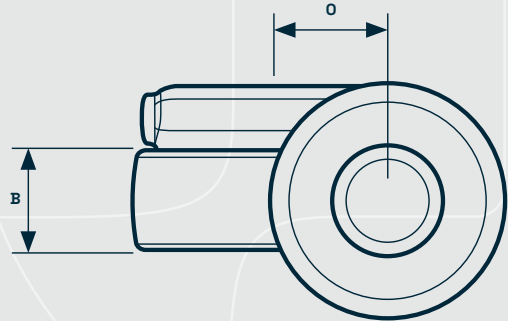
Certified hygienic Castor - XC-XHS

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The design and patent protected XC-XHS certified hygienic swivel castor with a levelling spindle is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements. The XC-XHS has a rigid swivel.

The thread on the spindle is covered with a hygienic sleeve which cannot be overadjusted and secures safety against exposed thread.

Spindle parts are 100% hygienically sealed with blue sealings detectable by scanning systems.



Certified hygienic Castor - XC-XHS



CASTOR




SPINDLE




SLEEVE



PRODUCT CODE	CASTOR - SPINDLE - SLEEVE
EXAMPLE	XC100 - XHSM1630210 - RHOXS3085

TYPE	DIAMETER D [mm]	HEIGHT H [mm]	OFFSET O [mm]	WIDTH B [mm]	 W1 [mm]	DYNAMIC LOAD [N]	ITEM CODE
100	100	142,5	30	29	32	2.000	XC100

THREAD	HEIGHT A [mm]	MIN HEIGHT L [mm]	DIAMETER Ø1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
M24	155	82	26,4	958	XHSM1624155
M24	215	111	26,4	843	XHSM1624215
M30	155	82	32,0	1.928	XHSM1630155
M30	215	111	32,0	1.700	XHSM1630215
M36	155	82	32,0	3.366	XHSM1636155
M36	215	111	32,0	2.975	XHSM1636215
M42	155	82	37,3	5.261	XHSM1642155
M42	215	111	37,3	4.641	XHSM1642215

THREAD	 W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A1 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M24	32	24,8	55	36	RHOXS2455
M24	32	24,8	85	66	RHOXS2485
M30	38	41,8	55	36	RHOXS3055
M30	38	41,8	85	66	RHOXS3085
M36	46	49,8	55	33	RHOXS3655
M36	46	49,8	85	63	RHOXS3685
M42	50	54,5	55	33	RHOXS4255
M42	50	54,5	85	63	RHOXS4285

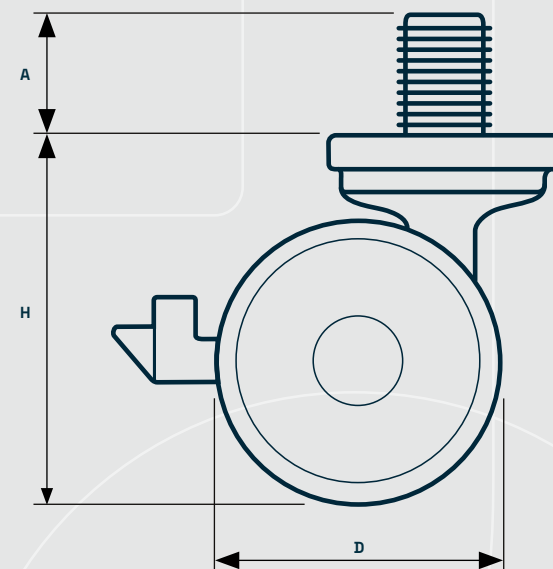
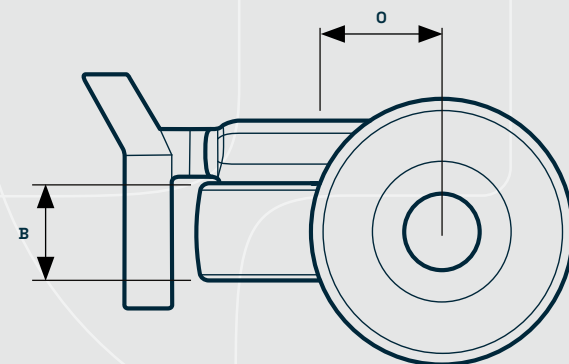
Total height = A + B
Minimum usable height = B + L
Maximum usable height = B + L + C
Maximum nominal load = Lowest value for castor or spindle
Tolerance of total height = +/-1,5 mm

Certified hygienic Castor - XSCRB

The design and patent protected XSCRB certified hygienic swivel castor is a castor with round thread mounting. The XSCRB castor is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.

The XSCRB is equipped with a brake on swivel and wheel which is completely integrated in the single-sided fork housing providing accessible surfaces and extreme easy access for cleaning.

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage



Certified hygienic Castor - XSCRB



CASTOR



PRODUCT CODE	CASTOR
EXAMPLE	XSCRB100-24-40

THREAD	DIAMETER D [mm]	HEIGHT H [mm]	HEIGHT A [mm]	OFFSET O [mm]	WIDTH B [mm]	DYNAMIC LOAD [N]	ITEM CODE
M16	100	130,5	40	30	29	2,000	XSCRB100-16-40
M20	100	130,5	40	30	29	2,000	XSCRB100-20-40
M24	100	130,5	40	30	29	2,000	XSCRB100-24-40
M30	100	130,5	40	30	29	2,000	XSCRB100-30-40
M36	100	130,5	40	30	29	2,000	XSCRB100-36-40



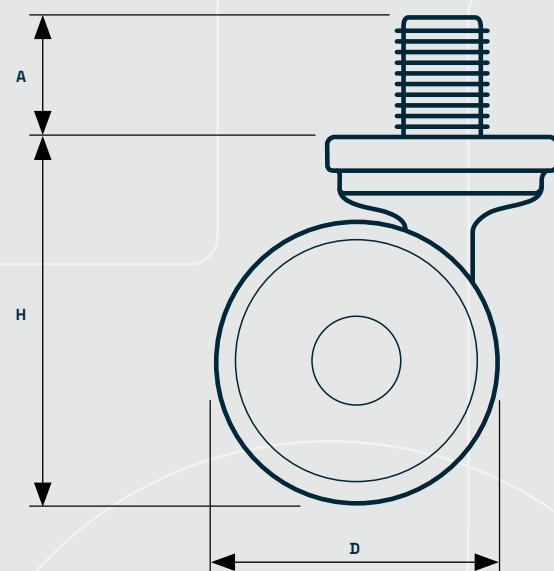
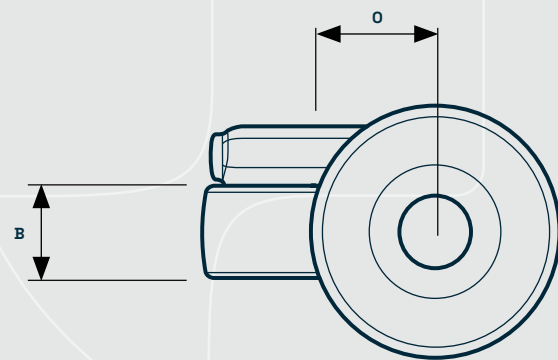
Total height = H + A
Tolerance of total height = +/-1,5 mm

Certified hygienic Castor - XSCR

The design and patent protected XSCR certified hygienic swivel castor is a castor with round thread mounting.

The XSCR castor is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage



Certified hygienic Castor - XSCR



CASTOR



PRODUCT CODE	CASTOR
EXAMPLE	XSCR100-24-40

THREAD	DIAMETER D [mm]	HEIGHT H [mm]	HEIGHT A [mm]	OFFSET O [mm]	WIDTH B [mm]	DYNAMIC LOAD [N]	ITEM CODE
M16	100	130,5	40	30	29	2,000	XSCR100-16-40
M20	100	130,5	40	30	29	2,000	XSCR100-20-40
M24	100	130,5	40	30	29	2,000	XSCR100-24-40
M30	100	130,5	40	30	29	2,000	XSCR100-30-40
M36	100	130,5	40	30	29	2,000	XSCR100-36-40



Total height = H + A
Tolerance of total height = +/-1,5 mm

Certified hygienic Castor - XCR

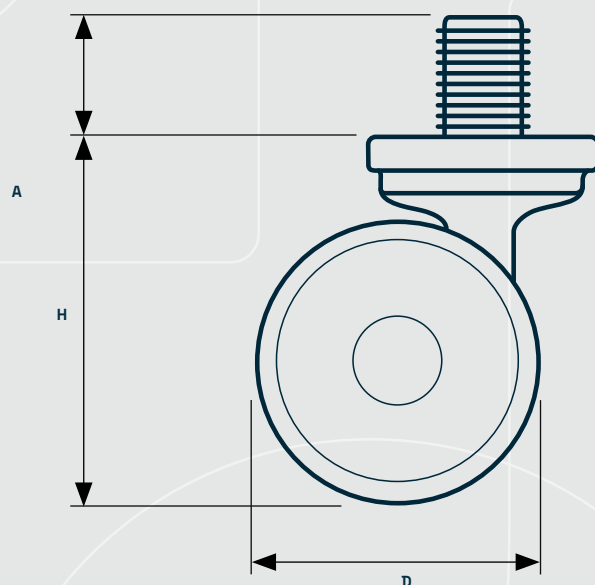
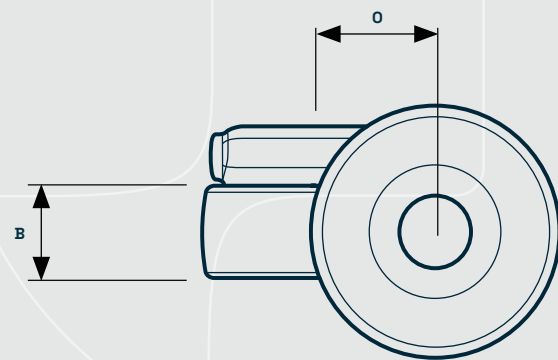
The design and patent protected XCR certified hygienic swivel castor is a castor with round thread mounting.

The XCR castor is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.

The XCR has a rigid swivel.



-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage



Certified hygienic Castor - XCR



CASTOR



PRODUCT CODE	CASTOR
EXAMPLE	XCR100-24-40

THREAD	DIAMETER D [mm]	HEIGHT H [mm]	HEIGHT A [mm]	OFFSET O [mm]	WIDTH B [mm]	DYNAMIC LOAD [N]	ITEM CODE
M16	100	130,5	40	30	29	2,000	XCR100-16-40
M20	100	130,5	40	30	29	2,000	XCR100-20-40
M24	100	130,5	40	30	29	2,000	XCR100-24-40
M30	100	130,5	40	30	29	2,000	XCR100-30-40
M36	100	130,5	40	30	29	2,000	XCR100-36-40



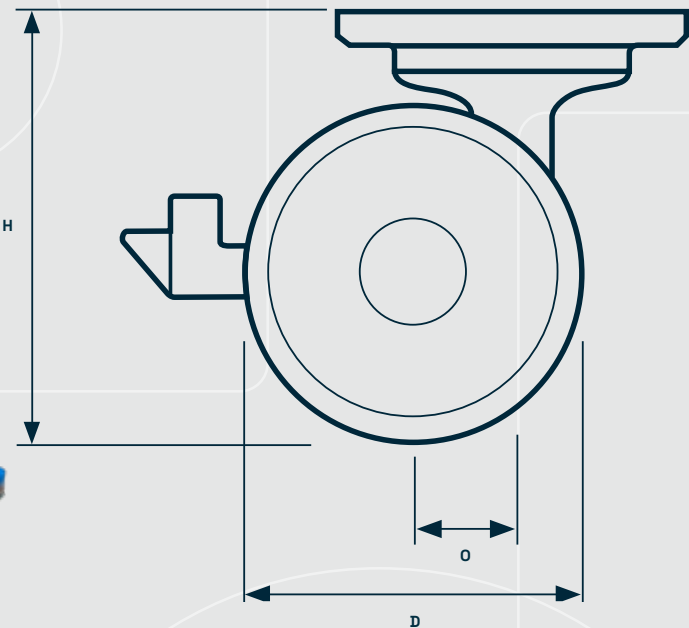
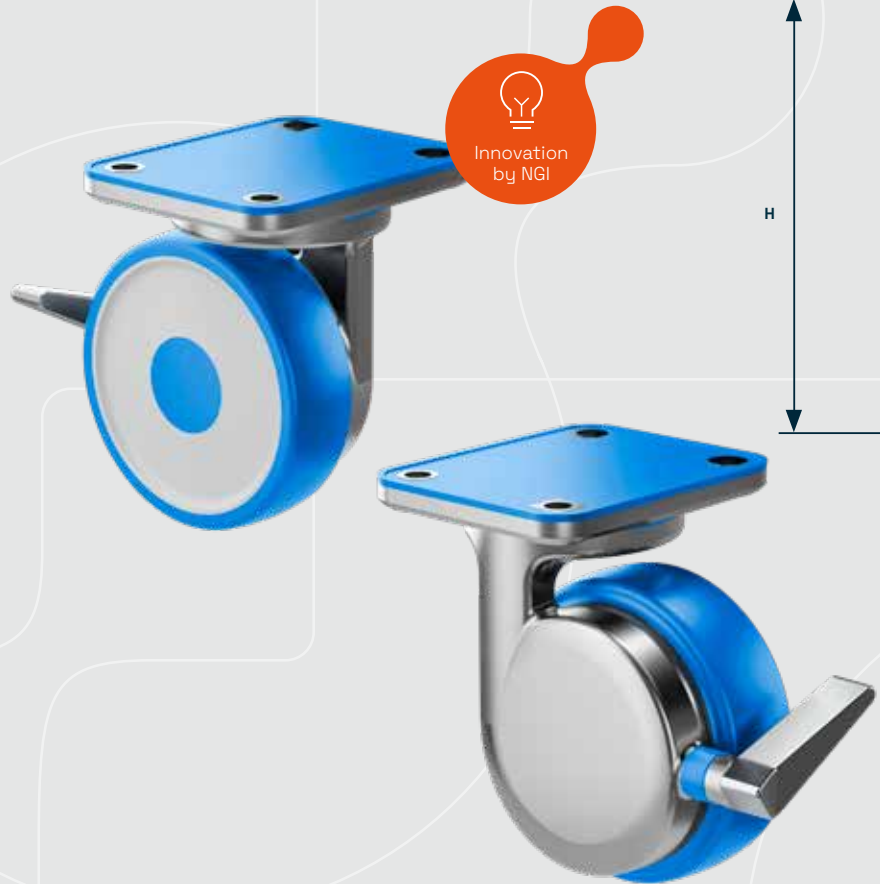
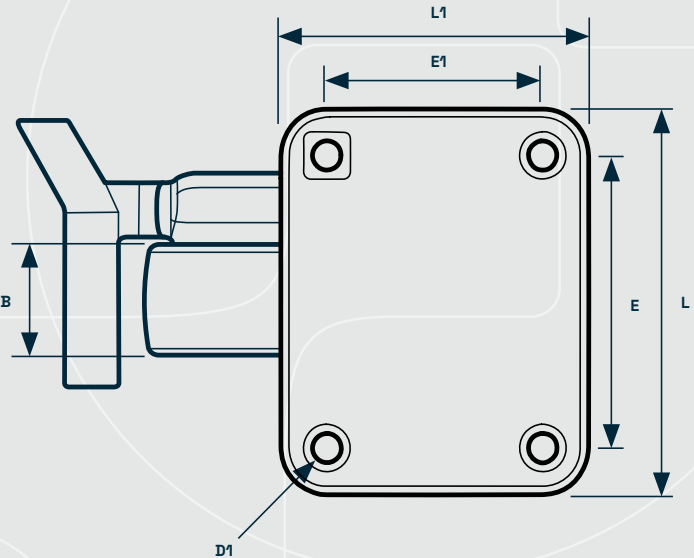
Total height = H + A
Tolerance of total height = +/-1,5 mm

Certified hygienic Castor - XSCSB

The design and patent protected XSCSB certified hygienic swivel castor with plate fitting is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.

The XSCSB is equipped with a brake on swivel and wheel which is completely integrated in the single-sided fork housing providing accessible surfaces and extreme easy access for cleaning.

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage



Certified hygienic Castor - XSCSB



PRODUCT CODE	CASTOR
EXAMPLE	XSCSB100

CASTOR



TYPE	DIAMETER D [mm]	HEIGHT H [mm]	OFFSET O [mm]	WIDTH B [mm]	DYNAMIC LOAD [N]	ITEM CODE
100	100	128	30	29	2.000	XSCSB100

FIXING PLATE

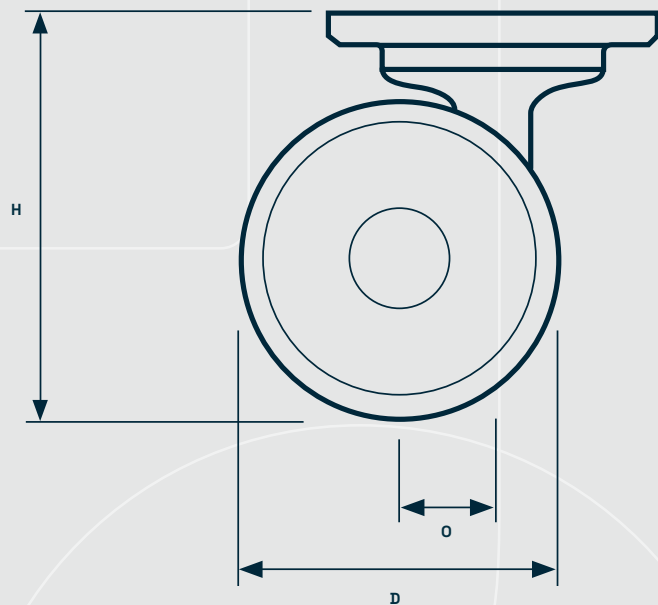
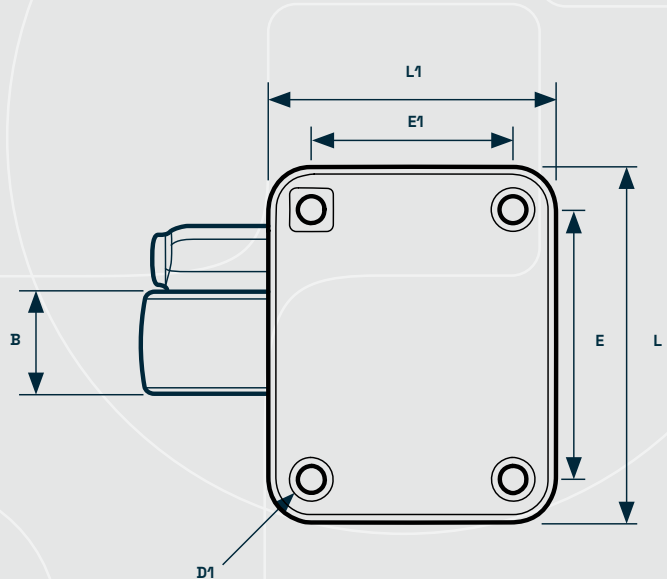


TYPE	LENGTH L [mm]	LENGTH L1 [mm]	HOLE POSITION E [mm]	HOLE POSITION E1 [mm]	HOLE DIAMETER D1 [mm]
100	105	85	80	60	8

Certified hygienic Castor - XSCS

The design and patent protected XSCS certified hygienic swivel castor with plate fitting is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage



Certified hygienic Castor - XSCS



PRODUCT CODE	CASTOR
EXAMPLE	XSCS100

CASTOR



TYPE	DIAMETER D [mm]	HEIGHT B [mm]	OFFSET O [mm]	WIDTH H [mm]	DYNAMIC LOAD [N]	ITEM CODE
100	100	128	30	29	2.000	XSCS100

FIXING PLATE



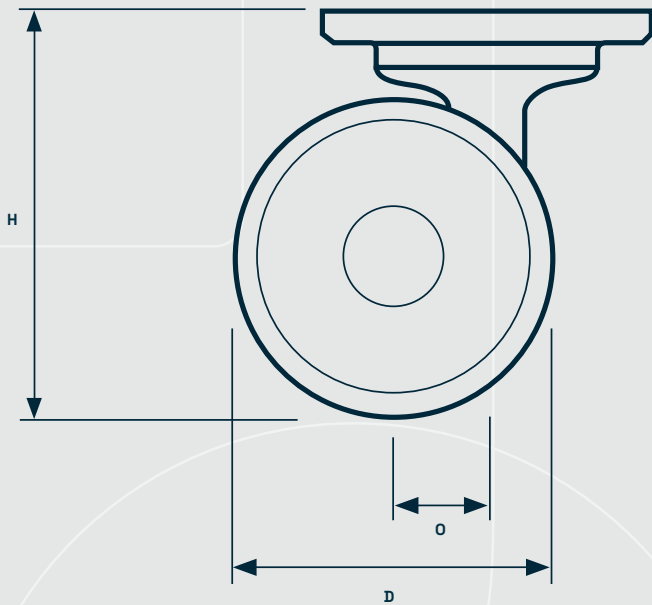
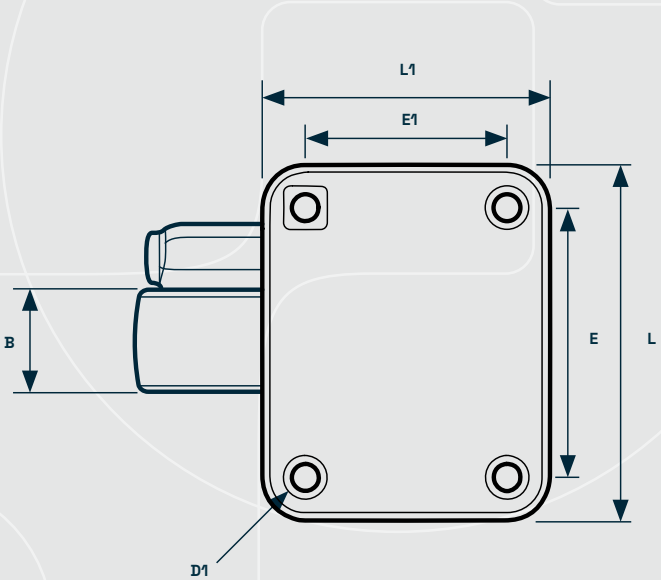
TYPE	LENGTH L [mm]	LENGTH L1 [mm]	HOLE POSITION E [mm]	HOLE POSITION E1 [mm]	HOLE DIAMETER D1 [mm]
100	105	85	80	60	8

Certified hygienic Castor - XCS

The design and patent protected XCS certified hygienic swivel castor with plate fitting is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.

The XCS has a rigid swivel.

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage



Certified hygienic Castor - XCS



PRODUCT CODE	CASTOR
EXAMPLE	XCS100

CASTOR



TYPE	DIAMETER D [mm]	HEIGHT B [mm]	OFFSET O [mm]	WIDTH B [mm]	DYNAMIC LOAD [N]	ITEM CODE
100	100	128	30	29	2.000	XCS100

FIXING PLATE



TYPE	LENGTH L [mm]	LENGTH L1 [mm]	HOLE POSITION E [mm]	HOLE POSITION E1 [mm]	HOLE DIAMETER D1 [mm]
100	105	85	80	60	8

Declaration of conformity Hygienic castors

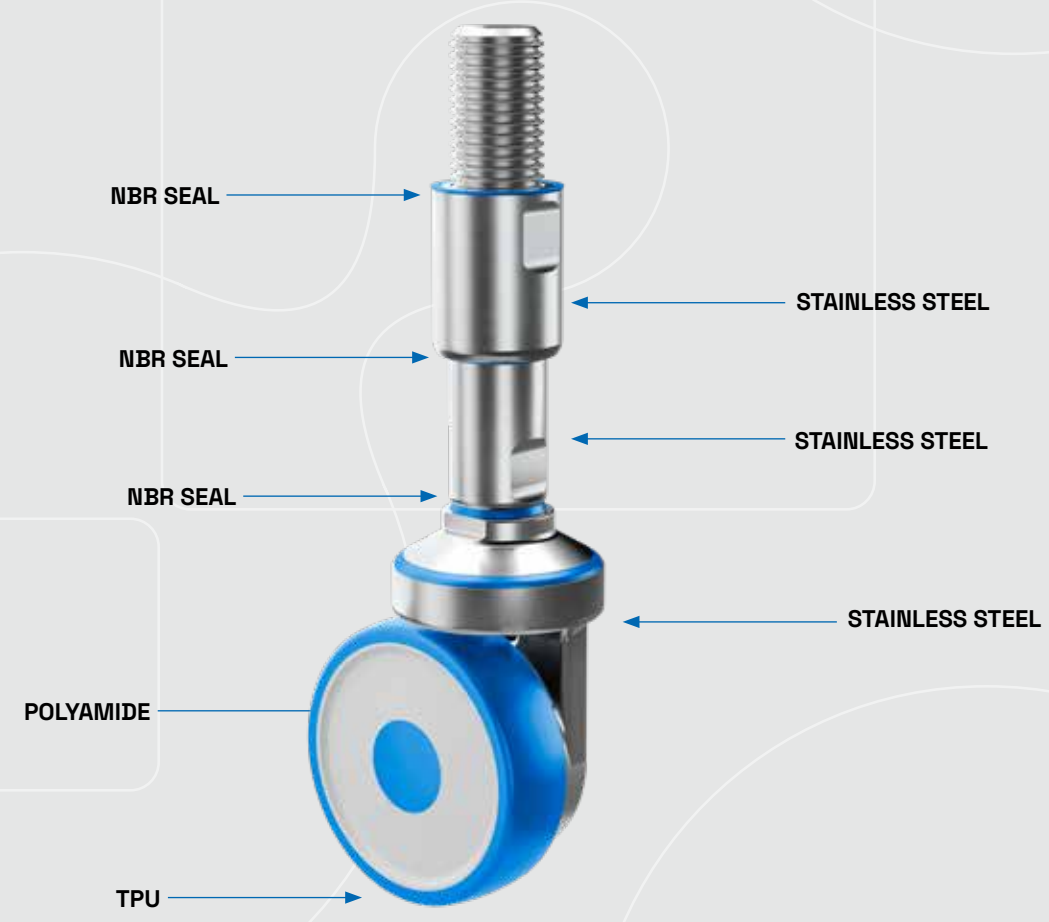


NGI fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentively follow the revisions and amendments to these directives and will design our products accordingly. This ensures that products from NGI are always in compliance with currently valid requirements.

Our product category is not covered by the scope of application of the EC directive for machinery. For this reason, they cannot be furnished with the CE marking in accordance with the EC directive for machinery.

Furthermore, we declare that the listed materials applied in our products comply with the demands for materials used within the food and pharmaceutical industries.

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

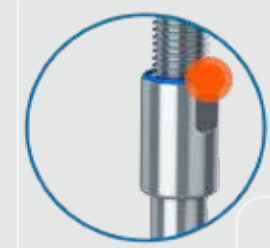


Declaration of conformity Hygienic castors



The declaration of materials concerns the following Applications

Application: Material type:	Steel spindle and sleeve Stainless steel, AISI 304/A2 (X5CrNi18-10), Euro norm 1.4301. By request: Stainless steel, AISI 316/A4 (X 5 CrNiMo 17 12 2), Euronorm 1.4401
Compliance:	EN 10204 Type 2.2. NGI A/S states that the product is in compliance with the order with indication of results of nonspecific inspection. NGI A/S has got EN 10204 type 3.1 inspection certificates on all material used in the products but not specified for each castor.
Application: Material type steel parts:	Castor Body: Stainless steel, AISI 304/A2, Euronorm 1.4301
Compliance:	EN 12532:1999 Tested and verified according to EN 12527:1999 NGI states that the parts are in compliance with ISO 9628: 1992. EN 10204 Type 2.2. NGI A/S states that the product is in compliance with the order with indication of results of nonspecific inspection. NGI has got EN 10204 type 3.1 inspection certificates on all material used in the products but not specified for each castor.
Application: Wheel rim: Wheel thread: Compliance: RoHS2:	Rolling wheel PA, RAL 9010 (white) TPU, RAL 5010 (blue) Tested and verified according to EN 12527:1999 In accordance with the Directive 2011/65/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.
European Community:	"Materials and articles to come in contact with food" - 1935:2004/EC "Plastic materials and articles intended to come in contact with food" - 10:2011/EC
Application: Material type: Color: Hardness: Range of temperature:	Sealing ring between steel components for NGI's castors. NBR (NNF-75) Blue 72 ± 3 Shore A DIN 53 505 Min -35°C to Max +110°C
Compliance: REACH:	In accordance with regulation EC 1907/2006. Do not contain any substances above 0.1% (w/w) from: The Candidate List of Substances of Very High Concern (16.01.2020). Annex XVII (19-11-2019)
RoHS 2 & RoHS 3	In accordance with the directive 2011/65/EC and 2015/863/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.
ADI free:	Does not contain any substances originating from humans or animals.
Bisphenols: ODS:	Does not contain Bisphenols as described in 1895/2005/EEC. Nor BPA, BADGA, BFDGE or NOGE. Does not contain ozone depleting substances. In accordance with the Regulation EC 1005/2009 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 16 SEPTEMBER 2009 and Regulation EC 2037/2000 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 29 JUNE 2000.
Conflict Materials:	In accordance with US Law: "Dodd Frank Wall Street Reform & Consumer Protection Act", sec. 1502, of 21.07.2010.
GMP:	Good manufacturing process in accordance with 2023/2006 EC.
Hazardous materials:	Does not contain any hazardous substances as described in the Hong Kong International Convention for the Safe and Environmental. Sound Recycling of ships, 2009.
Phthalates: FDA:	Does not contain phthalates. Guideline 21 CFR 177.2600



This certification is based on relevant information supplied by the material manufacturers

Fully-threaded Levelling feet

The optimal fully-threaded choice for machinery and equipment in diverse production environments

They offer value-for-money and are available in numerous varieties and functions



Fully-threaded levelling feet

The product group of fully-threaded levelling feet is the optimal choice for machinery and equipment in diverse production environments. Because of the wide variety and functionality these fully-threaded levelling feet offer great value-for-money and for the majority of the models a hygienic-oriented design because of the self-draining surfaces.

The reliability of the fully-threaded levelling feet has been appreciated by customers world-wide for more than 25 years and the current product portfolio is a result of a continuous innovative approach and market feedback.

Product Group Features

- Design and patent protected
- Wide variety in footplate design and functionality
- Unlimited customized height variations
- Several thousand different variations (weight load, height-adjustment, flexible mounting parts)
- Fully-threaded hygienic oriented levelling feet with self-draining surfaces and limited cleaning effort
- Vulcanized FDA-approved, anti-vibration, anti-slip rubber blocks out bacteria underneath the footplate
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401
- Low-friction washer between spindle and footplate ensures easy adjustment
- Bolts, nuts, washers, welding plates and plastic bushings can be supplied



HX

Special Features

- Weight load up to 70.000 N
- Hygienic-oriented design due to self-draining surfaces
- Admits up to 10° slope on floors and equipment
- Optional fixing to the floor

158



DECLARATION OF CONFORMITY

This declaration of conformity lists all the directives and standards that NGI adheres to. This ensures that products from NGI are always in compliance with currently valid requirements.

170



HXT

Special Features

- Weight load up to 70.000 N
- Hygienic oriented design due to self-draining surfaces
- The footplate and spindle are two separate parts
- Diametrically centered elevation on the footplate
- Admits up to 15° slope on floors and equipment
- Optional fixing to the floor

162



M

Special Features

- Weight load up to 50.000 N
- Footplate diameters minimum 40 mm – maximum 180 mm
- Admits up to 5° slope on floors and equipment
- Optional single or double fixing to the floor

164



Accessories for fully-threaded levelling feet

NGI is able to deliver all necessary accessories, which ensures a quick and easy installation of the levelling foot. In addition to supplying standardized accessories we are also able to supply customized accessories.

Visit our website to learn more
uk.ngi-global.com/products/fully-threaded-levelling-feet/fully-threaded



NUTS & WASHERS

- Stainless steel AISI 304/A2, 1.4301
- Standard nuts (DIN 934)
- Standard counter nuts (DIN 439)
- Standard flat washers (DIN 125)
- Standard fender washers (DIN 9010)
- All dimensions available

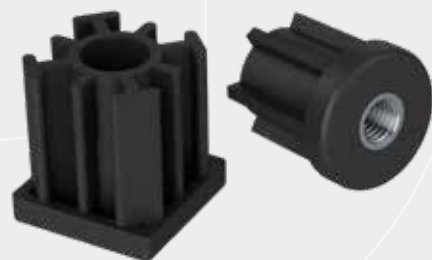
318



WELDING PLATES

- Stainless steel AISI 304/A2, 1.4301
- Squared welding plates
- Round welding plates
- All dimensions available

322



PLASTIC BUSHINGS

- Squared plastic bushings
- Round plastic bushings
- Many dimensions available

324

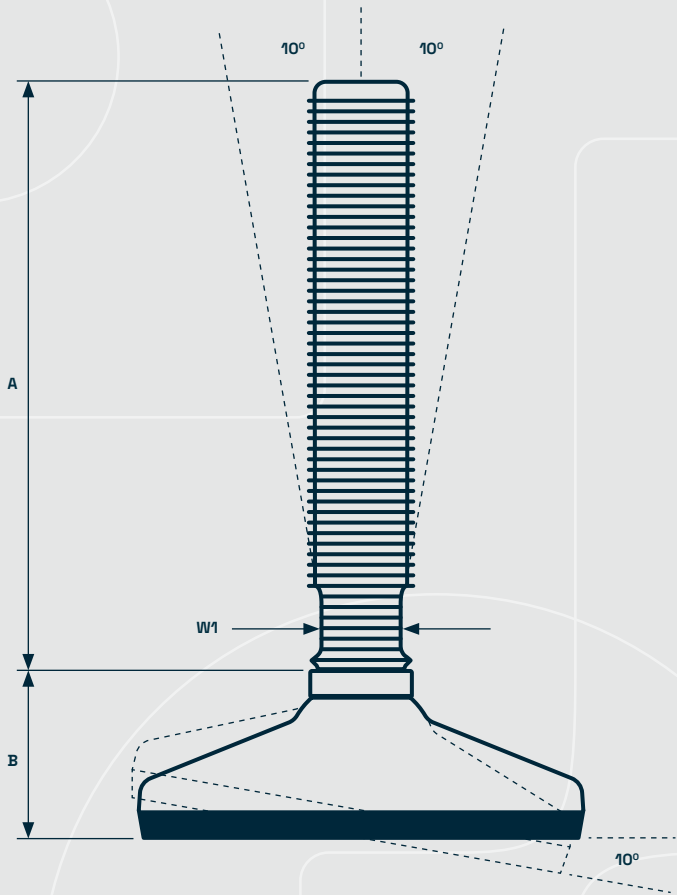
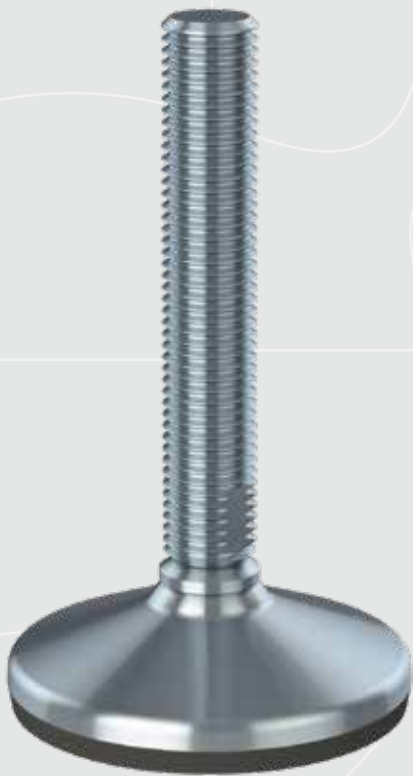
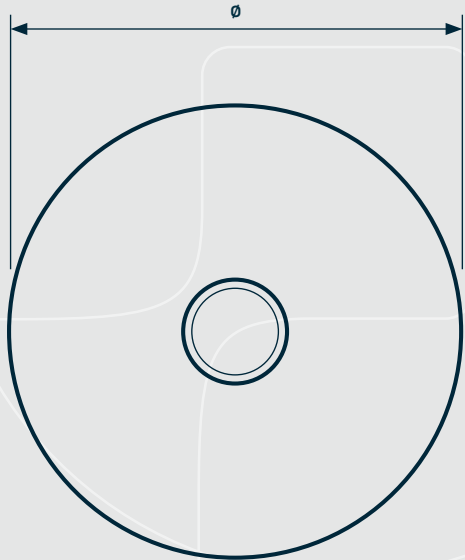


Fully-threaded levelling feet - HX

The design and patent protected HX fully-threaded levelling foot is the optimal choice for machinery and equipment in diverse production environments.

Minimum cleaning effort is obtained by the design of the self-draining surfaces.

Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.



Fully-threaded levelling feet - HX



FOOT PLATE



SPINDLE



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	HX065 - 12 - 50

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
65	65	34	9.000	HX065
80	80	39	15.000	HX080
105	105	39	22.000	HX105
125	125	40	32.000	HX125
150	150	42	65.000	HX150

TYPE ►	50	70	100	150	180	230	310	W1 [mm]
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	[N]	
M12	17.000	17.000	17.000	8.000	5.000	3.000	-	10
M16	-	32.000	32.000	29.000	20.000	12.500	7.500	13
M20	-	49.000	49.000	49.000	48.000	30.000	15.000	17
M24	-	70.000	70.000	70.000	70.000	65.000	35.000	19
* M30	-	112.500	112.500	112.500	112.500	112.500	95.000	24
* M36	-	162.000	162.000	162.000	162.000	162.000	162.000	30
* M42	-	220.000	220.000	220.000	220.000	220.000	220.000	36
HEIGHT A [mm] ►	49	70	97	139	172	223	305	



Total height = A + B
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of height A = +/-1,5 mm

* Adjust A +6 mm and B -6 mm if footplate is combined with spindle M30, M36 or M42

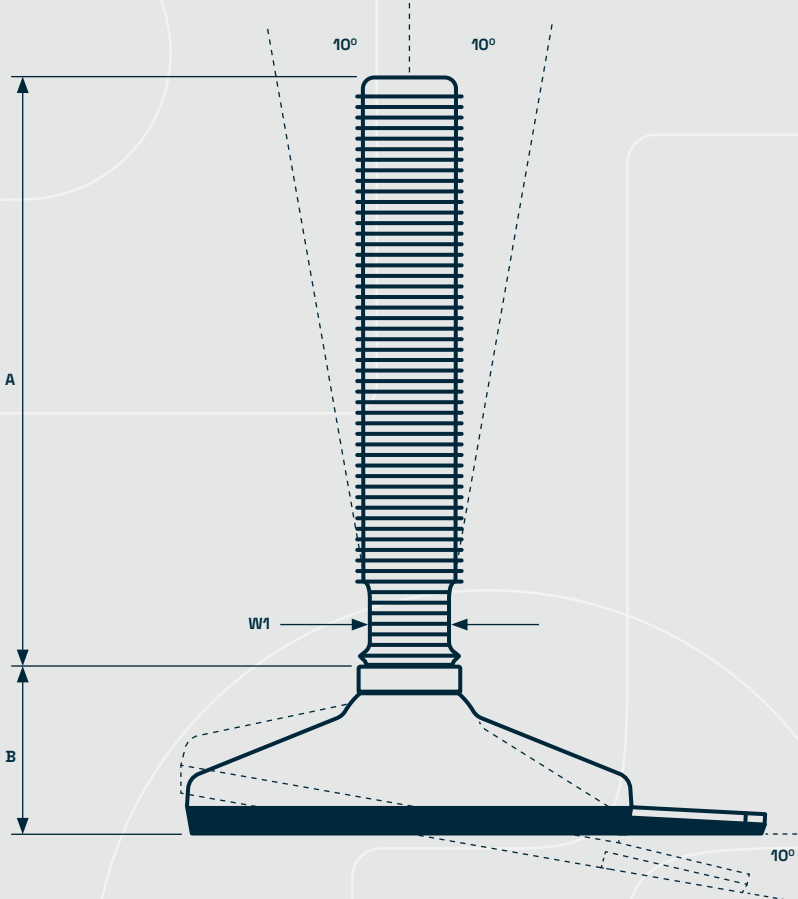
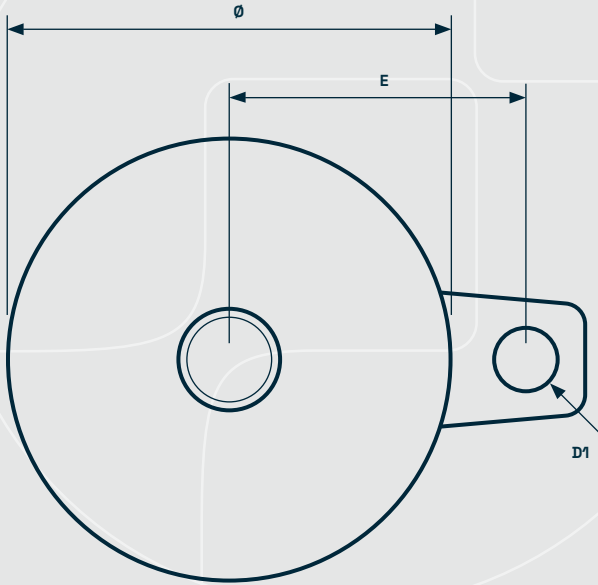
Fully-threaded levelling feet - HX Fixing

The design and patent protected HX Fixing fully-threaded levelling foot is the optimal choice for machinery and equipment in diverse production environments.

The HX Fixing is designed to be fastened to the floor by the fixing plate. Bolt, nut and washer can be supplied.

Minimum cleaning effort is obtained by the design of the self-draining surfaces.

Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

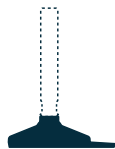


Fully-threaded levelling feet - HX Fixing



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	HX-FIX066 - 12 - 050

FOOT PLATE



TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
66	65	34	46,8	15	9.000	HX-FIX066
81	80	39	53,2	15	15.000	HX-FIX081
106	105	39	70,0	15	22.000	HX-FIX106
126	125	40	80,0	15	32.000	HX-FIX126

SPINDLE



TYPE ▶	50	70	100	150	180	230	310	W1 [mm]
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	[N]	
M12	17.000	17.000	17.000	8.000	5.000	3.000	-	10
M16	-	32.000	32.000	29.000	20.000	12.500	7.500	13
M20	-	49.000	49.000	49.000	48.000	30.000	15.000	17
M24	-	70.000	70.000	70.000	70.000	65.000	35.000	19
* M30	-	112.500	112.500	112.500	112.500	112.500	95.000	24
* M36	-	162.000	162.000	162.000	162.000	162.000	162.000	30
* M42	-	220.000	220.000	220.000	220.000	220.000	220.000	36
HEIGHT A [mm] ▶	49	70	97	139	172	223	305	



Total height = A + B
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of height A = +/-1,5 mm

* Adjust A +6 mm and B -6 mm if footplate is combined with spindle M30, M36 or M42

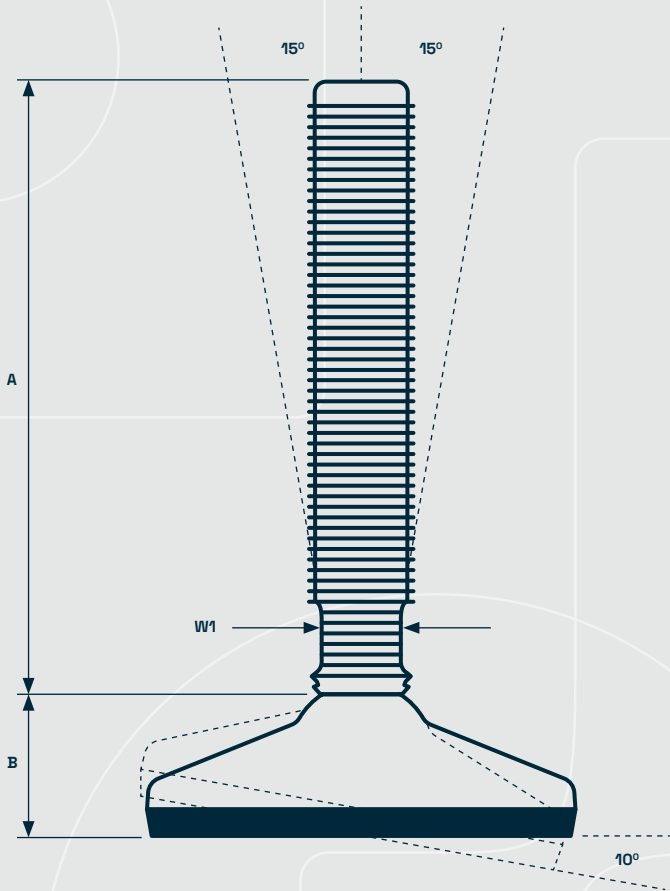
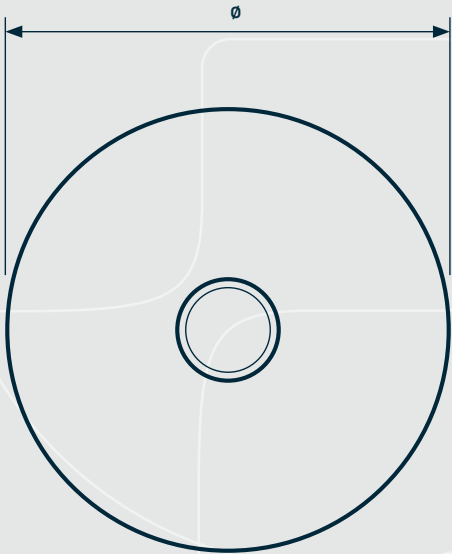
Fully-threaded levelling feet - HXT

The design and patent protected HXT fully-threaded levelling foot is the optimal choice for machinery and equipment in diverse production environments.

The HXT consists of a separated footplate and spindle connected by the diametrically centered elevation on the footplate.

Minimum cleaning effort is obtained by the design of the self-draining surfaces.

Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.



Fully-threaded levelling feet - HXT



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	HXT080 - 20 - 150

FOOT PLATE



TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
80	80	34	15.000	HXT080
105	105	35	22.000	HXT105
125	125	35	32.000	HXT125
150	150	37	65.000	HXT150

SPINDLE



TYPE ▶	70	100	150	180	230	310	W1 [mm]
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	
* M24	70.000	70.000	70.000	70.000	65.000	35.000	19
** M30	112.500	112.500	112.500	112.500	112.500	95.000	24
** M36	-	162.000	162.000	162.000	162.000	162.000	30
** M42	-	220.000	220.000	220.000	220.000	220.000	36
HEIGHT A [mm] ▶	70	100	150	180	230	310	

Total height = A + B
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of height A = +/-1,5 mm

* Adjust A +1 mm and B -1 mm if footplate is combined with spindle M24
** Adjust A +2 mm and B -2 mm if footplate is combined with spindle M30, M36 or M42



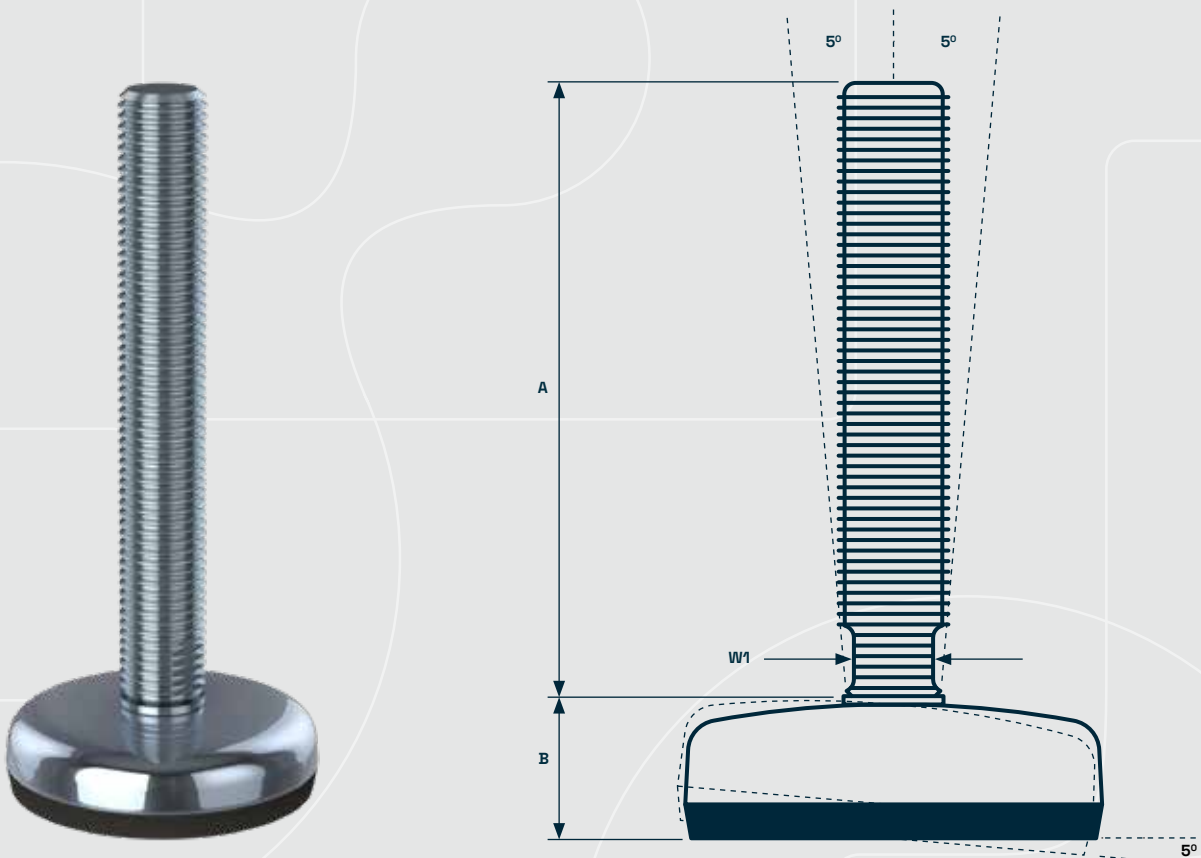
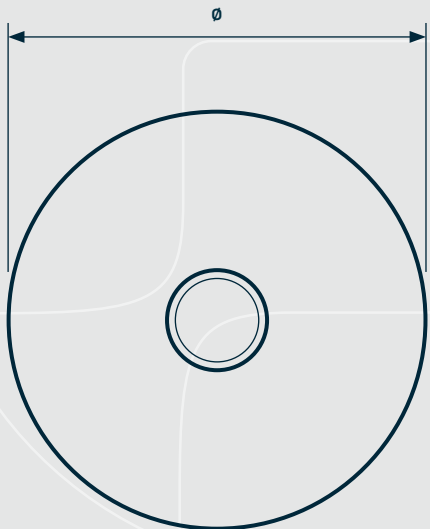
Fully-threaded levelling feet - M

The design and patent protected M fully-threaded levelling foot is the optimal choice for machinery and equipment in diverse production environments.

The wide footplate variety makes the Type M Series applicable to all sizes of machinery and equipment.

Lowered cleaning effort is obtained by the design of the self-draining surfaces.

Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.



Fully-threaded levelling feet - M



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	M040 - 8 - 050

FOOT PLATE



TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
40	40	22	2.500	M040
50	50	23	4.000	M050
75	75	24	10.000	M075
100	100	34	22.000	M100
105	100	32	12.000	M105
125	125	39	30.000	M125
150	150	42	45.000	M150
180	180	42	50.000	M180

SPINDLE



TYPE ▶	50	70	100	150	180	230	310	W1 [mm]
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	[N]	
* M8	3.500	3.500	3.500	1.700	1.200	700	-	6
** M10	3.500	3.500	3.500	3.500	2.000	1.700	-	9
M12	17.000	17.000	17.000	8.000	5.000	3.000	-	10
M16	-	32.000	32.000	29.000	20.000	12.500	7.500	13
M20	-	49.000	49.000	49.000	48.000	30.000	15.000	17
M24	-	70.000	70.000	70.000	70.000	65.000	35.000	19
*** M30	-	112.500	112.500	112.500	112.500	112.500	95.000	24
*** M36	-	162.000	162.000	162.000	162.000	162.000	162.000	30
*** M42	-	220.000	220.000	220.000	220.000	220.000	220.000	36
HEIGHT A [mm] ▶	53	72	106	147	180	230	313	

Total height = A + B
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of height A = +/-1,5 mm



* M8 spindle only supplied for M40 footplate
** M10 spindle not supplied for M100 - M180 footplates
*** M30, M36 and M42 spindle not supplied for M40 and M50 footplates

Fully-threaded levelling feet - M Fixing

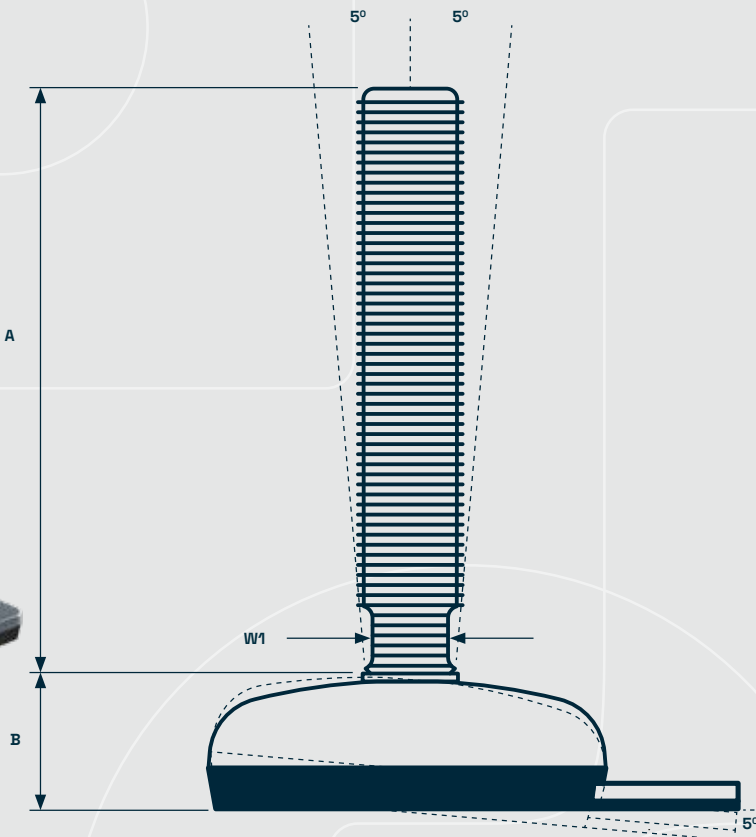
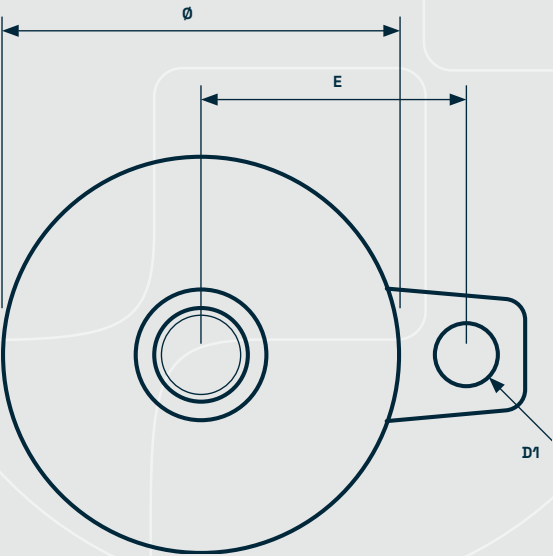
The design and patent protected M Fixing fully-threaded levelling foot is the optimal choice for standardized machinery and equipment in diverse production environments.

The M Fixing is designed to be fastened to the floor by the fixing plate. Bolt, nut and washer can be supplied.

The wide footplate variety makes the Type M Series applicable to all sizes of machinery and equipment.

Lowered cleaning effort is obtained by the design of the self-draining surfaces.

Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

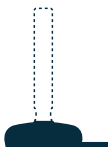


Fully-threaded levelling feet - M Fixing



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	M-FIX076 -10 - 050

FOOT PLATE



TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
76	75	24	52	15	12.000	M-FIX076
106	100	34	67	15	14.000	M-FIX106

SPINDLE



TYPE ▶	50	70	100	150	180	230	310	W1 [mm]
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	[N]	
* M10	3.500	3.500	3.500	3.500	2.000	1.700	-	13
M12	17.000	17.000	17.000	8.000	5.000	3.000	-	10
M16	-	32.000	32.000	29.000	20.000	12.500	7.500	13
M20	-	49.000	49.000	49.000	48.000	30.000	15.000	17
M24	-	70.000	70.000	70.000	70.000	65.000	35.000	19
M30	-	112.500	112.500	112.500	112.500	112.500	95.000	24
M36	-	162.000	162.000	162.000	162.000	162.000	162.000	30
M42	-	220.000	220.000	220.000	220.000	220.000	220.000	36
HEIGHT A [mm] ▶	53	72	106	147	180	230	313	



Total height = A + B
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of height A = +/-1,5 mm

* M10 spindle not supplied for M106 footplate

Fully-threaded levelling feet

- M 2 Fixing

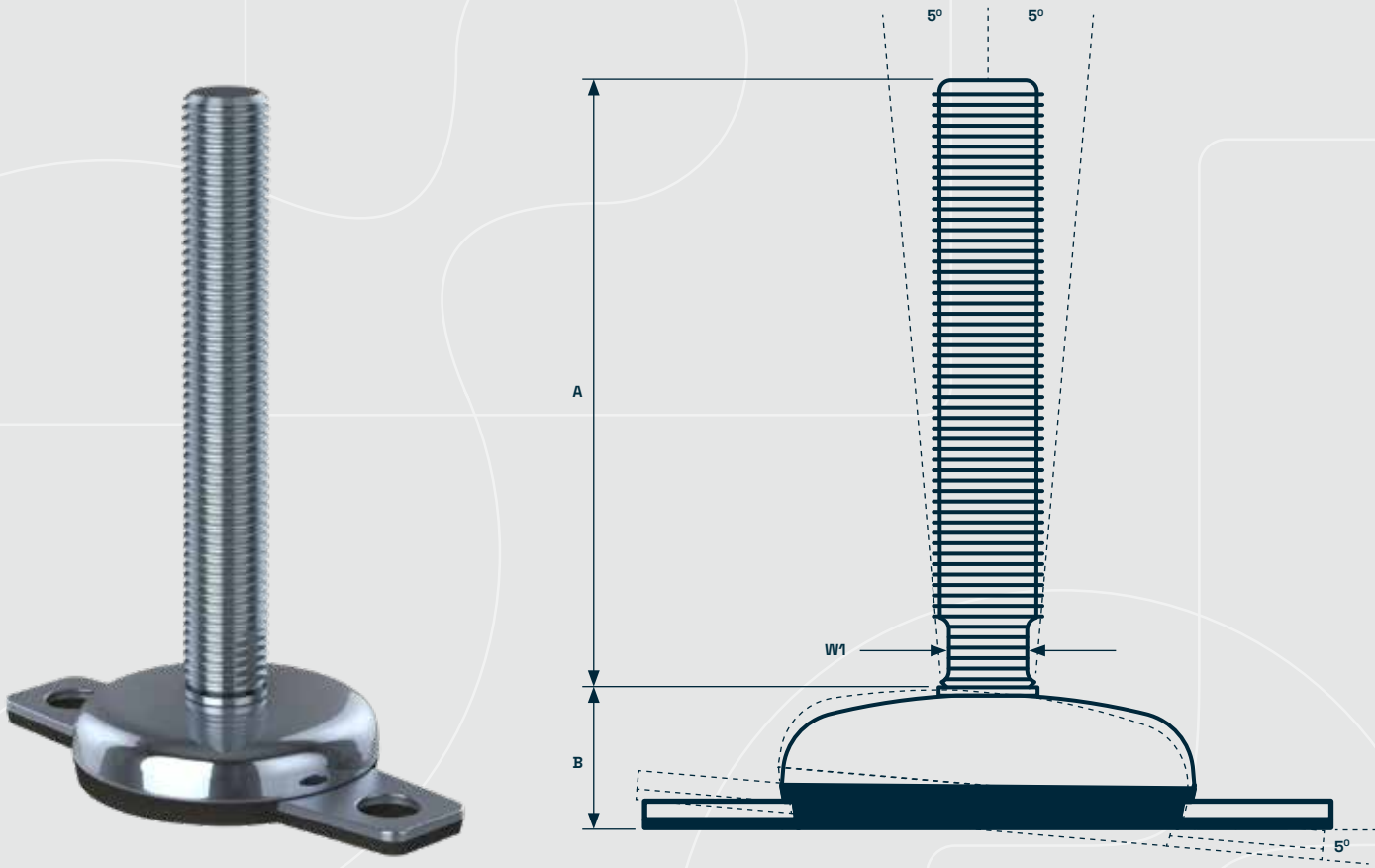
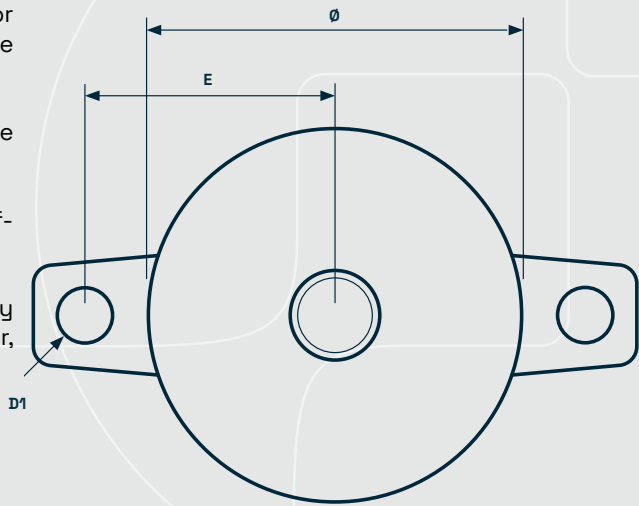
The design and patent protected M Double Fixing fully-threaded levelling foot is the optimal choice for machinery and equipment in diverse production environments.

The M Double Fixing is designed to be fastened to the floor by the two fixing plates. Bolts, nuts and washers can be supplied.

The wide footplate variety makes the Type M Series applicable to all sizes of machinery and equipment.

Lowered cleaning effort is obtained by the design of the self-draining surfaces.

Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

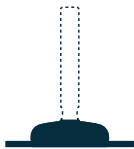


Fully-threaded levelling feet

- M 2 Fixing



FOOT PLATE



SPINDLE



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	M-FIXx2077 -10 - 050

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
77	75	24	52	15	12.000	M-FIXx2077

TYPE ►	50	70	100	150	180	230	310	W1 [mm]
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	[N]	
M10	3.500	3.500	3.500	3.500	2.000	1.700	-	13
M12	17.000	17.000	17.000	8.000	5.000	3.000	-	10
M16	-	32.000	32.000	29.000	20.000	12.500	7.500	13
M20	-	49.000	49.000	49.000	48.000	30.000	15.000	17
M24	-	70.000	70.000	70.000	70.000	65.000	35.000	19
M30	-	112.500	112.500	112.500	112.500	112.500	95.000	24
M36	-	162.000	162.000	162.000	162.000	162.000	162.000	30
M42	-	220.000	220.000	220.000	220.000	220.000	220.000	36
HEIGHT A [mm] ►	53	72	106	147	180	230	313	



Total height
Maximum nominal load
Tolerance of height A

= A + B
= Lowest value for footplate or spindle
= +/-1,5 mm

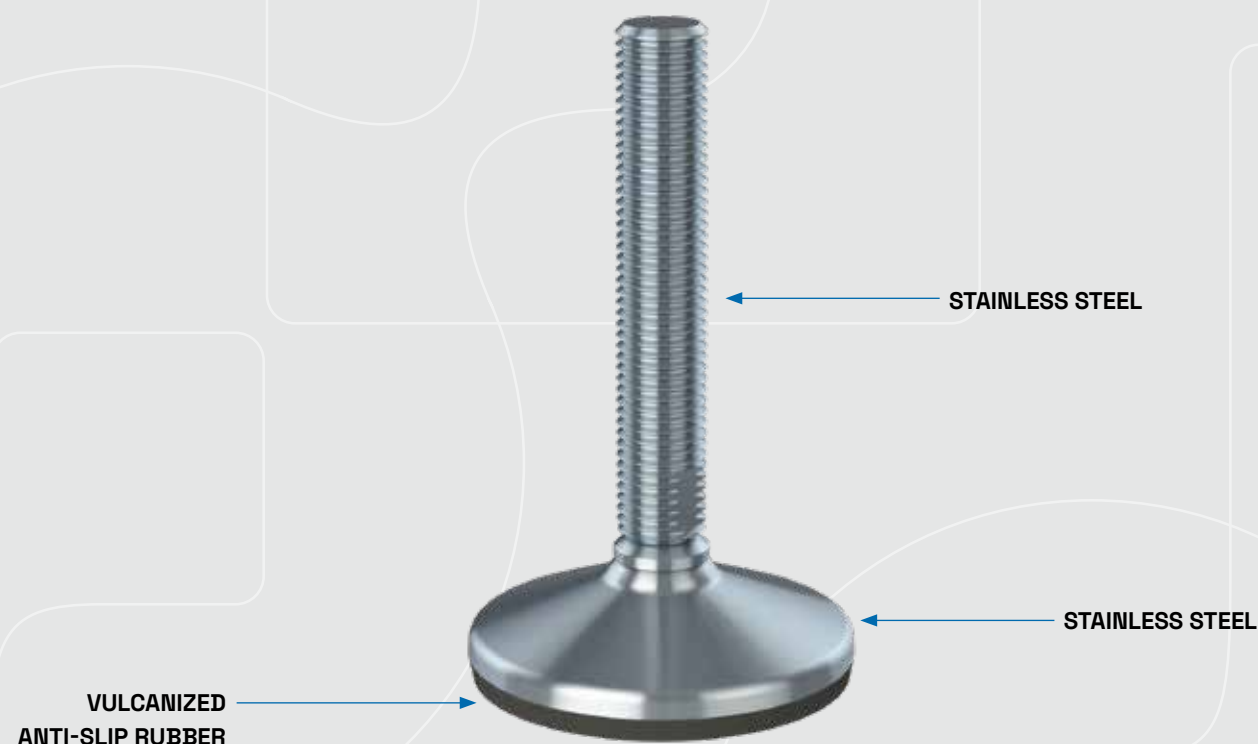
Declaration of conformity Fully-threaded levelling feet



NGI fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentively follow the revisions and amendments to these directives and will design our products accordingly. This ensures that products from NGI are always in compliance with currently valid requirements.

Our product category is not covered by the scope of application of the EC directive for machinery. For this reason, they cannot be furnished with the CE marking in accordance with the EC directive for machinery.

Furthermore, we declare that the listed materials applied in our products comply with the demands for materials used within the food and pharmaceutical industries.



Declaration of conformity Fully-threaded levelling feet

THE DECLARATION OF MATERIALS CONCERNS THE FOLLOWING APPLICATIONS

Application:

Material type:

Compliance:

Steel components, e.g. spindle, sleeve and cover for foot

Stainless steel, AISI 304/A2 (X5CrNi18-10), Euro norm 1.4301.

By request: Stainless steel, AISI 316/A4 (X 5 CrNiMo 17 12 2), Euronorm 1.4401

EN 10204 Type 2.2. NGI A/S states that the product is in compliance with the order with indication of results of nonspecific inspection.

NGI has got EN 10204 type 3.1 inspection certificates on all material used in the products but not specified for each foot.

In the directive 94/9/EC, Equipment for potentially explosive atmospheres, also known as the ATEX directive, equipment without its own potential source of ignition are not covered, nor shall be marked according to the directive. However, NGI levelling feet are suitable for use in all ATEX zones.

Application:

Material type:

Color:

Hardness:

Range of temperature:

Foot base for NGI A/S's hygienic machine feet

NBR (NNF-75)

Black & blue

72 ± 3 Shore A DIN 53 505

Min -35°C to Max +110 °C

Compliance:
REACH:

In accordance with regulation EC 1907/2006.

Do not contain any substances above 0.1% (w/w) from:
The Candidate List of Substances of Very High Concern (16.01.2020).
Annex XVII (19-11-2019)

In accordance with the Directive 2011/65/EC and 2015/863/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 27 JANUARY.

Does not contain any substances originating from humans or animals.

Does not contain bisphenols as described in 1895/2005/EEC. Nor BPA, BADGA, BFDGE or NOGE.

ODS:

Does not contain ozone depleting substances. In accordance with the Regulation EC 1005/2009 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 16 SEPTEMBER 2009 and Regulation EC 2037/2000 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 29 JUNE 2000.

Conflict
Materials:

In accordance with US Law: "Dodd Frank Wall Street Reform & Consumer Protection Act", sec. 1502, of 21.07.2010.

GMP:

Good manufacturing process in accordance with 2023/2006 EC.

Hazardous
Materials:

Does not contain any hazardous substances as described in the Hong Kong International Convention for the Safe and Environmental Sound Recycling of ships, 2009.

Phthalates:
FDA:

Does not contain phthalates.
Guideline 21 CFR 177.2600

Fully-threaded Solid levelling feet

The optimal fully-threaded choice for heavy machinery and equipment in diverse production environments

They offer value-for-money and are available in numerous varieties and functions



Solid fully-threaded levelling feet

The product group of solid fully-threaded levelling feet is the optimal choice for heavy machinery and equipment in diverse production environments. Because of the wide variety and functionality these solid fully-threaded levelling feet offer great value-for-money and for the majority of the models a hygienic-oriented design because of the self-draining surfaces.

The reliability of the solid fully-threaded levelling feet has been appreciated by customers world-wide for more than 25 years and the current product portfolio is a result of a continuous innovative approach and market feedback.

Product Group Features

- Designed for high load and high pull
- Design and patent protected
- Wide variety in footplate design and functionality
- Unlimited customized height variations
- Several thousand different variations (weight load, height-adjustment, flexible mounting parts)
- Solid fully-threaded hygienic oriented levelling feet with self-draining surfaces and limited cleaning effort
- Optional vulcanized FDA-approved, anti-vibration, anti-slip rubber blocks out bacteria underneath the footplate
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401
- Bolts, nuts, washers, welding plates and plastic bushings can be supplied

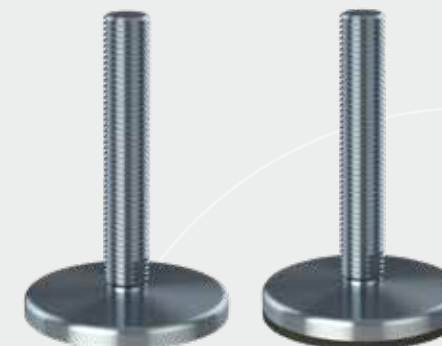


HXG/HXG AS

Special Features

- Footplate diameter Ø105 - Ø125
- Weight load up to 110.000 N
- Hygienic-oriented design due to self-draining surfaces
- Admits up to 9° slope on floors and equipment
- Optional vulcanized, FDA-approved, anti-vibration, anti-slip rubber

180

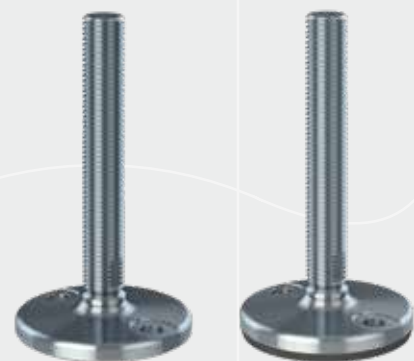


KG/KG AS

Special Features

- Footplate diameter Ø90 - Ø180
- Weight load up to 120.000 N
- Admits up to 8° slope on floors and equipment
- Optional anti-vibration and anti-slip rubber

186

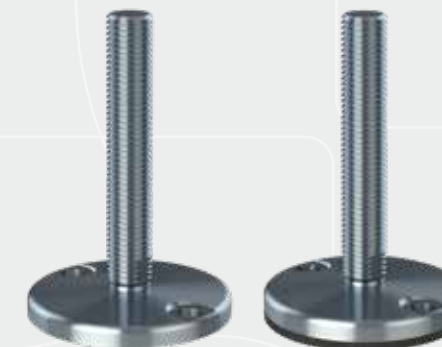


HXJ/HXJ AS

Special Features

- Footplate diameter Ø105 - Ø125
- Weight load up to 110.000 N
- Hygienic-oriented design due to self-draining surfaces
- Admits up to 9° slope on floors and equipment
- Fixing to the floor
- Optional vulcanized, FDA-approved, anti-vibration, anti-slip rubber

182

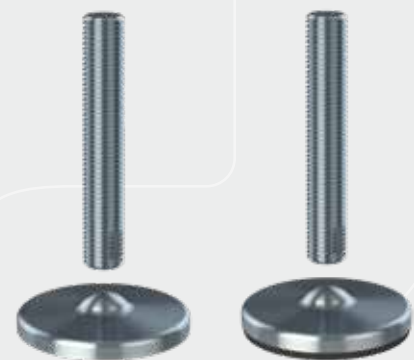


KJ/KJ AS

Special Features

- Footplate diameter Ø90 - Ø180
- Weight load up to 120.000 N
- Admits up to 8° slope on floors and equipment
- Fixing to the floor
- Optional anti-vibration and anti-slip rubber

188

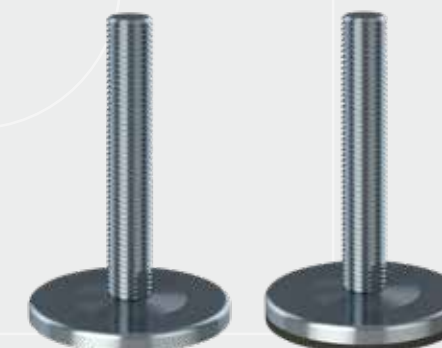


HXGT/HXGT AS

Special Features

- Footplate diameter Ø105 - Ø125
- Weight load up to 110.000 N
- Hygienic-oriented design due to self-draining surfaces
- The footplate and spindle are two separate parts
- Diametrically centered elevation on the footplate
- Admits up to 15° slope on floors and equipment
- Optional vulcanized, FDA-approved, anti-vibration, anti-slip rubber

184



G/G AS

Special Features

- Footplate diameter Ø90 - Ø180
- Weight load up to 120.000 N
- Admits up to 1° slope on floors and equipment
- Optional anti-vibration and anti-slip rubber

190

Solid fully-threaded levelling feet

The product group of solid fully-threaded levelling feet is the optimal choice for heavy machinery and equipment in diverse production environments. Because of the wide variety and functionality these solid fully-threaded levelling feet offer great value-for-money and for the majority of the models a hygienic-oriented design because of the self-draining surfaces.

The reliability of the solid fully-threaded levelling feet has been appreciated by customers world-wide for more than 25 years and the current product portfolio is a result of a continuous innovative approach and market feedback.

Product Group Features

- Designed for high load and high pull
- Design and patent protected
- Wide variety in footplate design and functionality
- Unlimited customized height variations
- Several thousand different variations (weight load, height-adjustment, flexible mounting parts)
- Solid fully-threaded hygienic oriented levelling feet with self-draining surfaces and limited cleaning effort
- Optional vulcanized FDA-approved, anti-vibration, anti-slip rubber blocks out bacteria underneath the footplate
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401
- Low-friction washer between spindle and footplate ensures easy adjustment
- Bolts, nuts, washers, welding plates and plastic bushings can be supplied

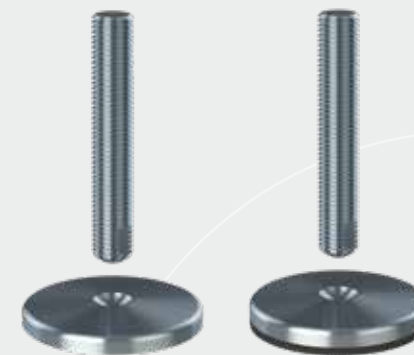


J/J AS

Special Features

- Footplate diameter Ø90 - Ø180
- Weight load up to 120.000 N
- Admits up to 1° slope on floors and equipment
- Fixing to the floor
- Optional anti-vibration and anti-slip rubber

192

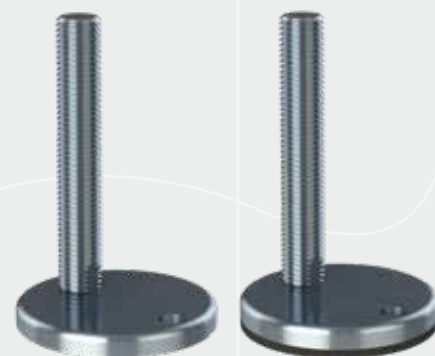


KT/KT AS

Special Features

- Footplate diameter Ø90 - Ø180
- Weight load up to 200.000 N
- The footplate and spindle are two separate parts
- Diametrically centered depression in the footplate
- Admits up to 20° slope on floors and equipment
- Optional anti-vibration and anti-slip rubber

198



CF/CF AS

Special Features

- Footplate diameter Ø110 - Ø180
- Weight load up to 120.000 N
- Decentered spindle in the footplate
- Admits up to 1° slope on floors and equipment
- Fixing to the floor
- Optional anti-vibration and anti-slip rubber

194



DECLARATION OF CONFORMITY

This declaration of conformity lists all the directives and standards that NGI adheres to. This ensures that products from NGI are always in compliance with currently valid requirements.

200



KCF/KCF AS

Special Features

- Footplate diameter Ø110
- Weight load up to 100.000 N
- Decentered spindle in the footplate
- Admits up to 8° slope on floors and equipment
- Fixing to the floor
- Optional anti-vibration and anti-slip rubber

196

Accessories for solid fully-threaded levelling feet

NGI is able to deliver all necessary accessories, which ensures a quick and easy installation of the levelling foot. In addition to supplying standardized accessories we are also able to supply customized accessories.

Visit our website to learn more
uk.ngi-global.com/products/fully-threaded-levelling-feet/solid-fully-threaded



NUTS & WASHERS

- Stainless steel AISI 304/A2, 1.4301
- Standard nuts (DIN 934)
- Standard counter nuts (DIN 439)
- Standard flat washers (DIN 125)
- Standard fender washers (DIN 9010)
- All dimensions available

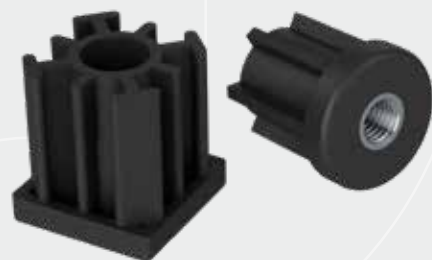
318



WELDING PLATES

- Stainless steel AISI 304/A2, 1.4301
- Squared welding plates
- Round welding plates
- All dimensions available

322



PLASTIC BUSHINGS

- Squared plastic bushings
- Round plastic bushings
- Many dimensions available

324



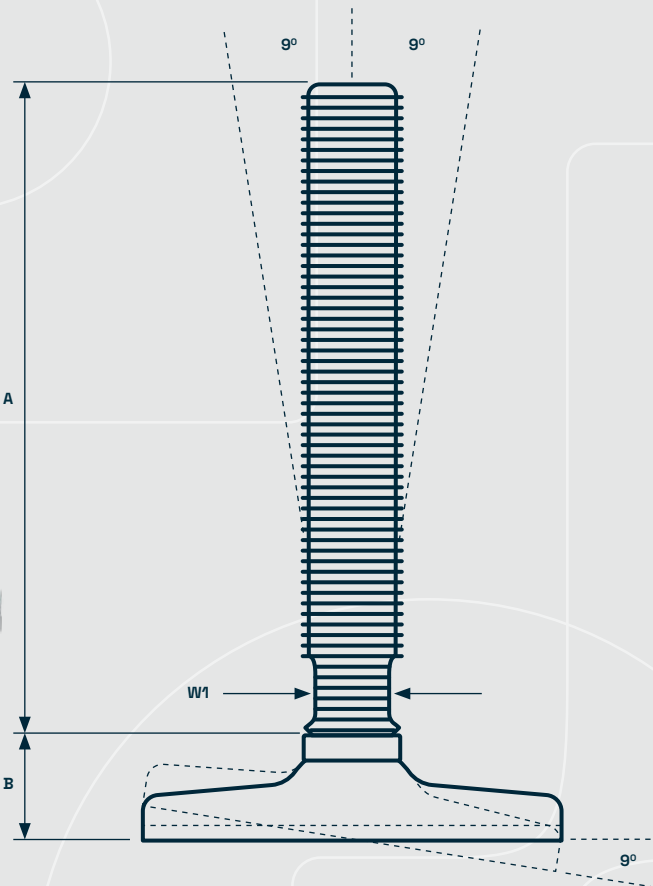
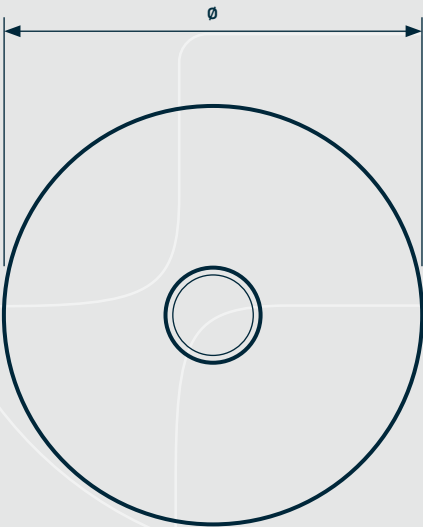
Solid fully-threaded levelling feet - HXG/HXG AS

The design and patent protected solid HXG and HXG AS levelling foot is the optimal choice for heavy machinery and equipment in diverse production environments and the most hygienic solid fully-threaded levelling foot.

Reduced cleaning effort is obtained by the hygienic-oriented design with self-draining surfaces.

The joined connection between the spindle and the footplate is designed for high load and high pull, and the low-friction washer between the spindle and footplate ensures easy adjustment under high pressure.

The HXG AS is supplied with vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate and creates a hygienic seal to the floor.



Solid fully-threaded levelling feet - HXG/HXG AS



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	HXG105 -16 - 70

FOOT PLATE



TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
80	79	26	110.000	HXG080
80AS	79	31	110.000	HXG-AS080
105	104	26	110.000	HXG105
105AS	104	31	55.000	HXG-AS105
125	124	26	110.000	HXG125
125AS	124	31	110.000	HXG-AS125
150	149	26	110.000	HXG150
150AS	149	31	110.000	HXG-AS150

SPINDLE



TYPE ▶	70	100	150	180	230	310	W1 [mm]
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	
M16	32.000	32.000	29.000	20.000	12.500	7.500	13
M20	49.000	49.000	49.000	48.000	30.000	15.000	17
M24	-	70.000	70.000	70.000	65.000	35.000	19
* M30	-	112.500	112.500	112.500	112.500	95.000	24
* M36	-	162.000	162.000	162.000	162.000	162.000	30
* M42	-	220.000	220.000	220.000	220.000	220.000	36
HEIGHT ▶ A [mm]	73	107	162	195	244	327	



Total height = A + B
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of height A = +/-1,5 mm
AS = Anti-Slip

* Adjust A +4 mm and B -4 mm if footplate is combined with spindle M30, M36 or M42

Solid fully-threaded levelling feet - HXJ/HXJ AS

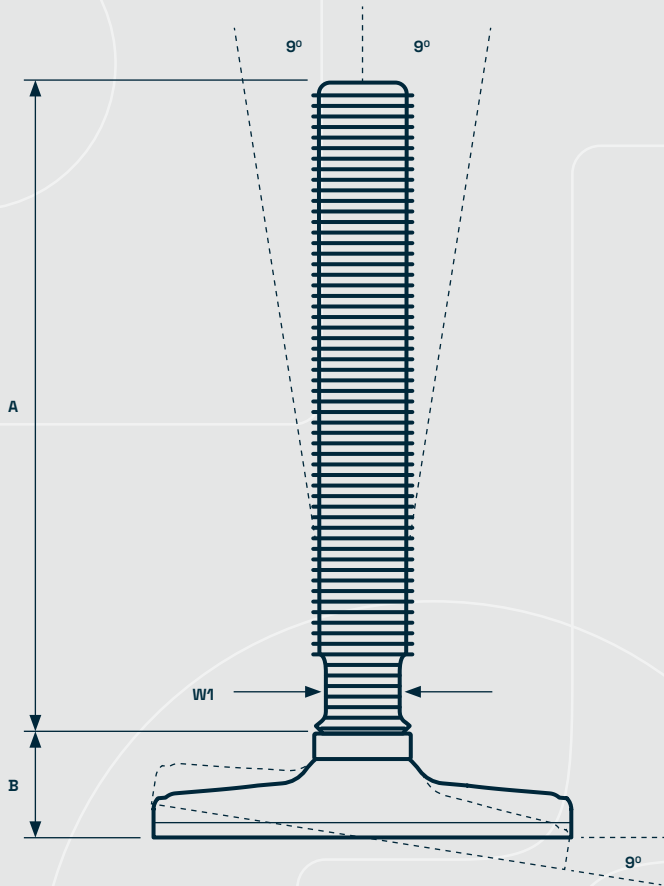
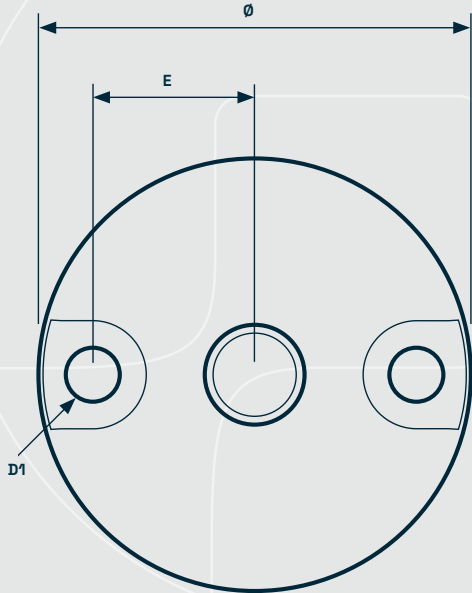
The design and patent protected solid HXJ and HXJ AS levelling foot is the optimal choice for heavy machinery and equipment in diverse production environments.

Reduced cleaning effort is obtained by the hygienic-oriented design with self-draining surfaces.

It is the most hygienic solid fully-threaded levelling foot that can be fastened to the floor by the two fixing holes in the footplate. Bolts, nuts and washers can be supplied.

The joined connection between the spindle and the footplate is designed for high load and high pull, and the low-friction washer between the spindle and footplate ensures easy adjustment under high pressure.

The HXJ AS is supplied with vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate and creates a hygienic seal to the floor.



Solid fully-threaded levelling feet - HXJ/HXJ AS



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	HXJ105 -16 - 70

FOOT PLATE



TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
80	79	26	29	8,40	110.000	HXJ080
80AS	79	31	29	8,40	35.000	HXJ-AS080
105	104	26	38	13	110.000	HXJ105
105AS	104	31	38	13	55.000	HXJ-AS105
125	124	26	47	13	110.000	HXJ125
125AS	124	31	47	13	110.000	HXJ-AS125
150	149	26	62	13	110.000	HXJ150
150AS	149	31	62	13	110.000	HXJ-AS150

SPINDLE



TYPE ▶	70	100	150	180	230	310	W1 [mm]
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	
M16	32.000	32.000	29.000	20.000	12.500	7.500	13
M20	49.000	49.000	49.000	48.000	30.000	15.000	17
M24	-	70.000	70.000	70.000	65.000	35.000	19
* M30	-	112.500	112.500	112.500	112.500	95.000	24
* M36	-	162.000	162.000	162.000	162.000	162.000	30
* M42	-	220.000	220.000	220.000	220.000	220.000	36
HEIGHT A [mm] ▶	73	107	160	195	244	327	



Total height = A + B
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of height A = +/-1,5 mm
AS = Anti-Slip

* Adjust A +4 mm and B -4 mm if footplate is combined with spindle M30, M36 or M42

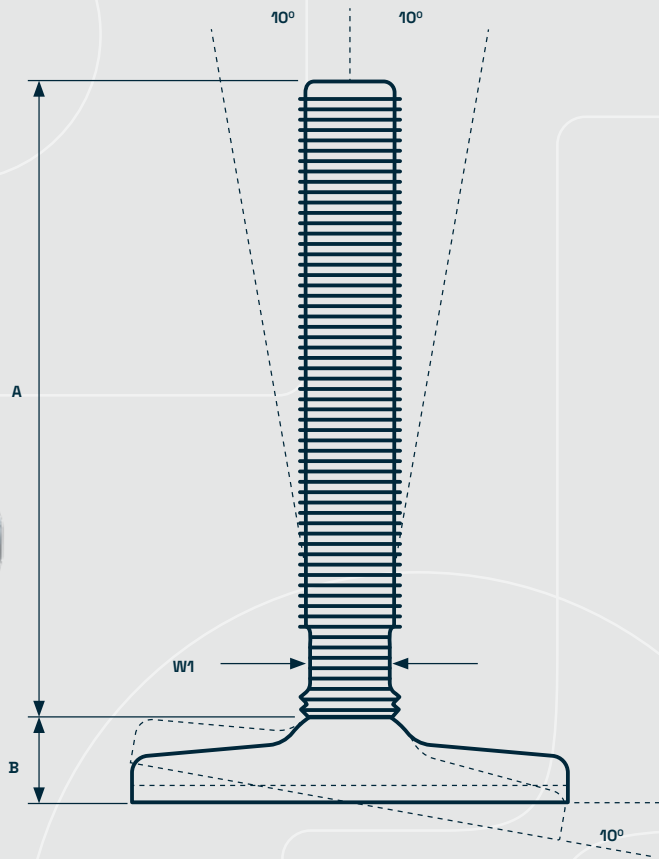
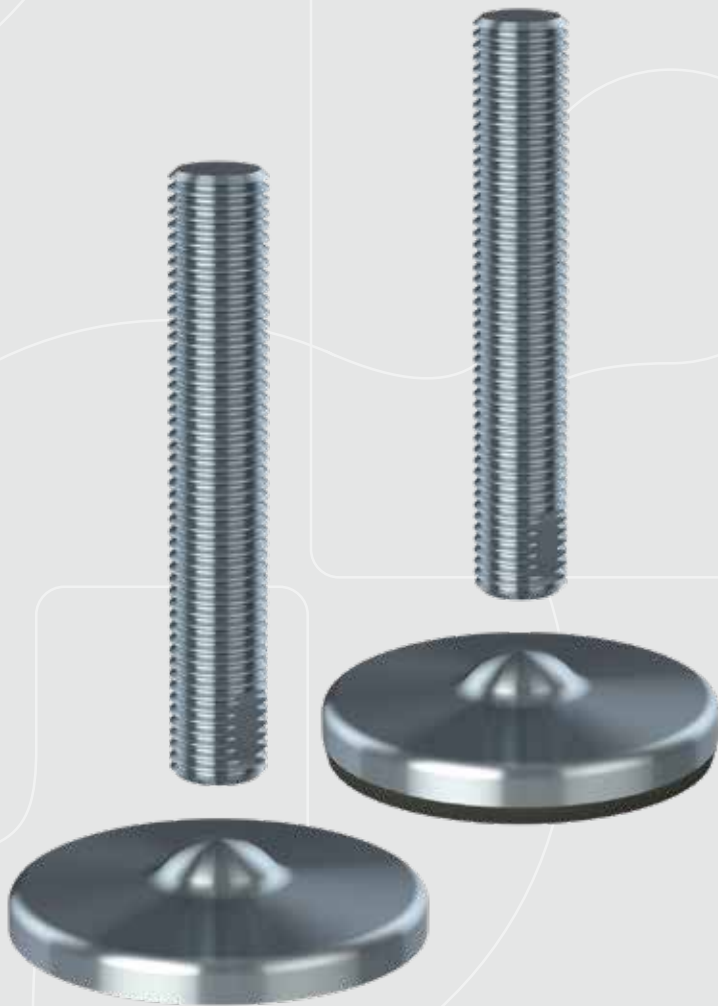
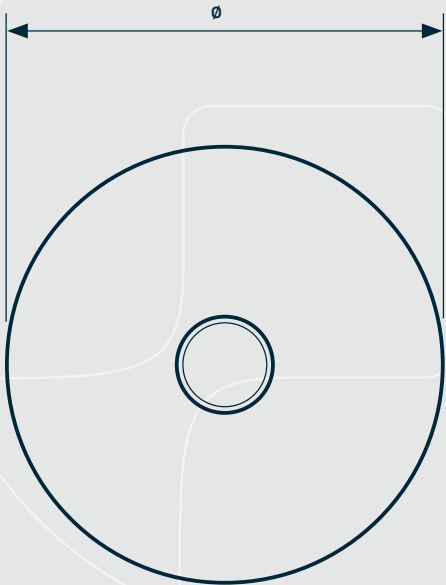
Solid fully-threaded levelling feet - HXGT/HXGT AS

The design and patent protected solid HXGT and HXGT AS levelling foot is the optimal choice for heavy machinery and equipment in diverse production environments and the most hygienic solid fully-threaded levelling foot.

The HXGT and HXGT AS consist of a separated footplate and spindle connected by the diametrically centered elevation on the footplate.

Reduced cleaning effort is obtained by the hygienic-oriented design with self-draining surfaces.

The HXGT AS is supplied with vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate and creates a hygienic seal to the floor.



Solid fully-threaded levelling feet - HXGT/HXGT AS



FOOT PLATE



SPINDLE



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	HXGT105 -24 - 70

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
80	79	21	110.000	HXGT080
80AS	79	26	35.000	HXGT-AS080
105	104	21	110.000	HXGT105
105AS	104	26	55.000	HXGT-AS105
125	124	21	110.000	HXGT125
125AS	124	26	110.000	HXGT-AS125
150	149	21	110.000	HXGT150
150AS	149	26	110.000	HXGT-AS150

TYPE ▶	70	100	150	180	230	310	W1
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	[mm]
* M24	70.000	70.000	70.000	70.000	65.000	35.000	19
** M30	112.500	112.500	112.500	112.500	112.500	95.000	24
** M36	-	162.000	162.000	162.000	162.000	162.000	30
** M42	-	220.000	220.000	220.000	220.000	220.000	36
HEIGHT A [mm] ▶	70	100	150	180	230	310	



Total height = A + B
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of height A = +/-1,5 mm
AS = Anti-Slip

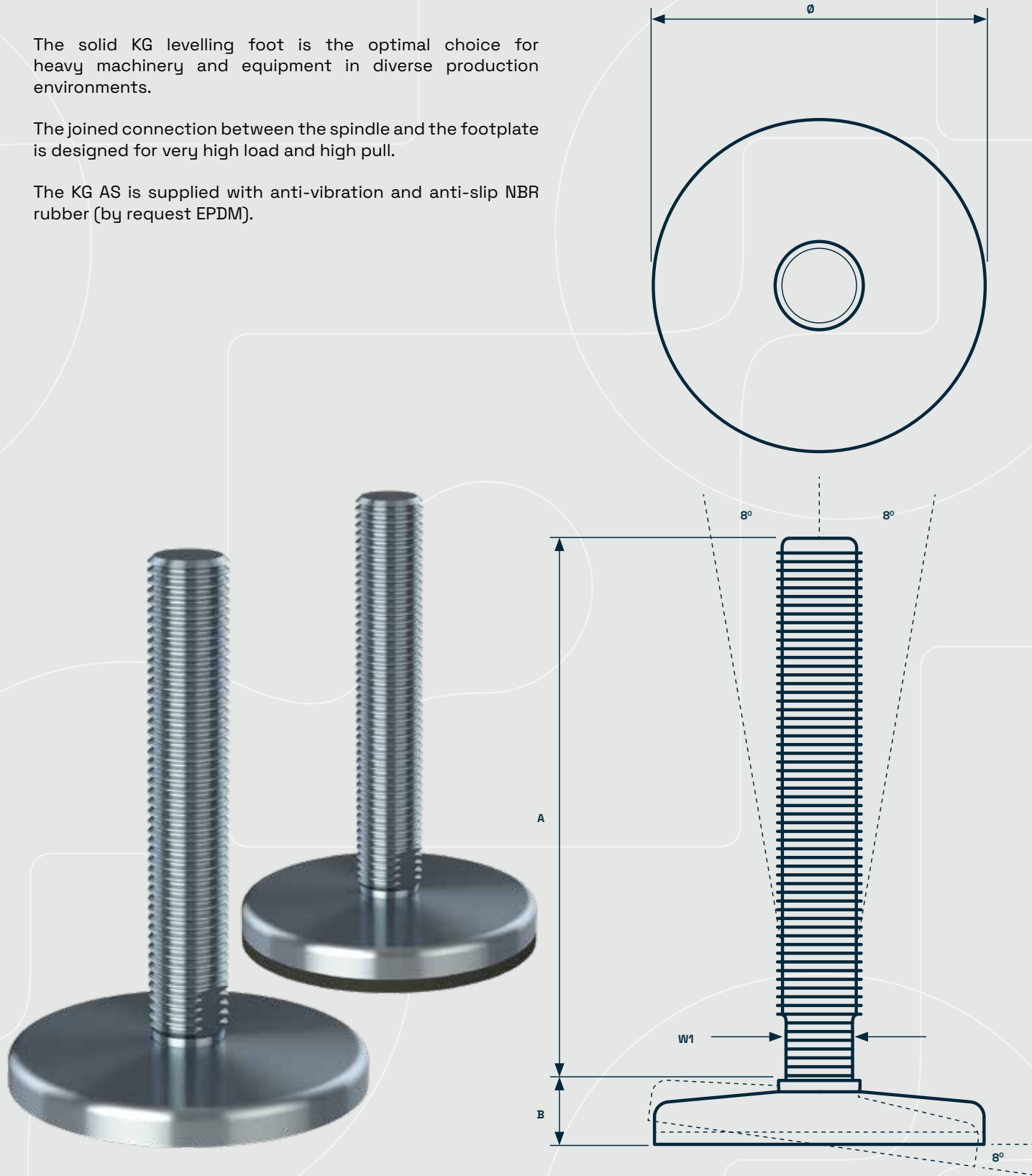
* Adjust A +1 mm and B -1 mm if footplate is combined with spindle M24
** Adjust A +2 mm and B -2 mm if footplate is combined with spindle M30, M36 or M42

Solid fully-threaded levelling feet - KG/KG AS

The solid KG levelling foot is the optimal choice for heavy machinery and equipment in diverse production environments.

The joined connection between the spindle and the footplate is designed for very high load and high pull.

The KG AS is supplied with anti-vibration and anti-slip NBR rubber (by request EPDM).



Solid fully-threaded levelling feet - KG/KG AS



FOOT PLATE



SPINDLE



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	KG090 - 12 - 70

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
90	89	17	70.000	KG090
90AS	89	22	70.000	KG-AS090
110	109	17	70.000	KG110
110AS	109	22	70.000	KG-AS110
150	149	19	120.000	KG150
150AS	149	24	120.000	KG-AS150
180	179	20	120.000	KG180
180AS	179	25	120.000	KG-AS180

TYPE ▶	70	100	150	180	230	310	W1
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	[mm]
* M12	17.000	17.000	8.000	5.000	3.000	-	10
M16	-	32.000	29.000	20.000	12.500	7.500	13
M20	-	49.000	49.000	48.000	30.000	15.000	17
** M24	-	70.000	70.000	70.000	65.000	35.000	19
** M30	-	112.500	112.500	112.500	112.500	95.000	24
** M36	-	162.000	162.000	162.000	162.000	162.000	30
** M42	-	220.000	220.000	220.000	220.000	220.000	36
HEIGHT A [mm]	70	102	144	177	227	310	

Total height = A + B
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of height A = +/-1,5 mm
AS = Anti-Slip

* M12 spindle not supplied for KG150 and KG180 footplates
** Adjust A -2 mm and B +2 mm if footplate is combined with spindle M24, M30, M36 or M42



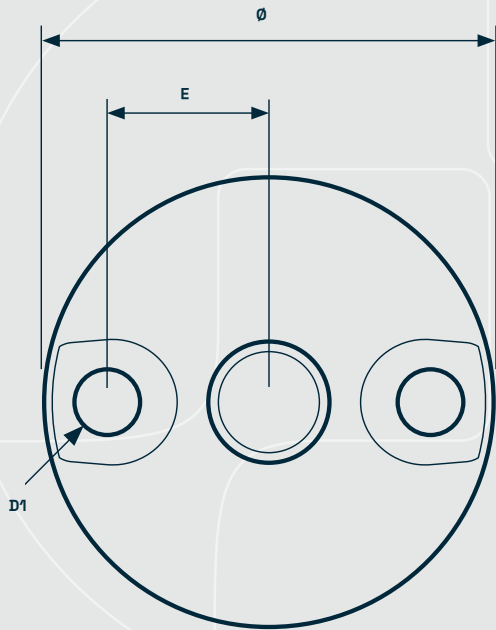
Solid fully-threaded levelling feet - KJ/KJ AS

The solid KJ levelling foot is the optimal choice for heavy machinery and equipment in diverse production environments.

The foot can be fastened to the floor by the two fixing holes in the footplate. Bolts, nuts and washers can be supplied.

The joined connection between the spindle and the footplate is designed for very high load and high pull.

The KJ AS is supplied with anti-vibration and anti-slip NBR rubber (by request EPDM).



Solid fully-threaded levelling feet - KJ/KJ AS



FOOT PLATE



SPINDLE



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	KJ090 - 12 - 70

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
90	89	17	32	13	70.000	KJ090
90AS	89	22	32	13	70.000	KJ-AS090
110	109	17	44	13	70.000	KJ110
110AS	109	22	44	13	70.000	KJ-AS110
150	149	19	62	16	120.000	KJ150
150AS	149	24	62	16	120.000	KJ-AS150
180	179	20	74	16	120.000	KJ180
180AS	179	25	74	16	120.000	KJ-AS180

TYPE ▶	70	100	150	180	230	310	W1 [mm]
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	
* M12	17.000	17.000	8.000	5.000	3.000	-	10
M16	-	32.000	29.000	20.000	12.500	7.500	13
M20	-	49.000	49.000	48.000	30.000	15.000	17
** M24	-	70.000	70.000	70.000	65.000	35.000	19
** M30	-	112.500	112.500	112.500	112.500	95.000	24
** M36	-	162.000	162.000	162.000	162.000	162.000	30
** M42	-	220.000	220.000	220.000	220.000	220.000	36
HEIGHT A [mm] ▶	70	102	144	177	227	310	

Total height = A + B
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of height A = +/-1,5 mm
AS = Anti-Slip

* M12 spindle not supplied for footplate KJ150 and KJ180
** Adjust A -2 mm and B +2 mm if footplate is combined with spindle M24, M30, M36 or M42

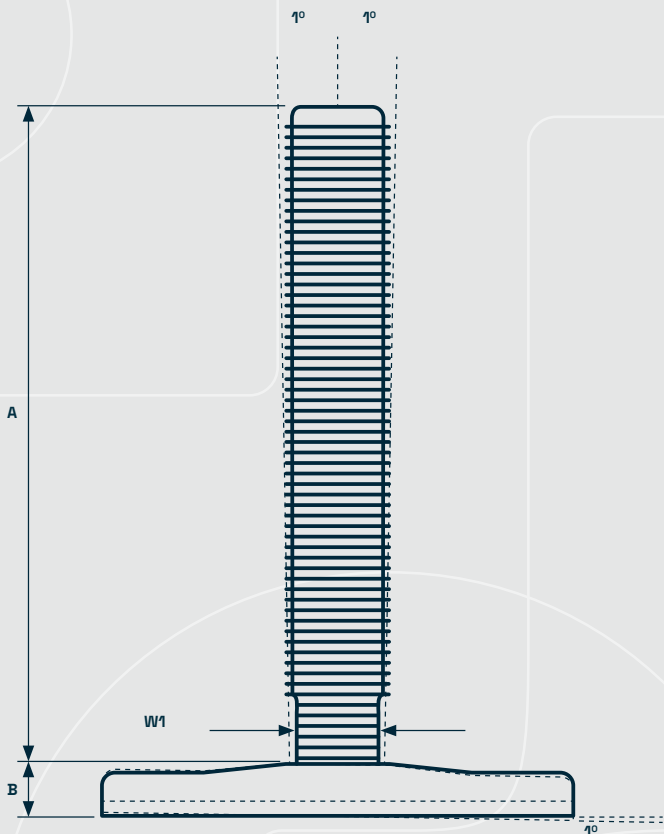
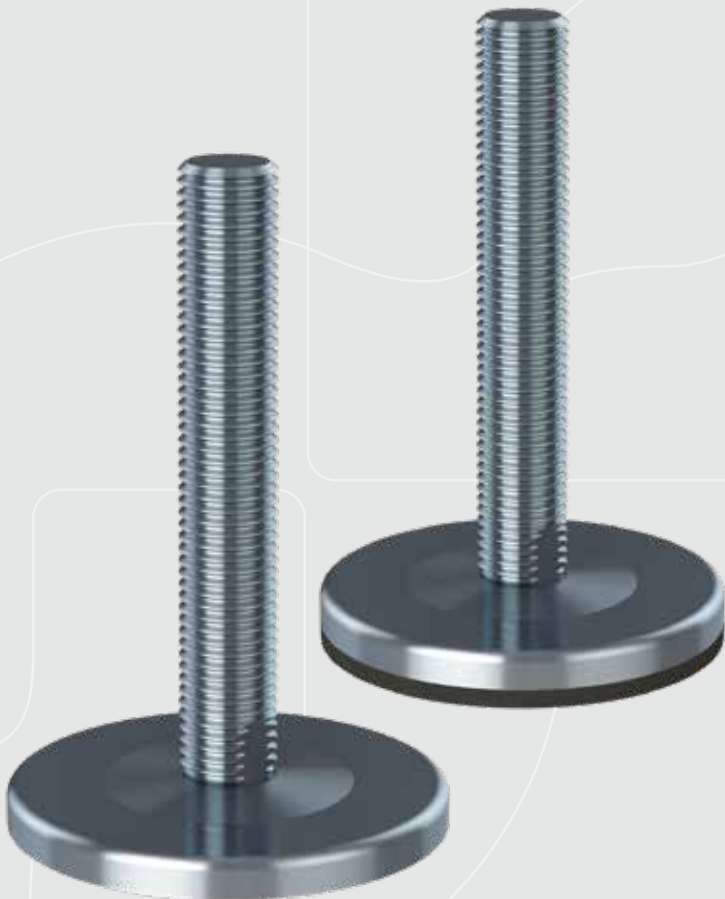


Solid fully-threaded levelling feet - G/G AS

The solid G levelling foot is the optimal choice for heavy machinery and equipment in diverse production environments.

The joined connection between the spindle and the footplate is designed for very high load and high pull and fixed mounting on horizontal surfaces.

The G AS is supplied with anti-vibration and anti-slip NBR rubber (by request EPDM).



Solid fully-threaded levelling feet - G/G AS



FOOT PLATE



SPINDLE



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	G090 - 16 - 100

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
90	89	12	70.000	G090
90AS	89	17	70.000	G-AS090
110	109	12	70.000	G110
110AS	109	17	70.000	G-AS110
150	149	12	100.000	G150
150AS	149	17	100.000	G-AS150
180	179	14	120.000	G180
180AS	179	19	120.000	G-AS180

TYPE ▶	100	150	180	230	310	W1 [mm]
THREAD	[N]	[N]	[N]	[N]	[N]	
M16	32.000	29.000	20.000	12.500	7.500	13
M20	49.000	49.000	48.000	30.000	15.000	17
* M24	70.000	70.000	70.000	65.000	35.000	19
* M30	112.500	112.500	112.500	112.500	95.000	24
* M36	162.000	162.000	162.000	162.000	162.000	30
* M42	220.000	220.000	220.000	220.000	220.000	36
HEIGHT A [mm] ▶	96	152	185	234	310	

Total height = A + B
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of height A = +/-1,5 mm
AS = Anti-Slip

* Adjust A -2 mm and B +2 mm if footplate is combined with spindle M24, M30, M36 or M42

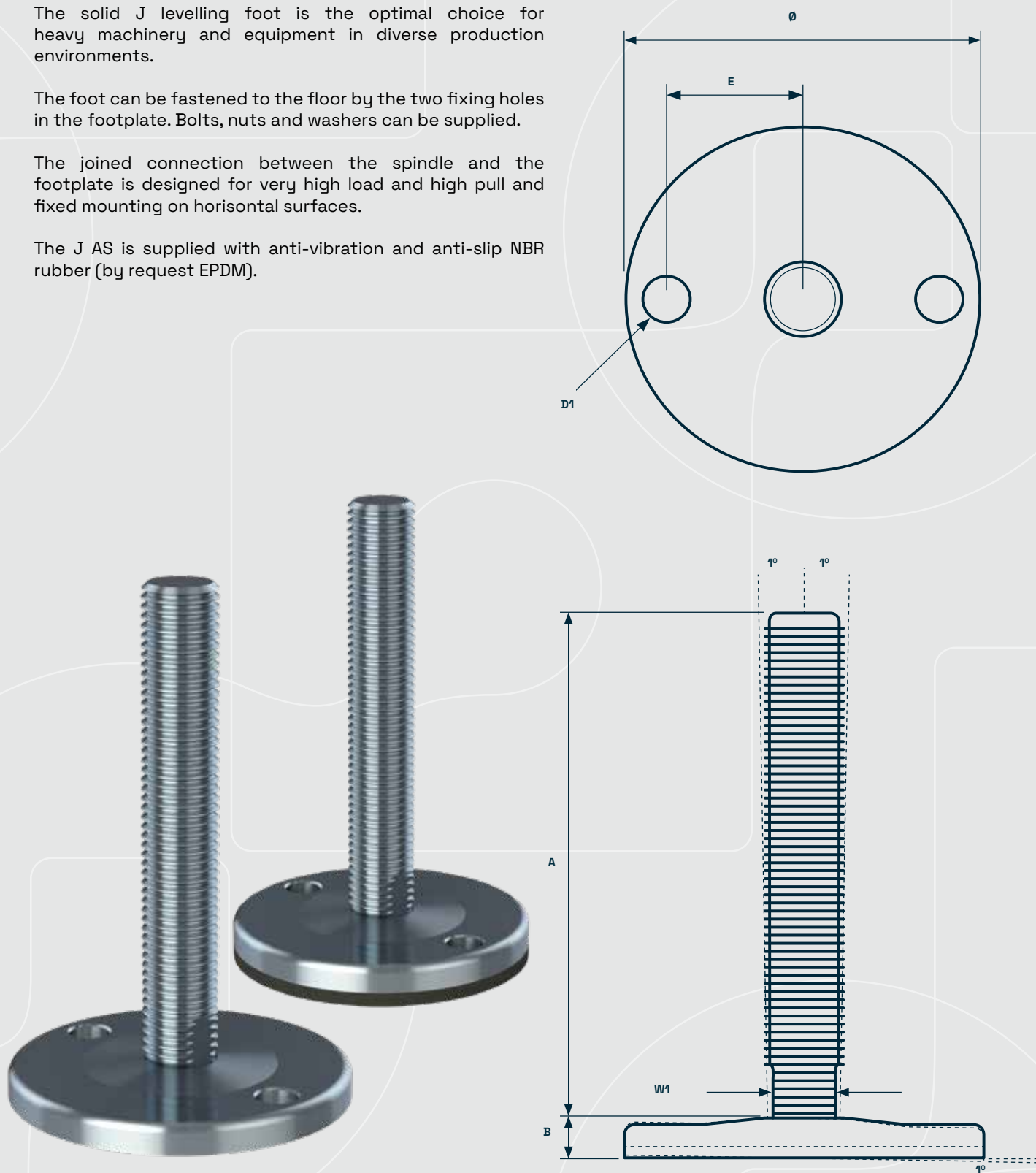
Solid fully-threaded levelling feet - J/J AS

The solid J levelling foot is the optimal choice for heavy machinery and equipment in diverse production environments.

The foot can be fastened to the floor by the two fixing holes in the footplate. Bolts, nuts and washers can be supplied.

The joined connection between the spindle and the footplate is designed for very high load and high pull and fixed mounting on horizontal surfaces.

The J AS is supplied with anti-vibration and anti-slip NBR rubber (by request EPDM).



Solid fully-threaded levelling feet - J/J AS



Total height
Maximum nominal load
Tolerance of height A
AS

= A + B
= Lowest value for footplate or spindle
= +/-1,5 mm
= Anti-Slip

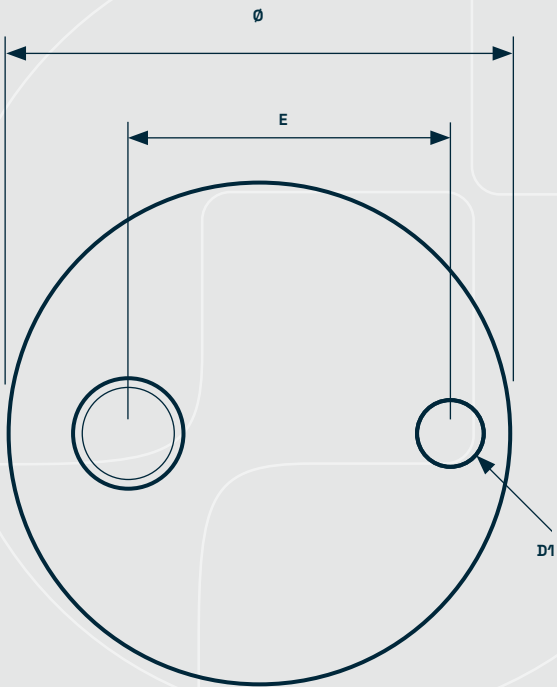
Solid fully-threaded levelling feet - CF/CF AS

The solid CF levelling foot is the optimal choice for heavy machinery and equipment in diverse production environments.

The foot can easily be fastened to the floor by the decentered fixing hole in the footplate. Bolt, nut and washer can be supplied.

The joined connection between the decentered spindle and the footplate is designed for high load and fixed mounting on horizontal surfaces.

The CF AS is supplied with anti-vibration and anti-slip NBR rubber (by request EPDM).



Solid fully-threaded levelling feet - CF/CF AS



FOOT PLATE



SPINDLE



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	CF110 - 16 - 100

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
110	109	12	70	14,5	70.000	CF110
110AS	109	17	70	14,5	70.000	CF-AS110
180	179	12	139	14,5	120.000	CF180
* 180AS	179	17	139	14,5	30.000	CF-AS180

TYPE ▶	100	150	180	230	W1
THREAD	[N]	[N]	[N]	[N]	[mm]
M16	32.000	29.000	20.000	12.500	13
M20	49.000	49.000	48.000	30.000	17
M24	70.000	70.000	70.000	65.000	19
M30	112.500	112.500	112.500	112.500	24
M36	162.000	162.000	162.000	162.000	30
M42	220.000	220.000	220.000	220.000	36
HEIGHT A [mm]	96	152	185	234	



Total height = A + B
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of height A = +/-1,5 mm
AS = Anti-Slip

* Nom. load lower as this type is not vulcanized.

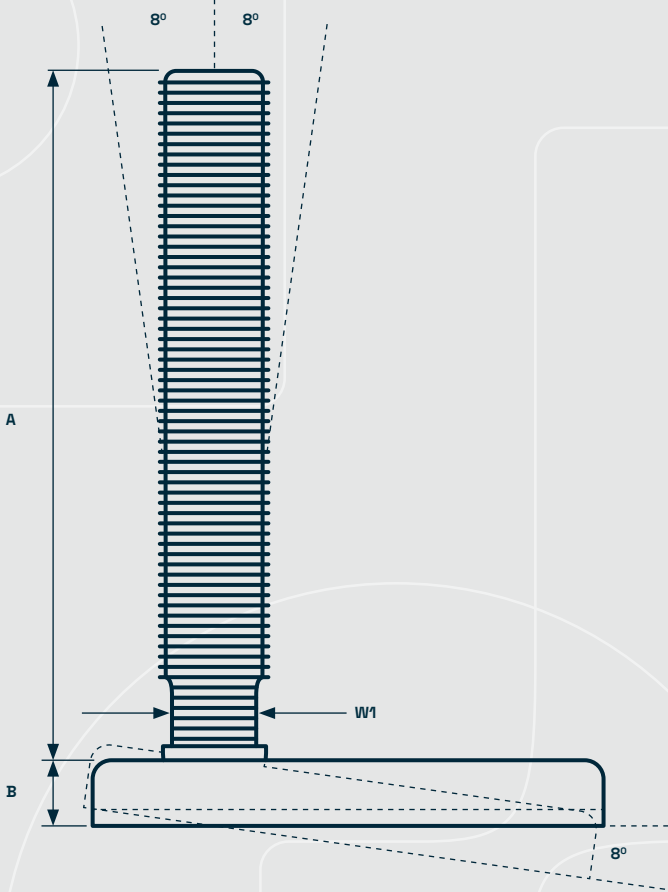
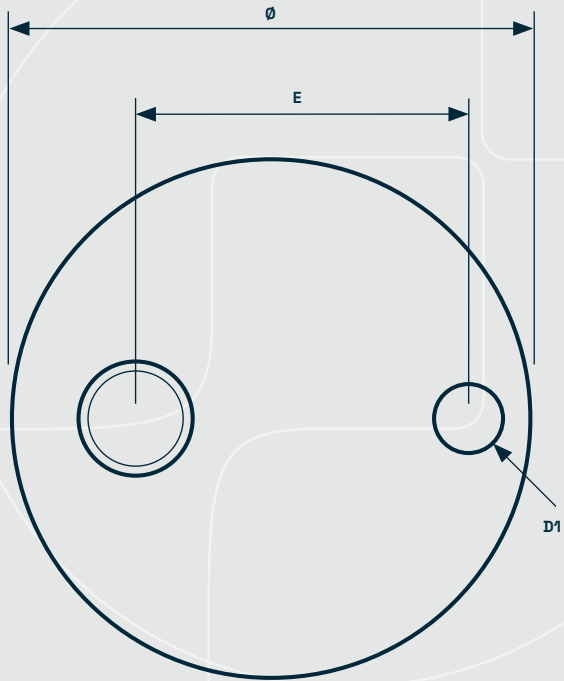
Solid fully-threaded levelling feet - KCF/KCF AS

The solid KCF levelling foot is the optimal choice for heavy machinery and equipment in diverse production environments.

The foot can easily be fastened to the floor by the decentered fixing hole in the footplate. Bolt, nut and washer can be supplied.

The joined connection between the decentered spindle and the footplate is designed for high load and flexible mounting on horizontal surfaces.

The KCF AS is supplied with anti-vibration and anti-slip NBR rubber (by request EPDM).



Solid fully-threaded levelling feet - KCF/KCF AS



FOOT PLATE



SPINDLE



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	KCF110 - 12 - 050

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
110	109	17	70	14,50	100.000	KCF110
110AS	109	22	70	14,50	100.000	KCF-AS1100

TYPE ▶	50	70	100	150	180	230	310	W1 [mm]
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	[N]	
M12	17.000	17.000	17.000	8.000	5.000	3.000	-	10
M16	-	32.000	32.000	29.000	20.000	12.500	7.500	13
M20	-	49.000	49.000	49.000	48.000	30.000	15.000	17
M24	-	70.000	70.000	70.000	70.000	65.000	35.000	19
M30	-	112.500	112.500	112.500	112.500	112.500	95.000	24
M36	-	-	162.000	162.000	162.000	162.000	162.000	30
HEM 36	-	-	220.000	220.000	220.000	220.000	220.000	36
A [mm] ▶	54	68	102	144	177	227	310	



Total height
Maximum nominal load
Tolerance of height A
AS

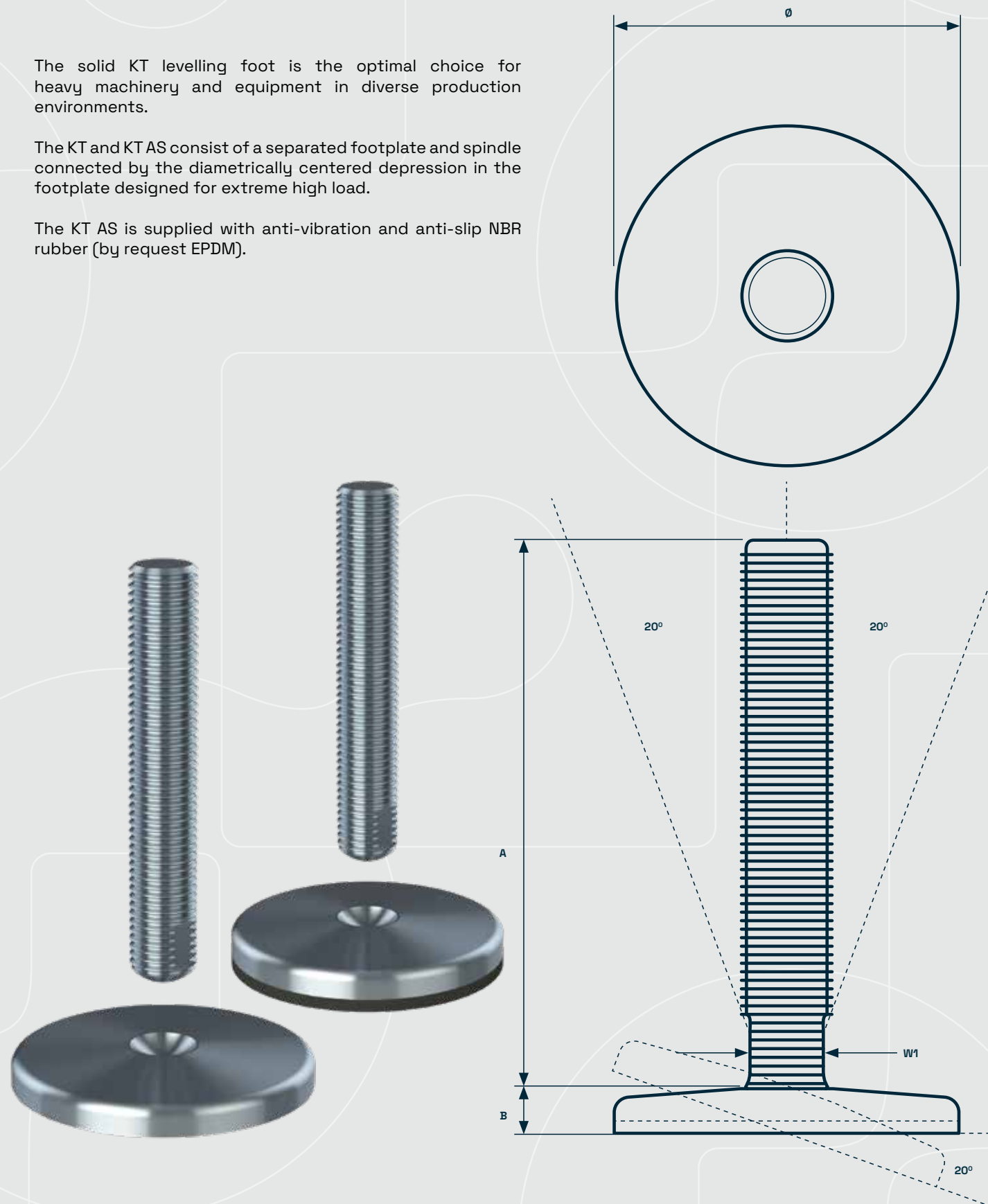
= A + B
= Lowest value for footplate or spindle
= +/-1,5 mm
= Anti-Slip

Solid fully-threaded levelling feet - KT/KT AS

The solid KT levelling foot is the optimal choice for heavy machinery and equipment in diverse production environments.

The KT and KT AS consist of a separated footplate and spindle connected by the diametrically centered depression in the footplate designed for extreme high load.

The KT AS is supplied with anti-vibration and anti-slip NBR rubber (by request EPDM).



Solid fully-threaded levelling feet - KT/KT AS



FOOT PLATE



PRODUCT CODE				FOOT - THREAD - SPINDLE TYPE	
EXAMPLE				KT090 - 12 - 50	
TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE	
90	89	9	120.000	KT090	
90AS	89	14	30.000	KT-AS090	
110	109	11	140.000	KT110	
110AS	109	16	30.000	KT-AS110	
* 130	129	9	200.000	KT130	
130AS	129	16	30.000	KT-AS130	
* 150	149	9	200.000	KT150	
150AS	149	14	30.000	KT-AS150	
* 180	179	9	200.000	KT180	
180AS	179	14	30.000	KT-AS180	

SPINDLE



TYPE ▶	50	70	100	150	180	230	310	W1
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[mm]
M12	17.000	17.000	17.000	8.000	5.000	3.000	-	10
M16	-	32.000	32.000	29.000	20.000	12.500	7.500	13
M20	-	49.000	49.000	49.000	48.000	30.000	15.000	17
M24	-	70.000	70.000	70.000	70.000	65.000	35.000	19
M30	-	112.500	112.500	112.500	112.500	112.500	95.000	24
M36	-	-	162.000	162.000	162.000	162.000	162.000	30
M42	-	-	220.000	220.000	220.000	220.000	220.000	36
HEIGHT A [mm] ▶	50	70	100	150	180	230	310	

Total height
Maximum nominal load
Tolerance of height A
AS

= A + B
= Lowest value for footplate or spindle
= +/-1,5 mm
= Anti-Slip

* Footplates 130, 150 and 180 are only supplied with spindles M30, M36 and M42



Declaration of conformity

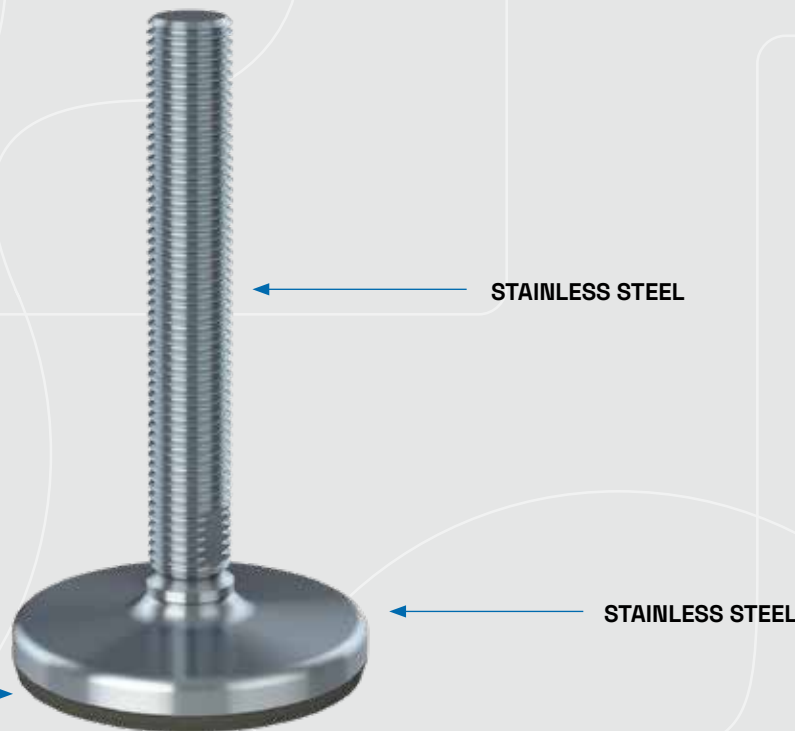
Solid fully-threaded levelling feet



NGI fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentively follow the revisions and amendments to these directives and will design our products accordingly. This ensures that products from NGI are always in compliance with currently valid requirements.

Our product category is not covered by the scope of application of the EC directive for machinery. For this reason, they cannot be furnished with the CE marking in accordance with the EC directive for machinery.

Furthermore, we declare that the listed materials applied in our products comply with the demands for materials used within the food and pharmaceutical industries.



Declaration of conformity

Solid fully-threaded levelling feet

The declaration of materials concerns the following Applications

Application: Material type: Compliance:	Steel components, e.g. spindle, sleeve and cover for foot Stainless steel, AISI 304/A2 (X5CrNi18-10), Euro norm 1.4301. By request: Stainless steel, AISI 316/A4 (X 5 CrNiMo 17 12 2), Euronorm 1.4401 EN 10204 Type 2.2. NGI A/S states that the product is in compliance with the order with indication of results of nonspecific inspection. NGI A/S has got EN 10204 type 3.1 inspection certificates on all material used in the products but not specified for each foot. In the directive 94/9/EC, Equipment for potentially explosive atmospheres, also known as the ATEX directive, equipment without its own potential source of ignition are not covered, nor shall be marked according to the directive. However, NGI levelling feet are suitable for use in all ATEX zones.
Application: Material type: Color: Hardness: Range of temperature:	Anti-slip rubber for HXG AS, HXJ AS, HXGT AS and HXJT AS NBR (NNF-75) Black 72 ± 3 Shore A DIN 53 505 Min -35°C to Max +110°C
Compliance: REACH:	In accordance with regulation EC 1907/2006. Do not contain any substances above 0.1% (w/w) from: The Candidate List of Substances of Very High Concern (16.01.2020). Annex XVII (19-11-2019)
RoHS 2 & RoHS 3:	In accordance with the directive 2011/65/EC and 2015/863/EC OF EUROPEAN PARLIAMENT: AND OF THE COUNCIL.
ADI free:	Does not contain any substances originating from humans or animals.
Bisphenols:	Does not contain Bisphenols as described in 1895/2005/EEC. Nor BPA, BADGA, BFDGE or NOGE.
ODS:	Does not contain ozone depleting substances. In accordance with the Regulation EC 1005/2009 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 16 SEPTEMBER 2009 and Regulation EC 2037/2000 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 29 JUNE 2000.
Conflict Materials:	In accordance with US Law: "Dodd Frank Wall Street Reform & Consumer Protection Act", sec. 1502, of 21.07.2010.
GMP:	Good manufacturing process in accordance with 2023/2006 EC.
Hazardous materials:	Does not contain any hazardous substances as described in the Hong Kong International Convention for the Safe and Environmental Sound Recycling of ships, 2009.
Phthalates:	Does not contain phthalates.
FDA:	Guideline 21 CFR 177.2600
Application: Material type: Electrically: Chemical resistance: Color: Hardness: Range of temperature: Load:	Anti-slip rubber NBR By request EPDM Non-conductive High to commonly applied cleaning agents Black Shore A 80 ± 5 Min -20 °C to Max 110 °C Low load capacity

Fully-threaded Plastic levelling feet

The optimal fully-threaded plastic choice
for low- and middle weight machinery and equipment
in diverse production environments

They offer value-for-money
and are available in numerous
varieties and functions



Plastic fully-threaded levelling feet

The product group of plastic fully-threaded levelling feet is the optimal choice for low- and middle weight machinery and equipment in diverse production environments. Because of the wide variety and functionality these fully-threaded levelling feet offer great value-for-money and for the majority of the models a hygienic-oriented design because of the self-draining surfaces.

The reliability of the plastic fully-threaded levelling feet has been appreciated by customers world-wide for more than 25 years and the current product portfolio is a result of a continuous innovative approach and market feedback.

Product Group Features

- Wide variety in footplate design and functionality
- Unlimited customized height variations
- Optional fastening to the floor with sealed fixing holes
- Several different variations (weight load, height-adjustment, flexible mounting parts)
- Fully-threaded plastic levelling feet with self-draining surfaces and limited cleaning effort
- Optional anti-vibration and anti-slip rubber
- Spindle in stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401
- Footplate in reinforced polyamide
- Bolts, nuts, washers, welding plates and plastic bushings can be supplied

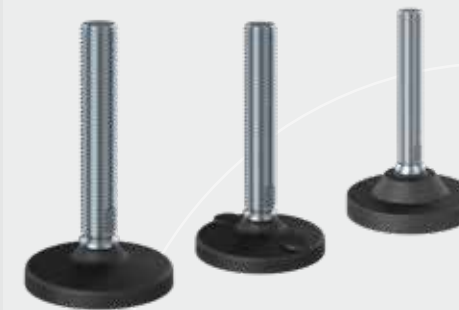


HP

Special Features

- Weight load up to 22.000 N
- Admits up to 10° slope on floors and equipment
- Hygienic-oriented design due to self-draining surfaces
- Possible fastening to the floor under the watertight plastic cap

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HPA SERIES

Special Features

- Weight load up to 45.000 N
- Admits up to 10° slope on floors and equipment
- Hygienic-oriented design due to self-draining surfaces
- Optional fastening to the floor under the watertight plastic cap
- Optional anti-slip rubber under footplat

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HPG AS

Special Features

- Weight load up to 22.000 N
- Admits up to 10° slope on floors and equipment
- Hygienic-oriented design due to self-draining surfaces
- Embedded anti-slip rubber under footplate
- Possible fastening to the floor under the watertight plastic cap

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HPR AS

Special Features

- Weight load up to 22.000 N
- Admits up to 10° slope on floors and equipment
- Hygienic-oriented design due to self-draining surfaces
- Embedded anti-slip rubber under footplate
- Possible fastening to the floor under the watertight stainless steel cap

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DECLARATION OF CONFORMITY

This declaration of conformity lists all the directives and standards that NGI adheres to. This ensures that products from NGI are always in compliance with currently valid requirements.

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Accessories for plastic fully-threaded levelling feet

NGI is able to deliver all necessary accessories, which ensures a quick and easy installation of the levelling foot. In addition to supplying standardized accessories we are also able to supply customized accessories.

Visit our website to learn more
uk.ngi-global.com/products/fully-threaded-levelling-feet/plastic-fully-threaded



NUTS & WASHERS

- Stainless steel AISI 304/A2, 1.4301
- Standard nuts (DIN 934)
- Standard counter nuts (DIN 439)
- Standard flat washers (DIN 125)
- Standard fender washers (DIN 9010)
- All dimensions available

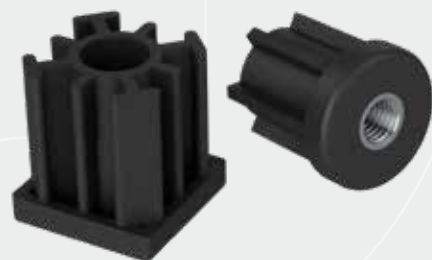
318



WELDING PLATES

- Stainless steel AISI 304/A2, 1.4301
- Squared welding plates
- Round welding plates
- All dimensions available

322



PLASTIC BUSHINGS

- Squared plastic bushings
- Round plastic bushings
- Many dimensions available

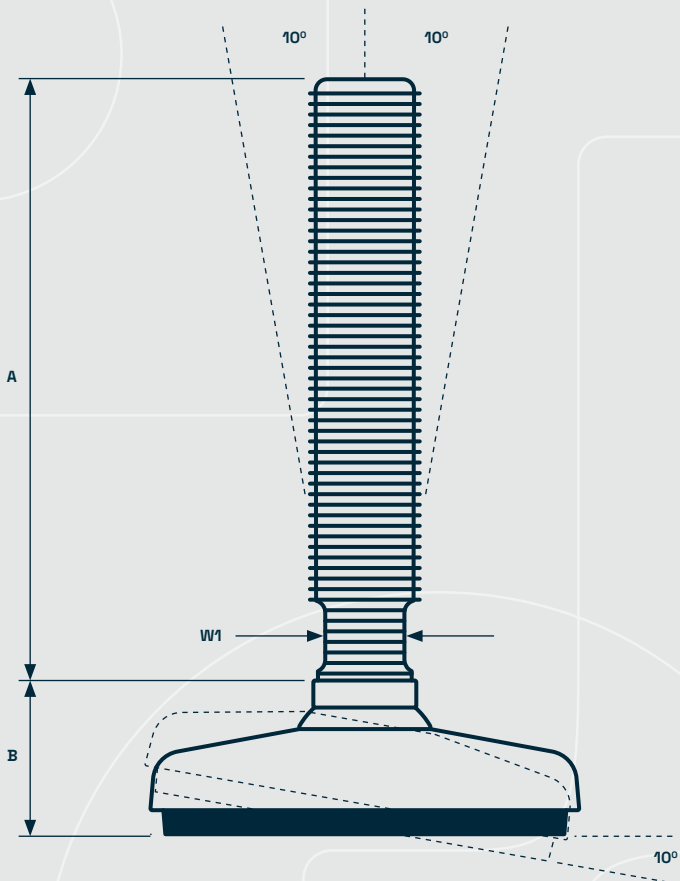
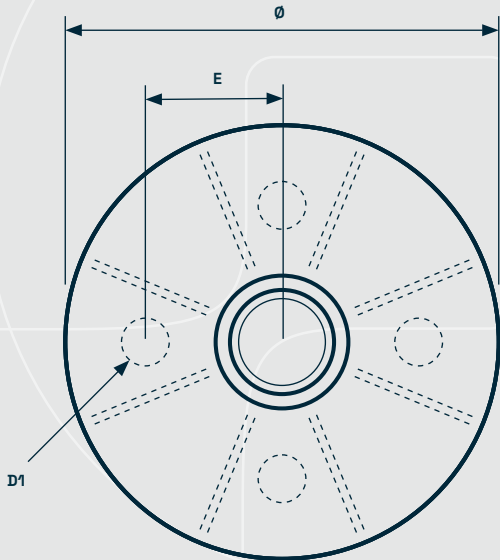
324



Plastic fully-threaded levelling feet - HP

The HP plastic fully-threaded levelling foot is the optimal choice for low- and middle weight machinery and equipment in diverse production environments.

It is possible to fasten the levelling foot to the floor by the two pre-drilled fixing holes located under the watertight plastic cap lowering the cleaning effort. Bolts, nuts and washers can be supplied.



Plastic fully-threaded levelling feet - HP



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	HP060 - 12 - 70

FOOT PLATE



TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
*60	60	31	-	-	15.000	HP060
80	80	31	27	9	15.000	HP080
100	100	37	32	11	20.000	HP100
120	120	37	40	11	22.000	HP120

SPINDLE



TYPE ▶	70	100	150	180	230	310	W1 [mm]
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	
M12	17.000	17.000	8.000	5.000	3.000	-	10
M16	32.000	32.000	29.000	20.000	12.500	7.500	13
M20	49.000	49.000	49.000	48.000	30.000	15.000	17
M24	70.000	70.000	70.000	70.000	65.000	35.000	19
** M30	112.500	112.500	112.500	112.500	112.500	95.000	24
HEIGHT A [mm]	73	98	140	173	223	305	



Total height = A + B
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of height A = +/-1,5 mm

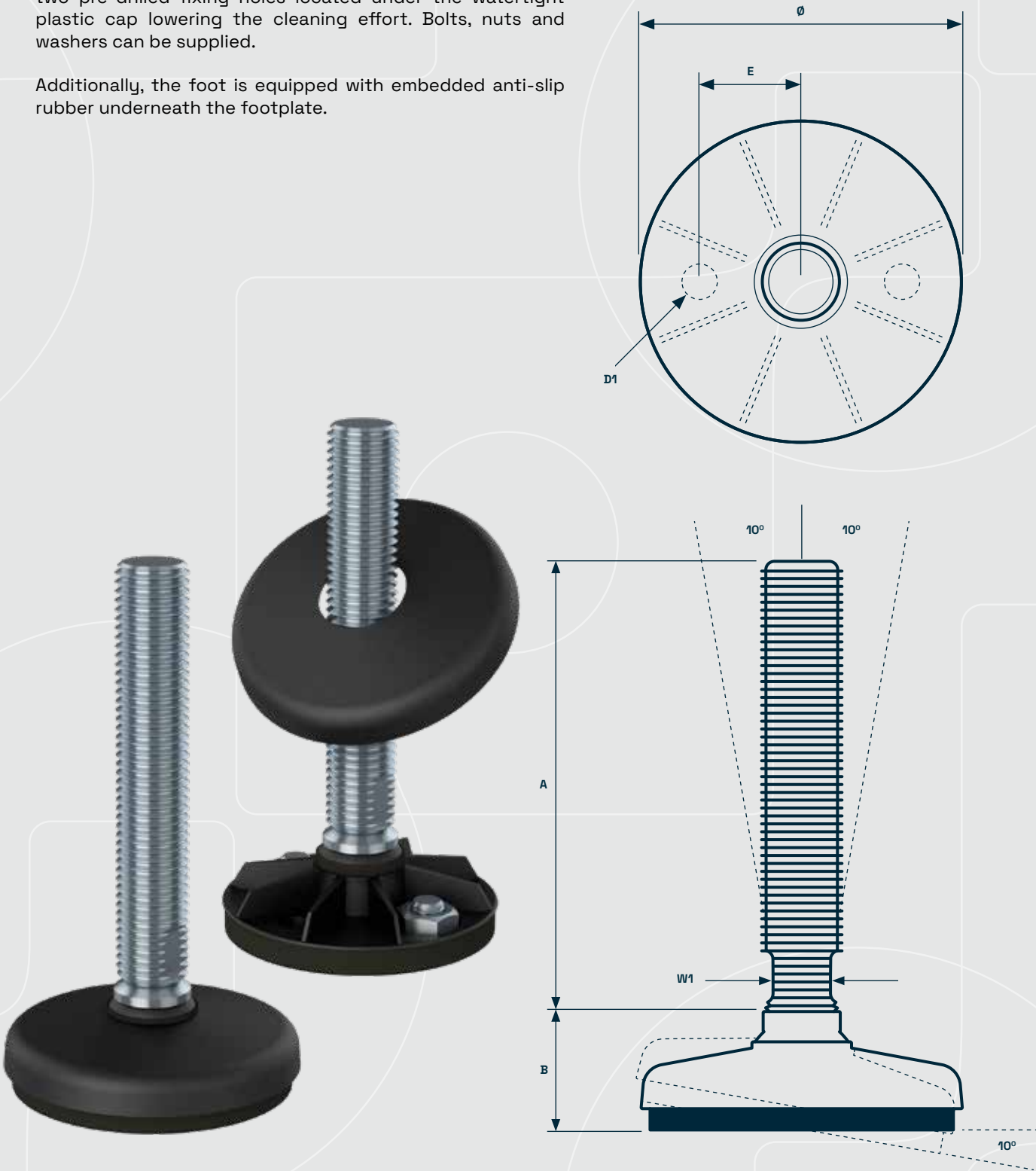
* Footplate HP060 does not have fixing holes
** Adjust A +7 mm and B -7 mm if footplate is combined with spindle M30 or M36

Plastic fully-threaded levelling feet - HPG AS

The HPG AS plastic fully-threaded levelling foot is the optimal choice for low- and middle weight machinery and equipment in diverse production environments.

It is possible to fasten the levelling foot to the floor by the two pre-drilled fixing holes located under the watertight plastic cap lowering the cleaning effort. Bolts, nuts and washers can be supplied.

Additionally, the foot is equipped with embedded anti-slip rubber underneath the footplate.



Plastic fully-threaded levelling feet - HPG AS

	PRODUCT CODE				FOOT - THREAD - SPINDLE TYPE		
	EXAMPLE				HPG-AS060- 12 - 70		
FOOT PLATE	TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
	*60AS	60	33	-	-	15.000	HPG-AS060
	80AS	80	33	26,5	8,5	15.000	HPG-AS080
	100AS	100	37	31,5	11,0	20.000	HPG-AS100
	120AS	120	38	40,0	11,0	22.000	HPG-AS120
SPINDLE	TYPE ▶	70	100	150	180	230	310
	THREAD	[N]	[N]	[N]	[N]	[N]	[N]
	M12	17.000	17.000	8.000	5.000	3.000	-
	M16	32.000	32.000	29.000	20.000	12.500	7.500
	M20	49.000	49.000	49.000	48.000	30.000	15.000
	M24	70.000	70.000	70.000	70.000	65.000	35.000
	** M30	112.500	112.500	112.500	112.500	112.500	95.000
	HEIGHT A [mm] ▶	73	98	140	173	223	305
	W1 [mm]	10	13	17	19	24	



Total height = A + B
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of height A = +/-1,5 mm
AS = Anti-Slip

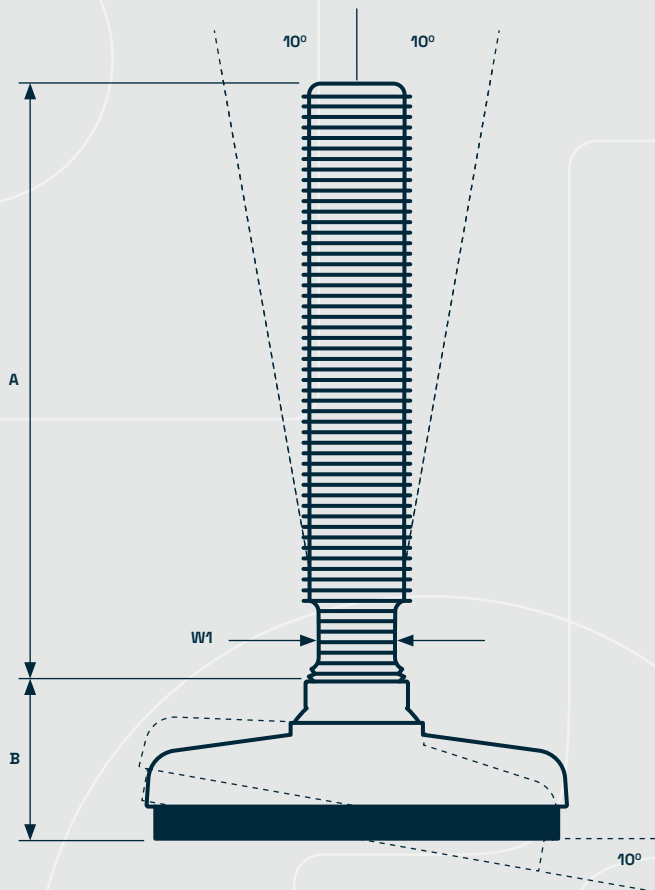
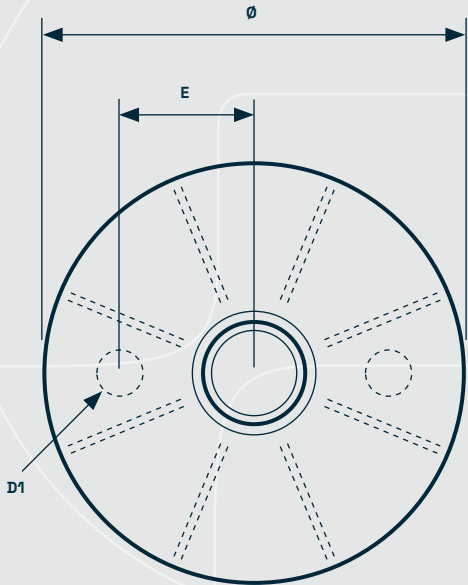
* Footplate HPG-AS060 does not have fixing holes
** Adjust A +7 mm and B -7 mm if footplate is combined with spindle M30 or M36

Plastic fully-threaded levelling feet - HPR AS

The HPR AS plastic fully-threaded levelling foot is the optimal choice for low- and middle weight machinery and equipment in diverse production environments.

It is possible to fasten the levelling foot to the floor by the two pre-drilled fixing holes located under the watertight stainless steel cap lowering the cleaning effort. Bolts, nuts and washers can be supplied.

Additionally, the foot is equipped with embedded anti-slip rubber underneath the footplate.



Plastic fully-threaded levelling feet - HPR AS



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	HPR-AS080 - 12 - 70

FOOT PLATE



TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
80AS	80	33	26,5	8,5	15.000	HPR-AS080
100AS	100	37	31,5	11,0	20.000	HPR-AS100
120AS	120	38	40,0	11,0	22.000	HPR-AS120

SPINDLE



TYPE ▶	70	100	150	180	230	310	W1 [mm]
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	
M12	17.000	17.000	8.000	5.000	3.000	-	10
M16	32.000	32.000	29.000	20.000	12.500	7.500	13
M20	49.000	49.000	49.000	48.000	30.000	15.000	17
M24	70.000	70.000	70.000	70.000	65.000	35.000	19
* M30	112.500	112.500	112.500	112.500	112.500	95.000	24
HEIGHT A [mm] ▶	73	98	140	173	223	305	



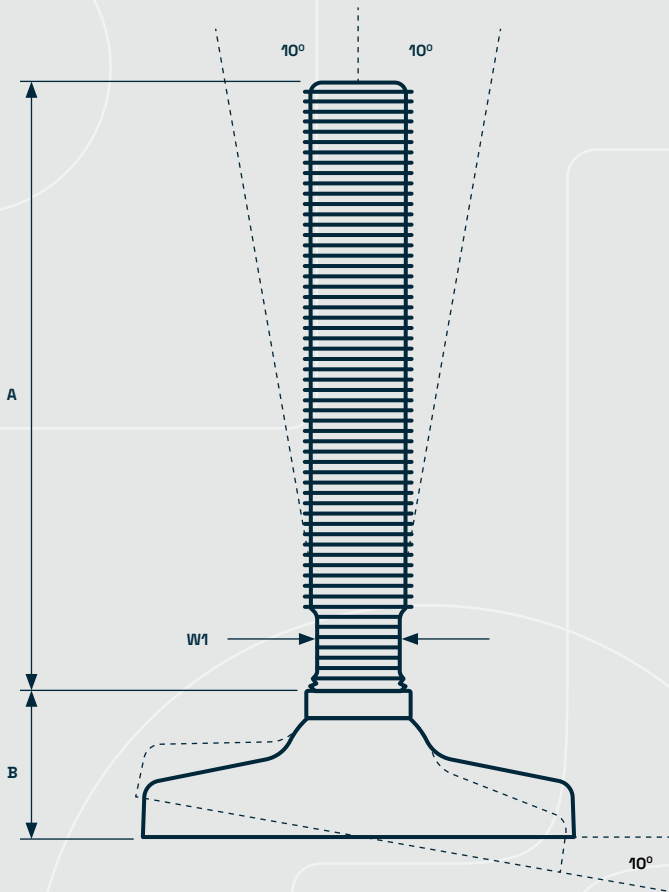
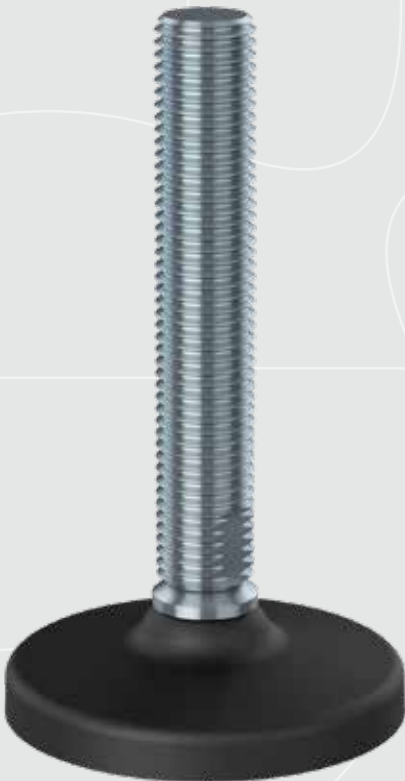
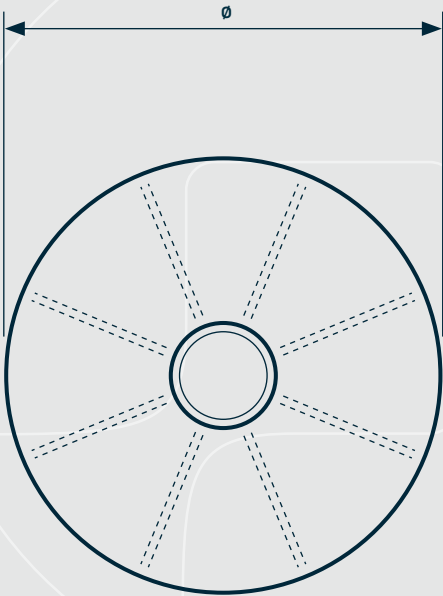
Total height = A + B
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of height A = +/-1,5 mm
AS = Anti-Slip
* Adjust A +7 mm and B -7 mm if footplate is combined with spindle M30 or M36

Plastic fully-threaded levelling feet - HPA / HPA AS

The HPA and HPA AS plastic fully-threaded levelling foot is the optimal choice for low- and middle weight machinery and equipment in diverse production environments.

Lowered cleaning effort is obtained by the design of the self-draining surfaces.

Additionally, the HPA AS is equipped with embedded anti-slip rubber underneath the footplate.



Plastic fully-threaded levelling feet - HPA / HPA AS



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	HPA040 - 10 - 70

FOOT PLATE



TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
40	40	28	8.000	HPA040
40AS	40	28	8.000	HPA-AS040
50	50	31	9.000	HPA050
50AS	50	31	9.000	HPA-AS050
60	60	31	15.000	HPA060
60AS	60	33	15.000	HPA-AS060
80	80	31	10.000	HPA080
80AS	80	31	10.000	HPA-AS080
100	100	34	15.000	HPA100
100AS	100	34	15.000	HPA-AS100

SPINDLE



TYPE ▶	70	100	150	180	230	310	W1 [mm]
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	
* M10	3.500	3.500	3.500	2.000	1.700	-	13
M12	17.000	17.000	8.000	5.000	3.000	-	10
M16	32.000	32.000	29.000	20.000	12.500	7.500	13
M20	49.000	49.000	49.000	48.000	30.000	15.000	17
M24	70.000	70.000	70.000	70.000	65.000	35.000	19
** M30	112.500	112.500	112.500	112.500	112.500	95.000	24
HEIGHT A [mm] ▶	73	98	140	173	223	305	



Total height = A + B
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of height A = +/-1,5 mm
AS = Anti-Slip

* M10 spindle only supplied for footplate HPA-AS040 and HPA-AS050
** M30 spindle only supplied for footplate HPA-AS080 and HPA-AS100
** Adjust A +7 mm and B -7 mm if footplate is combined with spindle M30

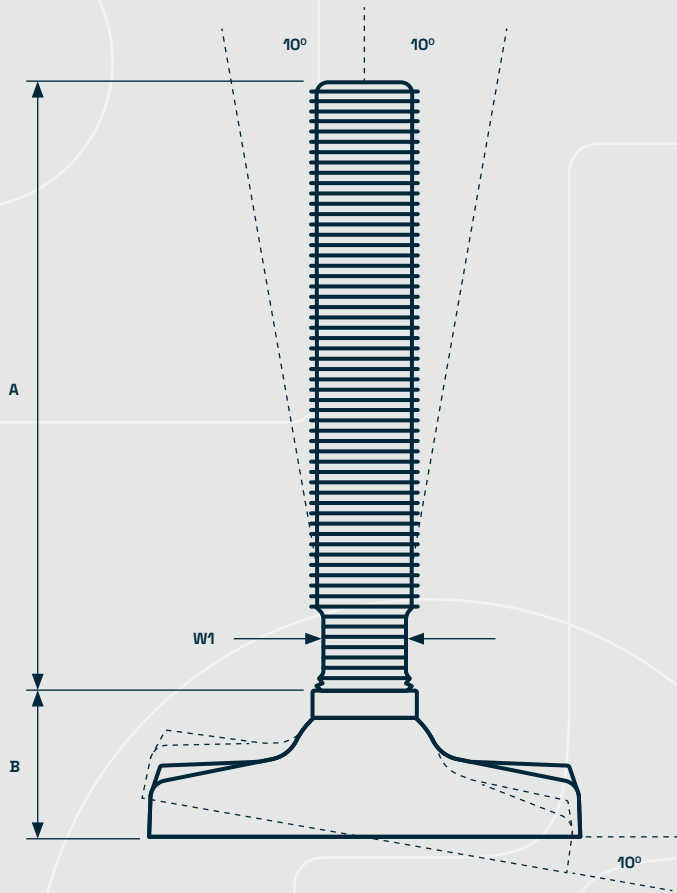
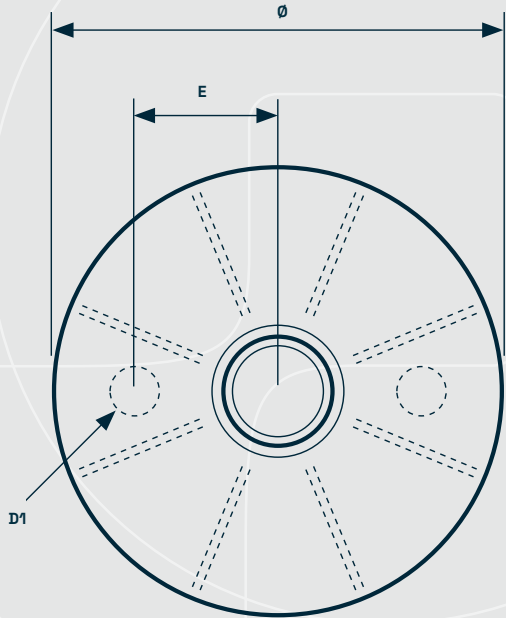
Plastic fully-threaded levelling feet - HPA FIXING / HPA AS FIXING

The HPA Fixing and HPA AS Fixing plastic fully-threaded levelling foot is the optimal choice for low- and middle weight machinery and equipment in diverse production environments.

Lowered cleaning effort is obtained by the design of the self-draining surfaces.

It is possible to fasten the levelling foot to the floor by the two pre-pressed fixing holes, which are easily pressed out using a screwdriver. Bolts, nuts and washers can be supplied.

Additionally, the HPA AS Fixing is equipped with embedded anti-slip rubber underneath the footplate.



Plastic fully-threaded levelling feet - HPA FIXING / HPA AS FIXING



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	HPA-FIX081 - 12 - 70

FOOT PLATE



TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
81	80	31	28	10	10.000	HPA-FIX081
81AS	80	31	28	10	10.000	HPA-FIXAS081
101	100	34	37	12	15.000	HPA-FIX101
101AS	100	34	37	12	15.000	HPA-FIXAS101

SPINDLE



TYPE ▶	70	100	150	180	230	310	W1 [mm]
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	
M12	17.000	17.000	8.000	5.000	3.000	-	10
M16	32.000	32.000	29.000	20.000	12.500	7.500	13
M20	49.000	49.000	49.000	48.000	30.000	15.000	17
M24	70.000	70.000	70.000	70.000	65.000	35.000	19
* M30	112.500	112.500	112.500	112.500	112.500	95.000	24
HEIGHT A [mm] ▶	73	98	140	173	223	305	



Total height = A + B
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of height A = +/-1,5 mm
AS = Anti-Slip

* Adjust A +6 mm and B -6 mm if footplate is combined with spindle M30

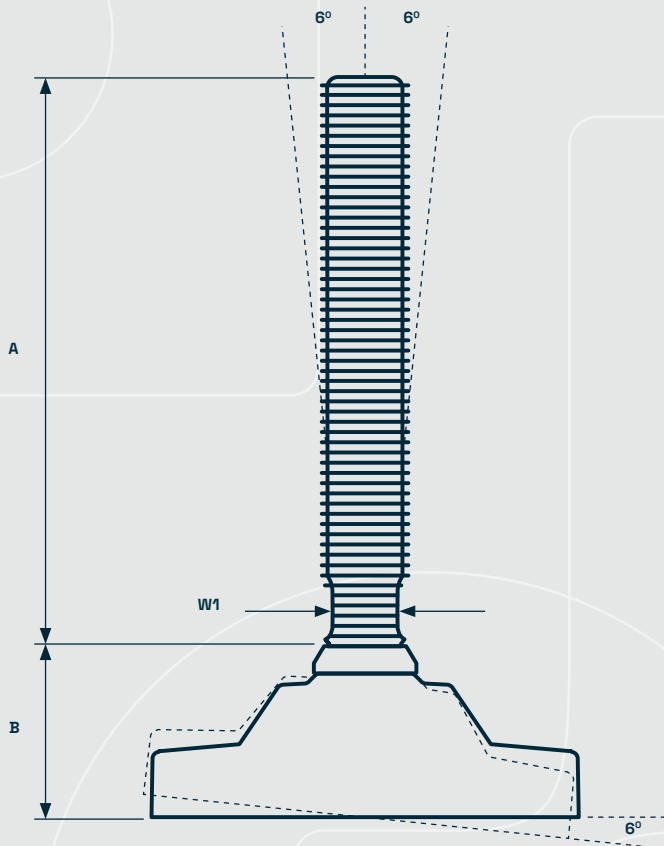
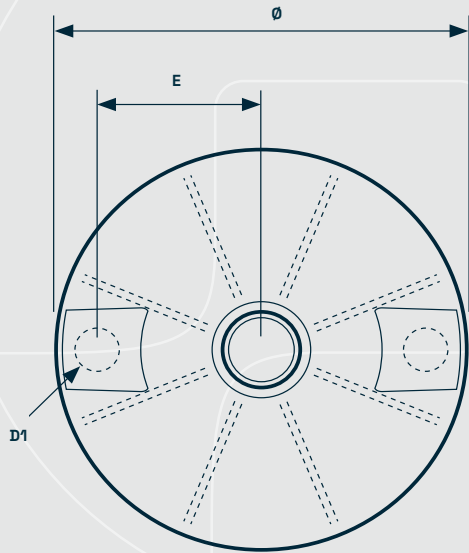
Plastic fully-threaded levelling feet - HPA125 / HPA125 AS

The strong HPA125 and HPA125 AS plastic fully-threaded levelling foot is the optimal choice for heavier machinery and equipment in diverse production environments.

Lowered cleaning effort is obtained by the design of the self-draining surfaces.

It is possible to fasten the levelling foot to the floor by the two pre-pressed fixing holes, which are easily pressed out using a screwdriver. Bolts, nuts and washers can be supplied.

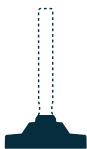
Additionally, the HPA125 AS is equipped with embedded anti-slip rubber underneath the footplate.



Plastic fully-threaded levelling feet - HPA125 / HPA125 AS



FOOT PLATE



SPINDLE



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	HPA125125 - 16 - 100

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
125	125	50	28	10	45.000	HPA125
125AS	125	51	28	10	45.000	HPA-AS125

TYPE ▶	100	150	180	230	310**	W1
THREAD	[N]	[N]	[N]	[N]	[N]	[mm]
M16	32.000	29.000	20.000	12.500	7.500	13
M20	49.000	49.000	48.000	30.000	15.000	17
M24	70.000	70.000	70.000	65.000	35.000	19
* M30	112.500	112.500	112.500	112.500	95.000	24
* M36	162.000	162.000	162.000	162.000	162.000	30
HEIGHT ▶ A [mm]	100	150	180	230	310	



Total height = A + B
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of height A = +/-1,5 mm
AS = Anti-Slip

* Adjust B -6 mm if footplate is combined with M30 or M36.
** Adjust A -5 if footplate is combined with M30 or M36 at length 310mm.

Declaration of conformity

Fully-threaded plastic levelling feet



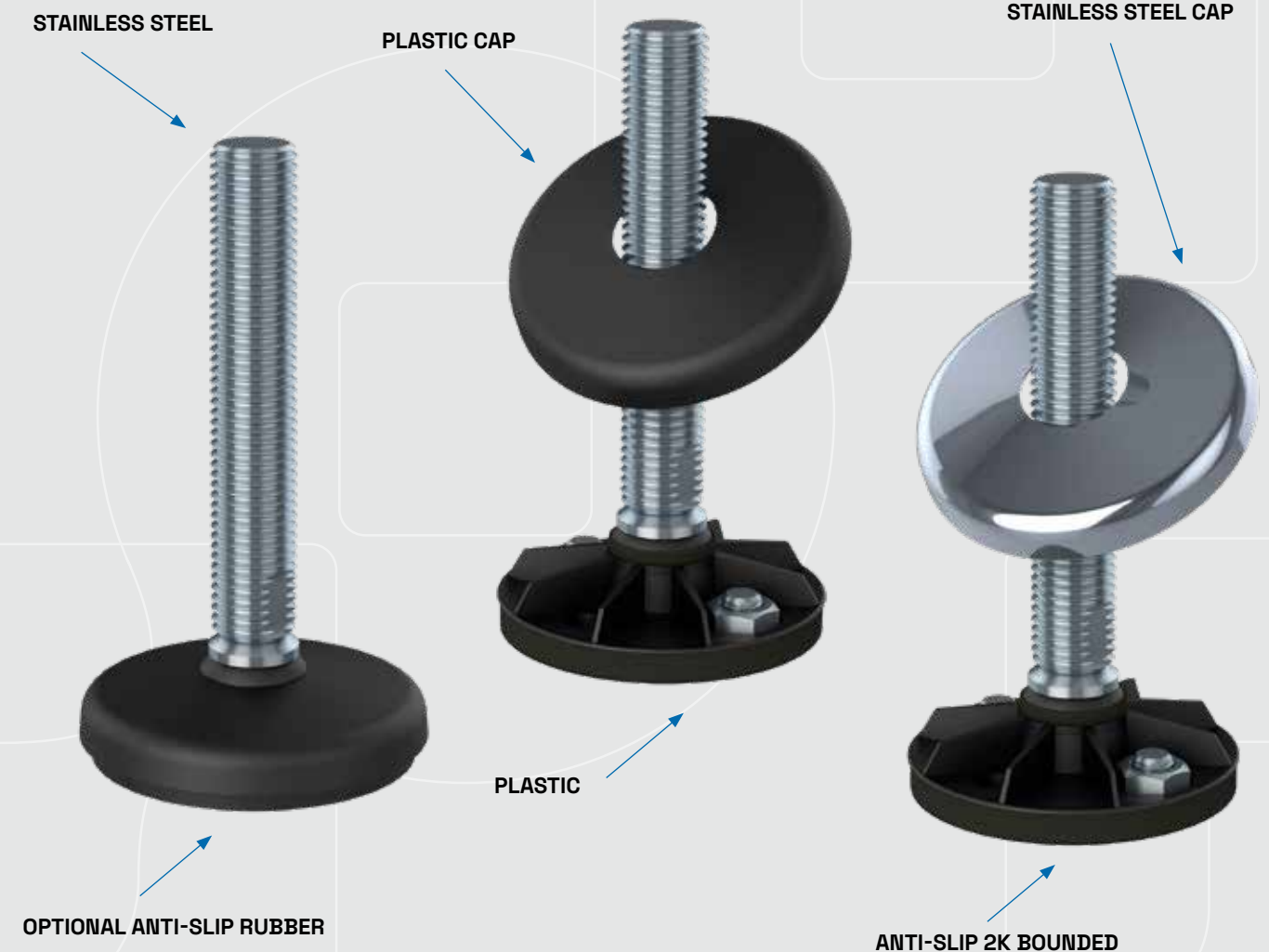
NGI fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentively follow the revisions and amendments to these directives and will design our products accordingly. This ensures that products from NGI are always in compliance with currently valid requirements.

Our product category is not covered by the scope of application of the EC directive for machinery. For this reason, they cannot be furnished with the CE marking in accordance with the EC directive for machinery.

Furthermore, we declare that the listed materials applied in our products comply with the demands for materials used within the food and pharmaceutical industries.

Declaration of conformity

Fully-threaded plastic levelling feet



Declaration of conformity

Fully-threaded plastic levelling feet

The declaration of materials concerns the following Applications

Application:	Steel components, e.g. spindle and cover for foot
Material type:	Stainless steel, AISI 304/A2 (X5CrNi18-10), Euronorm 1.4301. By request: Stainless steel, AISI 316/A4 (X 5 CrNiMo 17 12 2), Euronorm 1.4401
Compliance:	EN 10204 Type 2.2. NGI A/S states that the product is in compliance with the order with indication of results of nonspecific inspection. NGI has got EN 10204 type 3.1 inspection certificates on all material used in the products but not specified for each foot. In the directive 94/9/EC, Equipment for potentially explosive atmospheres, also known as the ATEX directive, equipment without its own potential source of ignition are not covered, nor shall be marked according to the directive. However, NGI levelling feet are suitable for use in all ATEX zones.
Application:	Footbase for NGI A/S's machinefeet and cover for foot
Material type:	PA 6 Miramid FP, reinforced.
Electrically:	Non-conductive.
IP Code IP69K:	DIN (Deutsches Institut für Normung) 40050-9: Straßenfahrzeuge; IP-Schutzarten; Schutz gegen Fremdkörper, Wasser und Berühren; Elektrische Ausrüstung [Road vehicles; degrees of protection (IP-code); protection against foreign objects, water and impact; electrical equipment]. May 1993. (an English translation of the German original is available from DIN).
Chemical resistance:	High to commonly applied cleaning agents.
Color:	Black
Flammability	94 HB
Range of temperature:	Min -20°C to Max +110°C Max. temperature High thermal resistance for short duration: +150°C
Compliance:	
REACH:	In accordance with regulation EC 1907/2006. Do not contain any substances above 0.1% (w/w) from: The Candidate List of Substances of Very High Concern (16.01.2020). Annex XVII (19-11-2019)
RoHS 2 & RoHS 3:	In accordance with the Directive 2011/65/EC and 2015/863/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL.
ADI free:	Does not contain any substances originating from humans or animals.
Bisphenols:	Does not contain bisphenols as described in 1895/2005/EEC. Nor BPA, BADGA, BFDGE or NOGE.
ODS:	Does not contain ozone depleting substances. In accordance with the Regulation EC 1005/2009 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 16 SEPTEMBER 2009 and Regulation EC 2037/2000 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 29 JUNE 2000.
Conflict Materials:	In accordance with US Law: "Dodd Frank Wall Street Reform & Consumer Protection Act", sec. 1502, of 21.07.2010.
GMP:	Good manufacturing process in accordance with 2023/2006 EC.
Hazardous materials:	Do not contain any hazardous substances as described in the Hong Kong International Convention for the Safe and Environmental Sound Recycling of ships, 2009.
Phthalates:	Does not contain phthalates.

Declaration of conformity

Fully-threaded plastic levelling feet

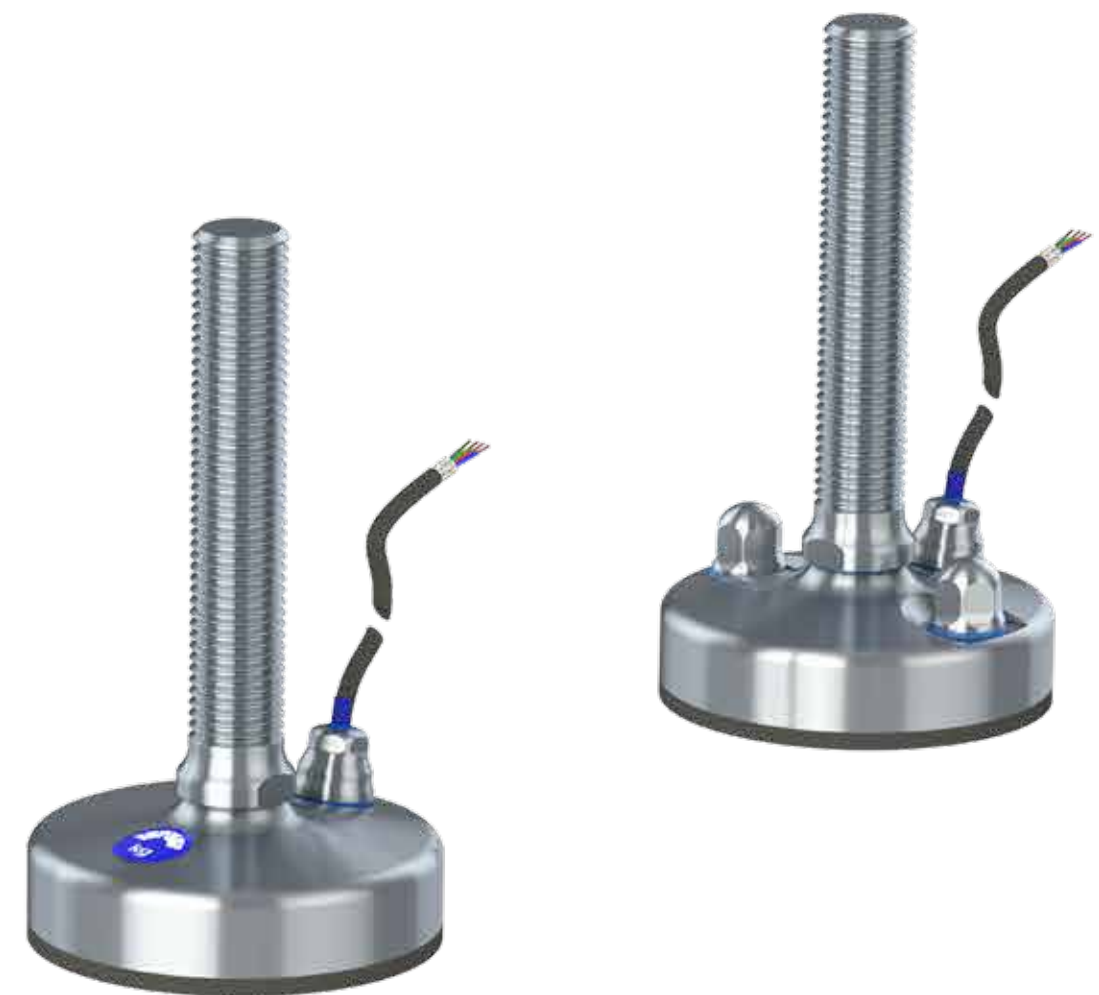
The declaration of materials concerns the following Applications

Application:	Plastic Lid
Material type:	PPC
Electrically:	Non-conductive
Chemical resistance:	High to commonly applied cleaning agents
Color:	Black
Hardness:	Rockwell R 85
Range of temperature:	Min -20 °C to Max 90 °C
Load:	High load capacity
Application:	Anti slip
Material type:	NBR By request EPDM
Electrically:	Non-conductive
Chemical resistance:	High to commonly applied cleaning agents
Color:	Black
Hardness:	Shore A 80 ± 5
Range of temperature:	Min -20 °C to Max 110 °C
Load:	Low load capacity
Application:	Anti slip 2K Bounded
Material type:	TPE
Electrically:	Non-conductive
Chemical resistance:	High to commonly applied cleaning agents
Color:	Black
Hardness:	Shore A 90 ± 5
Range of temperature:	Min -50°C to Max +125 °C
Load:	High load capacity
Application:	Sealing ring between steel components for NGI's machine feet.
Material type:	Silicon rubber
Electrically:	Non-conductive
Chemical resistance:	High to commonly applied cleaning agents
Color:	RAL 5010 (blue)
Hardness:	Shore A 60 ± 5
Range of temperature:	Min -60°C to Max +200 °C
Storage:	According to ISO 2230
Compliance:	
FDA:	Guideline 21 CFR 177.2600
RoHS 2:	In accordance with the Directive 2011/65/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.
GMP:	Good manufacturing process in accordance with 2023/2006 EC.

Fully-threaded Weighing levelling feet

The only weighing levelling feet in the world
with build in standard weighing cell
secured, guided and protected inside the feet

The design and patent protected ngi weighing levelling feet is
the optimal choice for supporting and
easy weighing of machinery, equipment, tanks and vessels



Fully-threaded weighing levelling feet

The design and patent protected NGI Weighing levelling feet is the optimal choice for supporting and easy weighing of machinery, equipment, tanks and vessels.

NGI weighing levelling feet are optimized for the PR 6251 PanCake load cell family to guarantee best weighing performance and a very compact construction, unmatched reliability, robustness and stability, which enable trouble-free operation without adjustment, year after year.



Product Group Features

- Plug n' play height-adjustable compact design
- One-point impact between load cell and spindle ensures direct and friction free transfer of force
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401
- All movable parts are 100% hygienically sealed even if the load on the foot is removed
- All sealing are blue and therefore detectable by scanning systems

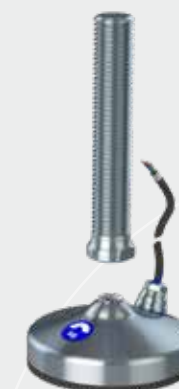


HXW

Special Features

- Maximum weight load 5 ton
- Spindle sizes M20, M24, M30 & M36
- Footplate sizes Ø80, Ø105, Ø125 & Ø150 mm
- Hygienic-oriented design due to self-draining surfaces
- Admits up to 5° slope on floors and equipment
- Vulcanized FDA-approved, anti-vibration, anti-slip rubber blocks out bacteria underneath the footplate and protects the load cell

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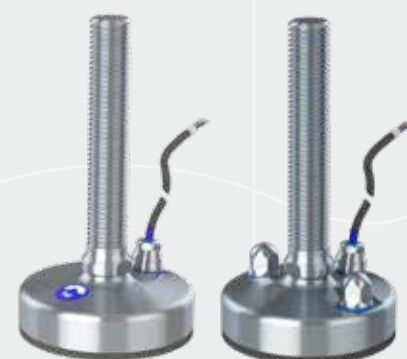


HXGTW

Special Features

- Maximum weight load 5 ton
- Spindle sizes M16, M20, M24, M30 & M36
- Footplate sizes Ø105 & Ø150 mm
- Hygienic-oriented design due to self-draining surfaces
- The footplate and spindle are two separate parts
- Admits up to 10° slope on floors and equipment

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HXGW + HXJW

Special Features

- Footplate diameter Ø105 & Ø150 mm
- Hygienic-oriented design due to self-draining surfaces
- Admits up to 5° slope on floor and equipment
- Top cover with blue sealing detectable by scanning systems
- Ensures hygienic covering of the exposed top
- Available in standardized and customized dimensions
- Optional fixing to the floor

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DECLARATION OF CONFORMITY

This declaration of conformity lists all the directives and standards that NGI adheres to. This ensures that products from NGI are always in compliance with currently valid requirements.

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HXTW

Special Features

- Maximum weight load 5 ton
- Spindle sizes M16, M20, M24, M30 & M36
- Footplate sizes Ø80, Ø105, Ø125 & Ø150mm
- Hygienic-oriented design due to self-draining surfaces
- The footplate and spindle are two separate parts
- Admits up to 10° slope on floors and equipment
- Vulcanized FDA-approved, anti-vibration, anti-slip rubber blocks out bacteria underneath the footplate and protects the load cell

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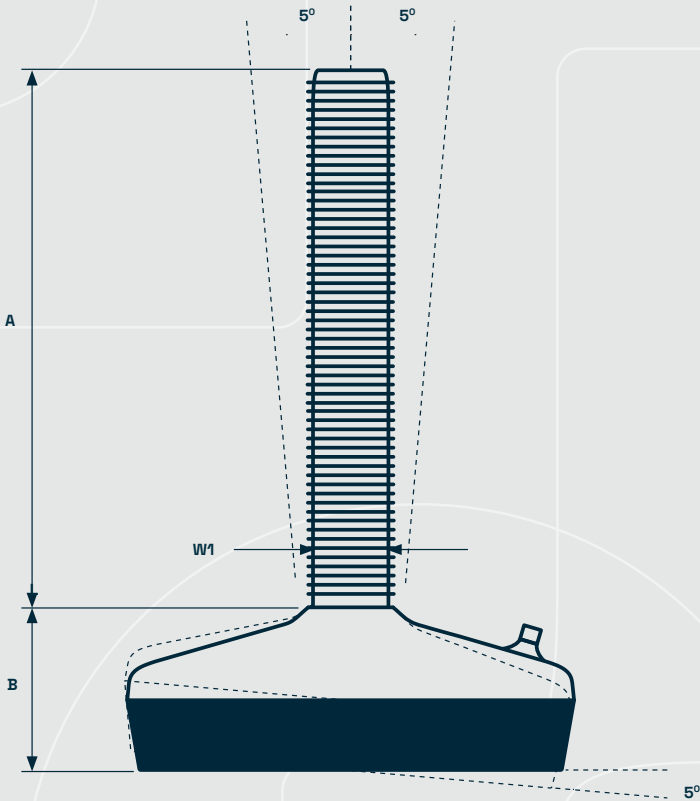
Fully-threaded weighing levelling feet - HXW

The design and patent protected HXW weighing levelling foot is the optimal choice for supporting and weighing machinery, equipment, tanks and vessels. The load cell is secured, guided and protected inside the foot.

- Secured: Load cell is secured against hazardous mechanical external impacts
- Guided: Can obtain strong forces in all directions without affecting the load cell
- Protected: Against external influences like corrosion, temperatures and bacteria

The HXW levelling foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate and protects the load cell.

- Maintenance free and height-adjustable compact design
- Simple and fast installation - no mounting kit needed
- The different load cells cover a span of 30kg to 5000 kg
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401



Fully-threaded weighing levelling feet - HXW



PRODUCT CODE	FOOT	-	SPINDLE	-	LOAD CELL
EXAMPLE	HXW105	-	HXLM1224150	-	PR6211/32D1

FOOT PLATE



TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	LOAD CELL NOM LOAD [KG]	ITEM CODE
80	80	39	30/50/100/200/300	HXW080
105	105	40	30/50/100/200/300	HXW105
125	125	45	500/1000/2000/3000/5000	HXW125
150	150	46	500/1000/2000/3000/5000	HXW150

SPINDLE



TYPE ▶	70	100	150	180	230	310	W1 [mm]
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	
M20	49.000	49.000	49.000	48.000	30.000	15.000	20
M24	70.000	70.000	70.000	70.000	65.000	35.000	20
M30	112.500	112.500	112.500	112.500	112.500	95.000	20
M36	162.000	162.000	162.000	162.000	162.000	162.000	36
M42	220.000	220.000	220.000	220.000	220.000	220.000	36
HEIGHT A [mm] ▶	70	100	150	180	230	310	

LOAD CELL
MIN. THREAD
[OUTPUT]
2mV/V
4-20mA

30 KG	50 KG	100 KG	200 KG	300 KG	500 KG M24	1.000 KG M24	2.000 KG M30	3.000 KG M30	5.000 KG M30
PR6211/31D1	PR6211/51D1	PR6211/12D1	PR6211/13D1	PR6211/32D1	PR6251/52L	PR6251/13L	PR6251/23L	PR6251/33L	PR6251/53L
-	-	-	-	-	PR6251/52LA	PR6251/13LA	PR6251/23LA	PR6251/33LA	PR6251/53LA



Maximum nominal load
Tolerance of total height

= Lowest value for load cell or spindle
= +/-1,5 mm

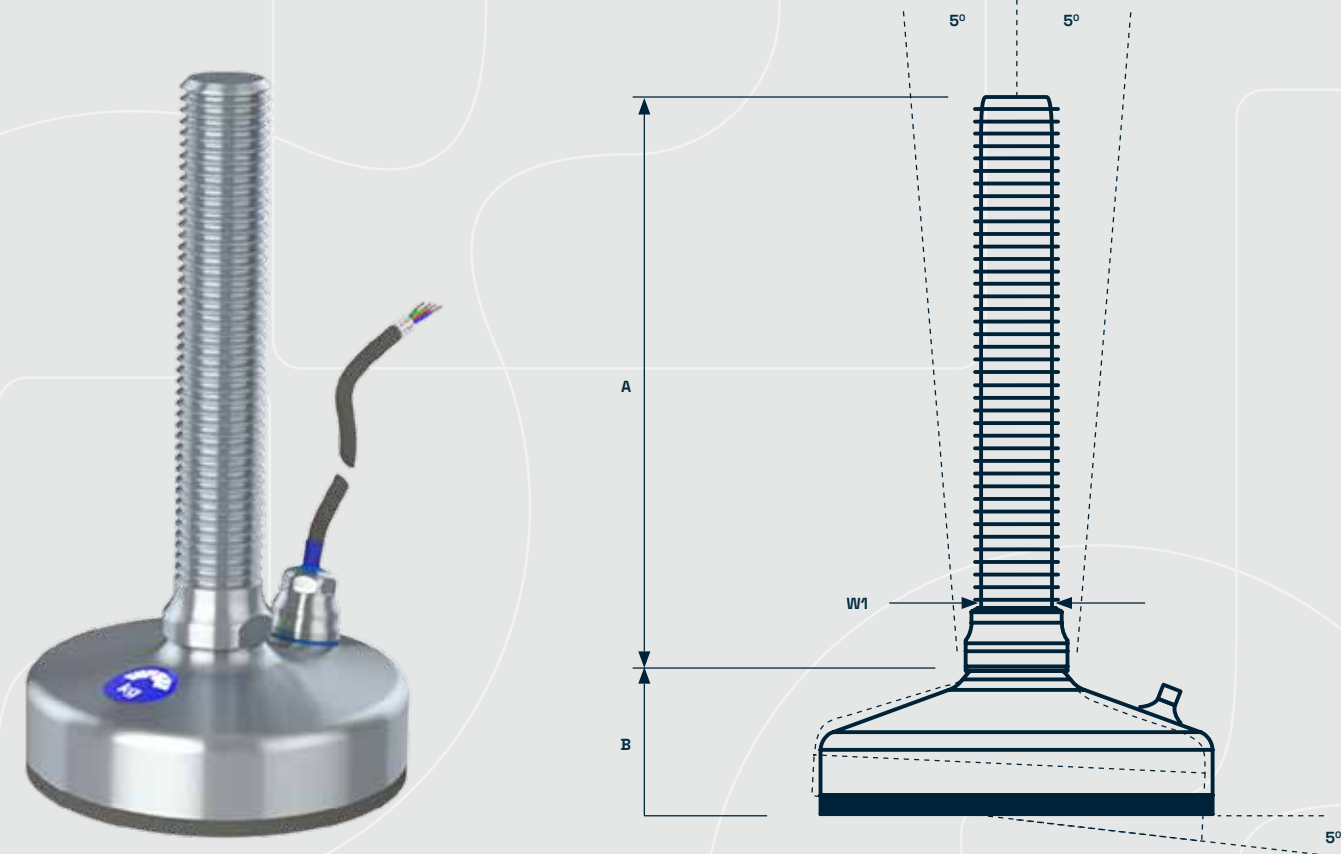
Fully-threaded weighing levelling feet - HXGW

The design and patent protected HXGW weighing levelling foot is the optimal choice for supporting and weighing machinery, equipment, tanks and vessels. The load cell is secured, guided and protected inside the foot.

- Secured: Load cell is secured against hazardous mechanical external impacts
- Guided: Can obtain strong forces in all directions without affecting the load cell
- Protected: Against external influences like corrosion, temperatures and bacteria

The HXGW levelling foot is hygienically sealed to the floor by rubber sealing which blocks out bacteria underneath the footplate and protects the load cell.

- Maintenance free and height-adjustable compact design
- Simple and fast installation - no mounting kit needed
- The different load cells cover a span of 30 kg to 5.000 kg
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401



Fully-threaded weighing levelling feet - HXGW



FOOT PLATE



SPINDLE



PRODUCT CODE	FOOT	SPINDLE	LOAD CELL
EXAMPLE	HXGW105 - HXJGM1224150 - PR6211/32D1		

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	LOAD CELL NOM LOAD [KG]	ITEM CODE
105	104	39	30/50/100/200/300	HXGW105
150	149	45	500/1000/2000/3000/5000	HXGW150

TYPE ▶	70	100	150	180	230	310	W1 [mm]
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	
M20	49.000	49.000	49.000	48.000	30.000	15.000	20
M24	70.000	70.000	70.000	70.000	65.000	35.000	20
M30	112.500	112.500	112.500	112.500	112.500	95.000	20
M36	162.000	162.000	162.000	162.000	162.000	162.000	36
M42	220.000	220.000	220.000	220.000	220.000	220.000	36
HEIGHT A [mm] ▶	70	100	150	180	230	310	

LOAD CELL
MIN. THREAD
[OUTPUT]
2mV/V
4-20mA

30 KG	50 KG	100 KG M16	200 KG	300 KG	500 KG M24	1.000 KG M24	2.000 KG M30	3.000 KG M30	5.000 KG M30
PR6211/31D1	PR6211/51D1	PR6211/12D1	PR6211/13D1	PR6211/32D1	PR6251/52L	PR6251/13L	PR6251/23L	PR6251/33L	PR6251/53L
-	-	-	-	-	PR6251/52LA	PR6251/13LA	PR6251/23LA	PR6251/33LA	PR6251/53LA



Maximum nominal load
Tolerance of total height

= Lowest value for load cell or spindle
= +/-1,5 mm

Fully-threaded weighing levelling feet - HXJW

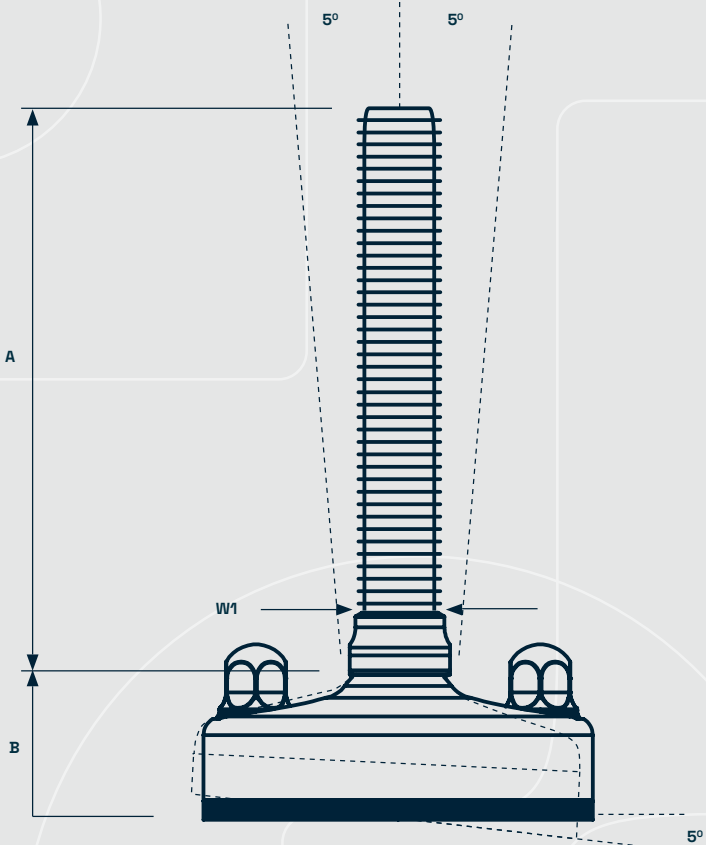
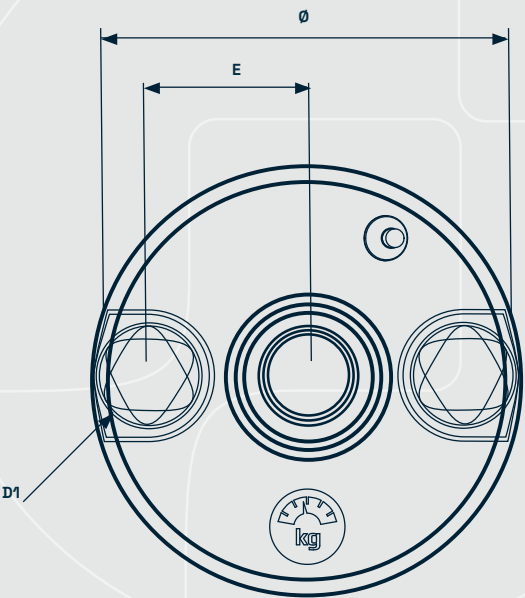
The design and patent protected HXJW weighing levelling foot is the optimal choice for supporting and weighing machinery, equipment, tanks and vessels. The load cell is secured, guided and protected inside the foot.

- Secured: Load cell is secured against hazardous mechanical external impacts
- Guided: Can obtain strong forces in all directions without affecting the load cell
- Protected: Against external influences like corrosion, temperatures and bacteria

The HXJW is designed to be fastened to the floor by the two fixing holes in the footplate.

The HXJW levelling foot is hygienically sealed to the floor by rubber sealing which blocks out bacteria underneath the footplate and protects the load cell.

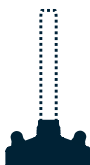
- Maintenance free and height-adjustable compact design
- Simple and fast installation - no mounting kit needed
- The different load cells cover a span of 30 kg to 5.000 kg
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401



Fully-threaded weighing levelling feet - HXJW



FOOT PLATE



SPINDLE



PRODUCT CODE	FOOT	-	SPINDLE	-	LOAD CELL
EXAMPLE	XHJW105	-	XHJGM1220150	-	RHOX2050 - PR6211/32D1

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	LOAD CELL NOM LOAD [KG]	ITEM CODE
105	104	39	37,75	13	30/50/100/200/300	HXJW105
150	149	45	58	13	500/1000/2000/3000/5000	HXJW150

TYPE ▶	70	100	150	180	230	310	W1 [mm]
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	
M20	49.000	49.000	49.000	48.000	30.000	15.000	20
M24	70.000	70.000	70.000	70.000	65.000	35.000	20
M30	112.500	112.500	112.500	112.500	112.500	95.000	20
M36	162.000	162.000	162.000	162.000	162.000	162.000	36
M42	220.000	220.000	220.000	220.000	220.000	220.000	36
HEIGHT A [mm] ▶	70	100	150	180	230	310	

LOAD CELL
MIN. THREAD
[OUTPUT]
2mV/V
4-20mA

30 KG	50 KG	100 KG M16	200 KG	300 KG	500 KG M24	1.000 KG M24	2.000 KG M30	3.000 KG M30	5.000 KG M30
PR6211/31D1	PR6211/51D1	PR6211/12D1	PR6211/13D1	PR6211/32D1	PR6251/52L	PR6251/13L	PR6251/23L	PR6251/33L	PR6251/53L
-	-	-	-	-	PR6251/52LA	PR6251/13LA	PR6251/23LA	PR6251/33LA	PR6251/53LA



Maximum nominal load
Tolerance of total height
= Lowest value for load cell or spindle
= +/-1,5 mm

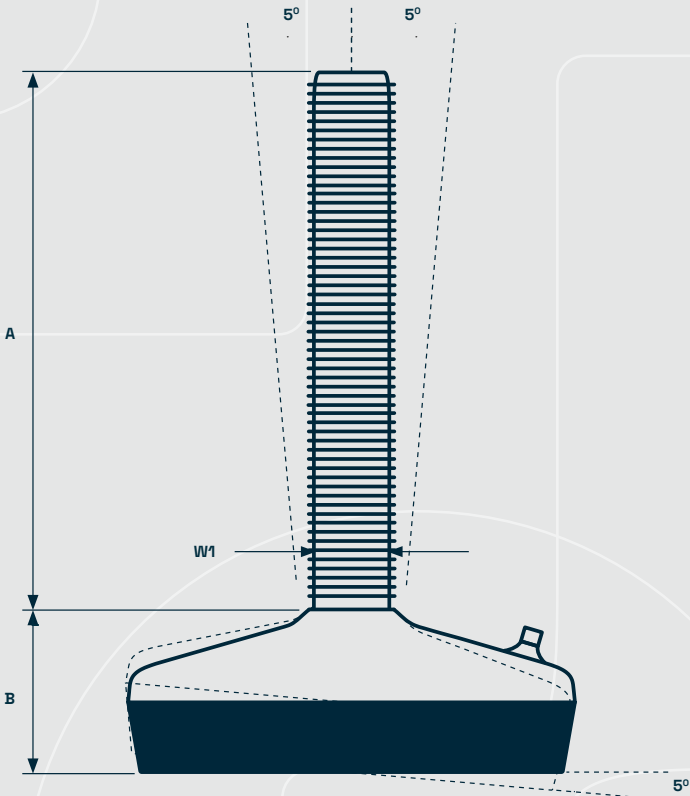
Fully-threaded weighing levelling feet - HXTW

The design and patent protected HXTW weighing levelling foot is the optimal choice for supporting and weighing machinery, equipment, tanks and vessels. The load cell is secured, guided and protected inside the foot.

- Secured: Load cell is secured against hazardous mechanical external impacts
- Guided: Can obtain strong forces in all directions without affecting the load cell
- Protected: Against external influences like corrosion, temperatures and bacteria

The HXTW consists of a separated footplate and spindle connected by the diametrically centered elevation on the weighing footplate. Additionally, the levelling foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate and protects the load cell.

- Maintenance free and height-adjustable compact design
- Simple and fast installation - no mounting kit needed
- The different load cells cover a span of 30 kg to 5000 kg
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401



Fully-threaded weighing levelling feet - HXTW



FOOT PLATE



SPINDLE



PRODUCT CODE	FOOT	SPINDLE	LOAD CELL
EXAMPLE	HXTW105	- HXL24150	- PR6211/32D1

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	LOAD CELL NOM LOAD [KG]	ITEM CODE
80	80	39	30/50/100/200/300	HXTW080
105	105	40	30/50/100/200/300	HXTW105
125	125	45	500/1000/2000/3000/5000	HXTW250
150	150	46	500/1000/2000/3000/5000	HXTW250

TYPE	70	100	150	180	230	310	W1
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	[mm]
M16	30.000	30.000	30.000	22.000	13.000	7.000	20
M20	49.000	49.000	49.000	48.000	30.000	15.000	20
M24	70.000	70.000	70.000	70.000	65.000	35.000	20
M30	112.500	112.500	112.500	112.500	112.500	95.000	20
M36	162.000	162.000	162.000	162.000	162.000	162.000	36
M42	220.000	220.000	220.000	220.000	220.000	220.000	36
HEIGHT A [mm]	70	100	150	180	230	310	

LOAD CELL MIN. THREAD [OUTPUT]	30 KG	50 KG	100 KG M16	200 KG	300 KG	500 KG M24	1.000 KG M24	2.000 KG M30	3.000 KG M30	5.000 KG M30
2mV/V	PR6211/31D1	PR6211/51D1	PR6211/12D1	PR6211/13D1	PR6211/32D1	PR6251/52L	PR6251/13L	PR6251/23L	PR6251/33L	PR6251/53L
4-20mA	-	-	-	-	-	PR6251/52LA	PR6251/13LA	PR6251/23LA	PR6251/33LA	PR6251/53LA



Maximum nominal load
Tolerance of total height

= Lowest value for load cell or spindle
= +/-1,5 mm

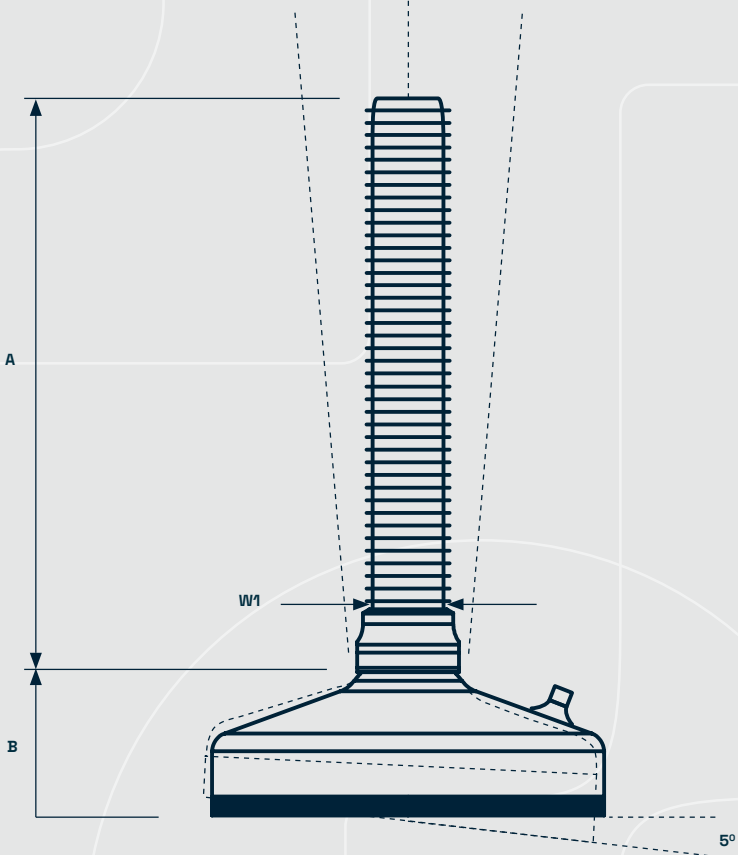
Fully-threaded weighing levelling feet - HXGTW

The design and patent protected HXGTW weighing levelling foot is the optimal choice for supporting and weighing machinery, equipment, tanks and vessels. The load cell is secured, guided and protected inside the foot.

- Secured: Load cell is secured against hazardous mechanical external impacts
- Guided: Can obtain strong forces in all directions without affecting the load cell
- Protected: Against external influences like corrosion, temperatures and bacteria

The HXGTW consists of a separated footplate and spindle connected by the diametrically centered elevation on the weighing footplate. The HXGTW levelling foot is hygienically sealed to the floor by rubber sealing which blocks out bacteria underneath the footplate and protects the load cell.

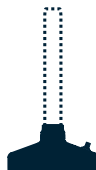
- Maintenance free and height-adjustable compact design
- Simple and fast installation - no mounting kit needed
- The different load cells cover a span of 30 kg to 5.000 kg
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401



Fully-threaded weighing levelling feet - HXGTW



FOOT PLATE



SPINDLE



PRODUCT CODE	FOOT	-	SPINDLE	-	LOAD CELL
EXAMPLE	HXGTW105	-	HXT24150	-	PR6211/32D1

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	LOAD CELL NOM LOAD [KG]	ITEM CODE
105	104	39	30/50/100/200/300	HXGTW105
150	149	45	500/1000/2000/3000/5000	HXGTW150

TYPE ▶	70	100	150	180	230	310	W1
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	[mm]
M16	30.000	30.000	30.000	22.000	13.000	7.000	20
M20	49.000	49.000	49.000	48.000	30.000	15.000	20
M24	70.000	70.000	70.000	70.000	65.000	35.000	20
M30	112.500	112.500	112.500	112.500	112.500	95.000	20
M36	162.000	162.000	162.000	162.000	162.000	162.000	36
M42	220.000	220.000	220.000	220.000	220.000	220.000	36
HEIGHT A [mm] ▶	70	100	150	180	230	310	

LOAD CELL MIN. THREAD [OUTPUT] 2mV/V 4-20mA	30 KG	50 KG	100 KG M16	200 KG	300 KG	500 KG M24	1.000 KG M24	2.000 KG M30	3.000 KG M30	5.000 KG M30
	PR6211/31D1	PR6211/51D1	PR6211/12D1	PR6211/13D1	PR6211/32D1	PR6251/52L	PR6251/13L	PR6251/23L	PR6251/33L	PR6251/53L
	-	-	-	-	-	PR6251/52LA	PR6251/13LA	PR6251/23LA	PR6251/33LA	PR6251/53LA



Maximum nominal load Tolerance of total height = Lowest value for load cell or spindle = +/-1,5 mm

Declaration of conformity

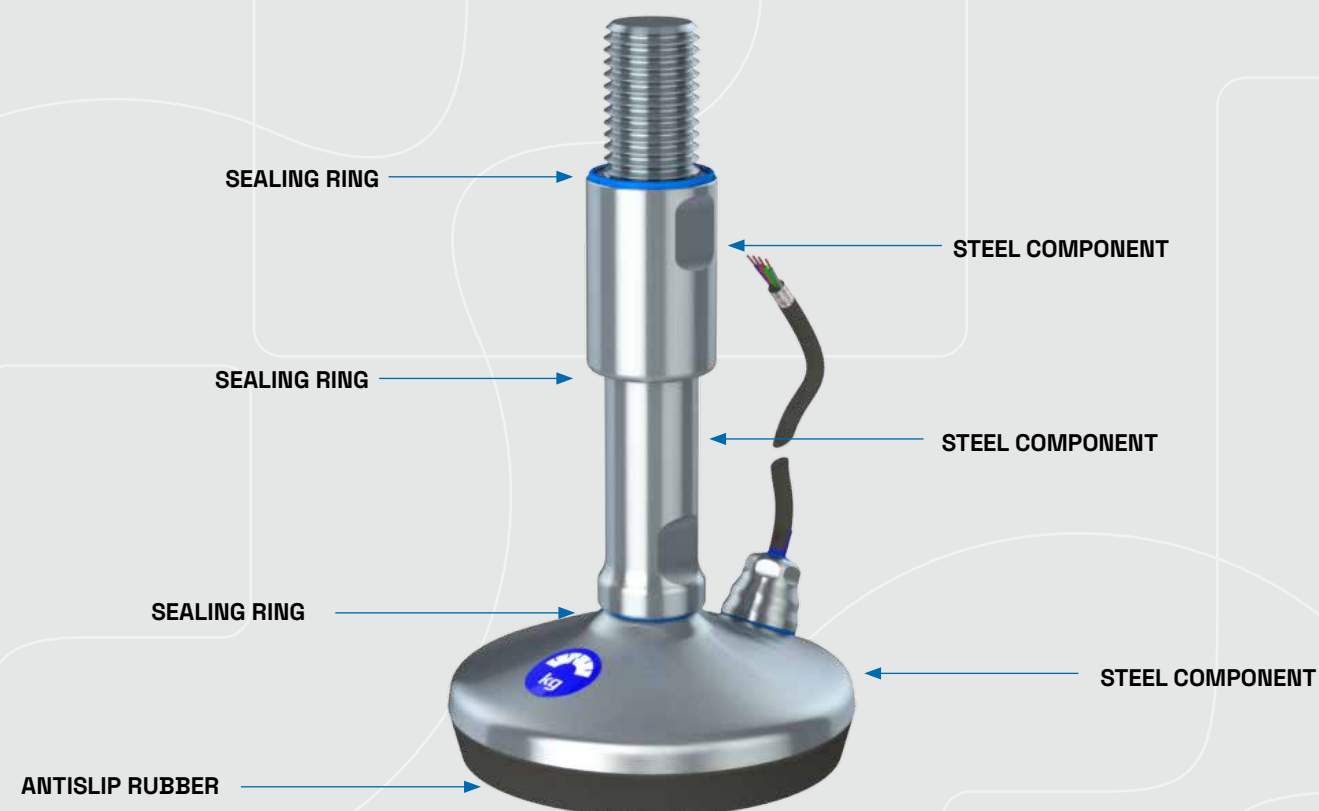
Weighing levelling feet



NGI A/S fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentive follow the revisions/amendments to these directives and will design our products accordingly. This ensures that products from NGI A/S are always in compliance with currently valid requirements.

Our type of products is not covered by the scope of application of the EC directive on machinery. For this reason, they cannot be furnished with the CE marking in accordance with the EC directive on machinery. NGI A/S, Virkelyst 3-7, 9400 Nørresundby, hereby declare that the listed materials applied for the products comply with the demands for materials used within the food and pharmaceutical industry.

Furthermore, we declare that the listed materials applied for the products comply with the demands for materials used within the food and pharmaceutical industries.



Declaration of conformity

Weighing levelling feet

Materials, Surface Roughness, Fabrication and Geometry

Metallic surfaces are constructed from Stainless steel, AISI 304/A2 or by request Stainless steel, AISI 316/A4 and are corrosion resistant under the specified conditions of use including those of cleaning.

The elastomeric components are constructed from FDA approved NBR and silicone material. All materials used are considered non-toxic and are non-absorbent.

All exposed metallic surfaces are finished to maximum surface roughness values of 1.6 pm Ra. All elastomeric components and sealing washers are left as molded with no hand trimming and all surfaces are considered smooth enough to ensure that cleaning is easy.

There are no exposed dissimilar metal-to-metal contact areas in the construction where galvanic corrosion could occur.

Sealing designs permit access for easy cleaning with no inaccessible pockets or crevices.

There are no risk of exposed threads and no unsealed metal-to-metal joints in the finished construction.

All exposed surfaces have a smooth finish such that soil may be cleaned from the surface using manual cleaning techniques and be free of pits, folds, cracks, crevices, and other imperfections in the final fabricated form.

Drainability and Installation

The units are designed to be self-draining and contain no horizontal ledges.

Comprehensive instructions are provided containing detailed information to ensure compliance with the 3-A and EHEDG design criteria, when the product is certified.

The 3-A Sanitary Standard 88-00 requires that when machine leveling feet or supports are properly mounted on the equipment, they shall provide a minimum clearance between the lowest part of the equipment and the floor of not less than 4.0 in. (102 mm) if the equipment outlines an area in which no point is more than 12.5 in. (318 mm) from its nearest edge. If the equipment outlines an area in which any point is more than 12.5 in. (318mm) from its nearest edge the clearance shall be at least 6 in. (152mm).

The EHEDG guideline recommends a minimum clearance between the equipment and the floor or wall of 300mm for easy cleaning and inspection.

When fasteners are required, only domed head screws and dome headed nuts must be used. The exposed interfaces shall be sealed with sealing washers and there must be no threads exposed in the installed configuration of the machine feet.

Declaration of conformity

Weighing levelling feet



Maintenance and Cleaning

Foot bases can be sealed to the floor if required. The instructions make recommendations not to span over floor imperfections or grout lines without the addition of proper sealing compounds.

Maximum torque values are specified as appropriate on fastening arrangements to avoid over-compression of sealing washers and gaskets.

Maintenance instructions are clearly defined and prohibit the use of non-genuine replacement parts.

Cleaning instructions describe typical cleaning procedures with recommended maximum temperatures/pressures and stipulate the use of non-abrasive cleaning aids.

The design does not contain dead spaces and avoid accumulation of soil, microorganism's insects and other vermin in areas which cannot be easily cleaned.

Adhesives, Lubricants, Insulation and Signal Transfer Liquids

Sealing and thread locking compounds used in the construction are non-toxic in the cured state.

No lubricants, insulation material or signal transfer liquids are used in the construction.

Standards and directives

EN 1672-2:2005 Food machinery / General design principles/Part 2: Hygiene requirements.

EN ISO 14 159 2004 Safety of machinery – Hygiene requirements for the design of machinery.

Document 13 EHEDG guideline on the hygienic design of apparatus for open processes.

Similar NGI designs meets the criteria for Hygienic Equipment Class I for components situated in the non-food area and are accessible for easy cleaning without dismantling.

The weighing levelling feet design is according to 3-A Sanitary Standard for Machine Leveling Feet and Supports.

Certified according to USDA Guidelines "Dairy Equipment and NSF ANSI 3-A 14159-1-2014" for the sanitary design and fabrication.

EU regulations

852/2004 on the hygiene of foodstuffs.

853/2004 specific hygiene rules for food of animal origin.

854/2004 specific rules for the organization of official controls on products of animal origin intended for human consumption.

1935/2004 on materials and articles intended to come into contact with food

Declaration of conformity

Weighing levelling feet



The declaration of materials concerns the following Applications

Application:

Material type:

Compliance:

STEEL COMPONENT

Stainless steel, AISI 304/A2 (X5CrNi18-10), Euro norm 1.4301.
By request: Stainless steel, AISI 316/A4 (X 5 CrNiMo 17 12 2), Euronorm 1.4401
EN 10204 Type 2.2. NGI A/S states that the product is in compliance with the order with indication of results of nonspecific inspection.

NGI A/S has got EN 10204 type 3.1 inspection certificates on all material used in the products but not specified for each foot.

In the directive 94/9/EC, Equipment for potentially explosive atmospheres, also known as the ATEX directive, equipment without its own potential source of ignition are not covered, nor shall be marked according to the directive. However, NGI levelling feet are suitable for use in all ATEX zones.

Application:

Material type:

Color:

Hardness:

Range of temperature:

Load:

Vulcanized antislip rubber foot base (for 0-5 ton)

NBR (NNF-75)

Black

72 ± 3 Shore A DIN 53 505

Min -35°C to Max +110°C

Low load capacity

Compliance:

REACH:

In accordance with regulation EC 1907/2006.
Do not contain any substances above 0.1% (w/w) from:
The Candidate List of Substances of Very High Concern (16.01.2020).
Annex XVII (19-11-2019)

RoHS 2 & RoHS 3

In accordance with the directive 2002/95/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 27 JANUARY.

ADI free:

Does not contain any substances originating from humans or animals.

Bisphenols:

Does not contain Bisphenols as described in 1895/2005/EEC. Nor BPA, BADGA, BFDGE or NOGE.

ODS:

Does not contain ozone depleting substances. In accordance with the Regulation EC 1005/2009 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 16 SEPTEMBER 2009 and Regulation EC 2037/2000 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 29 JUNE 2000.

Conflict:

In accordance with US Law: "Dodd Frank Wall Street Reform & Consumer

Materials:

GMP:

Protection Act", sec. 1502, of 21.07.2010.
Good manufacturing process in accordance with 2023/2006 EC.

Hazardous materials:

Does not contain any hazardous substances as described in the Hong Kong International Convention for the Safe and Environmental. Sound Recycling of ships, 2009.

Phthalates:

Does not contain phthalates.

FDA:

Guideline 21 CFR 177.2600

Application:

Material type:

Electrically:

Chemical resistance:

Sealing ring

Silicon rubber

Non-conductive

High to commonly applied cleaning agents

Hardness: Shore A 60 ± 5

RAL 5010 (blue)

Min -60°C to Max +200°C

According to ISO 2230

FDA: Guideline 21 CFR 177.2600

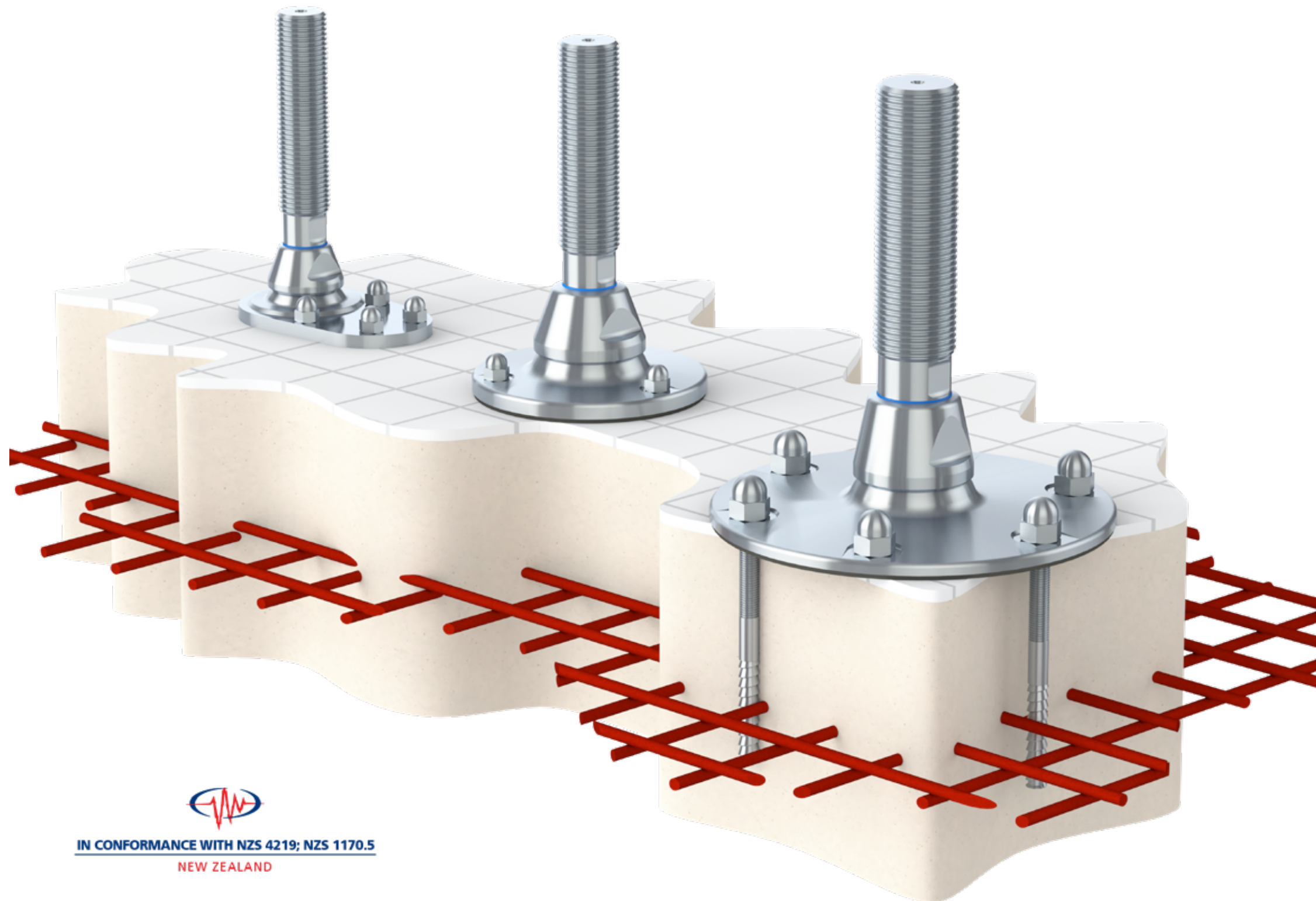
RoHS 2: In accordance with the Directive 2011/65/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.

GMP: Good manufacturing process in accordance with 2023/2006 EC.

Fully-threaded Seismic levelling feet

The only seismic levelling feet in the world designed and
calculated according to the
international new zealand seismic standard

The NGL seismic foot is capable of withstanding earthquakes
due to its ability to withstand combinations of vertical and
horizontal loads



IN CONFORMANCE WITH NZS 4219; NZS 1170.5
NEW ZEALAND

Fully-threaded seismic levelling feet

Our seismic levelling foot has been developed and tested using the Finite Element Method (FEA) and is compliant with the governmental regulations of California and New Zealand - (NZS 4219:2009).

Our seismic foot is capable of withstanding earthquakes due to its ability to withstand combinations of vertical and horizontal loads. The NGI seismic product configurator combines earthquake risk data in the geographic area with data about your specific equipment. The result of this detailed analysis will help you select the optimal solution in terms of safety and minimizing the risk of damage to your machinery and equipment caused by earthquakes.



IN CONFORMANCE WITH NZS 4219; NZS 1170.5
NEW ZEALAND

Product Group Features

- Simple and fast installation with height-adjustable compact design
- Movable set-up - no concrete molding required
- Total seismic stability through bolted fastening and patented locking mechanism
- Verified through Finite Element Analysis (FEA) and calculated according to New Zealand seismic standard (NZS 4219)
- Seismic anchors chosen and approved by our experienced partner Hilti
- Optional certified hygienic nuts from NGI
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401



HXJE (S)

Special Features

- Spindle sizes M30, M36, M42, M48 & M56 mm
- Available in two standard lengths per diameter size
- Circular arrangement of anchors for best seismic performance
- Sealed to the floor by rubber sealing

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HXJCFE (L)

Special Features

- Spindle sizes M56, M64, M80 & M90 mm
- Anchors decentered at one side of the spindle
- Available in two standard lengths per diameter size
- Not sealed to the floor

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HXJE (L)

Special Features

- Spindle sizes M56, M64, M72, M80 & M90 mm
- Available in two standard lengths per diameter size
- Circular arrangement of anchors for best seismic performance
- Sealed to the floor by rubber sealing

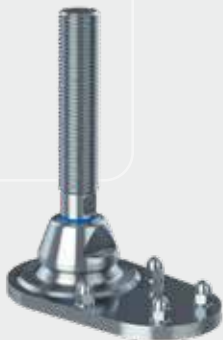
250



DECLARATION OF CONFORMITY

This declaration of conformity lists all the directives and standards that NGI adheres to. This ensures that products from NGI are always in compliance with currently valid requirements.

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HXJCFE (S)

Special Features

- Spindle sizes M30, M36, M42, M48 & M56 mm
- Anchors decentered at one side of the spindle
- Available in two standard lengths per diameter size
- Not sealed to the floor

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Accessories for seismic levelling feet

Installing seismic levelling feet requires several tools and accessories. NGI has teamed up with HILTI, the specialist for seismic anchoring, to offer a complete seismic installation kit for your seismic project. NGI is able to deliver all necessary accessories which ensures a quick and easy installation of the seismic levelling feet. It is important to use seismic approved accessories when fastening seismic feet. If not correctly installed it will meet neither 3A, USDA or EHEDG hygienic demands nor the seismic load specifications.



DOME HEADED NUTS & WASHERS

Special Features

- Stainless steel AISI 304/A2, 1.4301
- Standard dome-headed nuts (DIN 1587 A2)
- All dimensions available

320



ANCHORS

Special Features

- Stainless steel A4
- PROFIS software
- Base materials: concrete (cracked), concrete (uncracked), masonry (solid)

334



NGI WRENCHES

Special Features

XHJSE machine feet need three different wrenches for installation. NGI wrenches are laser cut and designed to fit NGI machine feet.

330



HILTI TOOLS

Special Features

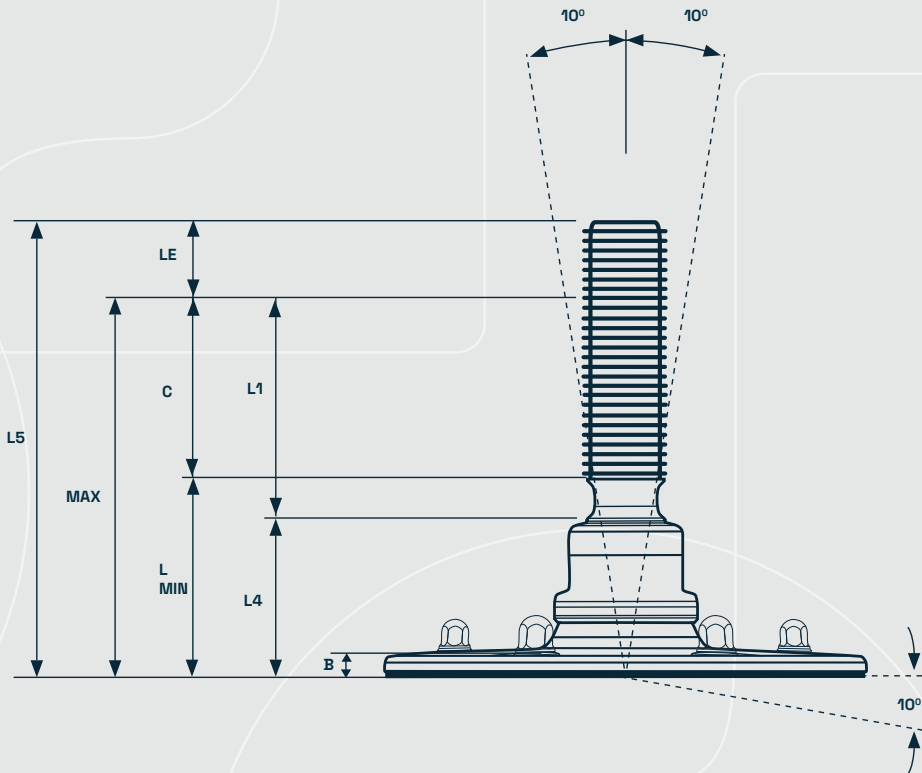
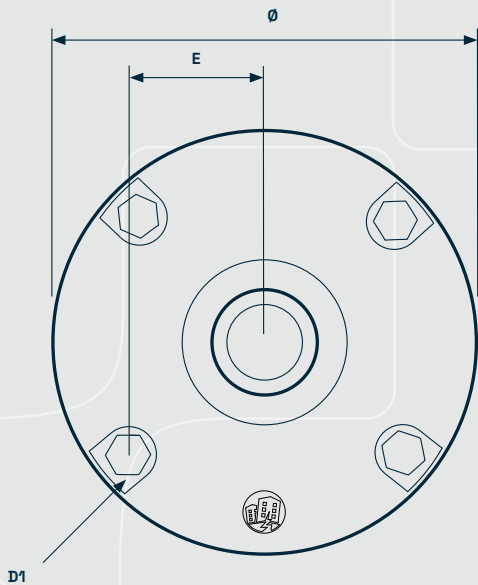
Hilti's seismic research includes detailed investigation of product performance under simulated seismic conditions and full-scale system testing.

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Fully-threaded seismic levelling feet - HXJE (S)

The design and patent protected seismic HXJE (S) levelling foot is the optimal choice for all machinery, equipment, tanks and vessels located in areas subject to earthquakes and at the same time need to benefit from a long levelling range.

- Simple and fast installation with height-adjustable compact design
- Movable set-up - no concrete molding required
- Total seismic stability through bolted fastening and patented locking mechanism
- Verified through Finite Element Analysis (FEA) and calculated according to New Zealand seismic standard (NZS 4219)
- Seismic anchors chosen and approved by our experienced partner Hilti
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401



Fully-threaded seismic levelling feet - HXJE (S)



FOOT PLATE



SPINDLE

PRODUCT CODE	FOOT - SPINDLE
EXAMPLE	HXJE150(S)-HXE30150

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLES [PSC]	BOLT TYPE [SIZE]	POSITION E [mm]	NOM. PULL TENSION [N]	ITEM CODE
150	149	19	3	M10x160	60	28000	HXJE150(S)
200	199	16,5	4	M12x155	80	38000	HXJE200(S)
250	249	15	4	M16x205	101	61.000	HXJE250(S)
300	299	12	6	M20x250	121	80000	HXJE300(S)

THREAD	HEIGHT L1 [mm]	HEIGHT L4 [mm]	HEIGHT L5 [mm]	L MIN* [mm]	NOM LOAD COMPRESSION [N]	MAX HORIZONTAL LOAD SHEAR [N]	ITEM CODE
M30	127	77	228	105	60.000	2100	HXE(S)30150
M30	187	77	288	105	60.000	1300	HXE(S)30210
M36	115	77	221	105	96.000	3500	HXE(S)36150
M36	182	77	288	105	96.000	2200	HXE(S)36210
M42	117	82	233	110	140.000	4900	HXE(S)42150
M42	182	82	298	110	140.000	3200	HXE(S)42210
M48	163	82	283	120	140.000	6900	HXE(S)48200
M48	223	82	343	120	140.000	4800	HXE(S)48260
M56	151	82	278	120	140.000	13100	HXE(S)56200
M56	216	82	343	120	140.000	8900	HXE(S)56260

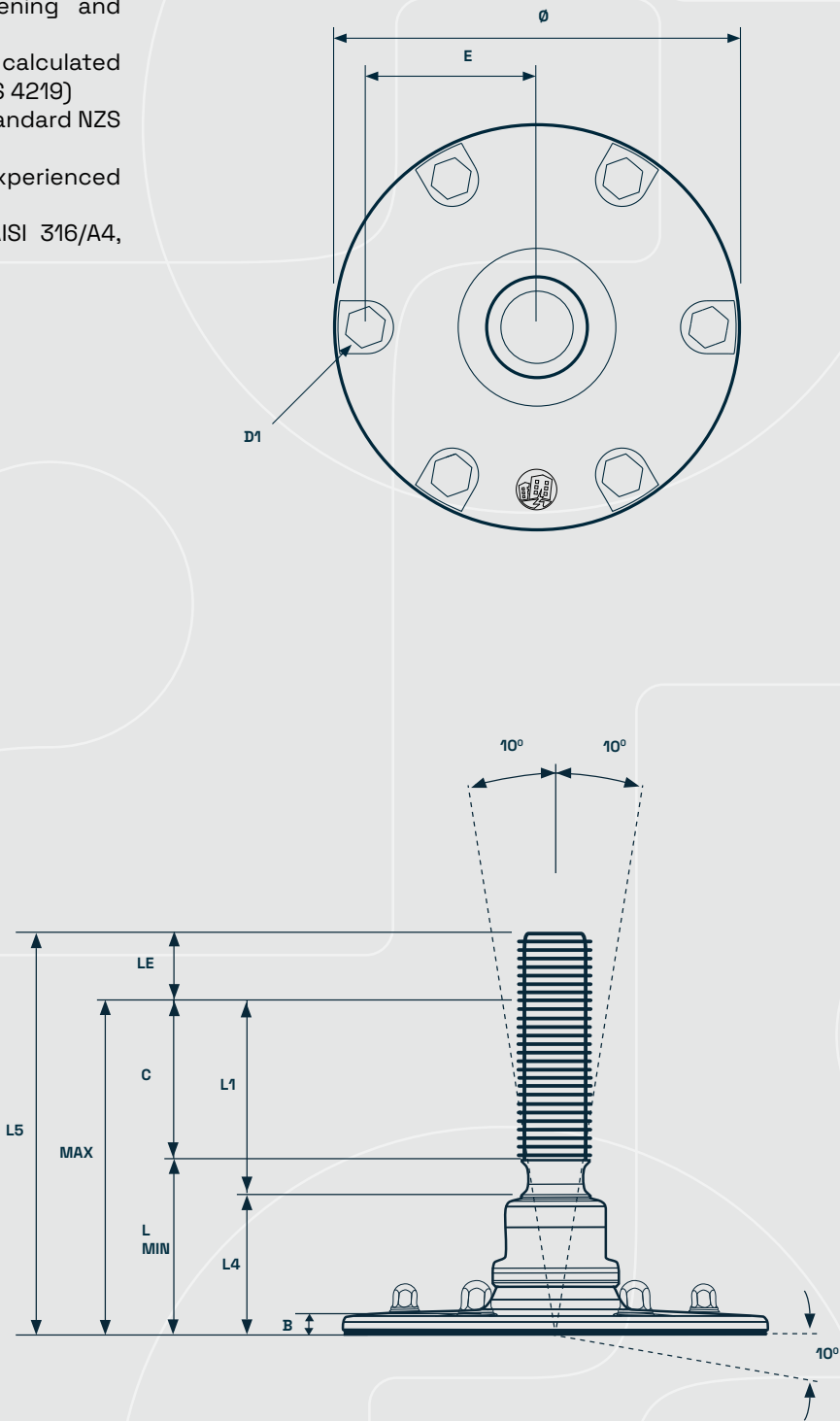


*L MIN is calculated without use of nut on spindle

Fully-threaded seismic levelling feet - HXJE (L)

The design and patent protected seismic HXJE (L) levelling foot is the optimal choice for all machinery, equipment, tanks and vessels located in areas subject to earthquakes and at the same time need to benefit from a long levelling range.

- Simple and fast installation with height-adjustable compact design
- Adjustment through flat at the bottom of spindle
- Movable set-up - no concrete molding required
- Total seismic stability through bolted fastening and patented locking mechanism
- Verified through Finite Element Analysis (FEA) and calculated according to New Zealand seismic standard (NZS 4219)
- Calculated according to New Zealand seismic standard NZS 4219
- Seismic anchors chosen and approved by our experienced partner Hilti
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401



Fully-threaded seismic levelling feet - HXJE (L)



PRODUCT CODE

EXAMPLE

FOOT - SPINDLE

HXJE300(L)-HXE80250

FOOT PLATE



TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLES [PSC]	BOLT TYPE [SIZE]	POSITION E [mm]	NOM. PULL TENSION [N]	ITEM CODE
250	249	22	3	M16x240	101	63000	HXJE250(L)
300	299	19	4	M20x250	121	82000	HXJE300(L)
350	349	18	6	M20x250	142	90.000	HXJE350(L)
400	399	17	6	M24x330	166	126000	HXJE400(L)

SPINDLE



THREAD	HEIGHT L1 [mm]	HEIGHT L4 [mm]	HEIGHT L5 [mm]	L MIN* [mm]	NOM LOAD COMPRESSION [N]	MAX HORIZONTAL LOAD SHEAR [N]	ITEM CODE
M56	151	118	314	199	188.000	11800	HXE(L)56200
M56	216	118	379	199	188.000	8000	HXE(L)56260
M64	150	118	319	206	236.000	17800	HXE(L)64200
M64	210	118	379	206	236.000	12500	HXE(L)64260
M72	193	129	380	223	327.000	22200	HXE(L)72250
M72	251	129	438	223	327.000	16300	HXE(L)72310
M80	187	129	380	234	432.000	30800	HXE(L)80250
M80	145	129	438	234	432.000	22600	HXE(L)80310
M90	179	129	380	241	432.000	50500	HXE(L)90250
M90	237	129	438	241	432.000	37100	HXE(L)90310

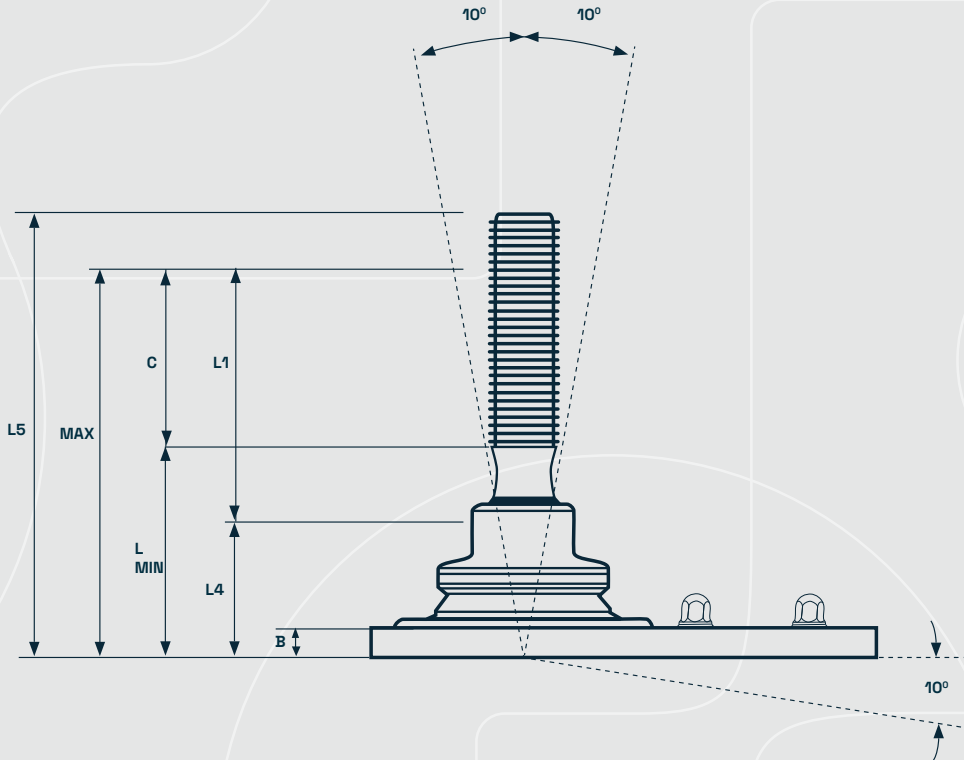
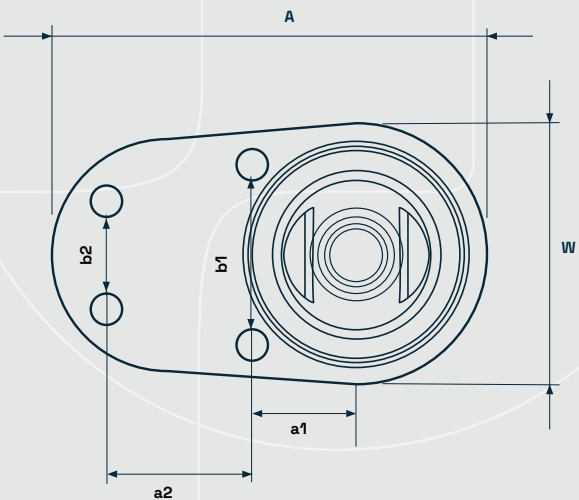


*L MIN is calculated without use of nut on spindle

Fully-threaded seismic levelling feet - HXJCFE (S)

The design and patent protected seismic HXJCFE (S) levelling foot is the optimal choice for all machinery, equipment, tanks and vessels located in areas subject to earthquakes and at the same time need to benefit from a long levelling range.

- Anchors decentered at one side of the spindle
- Easier installation when machine restricts access to all sides of the footplate
- Lower seismic performance than round footplate
- Available in one size for small and one size for large
- Simple and fast installation with height-adjustable compact design
- Adjustment through flat at the bottom of spindle
- Movable set-up - no concrete molding required
- Total seismic stability through bolted fastening and patented locking mechanism
- Verified through Finite Element Analysis (FEA) and calculated according to New Zealand seismic standard (NZS 4219)
- Calculated according to New Zealand seismic standard NZS 4219
- Seismic anchors chosen and approved by our experienced partner Hilti
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401



Fully-threaded seismic levelling feet - HXJCFE (S)



PRODUCT CODE	FOOT - SPINDLE
EXAMPLE	HXJCFE300(I)-HXE72250

FOOT PLATE



TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLES [PSC]	BOLT TYPE	POSITION E [mm]	NOM. PULL TENSION (N)	ITEM CODE
150	150X250	15	4	M12x155	60X104 : 143x64	17000	HXJCFE150(s)

SPINDLE



THREAD	HEIGHT L1 [mm]	HEIGHT L4 [mm]	HEIGHT L5 [mm]	L MIN* [mm]	NOM LOAD [N]	MAX HORIZONTAL LOAD SHEAR [N]	ITEM CODE
M30	116	77	228	105	60.000	2100	HXE(s)30150
M30	178	77	288	105	60.000	1300	HXE(S)30210
M36	114	77	221	105	96.000	3500	HXE(S)36150
M36	179	77	288	105	96.000	2200	HXE(S)36210
M42	118	82	233	110	140.000	4900	HXE(S)42150
M42	179	82	298	110	140.000	3200	HXE(S)42210
M48	143	82	283	120	140.000	6900	HXE(S)48200
M48	203	82	343	120	140.000	4800	HXE(S)48260
M56	138	82	278	120	140.000	13100	HXE(S)56200
M56	203	82	343	120	140.000	8900	HXE(S)56260

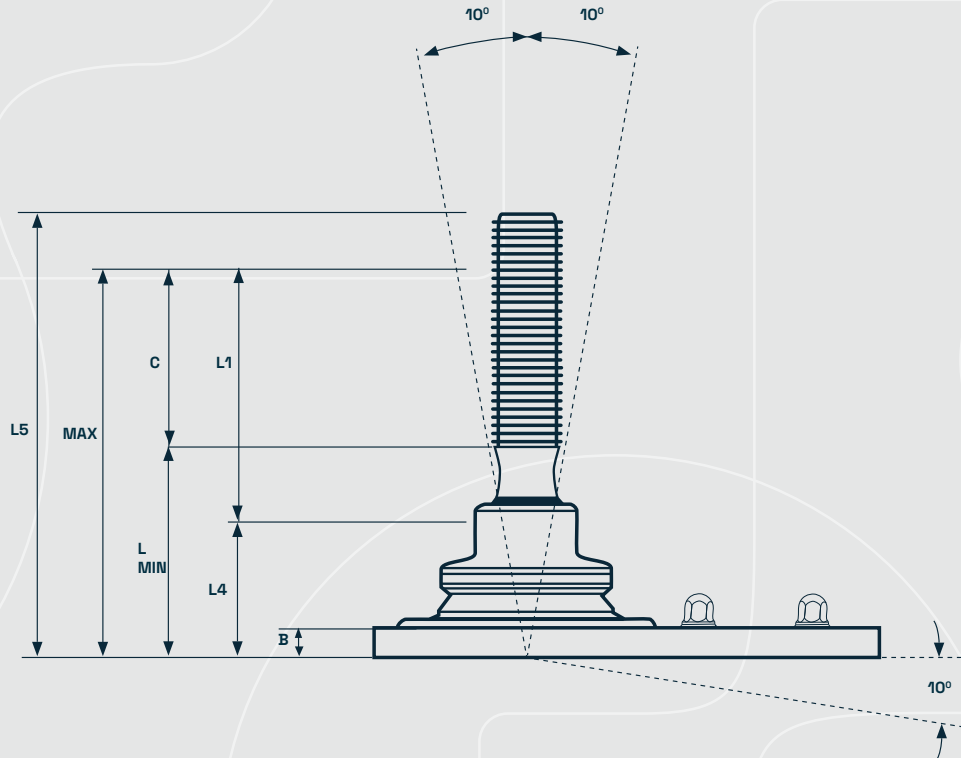
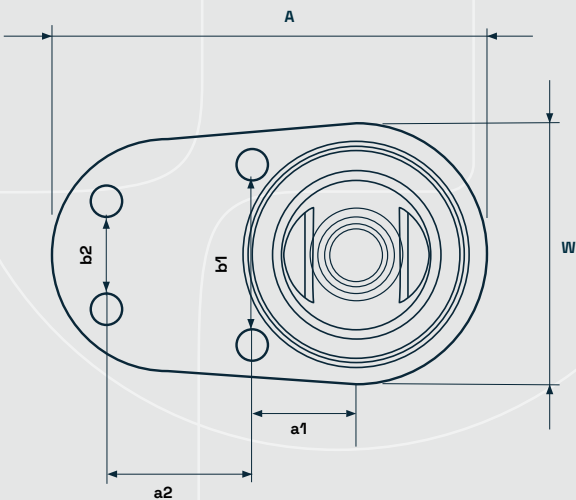


*L MIN is calculated without use of nut on spindle

Fully-threaded seismic levelling feet - HXJCFE (L)

The design and patent protected seismic HXJCFE (L) levelling foot is the optimal choice for all machinery, equipment, tanks and vessels located in areas subject to earthquakes and at the same time need to benefit from a long levelling range.

- Anchors decentered at one side of the spindle
- Easier installation when machine restricts access to all sides of the footplate
- Lower seismic performance than round footplate
- Available in one size for small and one size for large
- Simple and fast installation with height-adjustable compact design
- Adjustment through flat at the bottom of spindle
- Movable set-up - no concrete molding required
- Total seismic stability through bolted fastening and patented locking mechanism
- Verified through Finite Element Analysis (FEA) and calculated according to New Zealand seismic standard (NZS 4219)
- Calculated according to New Zealand seismic standard NZS 4219
- Seismic anchors chosen and approved by our experienced partner Hilti
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401



Fully-threaded seismic levelling feet - HXJCFE (L)



PRODUCT CODE	FOOT - SPINDLE
EXAMPLE	HXJCFE300(I)-HXE72250

FOOT PLATE



TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLES [PSC]	BOLT TYPE	POSITION E	NOM. PULL (TENSION)	ITEM CODE
300	300X400	15	4	M16x240	86x214:200x120	30000	HXJCFE300(I)

SPINDLE



THREAD	HEIGHT L1 [mm]	HEIGHT L4 [mm]	HEIGHT L5 [mm]	L MIN [mm]	NOM LOAD [N]	MAX HORIZONTAL LOAD SHEAR [N]	ITEM CODE
M56	138	82	278	120	140.000	13100	HXE(S)56200
M56	203	82	343	120	140.000	8900	HXE(S)56260
M64	143	118	319	156	236.000	17800	HXE(L)64260
M64	203	118	379	156	236.000	12500	HXE(L)64260
M72	166	129	380	170	327.000	22200	HXE(L)72250
M72	226	129	438	170	327.000	16300	HXE(L)72310
M80	166	129	380	170	432.000	30800	HXE(L)80250
M80	226	129	438	170	432.000	22600	HXE(L)80310
M90	166	129	380	170	432.000	50500	HXE(L)90250
M90	226	129	438	170	432.000	37100	HXE(L)90310



*L MIN is calculated without use of nut on spindle

Declaration of conformity

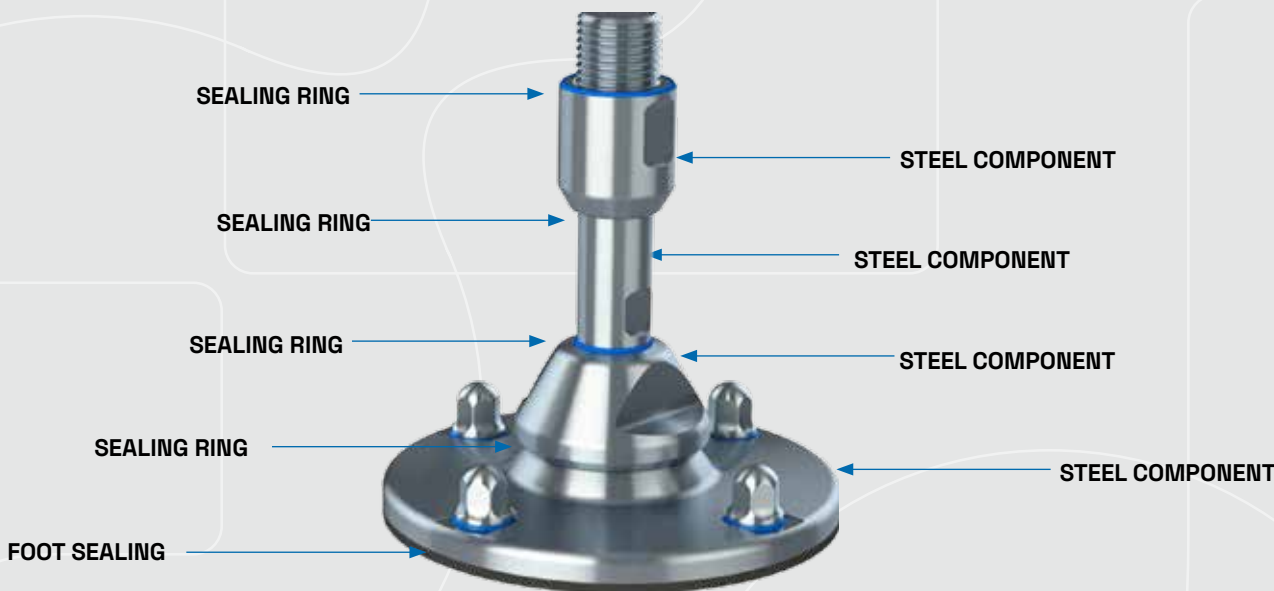
Seismic levelling feet



NGI A/S fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentive follow the revisions/amendments to these directives and will design our products accordingly. This ensures that products from NGI A/S are always in compliance with currently valid requirements.

Our type of products is not covered by the scope of application of the EC directive on machinery. For this reason, they cannot be furnished with the CE marking in accordance with the EC directive on machinery. NGI A/S, Virkelyst 3-7, 9400 Nørresundby, hereby declare that the listed materials applied for the products comply with the demands for materials used within the food and pharmaceutical industry.

Furthermore, we declare that the listed materials applied for the products comply with the demands for materials used within the food and pharmaceutical industries.



Declaration of conformity

Seismic levelling feet

Materials, Surface Roughness, Fabrication and Geometry

Metallic surfaces are constructed from Stainless steel, AISI 304/A2 or by request Stainless steel, AISI 316/A4 and are corrosion resistant under the specified conditions of use including those of cleaning.

The elastomeric components are constructed from FDA approved NBR and silicone material. All materials used are considered non-toxic and are non-absorbent.

All exposed metallic surfaces are finished to maximum surface roughness values of 1.6 pm Ra. All elastomeric components and sealing washers are left as molded with no hand trimming and all surfaces are considered smooth enough to ensure that cleaning is easy.

There are no exposed dissimilar metal-to-metal contact areas in the construction where galvanic corrosion could occur.

Sealing designs permit access for easy cleaning with no inaccessible pockets or crevices.

There are no risk of exposed threads and no unsealed metal-to-metal joints in the finished construction.

All exposed surfaces have a smooth finish such that soil may be cleaned from the surface using manual cleaning techniques and be free of pits, folds, cracks, crevices, and other imperfections in the final fabricated form.

Drainability and Installation

The units are designed to be self-draining and contain no horizontal ledges.

Comprehensive instructions are provided containing detailed information to ensure compliance with the 3-A and EHEDG design criteria, when the product is certified.

The 3-A Sanitary Standard 88-00 requires that when machine leveling feet or supports are properly mounted on the equipment, they shall provide a minimum clearance between the lowest part of the equipment and the floor of not less than 4.0 in. (102 mm) if the equipment outlines an area in which no point is more than 12.5 in. (318 mm) from its nearest edge. If the equipment outlines an area in which any point is more than 12.5 in. (318mm) from its nearest edge the clearance shall be at least 6 in. (152mm).

The EHEDG guideline recommends a minimum clearance between the equipment and the floor or wall of 300mm for easy cleaning and inspection.

When fasteners are required, only domed head screws and dome headed nuts must be used. The exposed interfaces shall be sealed with sealing washers and there must be no threads exposed in the installed configuration of the machine feet.

Declaration of conformity

Seismic levelling feet



Maintenance and Cleaning

Foot bases can be sealed to the floor if required. The instructions make recommendations not to span over floor imperfections or grout lines without the addition of proper sealing compounds.

Maximum torque values are specified as appropriate on fastening arrangements to avoid over-compression of sealing washers and gaskets.

Maintenance instructions are clearly defined and prohibit the use of non-genuine replacement parts.

Cleaning instructions describe typical cleaning procedures with recommended maximum temperatures/pressures and stipulate the use of non-abrasive cleaning aids.

The design does not contain dead spaces and avoid accumulation of soil, microorganism's insects and other vermin in areas which cannot be easily cleaned.

Adhesives, Lubricants, Insulation and Signal Transfer Liquids

Sealing and thread locking compounds used in the construction are non-toxic in the cured state.

No lubricants, insulation material or signal transfer liquids are used in the construction.

Standards and directives

EN 1672-2:2005 Food machinery / General design principles/Part 2: Hygiene requirements.

EN ISO 14 159 2004 Safety of machinery "Hygiene requirements for the design of machinery.

Document 13 EHEDG guideline on the hygienic design of apparatus for open processes.

Similar NGI designs meets the criteria for Hygienic Equipment Class I for components situated in the non-food area and are accessible for easy cleaning without dismantling.

The weighing levelling feet design is according to 3-A Sanitary Standard for Machine Leveling Feet and Supports.

Certified according to USDA Guidelines "Dairy Equipment and NSF ANSI 3-A 14159-1-2014 for the sanitary design and fabrication.

New Zealand seismic standard NZS 4219.



EU regulations

852/2004 on the hygiene of foodstuffs.

853/2004 specific hygiene rules for food of animal origin.

854/2004 specific rules for the organization of official controls on products of animal origin intended for human consumption.

1935/2004 on materials and articles intended to come into contact with food

Declaration of conformity

Seismic levelling feet



The declaration of materials concerns the following Applications

Application:

Material type:

Compliance:

STEEL COMPONENT

Stainless steel, AISI 304/A2 (X5CrNi18-10), Euro norm 1.4301.
By request: Stainless steel, AISI 316/A4 (X 5 CrNiMo 17 12 2), Euronorm 1.4401
EN 10204 Type 2.2. NGI A/S states that the product is in compliance with the order with indication of results of nonspecific inspection.
NGI A/S has got EN 10204 type 3.1 inspection certificates on all material used in the products but not specified for each foot.

In the directive 94/9/EC, Equipment for potentially explosive atmospheres, also known as the ATEX directive, equipment without its own potential source of ignition are not covered, nor shall be marked according to the directive. However, NGI levelling feet are suitable for use in all ATEX zones.

Application:

Material type:

Electrically:

Color:

Hardness:

Range of temperature:

Load:

Foot sealing

NBR by request EPDM

Non-conductive

Black

Shore A 80 ± 5

Min -20°C to Max +110°C

Low load capacity

Compliance:

REACH:

In accordance with regulation EC 1907/2006.
Do not contain any substances above 0.1% (w/w) from:
The Candidate List of Substances of Very High Concern (16.01.2020).
Annex XVII (19-11-2019)

RoHS 2 & RoHS 3

In accordance with the directive 2011/65/EC and 2015/863/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.

ADI free:

Does not contain any substances originating from humans or animals.

Bisphenols:

Does not contain Bisphenols as described in 1895/2005/EEC. Nor BPA, BADGA, BFDGE or NOGE.

ODS:

Does not contain ozone depleting substances. In accordance with the Regulation EC 1005/2009 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 16 SEPTEMBER 2009 and Regulation EC 2037/2000 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 29 JUNE 2000.

Conflict Materials:

In accordance with US Law: "Dodd Frank Wall Street Reform & Consumer Protection Act", sec. 1502, of 21.07.2010.

GMP:

Good manufacturing process in accordance with 2023/2006 EC.

Hazardous materials:

Does not contain any hazardous substances as described in the Hong Kong International Convention for the Safe and Environmental. Sound Recycling of ships, 2009.

Phthalates:

Does not contain phthalates.

FDA:

Guideline 21 CFR 177.2600

Application:

Material type:

Electrically:

Chemical resistance:

Hardness:

Color:

Range of temperature:

Storage:

Compliance:

Sealing ring

Silicon rubber

Non-conductive

High to commonly applied cleaning agents

Shore A 60 ± 5

RAL 5010 (blue)

Min -60°C to Max +200°C

According to ISO 2230

FDA: Guideline 21 CFR 177.2600

RoHS 2: In accordance with the Directive 2011/65/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.

GMP: Good manufacturing process in accordance with 2023/2006 EC.

Hygienic levelling castors

The classic hygienic-oriented design for machinery and equipment for use in diverse wet production environments

They offer value for money and are available in numerous varieties and functions



Hygienic levelling castor

NGI is the only manufacturer in the world of castors with hygienic levelling spindles. The product group consists of three hygienic-oriented types of castors: A castor with a plate fitting, a castor with levelling spindles and a single bolt hole Ø13.

The castor type with hygienic levelling spindles makes it possible to level your machinery and equipment while maintaining an acceptable hygienic design. All types of castors are an acceptable choice for machinery and equipment in diverse sanitary production environments.

Product Group Features

- Fork housing made of stainless steel AISI 304/A2, 1.4301.
- Wheel axle with nut
- White castor rim made of polyamide
- Blue tread made from polyurethane
- Stainless steel roller bearings
- Wheel dimensions Ø80, Ø100 and Ø125
- Load capacity tested according to EN 12532



SCRB-XH

Special Features

- Hygienic levelling swivel castor
- Height variation 184 - 367 mm
- Brake and swivel on wheel
- Double ball bearing swivel head
- Weight load up to 1.500 N

266



SCR-HX

Special Features

- Swivel levelling castor
- Double ball bearing swivel head
- Weight load up to 1.500 N

272



SCR-XH

Special Features

- Hygienic levelling swivel castor
- Height variation 184 - 367 mm
- Double ball bearing swivel head
- Dynamic weight load up to 1.500 N

268



SCRB

Special Features

- Swivel castor with single bolt hole Ø13
- Brake on swivel and wheel
- Double ball bearing swivel head
- Weight load up to 1.500 N

274



SCRB-HX

Special Features

- Swivel levelling castor
- Brake on swivel and wheel
- Double ball bearing swivel head
- Weight load up to 1.500 N

270



SCR

Special Features

- Swivel castor with single bolt hole Ø13
- Double ball bearing swivel head
- Weight load up to 1.500 N

276



SCSB

Special Features

- Swivel castor with plate fitting
- Brake on swivel and wheel
- Double ball bearing swivel head
- Weight load up to 4.000 N

278



SCS

Special Features

- Swivel castor with plate fitting
- Double ball bearing swivel head
- Weight load up to 3.500 N

280



CS

Special Features

- Swivel castor with plate fitting
- Rigid swivel
- Weight load up to 4.000 N

282



DECLARATION OF CONFORMITY

This declaration of conformity lists all the directives and standards that NGI adheres to. This ensures that products from NGI are always in compliance with currently valid requirements.

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Visit our website to learn more
<https://uk.ngi-global.com/products/levelling-castors>



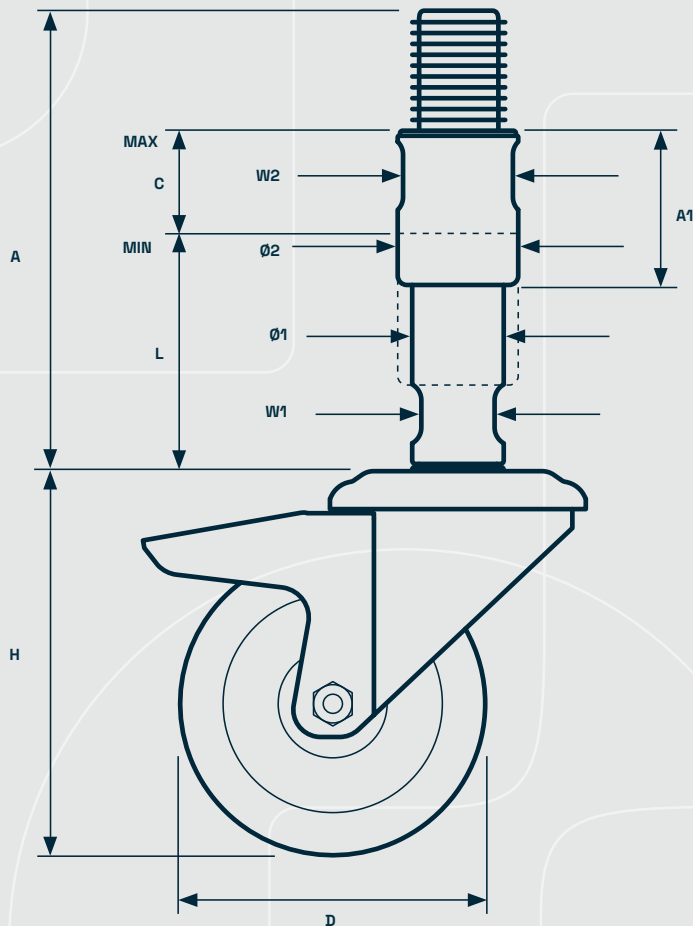
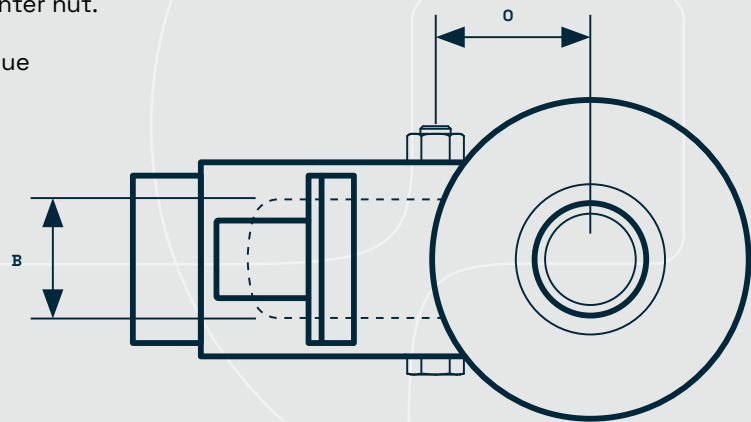
Hygienic levelling castor - SCRB-XH

The SCRB-XH hygienic levelling swivel castor is the optimal choice for machinery and equipment in diverse sanitary production environments.

The SCRB-XH is equipped with a brake on swivel and wheel.

The thread on the spindle is covered with a hygienic sleeve, which cannot be overadjusted and secures safety against exposed thread. The sleeve also functions as counter nut.

Spindle parts are 100% hygienically sealed with blue sealings detectable by scanning systems.



Hygienic levelling castor - SCRB-XH



CASTOR



SPINDLE



SLEEVE



PRODUCT CODE

EXAMPLE

CASTOR - SPINDLE - SLEEVE

SCRB100-XHCM24150 - RHOX2455

TYPE	DIAMETER D [mm]	HEIGHT H [mm]	OFFSET O [mm]	WIDTH B [mm]	DYNAMIC LOAD [N]	ITEM CODE
80	80	108	44,5	32	1.500	SCRB080
100	100	128	41,0	32	1.500	SCRB100
125	125	155	40,0	32	1.500	SCRB125
160	160	195	60,0	40	1.500	SCRB160

THREAD	HEIGHT A [mm]	MIN HEIGHT L [mm]	W1 [mm]	DIAMETER Ø1 [mm]	DYNAMIC LOAD COMPRESSION [N]	ITEM CODE
M20	150	76	17	20	559	XHCM1220150
M20	210	106	17	20	399	XHCM1220210
M24	150	76	19	24	958	XHCM1224150
M24	210	106	19	24	843	XHCM1224210
M30	150	76	24	30	1928	XHCM1230150
M30	210	106	24	30	1700	XHCM1230210
M36	150	76	30	36	3366	XHCM1236150
M36	210	106	30	36	2975	XHCM1236210

THREAD	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A1 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M20	27	29,7	50	36	RHOX2050
M20	27	29,7	80	66	RHOX2080
M24	30	33,0	50	36	RHOX2450
M24	30	33,0	80	66	RHOX2480
M30	36	39,5	50	36	RHOX3050
M30	36	39,5	80	66	RHOX3080
M36	46	49,5	50	36	RHOX3650
M36	46	49,5	80	66	RHOX3680

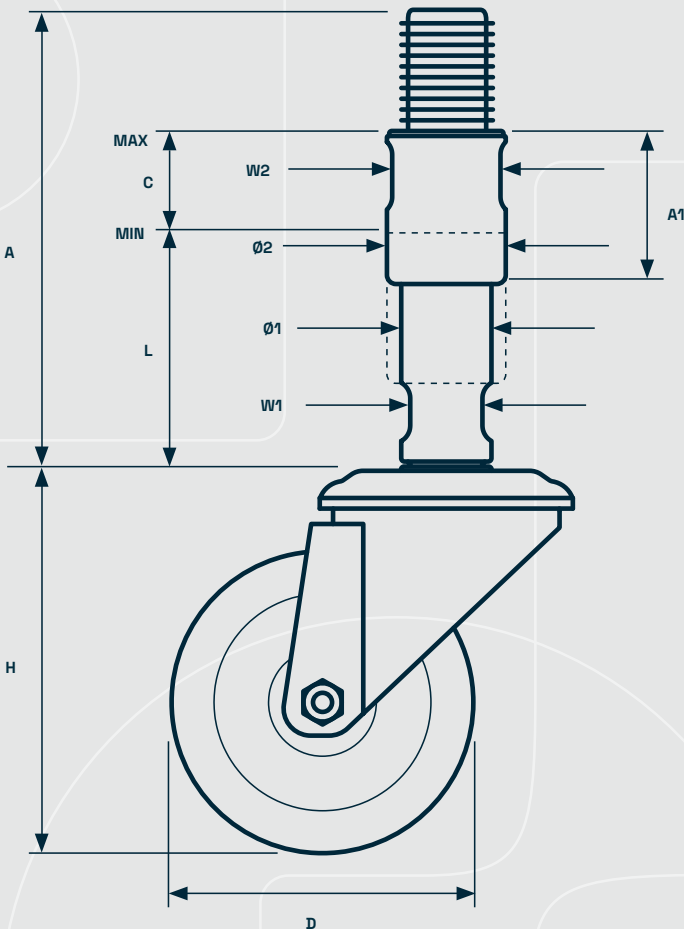
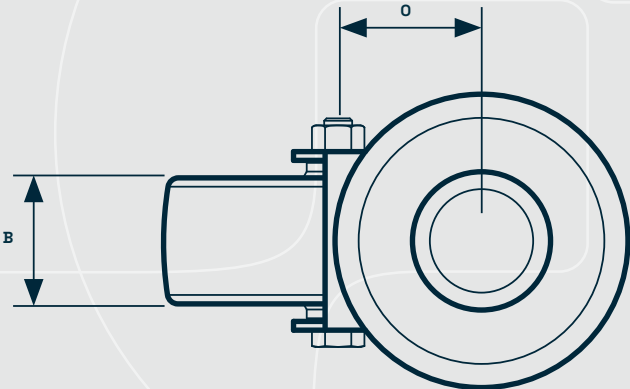
Total height
Minimum usable height
Maximum usable height
Maximum nominal load
Tolerance of total height

= A + H
= H + L
= H + L + C
= Lowest value for castor or spindle
= +/-1,5 mm

Hygienic levelling castor - SCR-XH

The design and patent protected SCR-XH hygienic levelling swivel castor is the optimal choice for machinery and equipment in diverse sanitary production environments.

Spindle parts are 100% hygienically sealed with blue sealings detectable by scanning systems.



Hygienic levelling castor - SCR-XH



CASTOR



SPINDLE



SLEEVE



PRODUCT CODE CASTOR - SPINDLE - SLEEVE

EXAMPLE SCR100- XHCM1220150 - RHOX2050

TYPE	DIAMETER D [mm]	HEIGHT H [mm]	OFFSET O [mm]	WIDTH B [mm]	DYNAMIC LOAD [N]	ITEM CODE
80	80	108	44,5	32	1.000	SCR080
100	100	128	41,0	32	1.000	SCR100
125	125	155	40,0	32	1.500	SCR125
160	160	195	60,0	40	1.500	SCR160

THREAD	HEIGHT A [mm]	MIN HEIGHT L [mm]	W1 [mm]	DIAMETER Ø1 [mm]	DYNAMIC LOAD COMPRESSION [N]	ITEM CODE
M20	150	76	17	20	559	XHCM1220150
M20	210	106	17	20	399	XHCM1220210
M24	150	76	19	24	958	XHCM1224150
M24	210	106	19	24	843	XHCM1224210
M30	150	76	24	30	1928	XHCM1230150
M30	210	106	24	30	1700	XHCM1230210
M36	150	76	30	36	3366	XHCM1236150
M36	210	106	30	36	2975	XHCM1236210

THREAD	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A1 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M20	27	29,7	50	36	RHOX2050
M20	27	29,7	80	66	RHOX2080
M24	30	33,0	50	36	RHOX2450
M24	30	33,0	80	66	RHOX2480
M30	36	39,5	50	33	RHOX3050
M30	36	39,5	80	63	RHOX3080
M36	46	49,5	50	33	RHOX3650
M36	46	49,5	80	63	RHOX3680

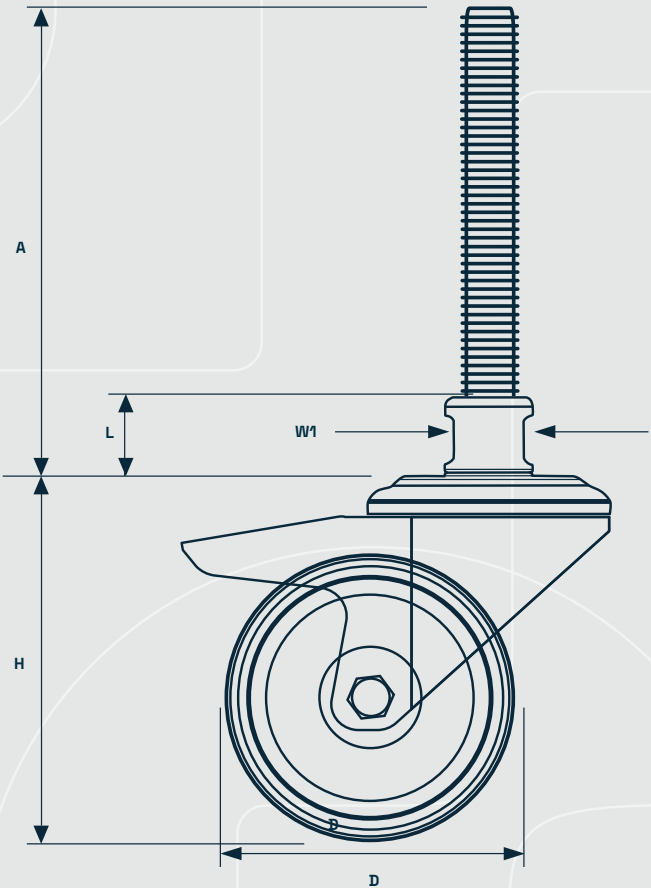
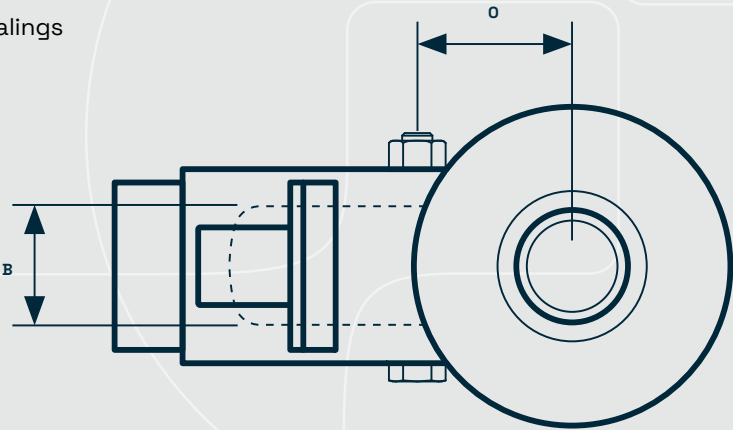
Total height = A + H
Minimum usable height = H + L
Maximum usable height = H + L + C
Maximum nominal load = Lowest value for castor or spindle
Tolerance of total height = +/-1,5 mm

Hygienic levelling castor - SCRB-HX

The SCRB-HX levelling swivel castor is the optimal choice for machinery and equipment in diverse production environments.

The SCRB-HX is equipped with a horisontal and vertical brake, which totally locks the position of the castor.

Spindle parts are 100% hygienically sealed with blue sealings detectable by scanning systems.



Hygienic levelling castor - SCRB-HX



PRODUCT CODE

EXAMPLE

CASTOR - SPINDLE

SCRB100-HXCM24150

CASTOR



TYPE	DIAMETER D [mm]	HEIGHT H [mm]	OFFSET O [mm]	WIDTH B [mm]	DYNAMIC LOAD [N]	ITEM CODE
80	80	108	44,5	32	1.500	SCRB080
100	100	128	41,0	32	1.500	SCRB100
125	125	155	40,0	32	1.500	SCRB125
160	160	195	60,0	40	1.500	SCRB150

SPINDLE



TYPE ▶	70	100	150	180	230	310	W1 [mm]
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	
M20	696	634	542	474	278	134	24
M24	1176	1088	931	869	686	333	24
M30	2369	2190	1880	1750	1595	1065	24
HEIGHT ▶ A [mm]	67	96	162	195	243	325	



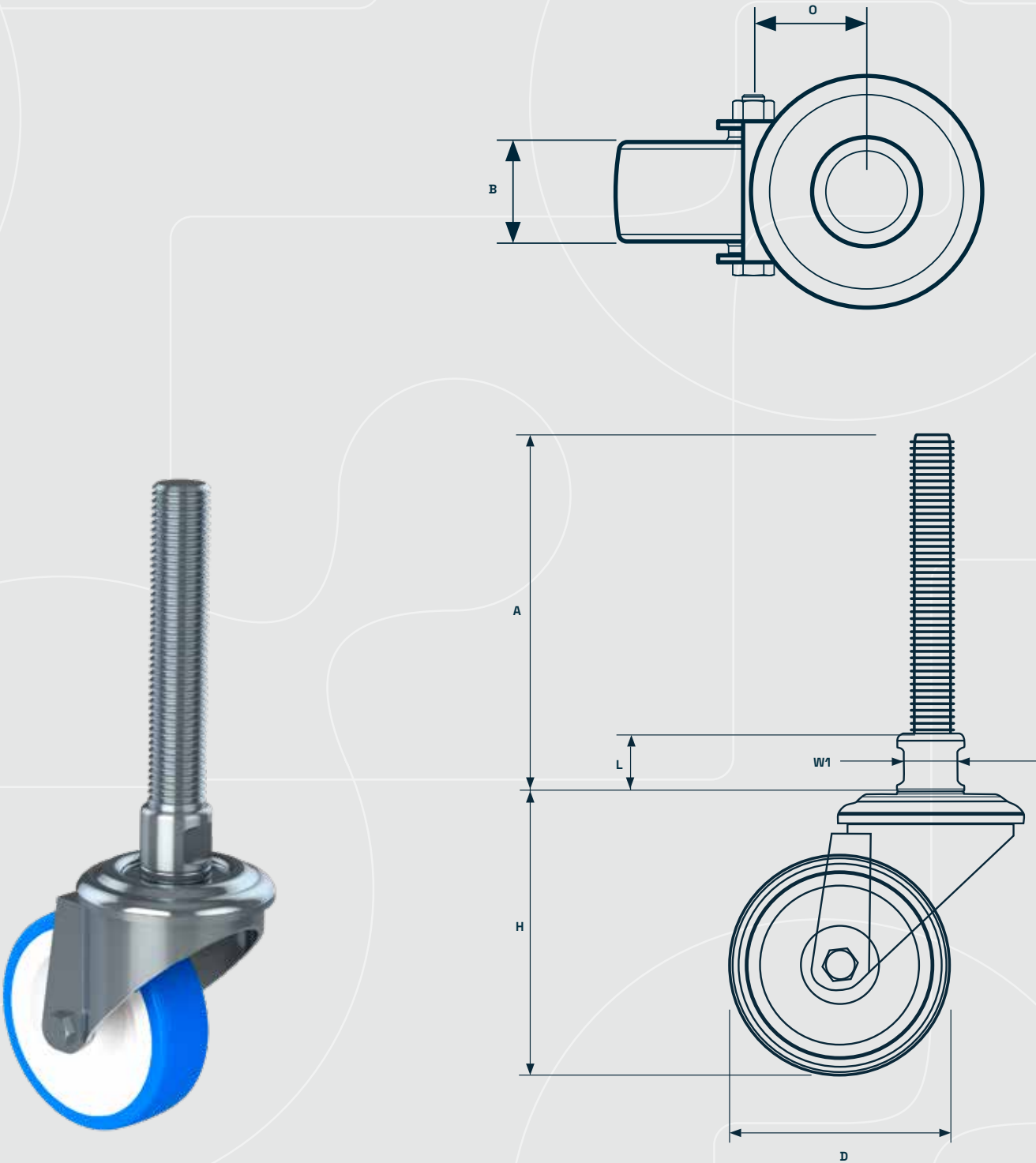
Total height
Minimum usable height
Maximum usable height
Maximum nominal load
Tolerance of total height

= A + H
= H + L
= A + H - thread dimension
= Lowest value for castor or spindle
= +/-1,5 mm

Hygienic levelling castor - SCR-HX

The SCR-HX hygienic levelling swivel castor is the optimal choice for machinery and equipment in diverse production environments.

Spindle parts are 100% hygienically sealed with blue sealings detectable by scanning systems.



Hygienic levelling castor - SCR-HX



CASTOR



SPINDLE



PRODUCT CODE					CASTOR - SPINDLE	
EXAMPLE					SCR100- HXCM1220150	
TYPE	DIAMETER D [mm]	HEIGHT H [mm]	OFFSET O [mm]	WIDTH B [mm]	DYNAMIC LOAD [N]	ITEM CODE
80	80	108	44,5	32	1.000	SCR80
100	100	128	41,0	32	1.000	SCR100
125	125	155	40,0	32	1.500	SCR125
160	160	195	60,0	40	1.500	SCR160

TYPE ▶	70	100	150	180	230	310	W1 [mm]
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	
M20	696	634	542	474	278	134	24
M24	1176	1088	931	869	686	333	24
M30	2369	2190	1880	1750	1595	1065	24
HEIGHT A [mm] ▶	67	96	162	195	243	325	

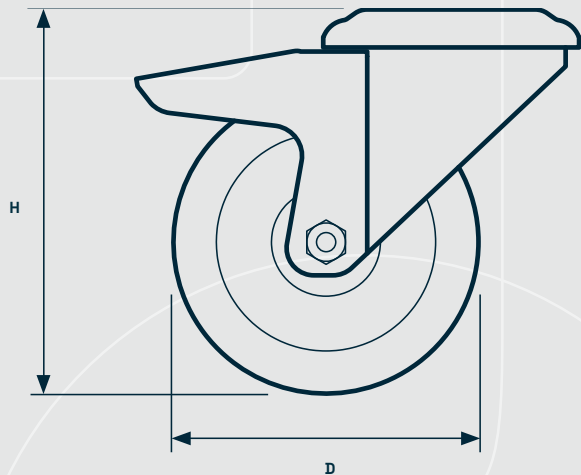
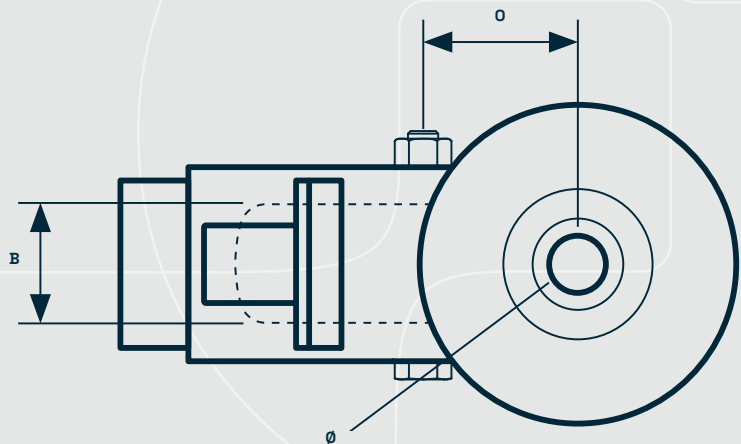


Total height = A + H
Minimum usable height = H + L
Maximum usable height = A + H - thread dimension
Maximum nominal load = Lowest value for castor or spindle
Tolerance of total height = +/-1,5 mm

Hygienic castor - SCRB

The SCRB swivel castor with round mounting is the optimal choice for machinery and equipment in diverse production environments.

The SCRB is equipped with a brake on swivel and wheel.



Hygienic castor - SCRB

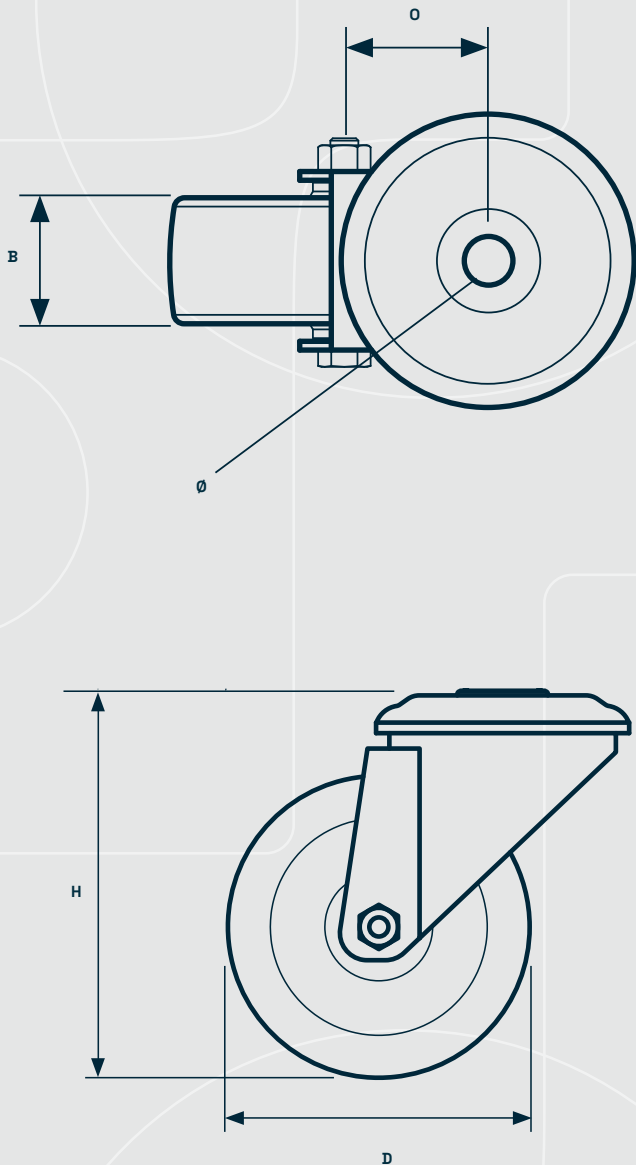
CASTOR




TYPE	DIAMETER D [mm]	HEIGHT H [mm]	OFFSET O [mm]	WIDTH B [mm]	HOLE DIAMETER Ø [mm]	DYNAMIC LOAD [N]	ITEM CODE
80	80	108	44,5	32	13	1.500	SCRB080
100	100	128	41,0	32	13	1.500	SCRB100
125	125	155	40,0	32	13	1.500	SCRB125
160	160	195	60,0	40	13	1.500	SCRB160

Hygienic castor - SCR

The SCR swivel castor with round mounting is the optimal choice for machinery and equipment in diverse production environments.



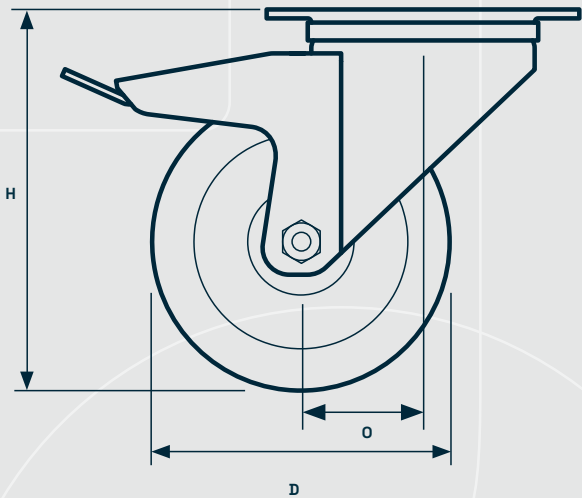
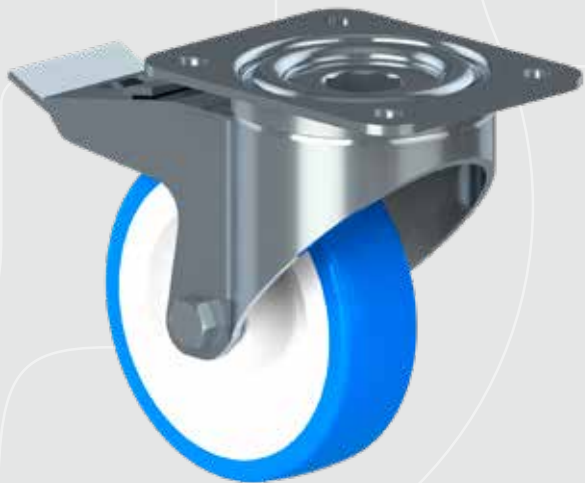
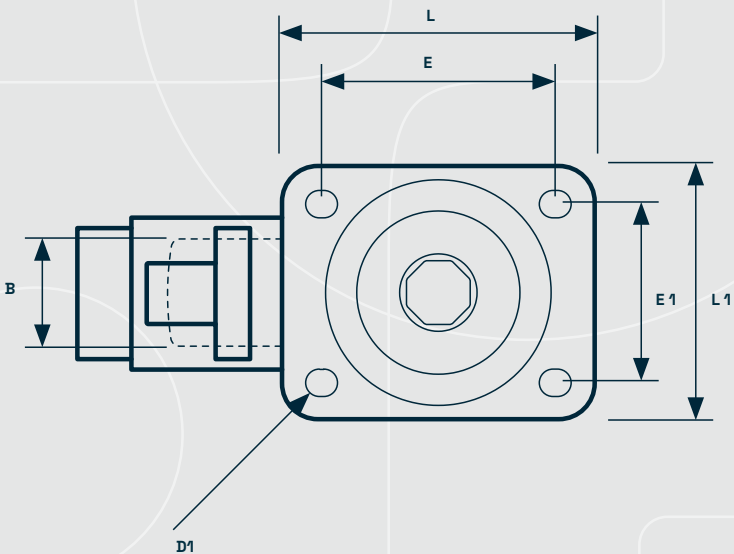
Hygienic castor - SCR

CASTOR	TYPE	DIAMETER D [mm]	HEIGHT H [mm]	OFFSET O [mm]	WIDTH B [mm]	HOLE DIAMETER Ø [mm]	DYNAMIC LOAD [N]	ITEM CODE
	80	80	108	44,5	32	13	1.000	SCR080
	100	100	128	41,0	32	13	1.000	SCR100
	125	125	155	40,0	32	13	1.500	SCR125
	160	160	195	60,0	40	13	1.500	SCR160


Hygienic castor - SCSB


The SCSB hygienic swivel castor with a fixing plate is the optimal choice for machinery and equipment in diverse sanitary production environments.

The SCSB is equipped with a brake on swivel and wheel.



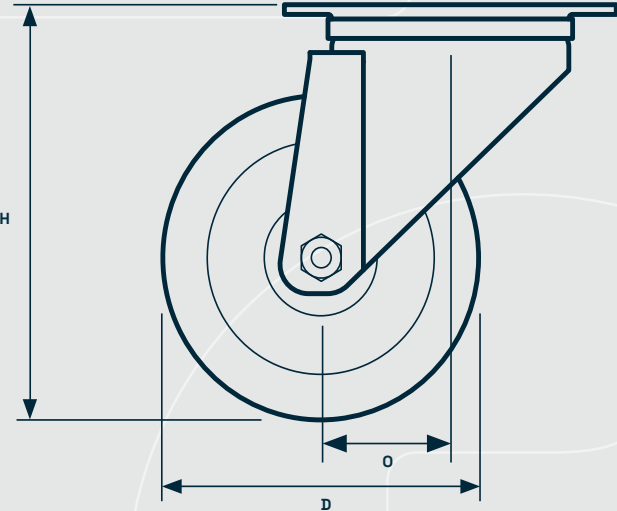
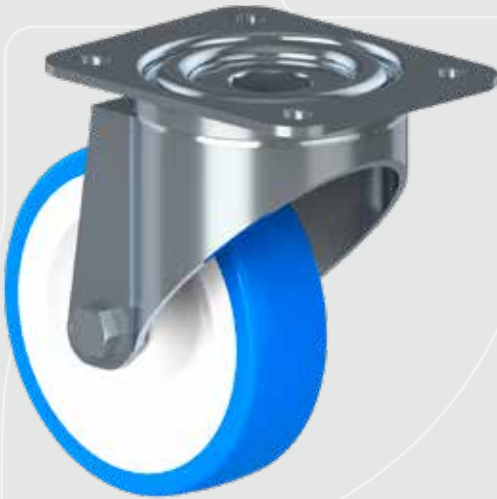
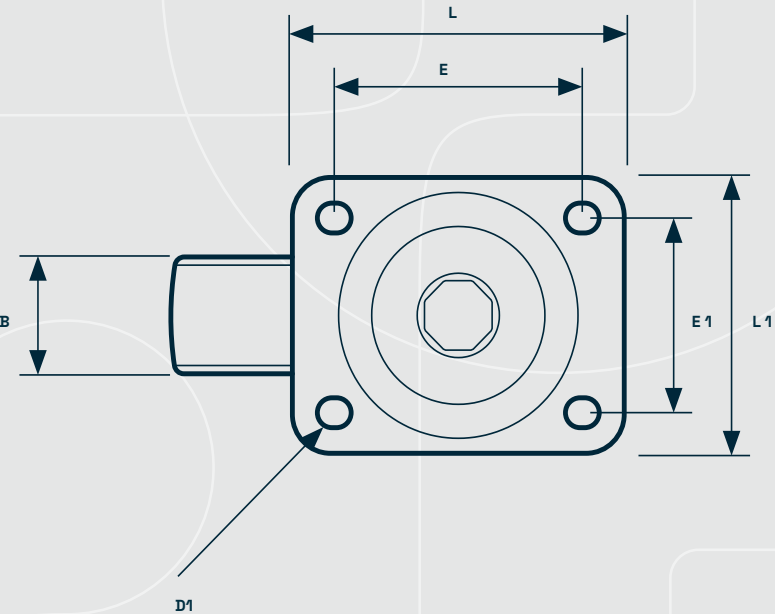
Hygienic castor - SCSB

CASTOR	TYPE	DIAMETER D [mm]	HEIGHT H [mm]	OFFSET O [mm]	WIDTH B [mm]	DYNAMIC LOAD [N]	ITEM CODE
	80	80	108	44,5	32	1.500	SCSB080
	100	100	128	41,0	32	1.500	SCSB100
	125	125	155	40,0	32	1.500	SCSB125
	125HD	125	161	55	38	3.000	SCSB125HD
	160	160	200	55	40	3.500	SCSB160
	200	200	240	55	46	4.000	SCSB200

FIXING PLATE	TYPE	LENGTH L [mm]	LENGTH L1 [mm]	HOLE POSITION E [mm]	HOLE POSITION E1 [mm]	HOLE DIAMETER D1 [mm]
	80	105	85	80	60	9
	100	105	85	80	60	9
	125	105	85	80	60	9
	125HD	137	105	105	80	11
	160	137	105	105	80	11
	200	137	105	105	80	11

Hygienic castor - SCS

The SCS hygienic swivel castor with a fixing plate is the optimal choice for machinery and equipment in diverse sanitary production environments.



Hygienic castor - SCS

CASTOR



TYPE	DIAMETER D [mm]	HEIGHT H [mm]	OFFSET O [mm]	WIDTH B [mm]	DYNAMIC LOAD [N]	ITEM CODE
80	80	108	44,5	32	1.000	SCS080
100	100	128	41,0	32	1.500	SCS100
125	125	155	40,0	32	2.000	SCS125
125HD	125	161	55,0	38	3.000	SCS125HD
160	160	200	55,0	40	3.500	SCS160

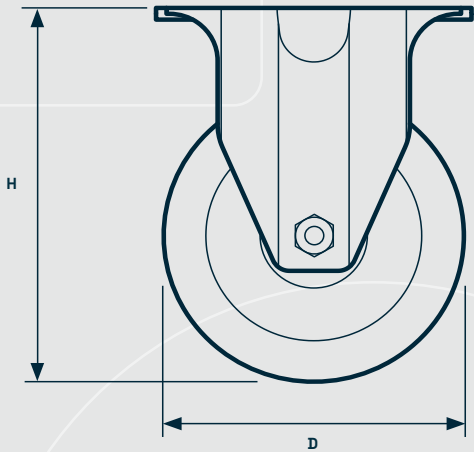
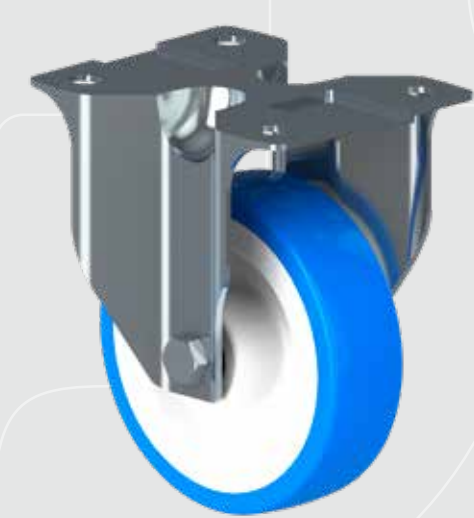
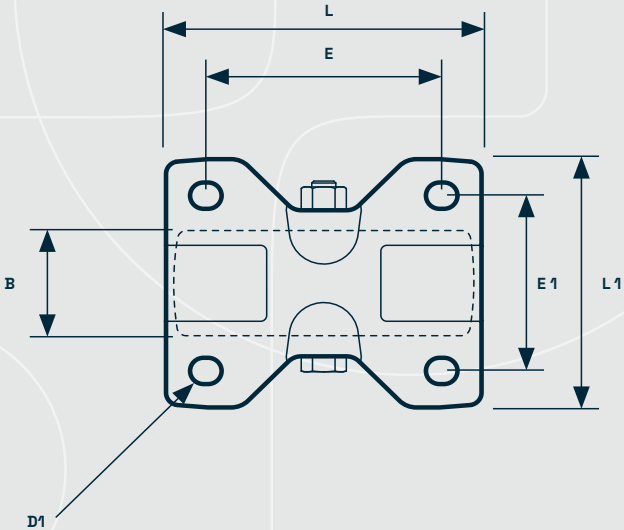
FIXING PLATE



TYPE	LENGTH L [mm]	LENGTH L1 [mm]	HOLE POSITION E [mm]	HOLE POSITION E1 [mm]	HOLE DIAMETER D1 [mm]
80	105	85	80	60	9
100	105	85	80	60	9
125	105	85	80	60	9
125HD	137	105	105	80	11
160	137	105	105	80	11

Hygienic castor - CS

The CS hygienic fixed castor is the optimal choice for machinery and equipment in diverse sanitary production environments.



Hygienic castor - CS

CASTOR



TYPE	DIAMETER D [mm]	HEIGHT H [mm]	WIDTH B [mm]	DYNAMIC LOAD [N]	ITEM CODE
80	80	108	32	1.000	CS080
100	100	128	32	1.500	CS100
125	125	155	32	2.000	CS125
125HD	125	161	38	3.000	CS125HD
160	160	200	40	3.500	CS160
200	200	240	46	4.000	CS200

FIXING PLATE



TYPE	LENGTH L [mm]	LENGTH L1 [mm]	HOLE POSITION E [mm]	HOLE POSITION E1 [mm]	HOLE DIAMETER D1 [mm]
80	103	85	80	60	9
100	103	85	80	60	9
125	103	85	80	60	9
125HD	137	115	105	80	11
160	137	115	105	80	11
200	137	115	105	80	11

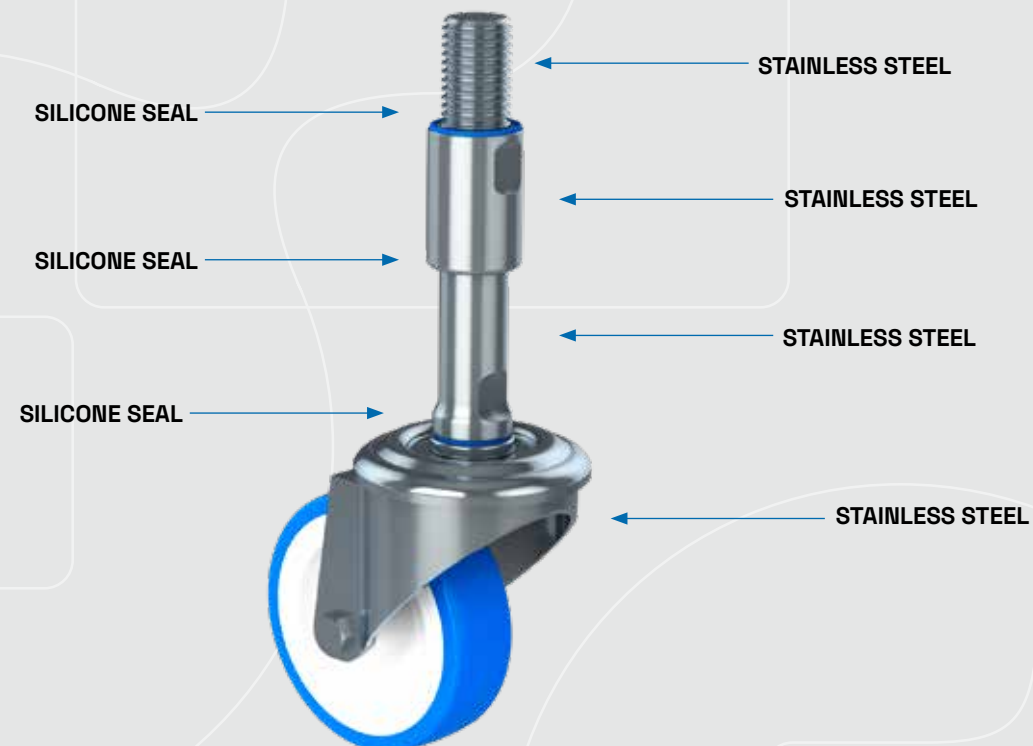
Declaration of conformity Levelling castors



NGI fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentively follow the revisions and amendments to these directives and will design our products accordingly. This ensures that products from NGI are always in compliance with currently valid requirements.

Our product category is not covered by the scope of application of the EC directive for machinery. For this reason, they cannot be furnished with the CE marking in accordance with the EC directive for machinery.

Furthermore, we declare that the listed materials applied in our products comply with the demands for materials used within the food and pharmaceutical industries.



Declaration of conformity Levelling castors

The declaration of materials concerns the following Applications

Application:

Material type:

Compliance:
order

the

also

However,

Steel spindle and sleeve

Stainless steel, AISI 304/A2 (X5CrNi18-10), Euronorm 1.4301.

By request: Stainless steel, AISI 316/A4 (X 5 CrNiMo 17 12 2), Euronorm 1.4401
EN 10204 Type 2.2. NGI A/S states that the product is in compliance with the

with indication of results of nonspecific inspection.

NGI has got EN 10204 type 3.1 inspection certificates on all material used in

products but not specified for each foot.

In the directive 94/9/EC, Equipment for potentially explosive atmospheres,

known as the ATEX directive, equipment without its own potential source of ignition are not covered, nor shall be marked according to the directive.

NGI levelling castors are suitable for use in all ATEX zones.

Application:

Material type:

roller bearings

Dimensions:

Compliance:

Castor Description:

Stainless steel AISI 304/A2, 1.4301: Fork housing, wheel axle with nut and

White castor rim made of polyamide

Blue tread made from polyurethane

Wheel dimensions Ø80, Ø100, Ø125, Ø160 and Ø200

Load capacity tested according to EN 12532

Application:

Material type:

Electrically:

Chemical resistance:

Color:

Hardness:

Range of temperature:

Storage:

Compliance:

FDA:

RoHS 2:

GMP:

Sealing ring between steel components for NGI's castors.

Silicon rubber

Non-conductive

High to commonly applied cleaning agents

RAL 5010 (blue)

Shore A 60 ± 5

Min -60°C to Max +200 °C

According to ISO 2230

Guideline 21 CFR 177.2600

In accordance with the Directive 2011/65/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.

Good manufacturing process in accordance with 2023/2006 EC.



Tank support bolts for levelling



Certified
hygienic



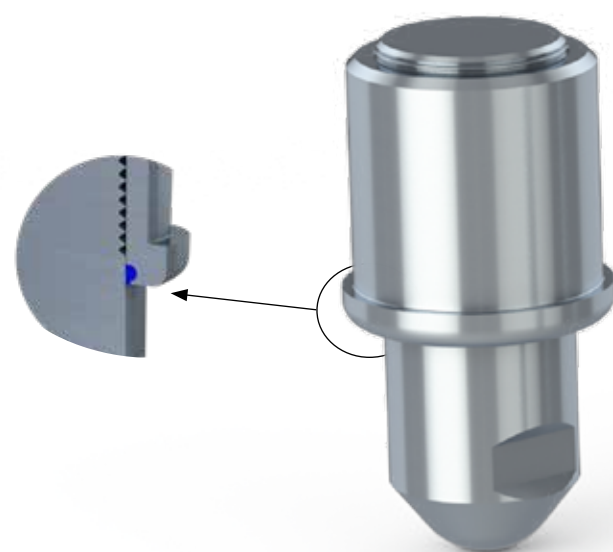
Minimized
cleaning time



Minimized
water usage

The only hygienic tank support bolt in the world
with sealing between welding connector and spindle

Sealed movable parts and no exposed thread
reduces cleaning and increases sanitary safety



Hygienic tank support bolts

The product group of hygienic-oriented tank support bolts is the optimal choice for extremely heavy machinery, equipment, tanks and vessels in diverse production environments.

Limited cleaning effort is obtained by sealing the welding connector with a fixed blue sealing ring that is detectable by scanning systems. Choosing NGI's tank support bolts will secure your heavy machinery with a hygienic design.

Product Group Features

- Designed for high load capacity
- Solid hygienic-oriented design with no exposed thread and limited cleaning effort
- Sealed welding connector with BSPP pipe thread
- Customized welding connectors available
- Optional counter nut available
- Optional anti-vibration, anti-slip rubber underneath the footplate
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401

SBX

Special Features

- Height variation 32 mm – 85 mm
- Weight load up to 493.600 N
- The support bolt absorbs slants up to 20°

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COUNTER NUT

- Counterlocks the spindle against the top of the welding connector

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KTSBX

Special Features

- Height variation 38 mm – 94 mm
- Weight load up to 200.000 N
- The footplate and support bolt are two separate parts
- Diametrically centered depression in the footplate
- The support bolt absorbs slants up to 20°

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DECLARATION OF CONFORMITY

This declaration of conformity lists all the directives and standards that NGI adheres to. This ensures that products from NGI are always in compliance with currently valid requirements.

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KTSBX AS

Special Features

- Height variation 43 mm – 98 mm
- Weight load up to 30.000 N
- The footplate and support bolt are two separate parts
- Diametrically centered depression in the footplate
- The support bolt absorbs slants up to 20°
- Anti-vibration, anti-slip rubber underneath the footplate

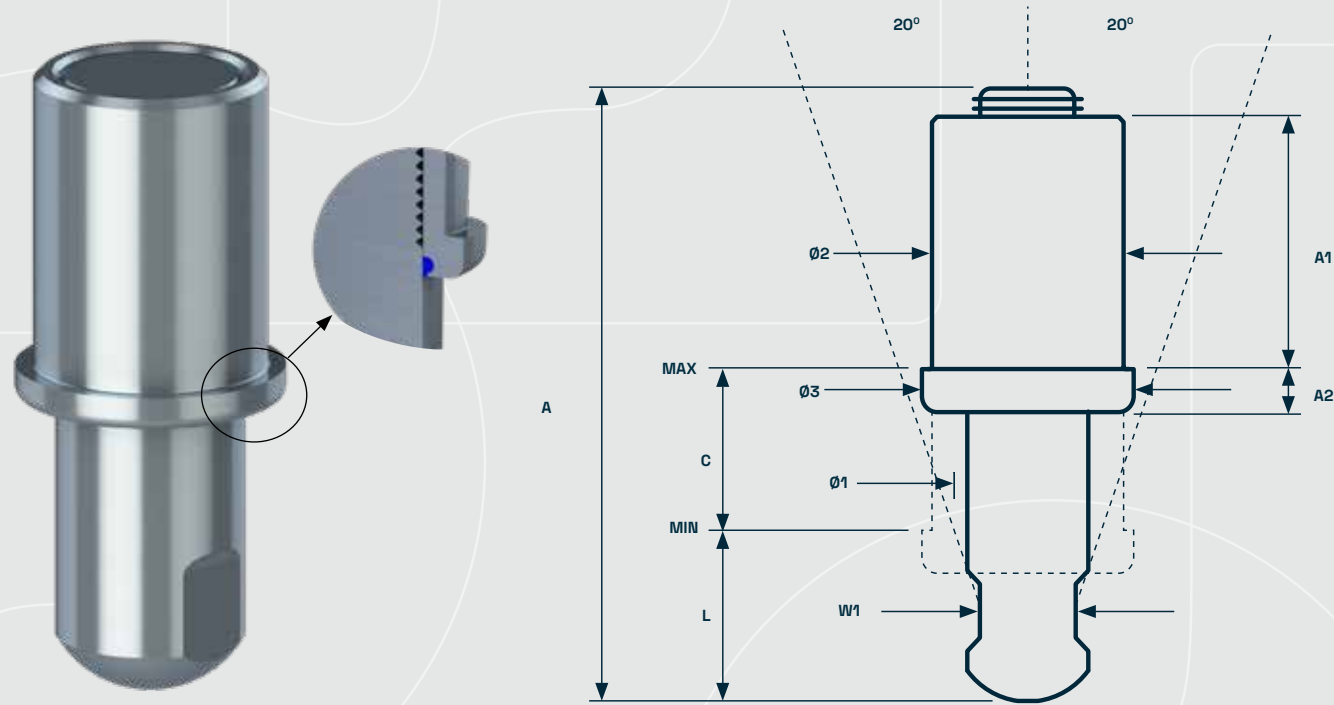
294

Tank support bolts - SBX

The SBX support bolt is the optimal choice for extremely heavy machinery, equipment, tanks and vessels in diverse production environments.

Limited cleaning effort is obtained by sealing the welding connector with a fixed blue sealing ring that is detectable by scanning systems. The SBX support bolt secures your heavy machinery with a hygienic design.

Standard sizes are listed on the datasheet. Optional customized designs are available upon request.



Tank support bolts - SBX



PRODUCT CODE


EXAMPLE

SPINDLE - SLEEVE

SBX12114-WCXRU1260

SPINDLE



THREAD A [BSPP]	HEIGHT A [mm]	MIN HEIGHT L [mm]	 W1 [mm]	NOM LOAD COMPRESSION [N]	DIAMETER Ø1 [mm]	ITEM CODE
1/2 - 14	120	33	19,05	46.654	22	SBX12120
3/4 - 14	120	38	25,4	78.309	30	SBX34120
1 - 11	140	41	31,75	122.967	35	SBX10140
1 1/4 - 11	140	44	38,10	204.021	42	SBX54140
1 1/2 - 11	140	51	44,45	270.603	50	SBX32140
2 - 11	150	60	57,15	431.925	61,2	SBX20150

SLEEVE



THREAD A [BSPP]	ADJUSTMENT C [mm]	HEIGHT A1 [mm]	HEIGHT A2 [mm]	DIAMETER Ø2 [mm]	DIAMETER Ø3 [mm]	ITEM CODE
1/2 - 14	30	53	7	38	42	WCXRU1260
3/4 - 14	30	50	10	45	50	WCXRU3460
1 - 11	30	50	10	55	60	WCXRU1060
1 1/4 - 11	30	67	8	52	60	WCXRU5475
1 1/2 - 11	30	67	8	62	69	WCXRU3275
2 - 11	30	67	8	75	80	WCXRU2075



Total height	= A
Minimum usable height	= L
Maximum usable height	= L + C
Tolerance of total height	= +/-1,5 mm

Tank support bolts

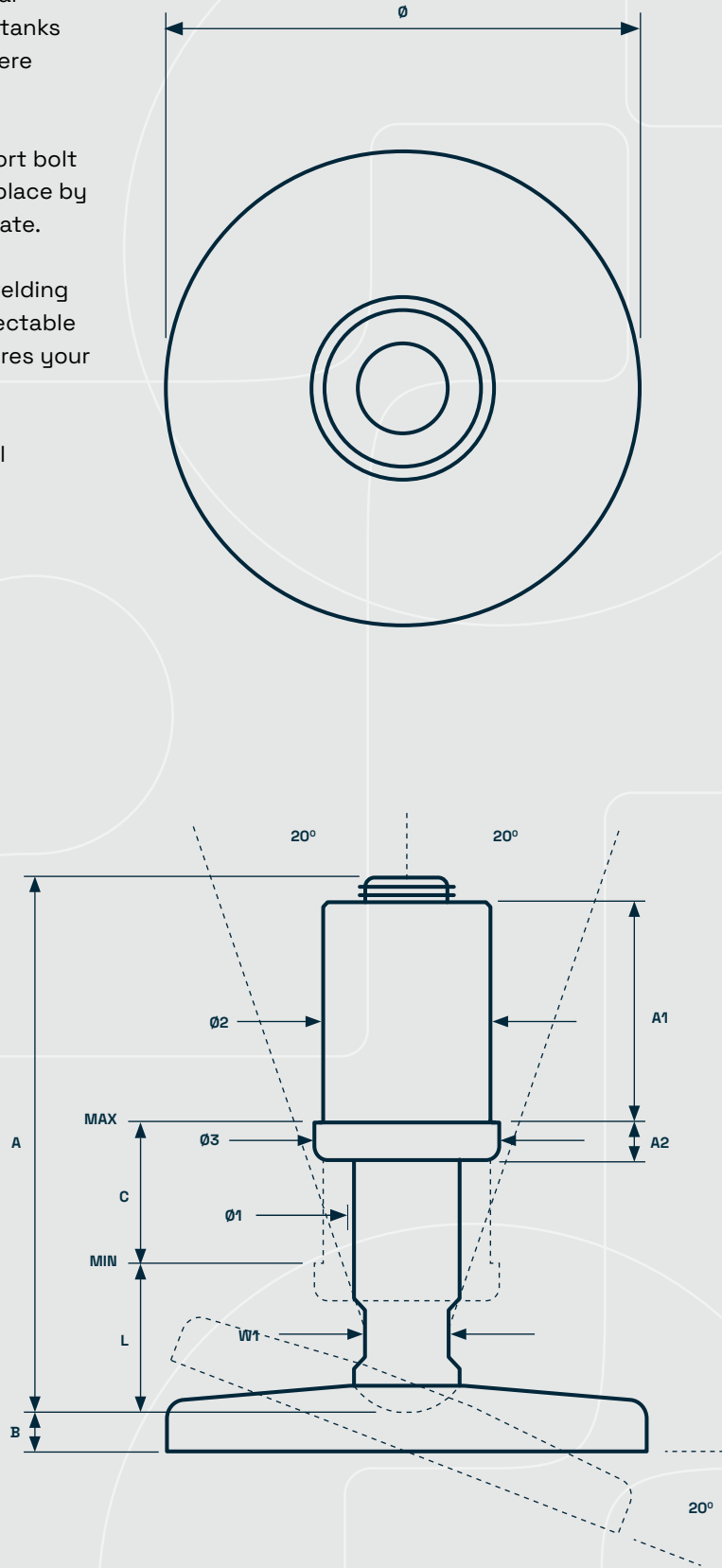
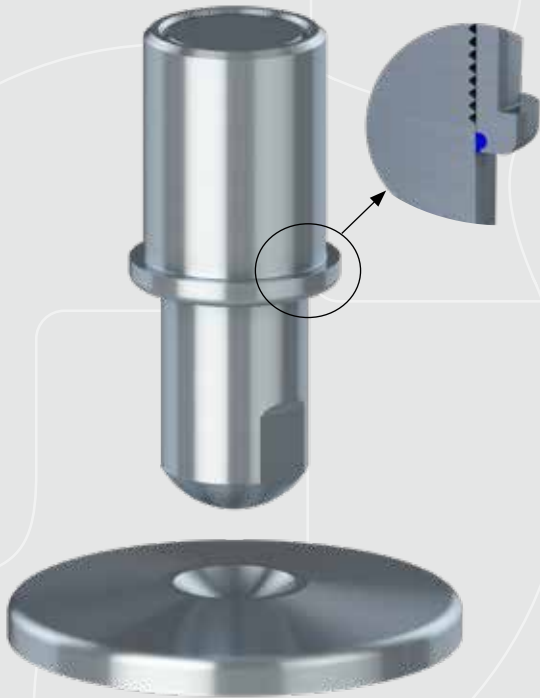
- KTSBX

The KTSBX support bolt with footplate is the optimal choice for extremely heavy machinery, equipment, tanks and vessels in diverse production environments where distribution of the weight load is required.

The KTSBX consists of a separated footplate, support bolt and welding connector. The support bolt is held in place by the diametrically centered depression in the footplate.

Limited cleaning effort is obtained by sealing the welding connector with a fixed blue sealing ring that is detectable by scanning systems. The KTSBX support bolt secures your heavy machinery with a hygienic design.

Standard sizes are listed on the datasheet. Optional customized designs are available upon request.



Tank support bolts

- KTSBX



PRODUCT CODE

EXAMPLE

FOOT - SPINDLE - SLEEVE

KT090-SB12114-WCX1255

FOOT PLATE



TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
90	89	9	120.000	KT090
110	109	8	140.000	KT110
* 130	129	8,5	200.000	KT130
* 150	149	8,5	200.000	KT150

SPINDLE



THREAD A [BSPP]	HEIGHT A [mm]	MIN HEIGHT L [mm]	W1 [mm]	NOM LOAD COMPRESSION [N]	DIAMETER Ø1 [mm]	ITEM CODE
1/2 - 14	120	33	19,05	46.645	22	SBX12120
3/4 - 14	120	38	25,4	78.309	30	SBX34120
* 1 - 11	140	41	31,75	122.967	35	SBX10140
* 1 1/4 - 11	140	44	38,10	204.021	42	SBX54140
* 1 1/2 - 11	140	51	44,45	270.603	50	SBX32140
* 2 - 11	150	60	57,15	431.925	61,2	SBX20150

SLEEVE



THREAD A [BSPP]	ADJUSTMENT C [mm]	HEIGHT A1 [mm]	HEIGHT A2 [mm]	DIAMETER Ø2 [mm]	DIAMETER Ø3 [mm]	ITEM CODE
1/2 - 14	30	53	7	38	42	WCXRU1260
3/4 - 14	30	50	10	45	50	WCXRU3460
1 - 11	30	50	10	55	60	WCXRU1060
1 1/4 - 11	30	67	8	52	60	WCXRU5475
1 1/2 - 11	30	67	8	62	69	WCXRU3275
2 - 11	30	67	8	75	80	WCXRU2075

Total height = A + B
Minimum usable height = B + L
Maximum usable height = B + L + C
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of total height = +/-1,5 mm

* Adjust A -2 mm and B +2 mm if footplate is combined with spindle BSPP 1, BSPP 1 1/4, BSPP 1 1/2 or BSPP 2



Tank support bolts

- KTSBX AS

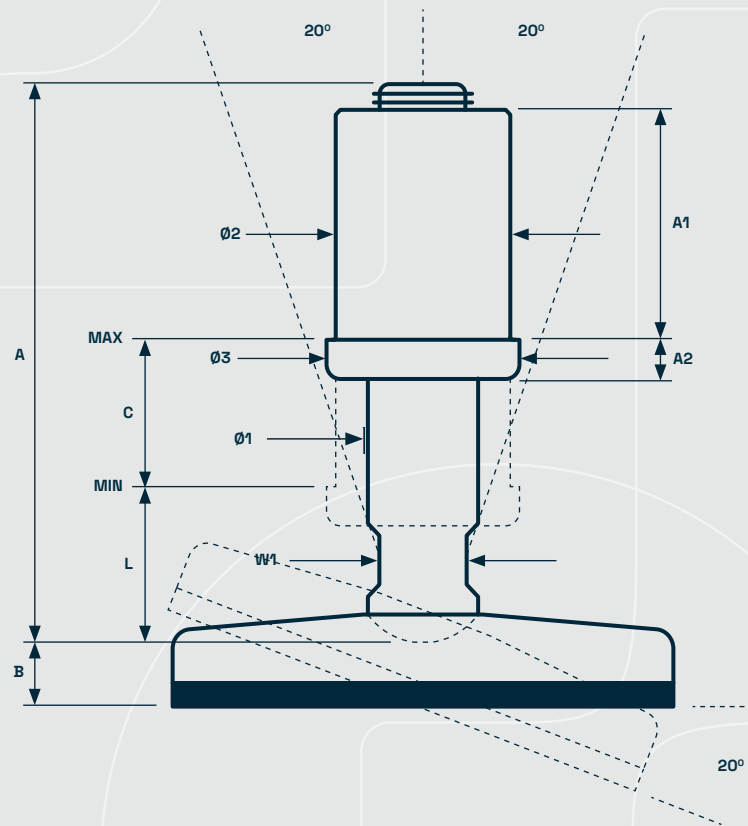
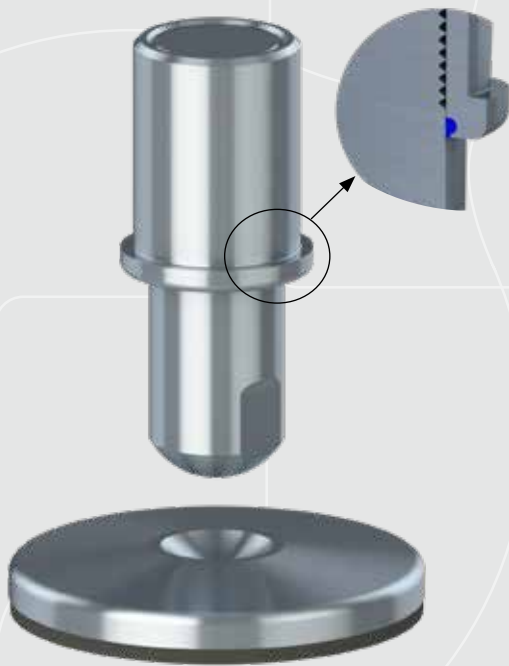
The KTSBX AS support bolt with anti-slip footplate is the optimal choice for machinery, equipment, tanks and vessels in diverse production environments where distribution of the weight load is required.

The KTSBX AS consists of a separated footplate, support bolt and welding connector. The support bolt is held in place by the diametrically centered depression on the footplate.

Additionally, the foot is sealed to the floor by the anti-slip rubber, which blocks out bacteria underneath the footplate.

Limited cleaning effort is obtained by sealing the welding connector with a fixed blue sealing ring that is detectable by scanning systems. The KTSBX AS support bolt secures your heavy machinery with a hygienic design.

Standard sizes are listed on the datasheet. Optional customized designs are available upon request.



Tank support bolts

- KTSBX AS



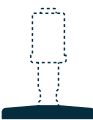
PRODUCT CODE

FOOT - SPINDLE - SLEEVE

EXAMPLE

KT090AS-SB12114-WCX1255

FOOT PLATE



TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
90AS	89	14	30.000	KT090AS
110AS	109	13	30.000	KT110AS
130AS	129	13,5	30.000	KT130AS
* 150AS	149	13,5	30.000	KT150AS
180AS	179	17	30.000	KT180AS

SPINDLE



THREAD A [BSPP]	HEIGHT A [mm]	MIN HEIGHT L [mm]	W1 [mm]	NOM LOAD COMPRESSION [N]	DIAMETER Ø1 [mm]	ITEM CODE
1/2 - 14	120	33	19,05	46.645	22	SBX12120
3/4 - 14	120	38	25,4	78.309	30	SBX34120
* 1 - 11	140	41	31,75	122.967	35	SBX10140
* 1 1/4 - 11	140	44	38,10	204.021	42	SBX54140
* 1 1/2 - 11	140	51	44,45	270.603	50	SBX32140
* 2 - 11	150	60	57,15	431.925	61,2	SBX20150

SLEEVE



THREAD A [BSPP]	ADJUSTMENT C [mm]	HEIGHT A1 [mm]	HEIGHT A2 [mm]	DIAMETER Ø2 [mm]	DIAMETER Ø3 [mm]	ITEM CODE
1/2 - 14	30	53	8	38	42	WCXRU1260
3/4 - 14	30	50	8	45	50	WCXRU3460
1 - 11	30	50	10	55	60	WCXRU1060
1 1/4 - 11	30	67	10	52	60	WCXRU5475
1 1/2 - 11	30	67	12	62	69	WCXRU3275
2 - 11	30	67	12	75	80	WCXRU2075

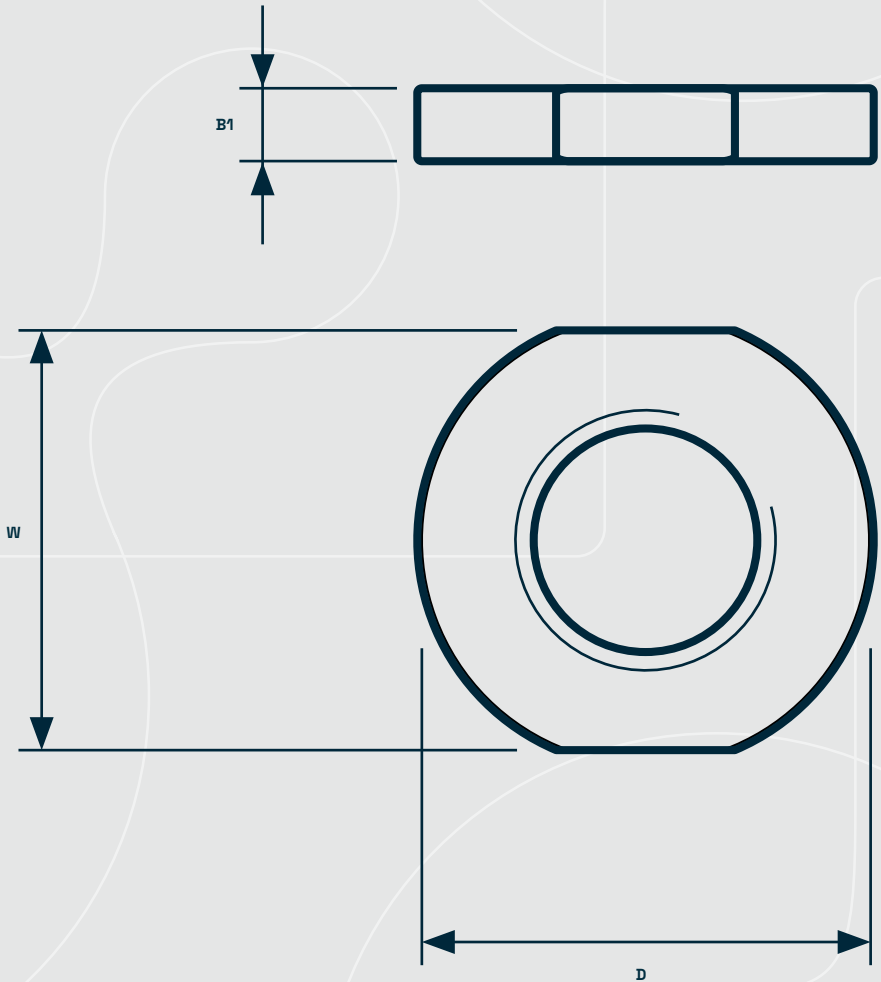
Total height = A + B
Minimum usable height = B + L
Maximum usable height = B + L + C
Maximum nominal load = Lowest value for footplate or spindle
Tolerance of total height AS = +/-1,5 mm
AS = Anti-Slip

* Adjust A -2 mm and B +2 mm if footplate is combined with spindle BSPP 1, BSPP 1 1/4, BSPP 1 1/2 or BSPP 2





Accessories for tank support bolts - counter nut

This counter nut is used from above and counterlocks the spindle against the top of the welding connector.



Accessories for tank support bolts - counter nut

COUNTER NUT	THREAD [BSPP]	 W [mm]	DIAMETER D [mm]	HEIGHT B1 [mm]	ITEM CODE
	1/2	36	42	8	R950469
	3/4	46	50	8	R950470
	1	50	60	8	R950466
	1 1/4	50	60	8	R950471
	1 1/2	55	65	10	R950465
	2	70	75	12	R900739

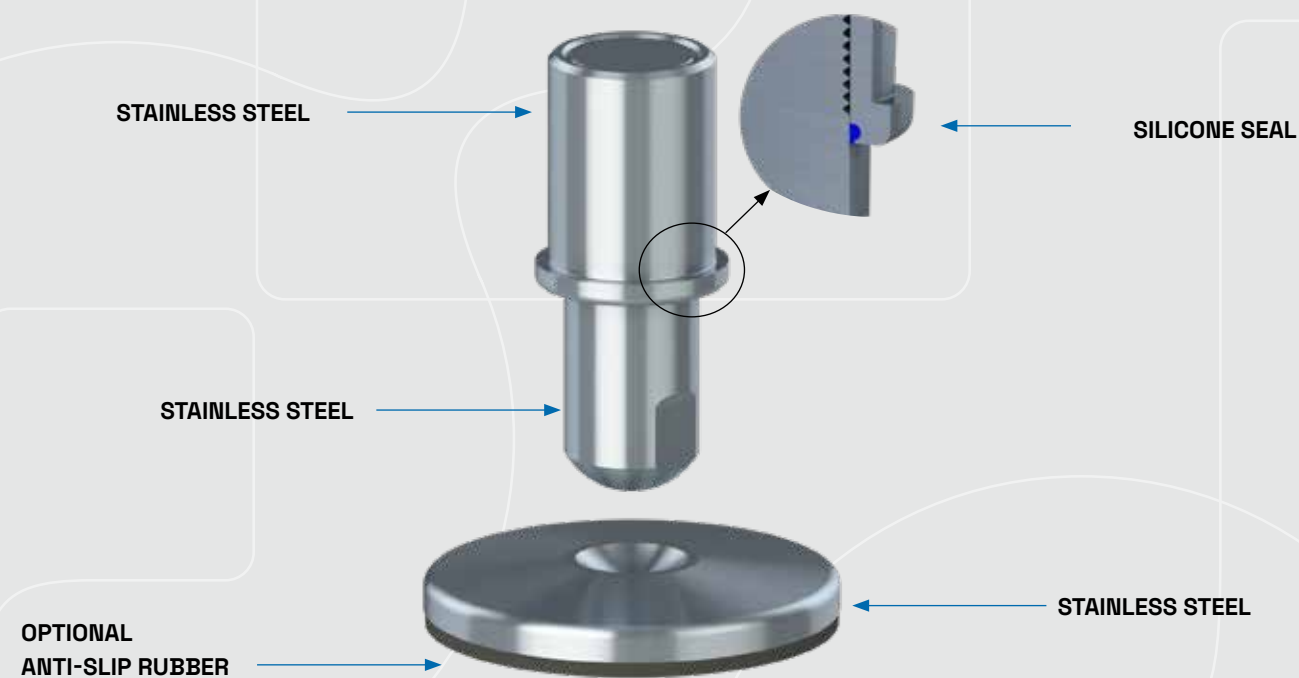
Declaration of conformity Tank support bolts



NGI fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentively follow the revisions and amendments to these directives and will design our products accordingly. This ensures that products from NGI are always in compliance with currently valid requirements.

Our product category is not covered by the scope of application of the EC directive for machinery. For this reason, they cannot be furnished with the CE marking in accordance with the EC directive for machinery.

Furthermore, we declare that the listed materials applied in our products comply with the demands for materials used within the food and pharmaceutical industries.



Declaration of conformity Tank support bolts

THE DECLARATION OF MATERIALS CONCERNS THE FOLLOWING APPLICATIONS

Application:

Material type:

Compliance:

Steel spindle and sleeve

Stainless steel, AISI 304/A2 (X5CrNi18-10), Euronorm 1.4301.

By request: Stainless steel, AISI 316/A4 (X 5 CrNiMo 17 12 2), Euronorm 1.4401
EN 10204 Type 2.2. NGI A/S states that the product is in compliance with the order with indication of results of nonspecific inspection.

NGI has got EN 10204 type 3.1 inspection CERTIFIEDs on all material used in the products but not specified for each foot.

In the directive 94/9/EC, Equipment for potentially explosive atmospheres, also known as the ATEX directive, equipment without its own potential source of ignition are not covered, nor shall be marked according to the directive. However, NGI levelling feet are suitable for use in all ATEX zones.

Application:

Material type:

Electrically:

Chemical resistance:

Color:

Hardness:

Range of temperature:

Load:

Anti slip

NBR By request EPDM

Non-conductive

High to commonly applied cleaning agents

Black

Shore A 80 ± 5

Min -20 °C to Max 110 °C

Low load capacity

Application:

Material type:

Electrically:

Chemical resistance:

Color:

Hardness:

Range of temperature:

Storage:

Compliance:

RoHS 2:

Sealing ring between steel components for NGI's machine feet.

Silicon rubber

Non-conductive

High to commonly applied cleaning agents

RAL 5010 (blue)

Shore A 60 ± 5

Min -60°C to Max +200 °C

According to ISO 2230

FDA:

Guideline 21 CFR 177.2600

In accordance with the Directive 2011/65/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.

GMP:

Good manufacturing process in accordance with 2023/2006 EC.

NGI range of accessories

for levelling feet
and bearing houses



NGI is able to deliver all necessary accessories which ensures a quick and easy installation of hygienic components.

In addition to supplying standardized accessories we are also able to supply customized accessories.

Accessories

NGI is able to deliver all necessary accessories, which ensures a quick and easy installation of the levelling foot, bearing house and castor.
In addition to supplying standardized accessories we are also able to supply customized accessories.

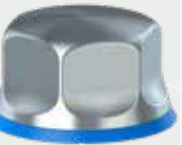


CERTIFIED HYGIENIC DOME-HEADED NUT

- Certified in accordance with 3-A (RPSCQC)
- Certified in accordance with EHEDG hygienic standard TYPE EL
 - CLASS I AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 µm RA
- Available in sizes M6-M24
- Are delivered with all certified hygienic machine feet with floor fixing



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CERTIFIED HYGIENIC LOW-HEADED NUT

- Certified in accordance with 3-A (RPSCQC)
- Certified in accordance with EHEDG hygienic standard TYPE EL
 - CLASS I AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 µm RA
- Available in sizes M5-M24



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CERTIFIED HYGIENIC BOLT

- Certified in accordance with 3-A (RPSCQC)
- Certified in accordance with EHEDG hygienic standard TYPE EL
 - CLASS I AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 µm RA
- Available in sizes M5-M24



310



CERTIFIED HYGIENIC TOP COVER

- Top cover with blue sealing detectable by scanning systems
- Ensures hygienic covering of the exposed top thread
- Minimum cleaning effort due to the self-draining design
- Available in standardized and customized dimensions

312



CERTIFIED HYGIENIC FLANGES & ADAPTOR

- Add-on for the XHFV & ZHFVJ system
- Adaptor converts the size and type of the thread and extends the sleeve. It has blue sealings detectable by scanning systems.
- Flanges are squared or round and installed by bolting or welding. They are available in a large variety of sizes.

314



NUTS & WASHERS

- Stainless steel AISI 304/A2, 1.4301
- Standard nuts (DIN 934)
- Standard counter nuts (DIN 439)
- Standard flat washers (DIN 125)
- Standard fender washers (DIN 9010)
- All dimensions available

318



DOME-HEADED NUTS

- Stainless steel AISI 304/A2, 1.4301
- Standard dome-headed nuts (DIN 1587 A2)
- All dimensions available

320

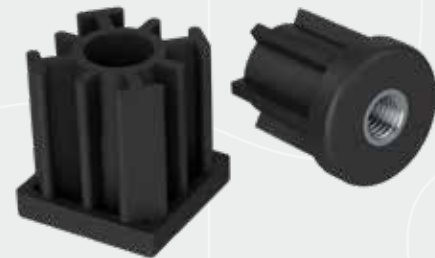
In addition to supplying standardized accessories we are also able to supply customized accessories.



WELDING PLATES

- Stainless steel AISI 304/A2, 1.4301
- Squared welding plates
- Round welding plates
- All dimensions available

322



PLASTIC BUSHINGS

- Squared plastic bushings
- Round plastic bushings
- Many dimensions available

324



BIPOD SUPPORT

- Conveyor support bipod
- Supports five tube diameters from Ø38.1 to Ø60.3
- Select two optional M16 levelling feet
- NGL recommends levelling foot M050-16-070

326



TRIPOD SUPPORT

- Conveyor support tripod
- Supports five tube diameters from Ø38.1 to Ø60.3
- Select three optional M16 levelling feet
- NGI recommends levelling foot M050-16-070

328



NGI WRENCHES

XHJSE machine feet need three different wrenches for installation. NGI wrenches are laser cut and designed to fit NGI machine feet.

330



HILTI TOOLS

Hilti's seismic research includes detailed investigation of product performance under simulated seismic conditions and full-scale system testing.

332



ANCHORS

- Stainless steel A4
- PROFIS software
- Base materials: concrete (cracked), concrete (uncracked), masonry (solid)

334

Certified hygienic nuts - NDXH

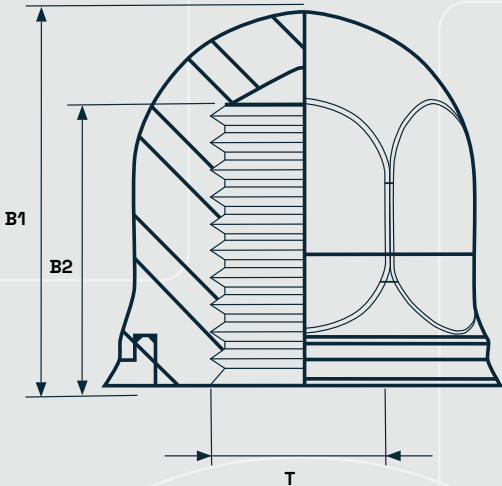
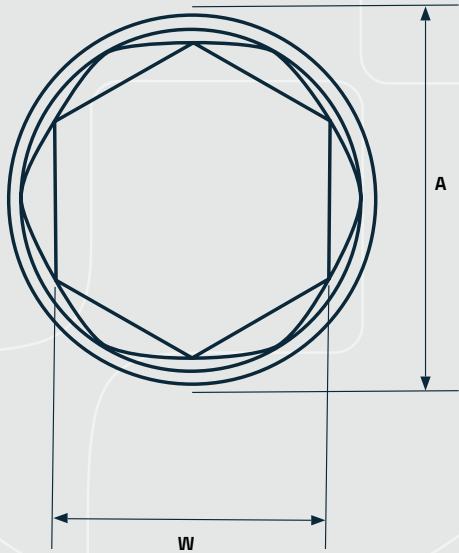
Certified hygienic nuts with blue NBR rubber seals is the right choice of nuts to be used on all machinery in all certified hygienic wash-down environments. The NBR rubber seal blocks out water and bacteria and also prevents a non-hygienic metal-to-metal assembly. Round-headed and self-draining surfaces with a maximal roughness of 0.8 µm Ra.

The design of the nuts does not deviate from the sizes of current standard nuts. Therefore, wrench sizes, thread heights etc. all remains the same making it very easy to upgrade and replace standard nuts. NGI's certified hygienic nuts are used for floor-mounting of certified hygienic levelling feet in order to ensure compliance with current legislation towards hygienic design.

The NDXH is used when the length of exposed bolt thread can vary.



- Certified in accordance with 3-A (RPSCQC)
- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS I AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 µm Ra
- Available in sizes M6-M24

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage



Certified hygienic nuts - NDXH



CERTIFIED HYGIENIC NUTS	THREAD T	TIGHTENING TORQUE	TOTAL HEIGHT B1	THREAD LENGTH B2	 W	OUTER DIAMETER A	ITEM CODE
		[Nm]	[mm]	[mm]	[mm]	[mm]	
	M06	8,6	13,6	10	10	12,8	NDXH-M06
	M08	21,0	16,6	12	13	17,3	NDXH-M08
	M10	38,0	19,9	15	16	21,1	NDXH-M10
	M12	68,0	24,5	18	18	25,8	NDXH-M12
	M16	122,0	31	23	24	31,9	NDXH-M16
	M20	307,0	37	27	30	38,9	NDXH-M20
	M24	507,0	46	34	36	46,1	NDXH-M24

Certified hygienic nuts - NLXH

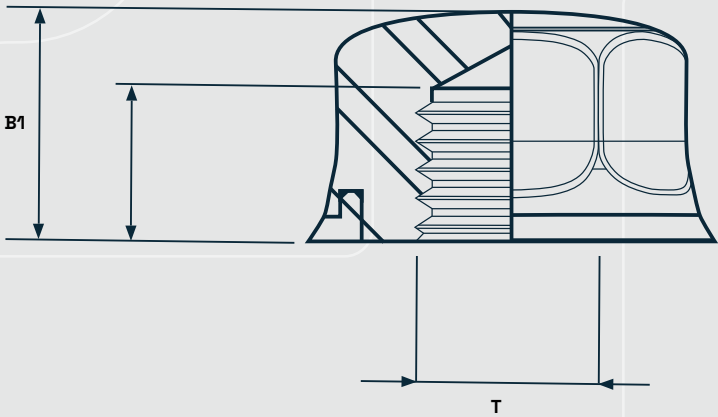
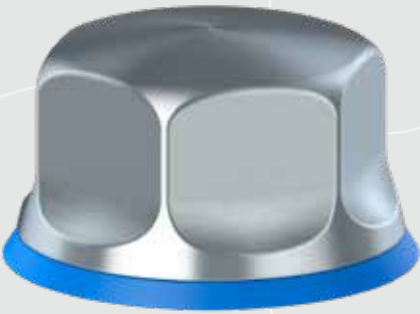
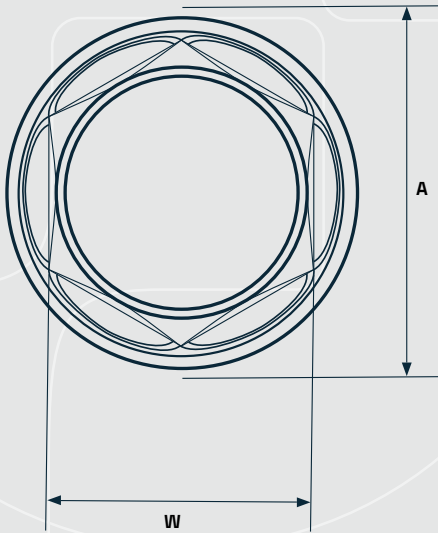
Certified hygienic nuts with blue NBR rubber seals is the right choice of nuts to be used on all machinery in all certified hygienic wash-down environments. The NBR rubber seal blocks out water and bacteria and also prevents a non-hygienic metal-to-metal assembly. Round-headed and self-draining surfaces with a maximal roughness of 0.8 µm Ra.

The design of the nuts does not deviate from the sizes of current standard nuts. Therefore, wrench sizes, thread heights etc. all remains the same making it very easy to upgrade and replace standard nuts. NGI's certified hygienic nuts are used for floor-mounting of certified hygienic levelling feet in order to ensure compliance with current legislation towards hygienic design.

The NLXH is used when the length of exposed bolt thread is adapted to the nut's B2 measurement.

- Certified in accordance with 3-A (RPSCQC)
- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS I AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 µm Ra
- Available in sizes M5-M24

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage




Certified hygienic nuts - NLXH



CERTIFIED HYGIENIC NUTS



THREAD T	TIGHTENING TORQUE [Nm]	TOTAL HEIGHT B1 [mm]	THREAD LENGTH B2 [mm]	 W [mm]	OUTER DIAMETER A [mm]	ITEM CODE
M05	4,4	6,5	4,5	8	11,5	NLXH-M05
M06	8,6	8	5,5	10	12,8	NLXH-M06
M08	21,0	10	6,5	13	17,3	NLXH-M08
M10	38,0	12	8	16	21,1	NLXH-M10
M12	68,0	14	9	18	25,8	NLXH-M12
M16	122,0	17	10,5	24	31,9	NLXH-M16
M20	307,0	20	13	30	38,9	NLXH-M20
M24	507,0	22	14	36	46,1	NLXH-M24

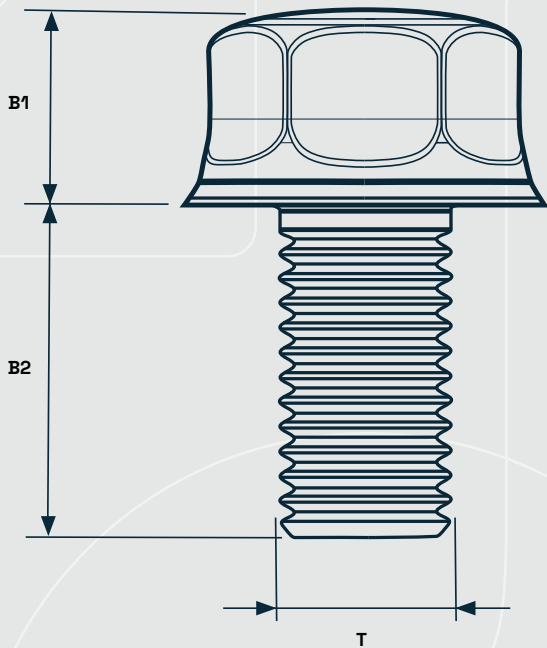
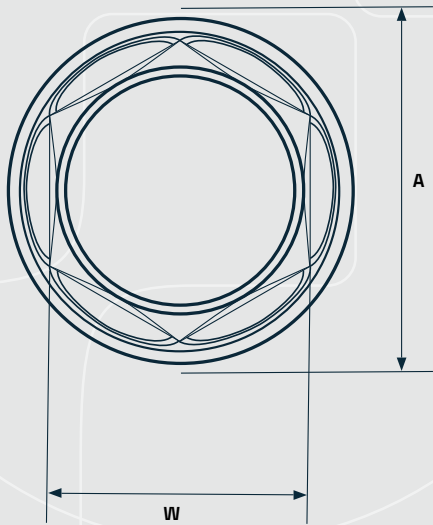
Certified hygienic bolts

- BXH

NGI is now able to offer certified hygienic bolts with blue NBR rubber seals. The NBR rubber seal blocks out water and bacteria and also prevents a non-hygienic metal-to-metal assembly.

The bolts have self-draining surfaces with a maximal roughness of 0.8 µm Ra. The design of the bolts does not deviate from the sizes of current standard bolts. Therefore, wrench sizes, thread heights etc. all remains the same making it very easy to upgrade and replace standard bolts. This is the right choice of bolts to be used on all machinery in all certified hygienic wash-down environments.

- Certified in accordance with 3-A (RPSCQC)
- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS I AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 µm Ra
- Available in sizes M5-M24



Certified hygienic bolts

- BXH



CERTIFIED HYGIENIC BOLTS



THREAD T	TIGHTENING TORQUE [Nm]	HEAD HEIGHT B1 [mm]	THREAD LENGTH B2 [mm]	W [mm]	OUTER DIAMETER A [mm]	ITEM CODE
M05	4,4	6,5	10	8	11,5	BXH-M05-10
M05	4,4	6,5	16	8	11,5	BXH-M05-16
M05	4,4	6,5	20	8	11,5	BXH-M05-20
M06	8,6	8	12	10	12,8	BXH-M06-12
M06	8,6	8	16	10	12,8	BXH-M06-16
M06	8,6	8	20	10	12,8	BXH-M06-20
M06	8,6	8	25	10	12,8	BXH-M06-25
M06	8,6	8	30	10	12,8	BXH-M06-30
M08	21,0	10	16	13	17,3	BXH-M08-16
M08	21,0	10	20	13	17,3	BXH-M08-20
M08	21,0	10	25	13	17,3	BXH-M08-25
M08	21,0	10	30	13	17,3	BXH-M08-30
M08	21,0	10	40	13	17,3	BXH-M08-40
M10	38,0	12	20	16	21,1	BXH-M10-20
M10	38,0	12	25	16	21,1	BXH-M10-25
M10	38,0	12	30	16	21,1	BXH-M10-30
M10	38,0	12	35	16	21,1	BXH-M10-35
M10	38,0	12	40	16	21,1	BXH-M10-40
M10	38,0	12	45	16	21,1	BXH-M10-45
M12	68,0	14	20	18	25,8	BXH-M12-20
M12	68,0	14	25	18	25,8	BXH-M12-25
M12	68,0	14	30	18	25,8	BXH-M12-30
M12	68,0	14	35	18	25,8	BXH-M12-35
M12	68,0	14	40	18	25,8	BXH-M12-40
M16	122,0	17	35	24	31,9	BXH-M16-35
M16	122,0	17	40	24	31,9	BXH-M16-40
M20	307,0	20	40	30	38,9	BXH-M20-40
M16	122,0	17	XX *)	24	31,9	BXH-M16-XX
M20	307,0	20	XX *)	30	38,9	BXH-M20-XX
M24	507,0	22	XX *)	36	46,1	BXH-M24-XX



*) M16-M24 available xx length upon request.

Certified hygienic top cover - THOX

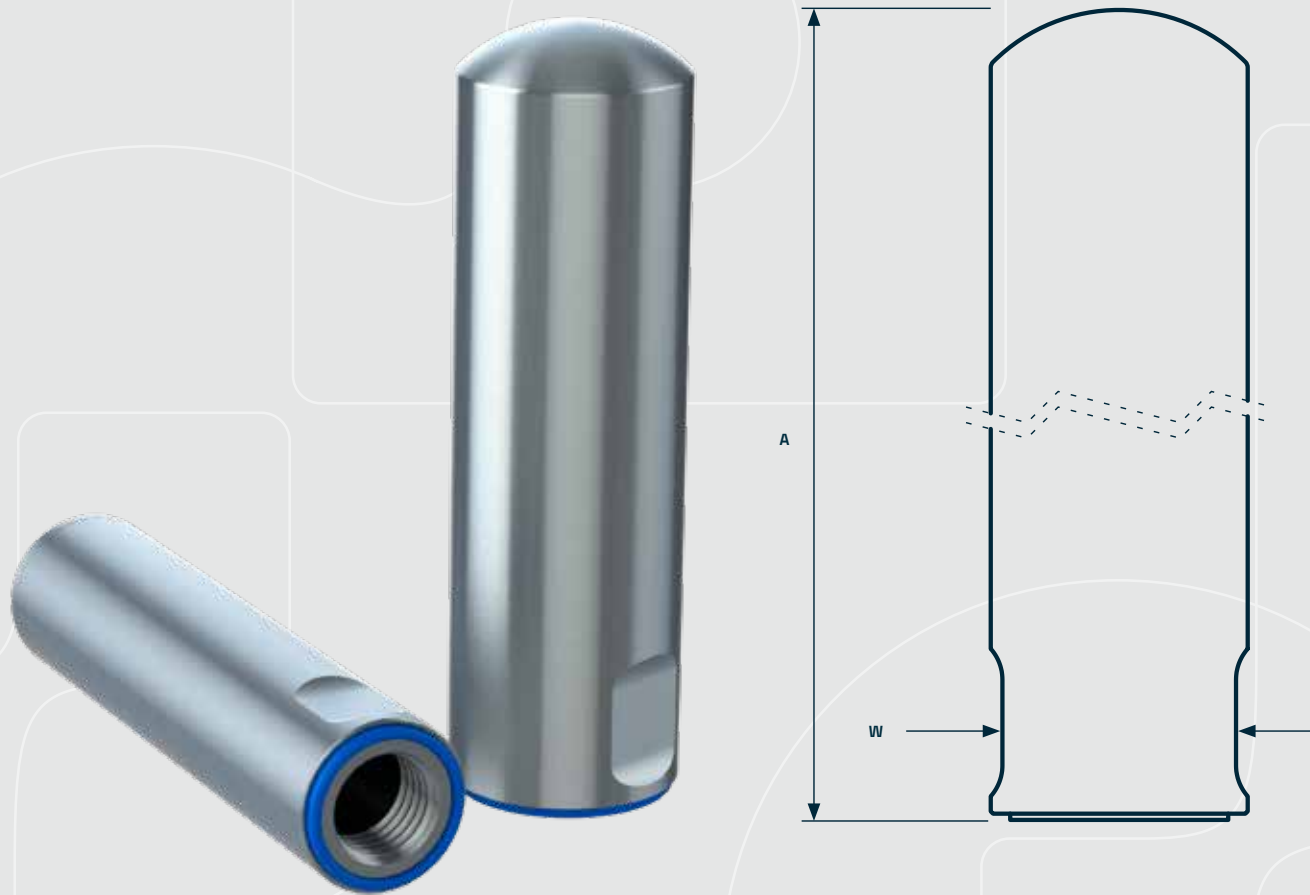
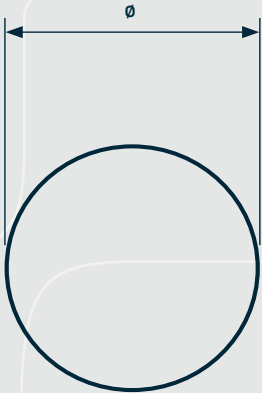
The top cover is designed to be used in situations where the top of the thread is exposed, which compromises the hygienic performance and certification of the levelling foot.

By applying the top cover the exposed thread is hygienically covered. The top cover can also function as counter nut.

The top cover is supplied with a blue sealing detectable by scanning systems and minimum cleaning effort is obtained due to the self-draining design.

Available in standardized and customized dimensions.

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage



Certified hygienic top cover - THOX

THOX



THREAD	W [mm]	DIAMETER Ø [mm]	HEIGHT A [mm]	ITEM CODE
M16	22	24,8	108	THOX16100
M20	27	29,7	109	THOX20100
M24	30	33	110	THOX24100
M30	36	39,5	111	THOX30100
M36	46	49,5	113	THOX36100
M42	52	55,5	114	THOX42100
M56	66	69,5	117	THOX56100



Certified hygienic flanges

- WFRX + WFSX

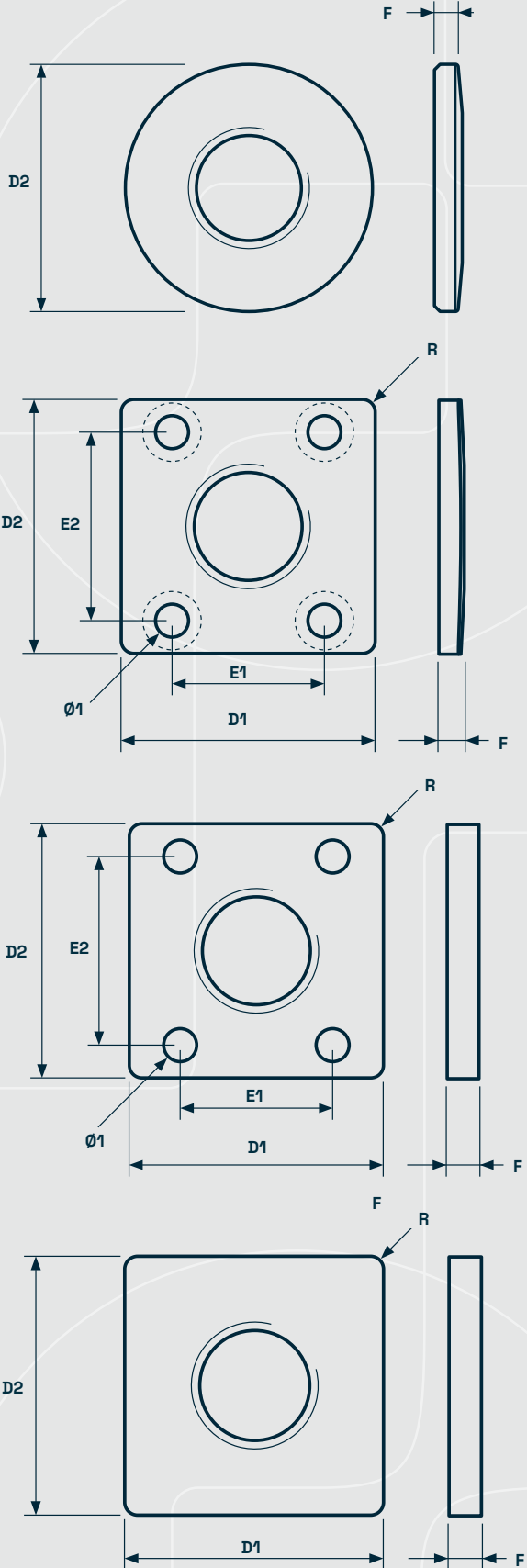
-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The flange is used when mounting the XHFV levelling feet into the machine or equipment.

Machinery and equipment requires different mounting and therefore the flange is available in several variations.

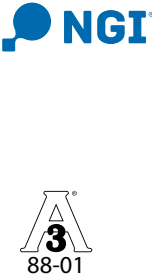
- Squared
- Round
- Large variety of sizes
- Install by bolting or welding

Customized sizes and shapes can be supplied by request.



Certified hygienic flanges

- WFRX + WFSX



ROUND - WELDING



CERTIFIED	DIAMETER Ø [mm]	THICKNESS F [mm]	THREAD	ITEM CODE
YES	60,3	10	M44x2,0	WFRX060
YES	70,0	10	M44x2,0	WFRX070
YES	76,2	10	M44x2,0	WFRX076
YES	88,9	10	M44x2,0	WFRX089

SQUARED - BOLTING



CERTIFIED	LENGHT D1 [mm]	WIDTH D2 [mm]	THICKNESS F [mm]	DISTANCE E1 [mm]	DISTANCE E2 [mm]	RADIUS R [mm]	HOLE Ø1 [mm]	THREAD	ITEM CODE
YES	100	100	10	74,2	60,0	5	13	M44x2,0	WFSX10010746013
YES	100	100	10	74,2	74,2	5	9	M44x2,0	WFSX10010747409

SQUARED - BOLTING



CERTIFIED	LENGHT D1 [mm]	WIDTH D2 [mm]	THICKNESS F [mm]	DISTANCE E1 [mm]	DISTANCE E2 [mm]	RADIUS R [mm]	HOLE Ø1 [mm]	THREAD	ITEM CODE
NO	100	100	10	74,2	60,0	13	5	M44x2,0	WFSF10010746013
NO	100	100	10	74,2	74,2	9	5	M44x2,0	WFSF10010747409

SQUARED - WELDING




CERTIFIED	LENGHT D1 [mm]	WIDTH D2 [mm]	THICKNESS F [mm]	RADIUS R [mm]	THREAD	ITEM CODE
NO	80	80	10	5	M44X2,0	WFSF080
NO	100	100	10	5	M44X2,0	WFSF100

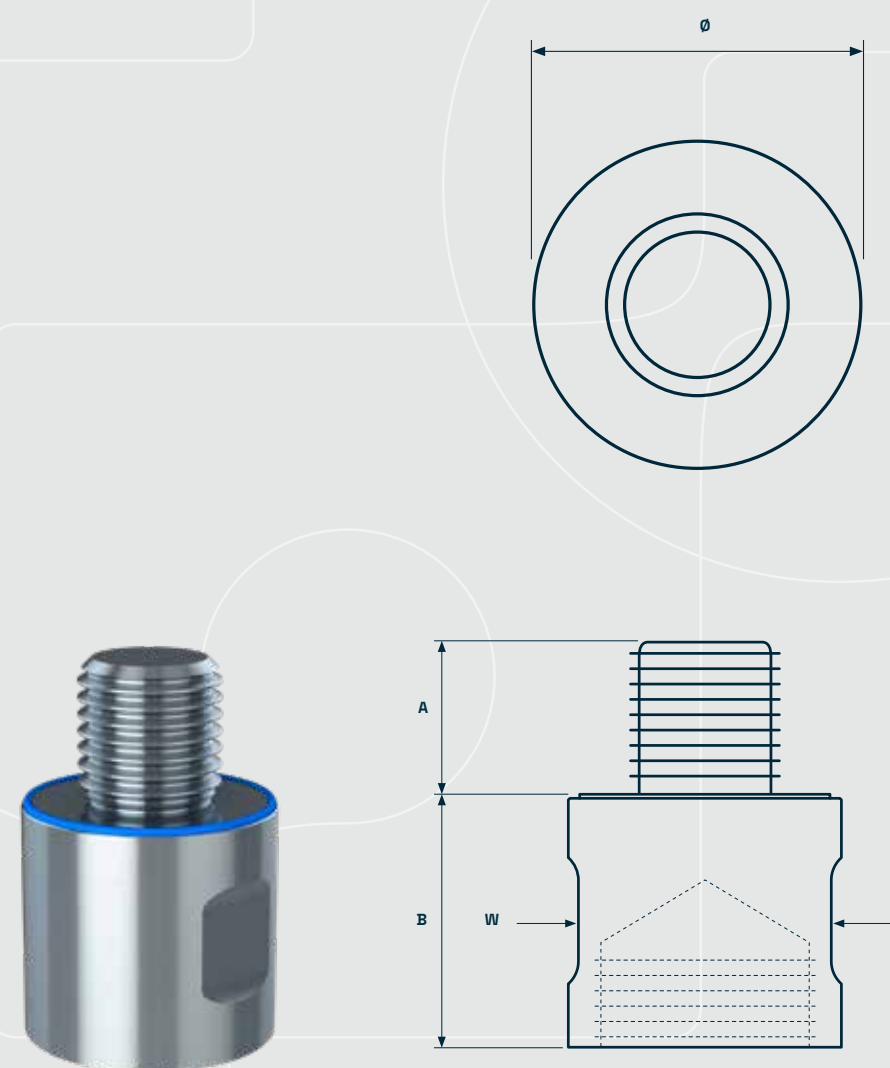


Maximum nominal load for shown flanges 95.500 N
Squared hygienic flanges must be installed with certified washers and bolts.
Flat flanges are not 3-A-certified.

Certified hygienic adaptor - AX

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The thread adaptor is an add-on for the XHFV & ZHFVJ system. It converts the size and type of the thread and extends the sleeve. Furthermore, it is equipped with blue sealings detectable by scanning systems. Available in customized sizes.




Certified hygienic adaptor - AX



ADAPTOR



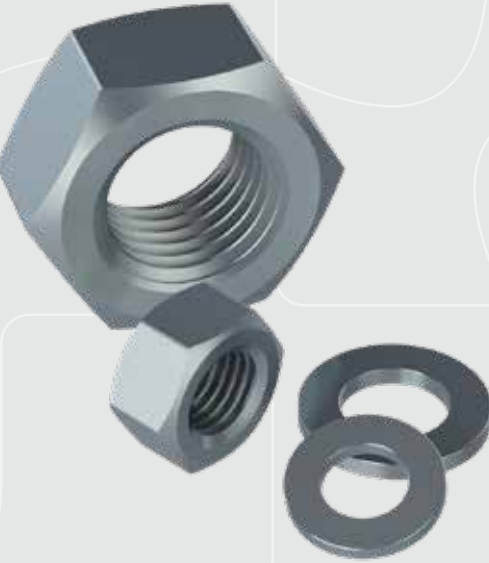
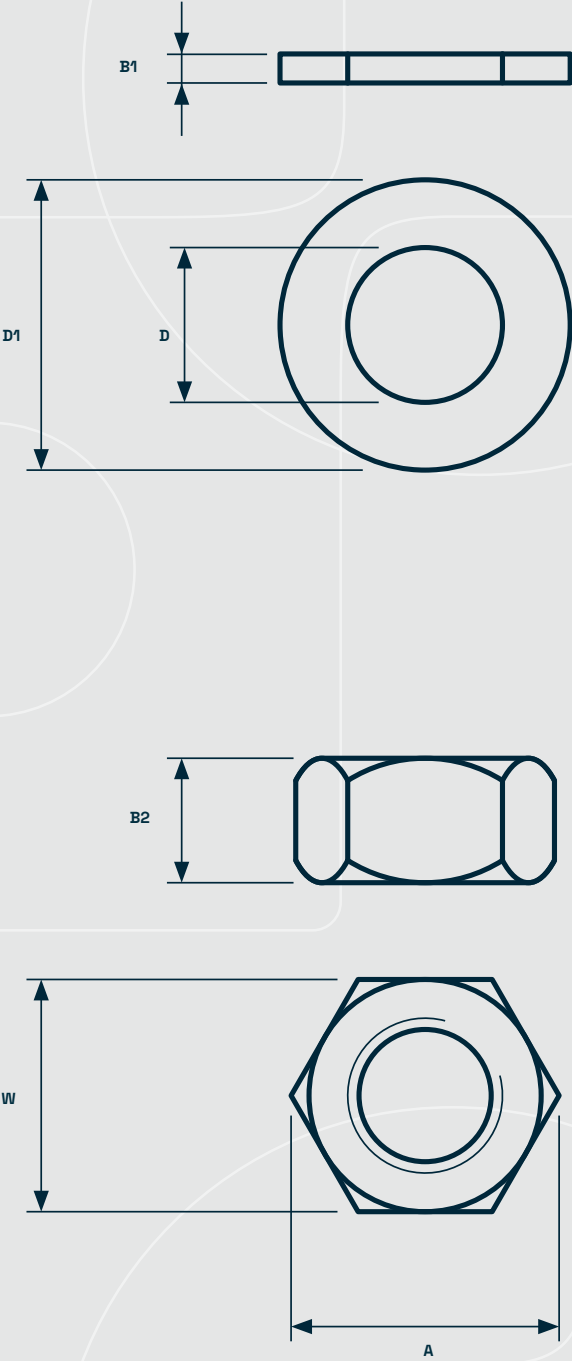
THREAD	 W [mm]	DIAMETER Ø [mm]	HEIGHT A [mm]	HEIGHT B [mm]	ITEM CODE
M20	50	54,5	20	50	AX2050
M24	50	54,5	24	50	AX2450
M30	50	54,5	30	50	AX3050
M36	50	54,5	36	50	AX3650
M42	50	54,5	42	50	AX4250
M44x2	50	54,5	10	50	AX4450



Accessories




- nuts & washers




- Stainless steel AISI 304/A2, 1.4301
- Standard nuts (DIN 934)
- Standard counter nuts (DIN 439)
- Standard flat washers (DIN 125)
- Standard fender washers (DIN 9010)
- All dimensions available







Accessories

- nuts & washers

HEX NUTS DIN 934	THREAD	 W [mm]	WIDTH A [mm]	HEIGHT B2 [mm]	ITEM CODE
	M8	13	14,38	6,5	DIN 934 M8
	M10	17	18,90	8	DIN 934 M10
	M12	19	21,10	10	DIN 934 M12
	M16	24	26,75	13	DIN 934 M16
	M20	30	32,95	16	DIN 934 M20
	M24	36	39,55	19	DIN 934 M24
	M30	46	50,85	24	DIN 934 M30
	M36	55	60,79	29	DIN 934 M36
	M42	65	71,30	34	DIN 934 M42

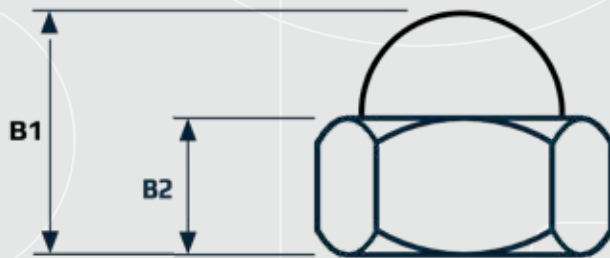
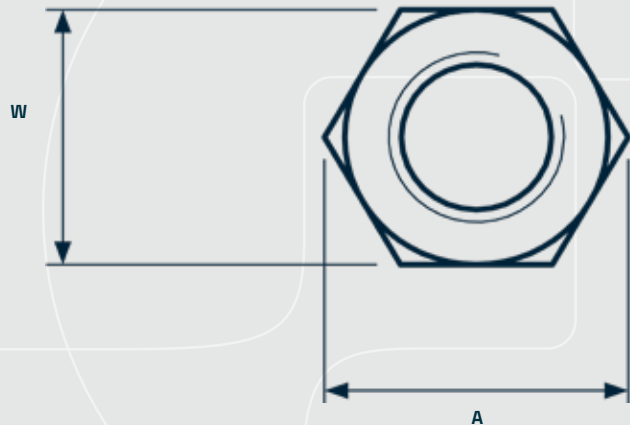
COUNTER NUTS DIN 439B	THREAD	 W [mm]	WIDTH A [mm]	HEIGHT B2 [mm]	ITEM CODE
	M8	13	14,38	4	DIN 439B M8
	M10	17	18,90	5	DIN 439B M10
	M12	19	21,10	6	DIN 439B M12
	M16	24	26,75	8	DIN 439B M16
	M20	30	32,95	10	DIN 439B M20
	M24	36	39,55	12	DIN 439B M24
	M30	46	50,85	15	DIN 439B M30
	M36	55	60,79	18	DIN 439B M36

FLAT WASHERS DIN 125A	INNER DIAMETER D [mm]	OUTER DIAMETER D1 [mm]	HEIGHT B1 [mm]	ITEM CODE
	8	16	1,6	DIN 125A M8
	10	20	2	DIN 125A M10
	12	24	2,5	DIN 125A M12
	16	30	3	DIN 125A M16
	20	37	3	DIN 125A M20
	24	44	3	DIN 125A M24
	30	56	4	DIN 125A M30



FENDER WASHERS DIN 9010	INNER DIAMETER D [mm]	OUTER DIAMETER D1 [mm]	HEIGHT B1 [mm]	ITEM CODE
	8	24	2	DIN 9010 M8
	10	30	2	DIN 9010 M10
	12	33	3	DIN 9010 M12
	16	50	3	DIN 9010 M16
	20	60	4	DIN 9010 M20

Accessories for levelling feet - dome-headed nuts

- Stainless steel AISI 304/A2, 1.4301
- Standard dome-headed nuts (DIN 1587 A2)
- All dimensions available



Accessories for levelling feet - dome-headed nuts

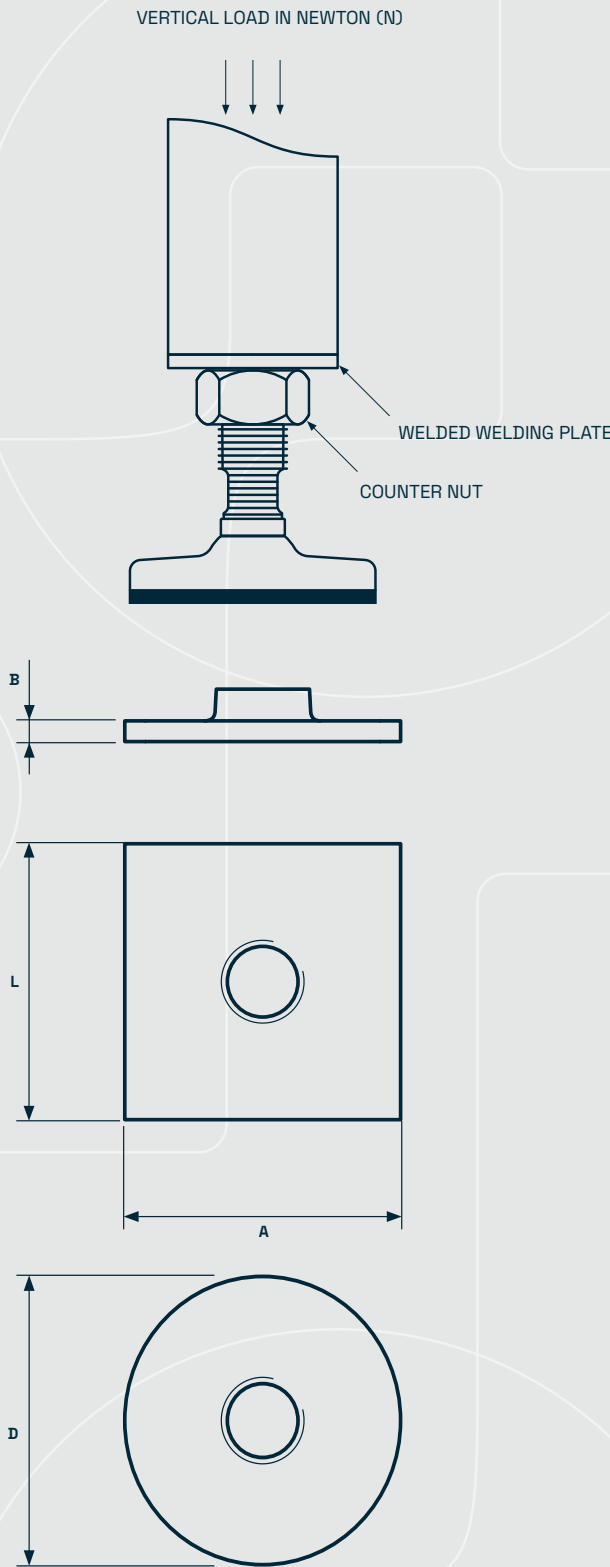
DOME-HEADED NUTS DIN 1587 A2	THREAD	DIN NORM	TOTAL HEIGHT B1 [mm]	WRENCH HEIGHT B2 [mm]	 W [mm]	OUTER DIAMETER A [mm]	ITEM CODE
	M10	DIN 1587 A2	17	8	17	18,90	DIN1587A2M10
	M12	DIN 1587 A2	19	10	19	21,10	DIN1587A2M12
	M16	DIN 1587 A2	24	13	24	26,75	DIN1587A2M16
	M20	DIN 1587 A2	34	16	30	33,53	DIN1587A2M20
	M24	DIN 1587 A2	42	19	36	39,98	DIN1587A2M24

Accessories

- welding plates

The welding plates provide complete sealing of the tube after welding.
The welding plates are available for rectangular and round tubes.

- Stainless steel AISI 304/A2, 1.4301
- Squared welding plates
- Round welding plates
- All dimensions available



Accessories

- welding plates

SQUARE



PRODUCT CODE					TYPE - THREAD - PLATE	
EXAMPLE					WPS - 38 - 2 X 2	
PLATE SIZE L x A [mm]	M8 [N]	M10 [N]	M12 [N]	M16 [N]	M20 [N]	M24 [N]
25 x 25	4.000	4.400	-	-	-	-
30 x 30	3.100	3.550	3.700	-	-	-
35 x 35	2.650	3.150	3.400	5.600	-	-
40 x 40	2.100	2.500	3.100	5.600	10.500	-
45 x 45	-	2.200	2.700	4.700	9.000	-
50 x 50	-	1.800	2.400	6.000	8.500	11.500
60 x 60	-	-	-	4.500	7.600	10.500
70 x 70	-	-	-	4.000	7.200	9.000
80 x 80	-	-	-	3.600	6.400	9.000
100 x 100	-	-	-	3.000	4.200	7.200
THICKNESS B [mm]	3			4		

RECTANGLE



PLATE SIZE L x A [mm]	M8 [N]	M10 [N]	M12 [N]	M16 [N]	M20 [N]	M24 [N]
50 x 25	2.300	2.800	3.600	-	-	-
50 x 30	2.100	2.500	3.300	-	-	-
60 x 30	-	-	2.800	6.400	8.700	-
60 x 40	-	-	2.200	5.600	7.500	12.000
80 x 40	-	-	-	4.600	7.000	11.800
80 x 50	-	-	-	3.900	5.800	10.500
80 x 60	-	-	-	3.500	5.600	7.200
100 x 50	-	-	-	3.800	6.800	7.900
THICKNESS B [mm]	3			4		

ROUND



PRODUCT CODE					TYPE - THREAD - PLATE	
EXAMPLE					WPR - 38 - 149	
PLATE SIZE D [mm]	M8 [N]	M10 [N]	M12 [N]	M16 [N]	M20 [N]	M24 [N]
33	2.700	3.600	4.650	-	-	-
38	2.600	3.200	3.800	6.500	-	-
40	2.500	3.100	3.600	5.500	-	-
43	-	3.000	3.400	4.800	8.500	-
50	-	2.300	2.900	6.800	10.500	14.000
60	-	-	-	5.800	7.000	10.000
THICKNESS B [mm]	3			4		

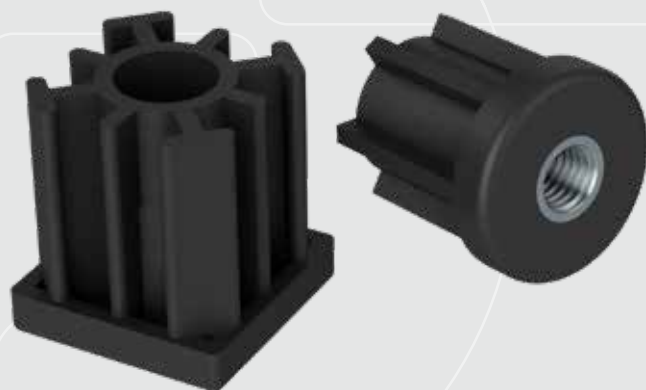
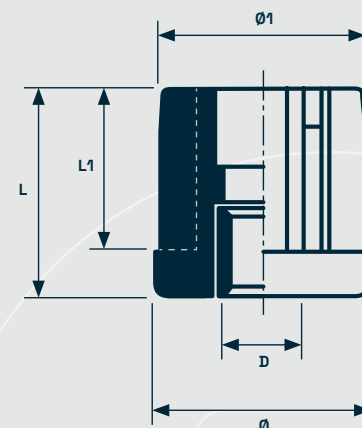
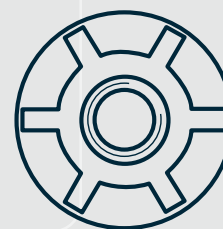
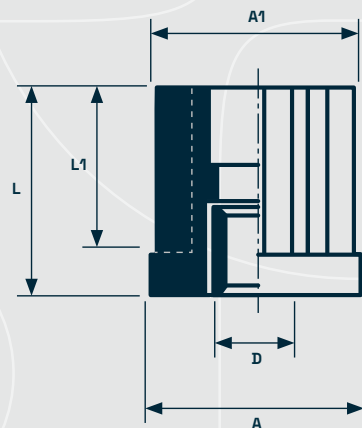
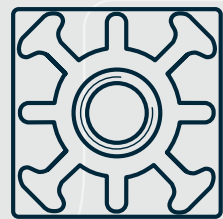


Values are based on 3D-Cad-Cosmos calculation, combined with practical test samples.
Applied safety factor: 1,5

Accessories

- plastic bushings

- Squared plastic bushings
- Round plastic bushings
- Many dimensions available



Accessories

- plastic bushings

SQUARE



THREAD D	EXTERNAL A [mm]	INTERNAL A1 [mm]	HEIGHT L [mm]	HEIGHT L1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
M10	30	27	33	27	5.000	PP30-10 1.5MM
M10	40	37	43	35	5.000	PP40-10 1.5MM
M12	30	27	33	27	5.000	PP30-12 1.5MM
M12	40	37	43	35	5.000	PP40-12 1.5MM
M16	30	27	33	27	5.000	PP30-16 1.5MM
M16	40	37	43	35	5.000	PP40-16 1.5MM
M16	40	36	43	35	5.000	PP40-16 2.0MM
M16	50	46	55	45	5.000	PP50-16 2.0MM
M16	50	45	55	45	5.000	PP50-16 2.5MM
M20	40	37	43	35	5.000	PP40-20 1.5MM
M20	40	36	43	35	5.000	PP40-20 2.0MM
M20	50	47	55	45	5.000	PP50-20 1.5MM
M20	50	46	55	45	5.000	PP50-20 2.0MM
M20	50	45	55	45	5.000	PP50-20 2.5MM

ROUND



THREAD D	EXTERNAL Ø [mm]	INTERNAL Ø1 [mm]	HEIGHT L [mm]	HEIGHT L1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
M12	38,3	35,3	52	42	5.000	PP Ø38.3-M12 1.5MM
M16	38,3	35,3	52	42	5.000	PP Ø38.3-M16 1.5MM
M16	48,3	45,3	52	42	5.000	PP Ø48.3-M16 1.5MM
M16	60,3	57,3	62	52	5.000	PP Ø60.3-M16 1.5MM
M16	60,3	55,3	62	52	5.000	PP Ø60.3-M16 2.0MM
M20	48,3	45,3	52	42	5.000	PP Ø48.3-M20 1.5MM
M20	60,3	57,3	62	52	5.000	PP Ø60.3-M20 1.5MM
M20	60,3	55,3	62	52	5.000	PP Ø60.3-M20 2.5MM

Accessories

- bipod support

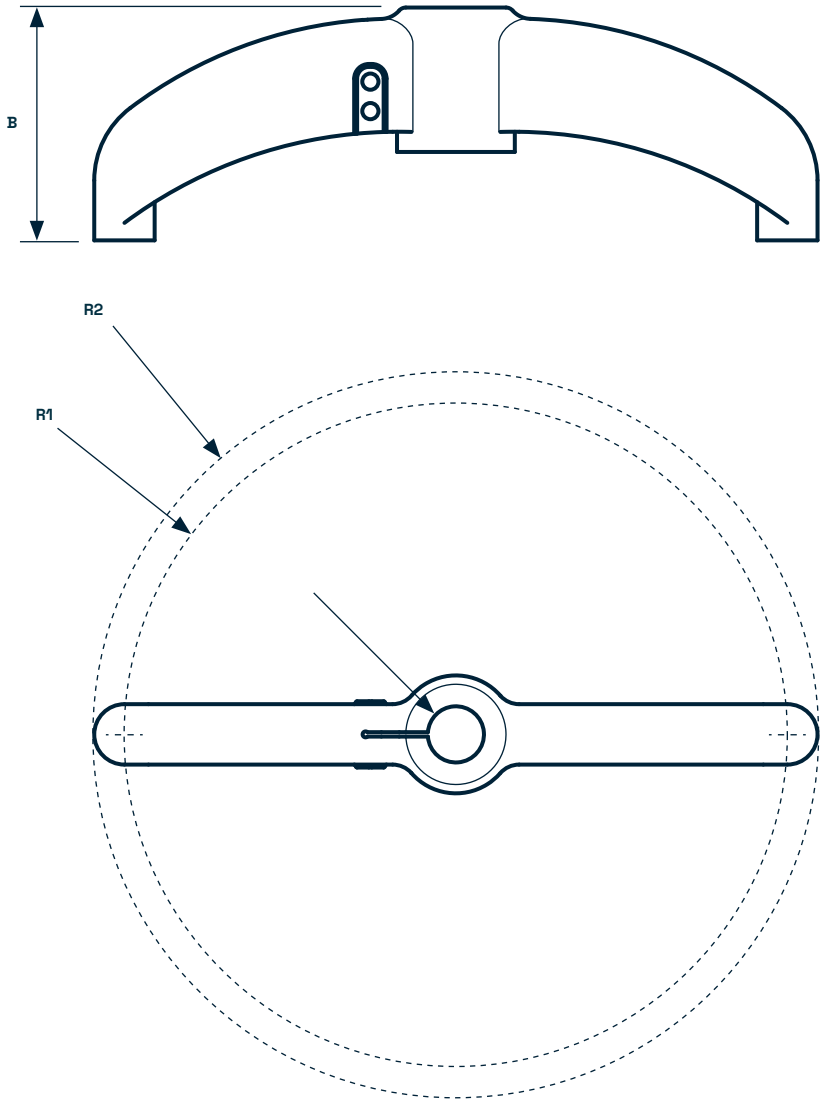
The bipod plastic base accepts five different standard tube sizes from Ø38.1 to Ø60.3 The tube leg is fixed with two bolts with spacers to ensure correct tightening. Select two optional M16 levelling feet. NGI recommends levelling foot M050-16-070.



Accessories

- bipod support

BIPOD SUPPORT	THREAD	DIAMETER	MAX LOAD	DIAMETER	LENGTH	LENGTH	DIAMETER	R ₁	R ₂	ITEM CODE
		D [mm]		D1 [mm]	A [mm]	B [mm]	M [mm]			
	M16	38,1	9.600	80	80	145	16	224	245	2SB381
	M16	42,4	9.600	80	80	145	16	224	245	2SB424
	M16	48,3	9.600	80	80	145	16	224	245	2SB483
	M16	50,6	9.600	80	80	145	16	224	245	2SB506
	M16	60,3	9.600	80	80	145	16	224	245	2SB603



Accessories

- tripod support

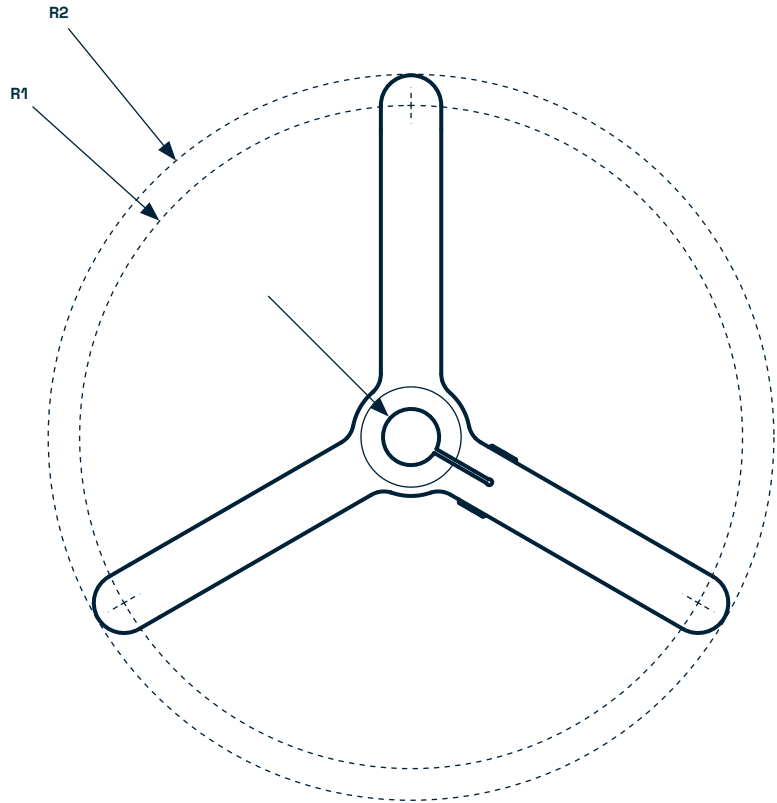
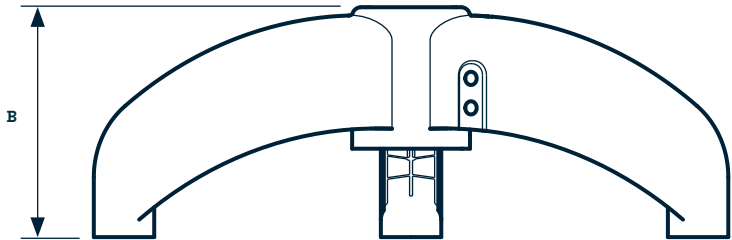
The tripod plastic base accepts five different standard tube sizes from Ø38.1 to Ø60.3
The tube leg is fixed with two bolts with spacers to ensure correct tightening.
Select three optional M16 levelling feet.
NGI recommends levelling foot M050-16-070.



Accessories

- tripod support

TRIPOD SUPPORT	THREAD	DIAMETER	MAX LOAD Ø1 [N]	DIAMETER	LENGTH	LENGTH	DIAMETER [mm]	R ₁ [mm]	R ₂ [mm]	ITEM CODE
		D [mm]		D1 [mm]	A [mm]	B [mm]				
	M16	38,1	10.000	80	80	145	16	224	245	3SB381
	M16	42,4	10.000	80	80	145	16	224	245	3SB424
	M16	48,3	10.000	80	80	145	16	224	245	3SB483
	M16	50,6	10.000	80	80	145	16	224	245	3SB506
	M16	60,3	10.000	80	80	145	16	224	245	3SB603



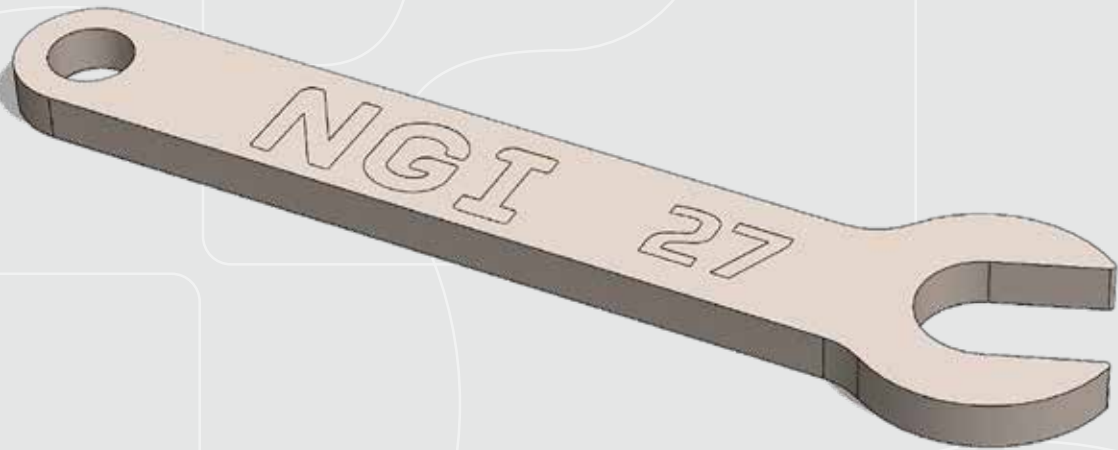
Accessories

- NGI wrenches

XHJSE machine feet need three different wrenches for installation.
NGI wrenches are laser cut and designed to fit NGI machine feet.

Please check the selection guide to see which sizes are needed for your respective model.

- W1: Spindle
- W2: Sleeve
- W3: Counter nut




Accessories

- NGI wrenches

NGI WRENCHES



 W [mm]	LENGTH L [mm]	THICKNESS C [mm]	HEAD WIDTH B [mm]	ITEM CODE
22	195	10	46	WR22
27	240	10	56	WR27
32	274	10	67	WR32
36	303	10	74	WR36
41	343	10	85	WR41
50	413	10	102	WR50
55	457	10	113	WR55
60	492	10	122	WR60
65	528	10	132	WR65
75	608	10	152	WR75
80	644	10	162	WR80
85	690	10	174	WR85
90	690	10	174	WR90
95	850	10	195	WR95
100	1000	10	195	WR100

SELECTION GUIDE

SPINDLE SIZE	W1 [mm]	W2 [mm]	W3 [mm]
M30	22	36	50
M36	27	41	50
M42	32	50	55
M48	36	55	60
M65S/M56L	41	65	85
M64	50	75	85
M72	55	80	95
M80	65	90	95
M90	75	100	95

Accessories

- HILTI tools

Hilti's seismic research includes detailed investigation of product performance under simulated seismic conditions and full scale system testing.

This multilevel approach helps to capture the complexity of fastening systems behavior under seismic conditions. Earthquakes can affect a wide range of construction products that Hilti supplies anchors for and NGI are confident that they are the best on the market today. Hilti is pioneering research to extensively test systems for earthquake performance in order to support their customers with recommendations for design applications.



Accessories

- HILTI tools

PISTOL



HILTI ITEM CODE	DESCRIPTION	ITEM CODE
Kit HDM 500	Injectable mortar dispenser	KitHDM500
Kit HDM 500-A22	Cordless electric dispenser	KitHDE500-A22

MORTAR



HILTI ITEM CODE	DESCRIPTION	AMOUNT	ITEM CODE
HIT-HY-200-A	Injectable mortar	330ml	HIT-HY-200-A

STANDARD DRILL BIT



HILTI ITEM CODE	DIMENSIONS	WORKING LENGTH	USE FOR
TE-CX 12/22	12X220	150	M10
TE-CX 14/22	14X220	150	M12
TE-CX 18/32	18X320	250	M16
TE-CX 22/48	22X480	410	M20
TE-CX 28/48	28X480	410	M24

SAFE-SET DRILL BIT



HILTI ITEM CODE	DIMENSIONS	WORKING LENGTH	USE FOR
TE-CD 12/33	12X330	240	M10
TE-CD 14/37	14X370	240	M12
TE-CD 18/37	18X370	240	M16
TE-YD 22/59	22X590	400	M20
TE-YD 28/59	28X590	400	M24

INSTALLATION PACK SMALL

FOOTPLATE	ANCHOR SIZE [Metric]	BOLT TYPE	QTY. ANCHORS, DOME-HEADED NUTS & WASHERS	ITEM CODE
HXJCFE150(S)/XHJCFE150(S)	M12x155	HIT-Z-R	4	HIT-Z-R-4M12
HXJE150(S)/XHJSE150(S)	M10x160	HIT-Z-R	3	HIT-Z-R-3M10
HXJE200(S)/XHJSE200(S)	M12x155	HIT-Z-R	4	HIT-Z-R-4M12

LARGE

HXJE250(S)/XHJSE250(S)	M16x250	HIT-Z-R	4	HIT-Z-R-4M16
HXJCFE300(L)/XHJCFE300(L)	M16x240	HIT-Z-R	4	HIT-Z-R-4M16
HXJE250(L)/XHJSE250(L)	M16x240	HIT-Z-R	3	HIT-Z-R-3M16
HXJE300(L)/XHJSE300(L)	M20x250	HIT-Z-R	4	HIT-Z-R-4M20
HXJE350(L)/XHJSE350(L)	M20x250	HIT-Z-R	6	HIT-Z-R-6M20
HXJE400(L)/XHJSE400(L)	M24x330	HIT-V-R	6	HIT-V-R-6M24

Accessories

- anchors

High-performance anchor rod for injectable hybrid/epoxy anchors (A4 stainless steel).

- Material, corrosion: Stainless steel, A4
- Base materials: Concrete (cracked), Concrete (uncracked), Masonry (solid)
- PROFIS software: Yes



Accessories

- anchors

ANCHOR HIT-Z-R



TYPE	DRILL DIAMETER DD [mm]	THREAD SIZE TS [MM]	LENGTH L [MM]	SETTING DEPTH (SD) [MM]	TIGHTENING TORQUE F [NM]	REQUIRED MORTAR - PER ANCHOR [ML]	ITEM CODE
M10x160	12	M10	160	120	25	13	HITZRM10x160
M12x155	14	M12	155	120	40	18	HITZRM12x155
M16x205	18	M16	205	170	80	32	HITZRM16x250
M16x240	18	M16	240	190	80	35	HITZRM16x240
M20x250	22	M20	250	210	150	53	HITZRM20x250

ANCHOR HIT-V-R



TYPE	DRILL DIAMETER DD [mm]	THREAD SIZE TS [MM]	LENGTH L [MM]	SETTING DEPTH (SD) [MM]	TIGHTENING TORQUE F [NM]	REQUIRED MORTAR - PER ANCHOR [ML]	ITEM CODE
M24x330	26	M24	330	285	200	123	HITVRM24x300

Technical specifications



Technical material description

Application:

Material type:

Compliance:

Spindle, sleeve and foot cover

Stainless steel, SISI 304/A2 (X5CrNi18-10), Euronorm 1.4301. By request: Stainless steel, AISI 316/A4 (X 5 CrNiMo 17 12 2). Euronorm 1.4401.

EN 10204 Type 2.2. NGI a/s states that the product is in compliance with the order with indication of results of non-specific inspection. NGI has EN 10204 type 3.1 inspection CERTIFIEDs on all material used in the products but not specified for each foot.



Application:

Material type:
Hardness:
Color:
Range of temperature:
Storage:
Compliance:

Sealing ring between steel components

Silicon rubber
60 Shore A
RAL 5010 (blue)
Min. -60 ° C to max. +200 ° C
According to ISO 2230
FDA:Guideline 21 CFR 177.2600
RoHS 2: In accordance with the Directive 2011/65/ EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL
GMP: Good Manufacturing Process in accordance with 2023/2006 EC



Application:

Material type:
Color:
Hardness:
Range of temperatures:
Complicanc with:

Sealing
NBR
Black
72 +/- 3 Shore A DIN 53 505
Min. -35 ° C to max. +110 ° C
REACH, RoHS & RoHS 2, ADI free, EC
100S/2009, EC 2037/2000, 2023/2006 EC, No Phthalates, FDA approved.



Application:

Material type:
Color:
Hardness:
Range of temperatures:
Complicanc with:

Vulcanized rubber

NBR
Black
72 +/- 3 Shore A DIN 53 505
Min. -35 ° C to max. +110 ° C
REACH, RoHS & RoHS 2, ADI free, EC
100S/2009, EC 2037/2000, 2023/2006 EC, No Phthalates, FDA approved.



Application:

Material type:
Electrically:
Chemical resistance:
Color:
Hardness:
Range of temperature:
Load:

Plastic lid

PPC
Non-conductive
High to commonty applied cleaning agents
Black
Rockwell R 85
Min. -20 ° C to max. +90 ° C
High load capacity



Application:

Material type:
Electrically:
IP Code IP69K
Chemical resistance:
Color:
Flammability:
Range of temperature:
Max. temperature:
Compliance with:

Foot base for NGI plastic feet

PA 6
Non-conductive
DIN (Deutsches Institut für Normung) 40050-9
High to commonly applied cleaning agents
Black
V2
Min. -20 ° C to max. +110 ° C
High thermal resistance for short duration: +150 ° C
REACH 2037/2000, 2023/2006 EC, No Phthalates, FDA approved



Application:

Material type:
Electrically:
Chemical resistance:
Color:
Hardness:
Range of temperature:
Load:

Anti slip 2K bounded

TPE
Non-conductive
High to commonly applied cleaning agents
Black
Shore A 90 +/- 5
Min. -50 ° C to max. +125 ° C
High load capacity



Application:

Material type:
Electrically:
Chemical resistance:
Color:
Hardness:
Range of temperature:
Load:

Anti slip

EPDM/NBR
Non-conductive
High to commonly applied cleaning agents
Black
Shore A 80 +/- 5
Min. -20 ° C to max. +110 ° C
Low load capacity



Technical specifications

Footplate load information

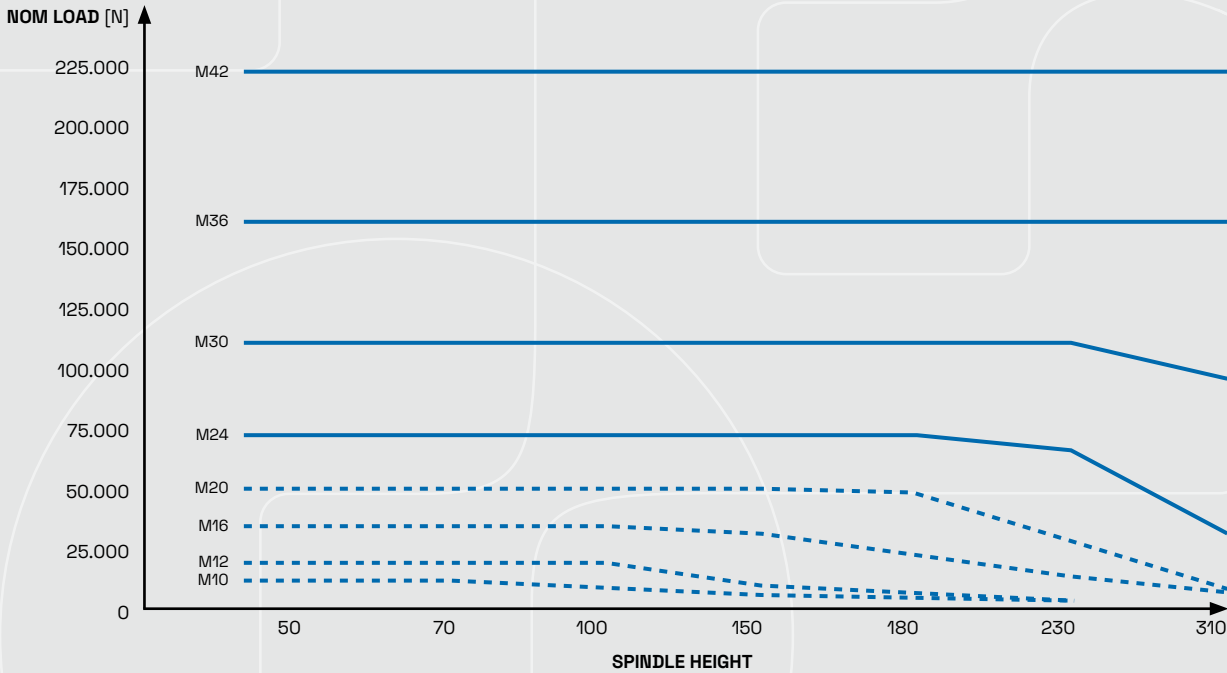
The nominal load specifications below are for the footplates only.
Maximum nominal load = lowest value for footplate or spindle.

3A, USDA & EHEDG	HYGIENIC	FULLY-THREADED	SOLID FULLY-THREADED	PLASTIC FULLY-THREADED	NOMINAL LOAD UP TO [N]
FOOTPLATE TYPE	FOOTPLATE TYPE	FOOTPLATE TYPE	FOOTPLATE TYPE	FOOTPLATE TYPE	
XHS065, XHS066, XHS080, XHS081, XHTS65, XHTS066, XHTS080, XHTS081, XHF065, XHF066, XHF080, XHF081	M040, M050, M075, M076, M077, M105, M106, H060, H061, H080, H081, H082, HT060, HT080	M040, M050, M075, M076, M077, M105, M106, H060, H061, H080, H081, H082, HT060, HT080, K075, HX065, HX066, HX080, HX081, HXT080		HPA040, HPA040AS, HPA050, HPA050AS, HPA060, HPA060AS, HPA080, HPA080AS, HPA081, HPA081AS, HPA100, HPA100AS, HPA101, HPA101AS, HP060, HP080, HPG060, HPG080, HPR08	20.000
XHS105, XHS106, XHS125, XHTS105, XHTS106	H100, H101, H120, H140, HT100, HT120, HT140, M100, M125, M150, H120, H140, HG060AS, HG070AS, HG090AS, HG110AS, HG150AS, HGT090AS, HGT110AS, HJT090AS, HJT110AS, HJO80AS, HJO90AS, HJ110AS, HJ150AS,	HT100, HT120, HT140, K100, K125, HX105, HX106, HX125, M100, M125, M150, H120, H140	CF110AS, CF180AS, G090AS, G110AS, G150AS, G180AS, G200AS, HG060AS, HG070AS, HG090AS, HG110AS, HG150AS, HGT090AS, HGT110AS, HJO80AS, HJO90AS, HJ110AS, HJ150AS, J090AS, J110AS, J150AS, J180AS, KCF110AS, KG090AS, KG110AS, KG150AS, KG180AS, KJO90AS, KJ110AS, KJ150AS, KJ180AS, KTO90AS, KT110AS, KT130AS, KT150AS, KT180	HP100, HP120, HPG100, HPG 120, HPR100, HPR120, HPA125, HPA125AS	60.000
XHS150, XHTS150, XHGS105, XHGS125, XHGS150, XHGTS105, XHGTS125, XHGTS150, XHJS105, XHJS125, XHJS150, XHJTS105, XHJTS125, XHJTS150	HG060, HG070, HG090, HG110, HG150, HJO80, HJO90, HJ110, HJ150	HX150	CF110, G090, G110, G150, JO90, J110, J150, KG090, KG110, KJO90, KJ110, HG060, HG070, HG090, HG110, HG150, HJO80, HJO90, HJ110, HJ150, KCF110, HXG105, HXG105AS, HXG125, HXG125AS, HXGT105, HXGT105AS, HXGT125, HXGT125AS, HXJ105, HXJ105AS, HXJ125, HXJ125AS, HXJT105, HXJT105AS, HXJT125, HXJT125AS		120.000
			CF180, G180, J180, KG150, KG180, KJ150, KJ180, KTO90, KT110, KT130,		180.000
			KT150, KT180		240.000
	HGT090, HGT110, HJT090, HJT110		HGT090, HGT110, HJT090, HJT110		300.000

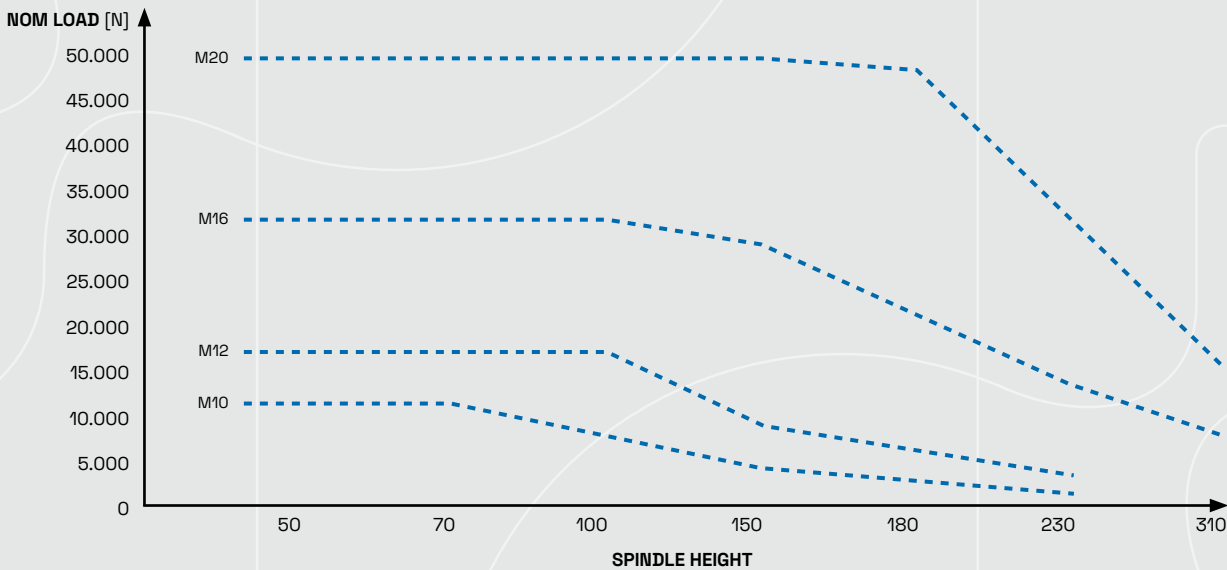
Technical specifications

Spindle load information

NOM LOADS - ALL SPINDLES
M10 - M42



NOM LOADS - SMALL SPINDLES
M10 - M20



Technical specifications

Selecting a levelling foot

When selecting the levelling foot we recommend to follow the below factors.

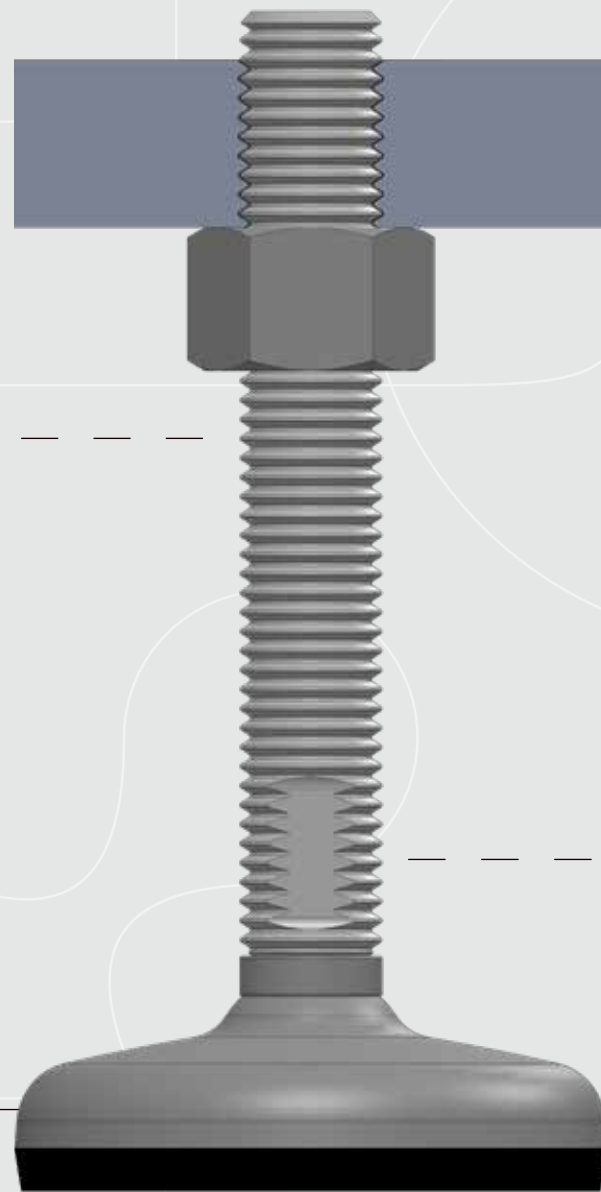
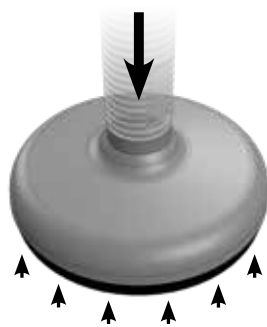
Spindle destabilisation

The spindle must have the right diameter in relation to the length to avoid destabilisation.



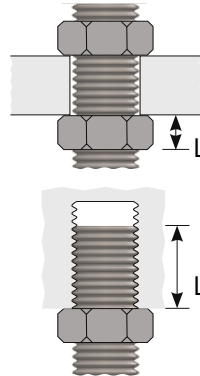
Load combination

Maximum nominal load = lowest value for footplate or spindle.



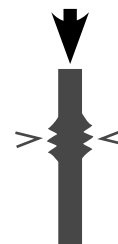
Thread engagement

The thread length of engagement (L) must be selected according to the load on the levelling foot.



Spindle yield

The spindle diameter must be selected according to the load on the levelling foot to avoid spindle yield.



Technical specifications

Levelling of machinery

For optimal levelling of the machinery we recommend to follow the below guidelines.

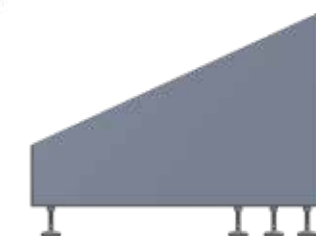
Horizontal levelling

The machinery must be horizontally levelled.



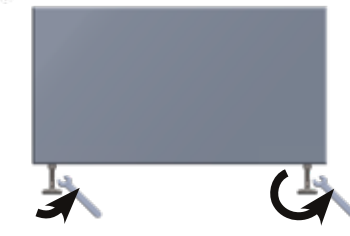
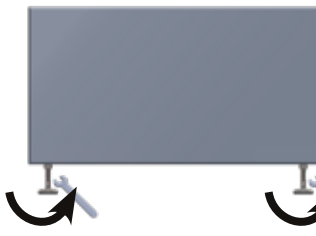
Even load

If the machinery has an uneven weight distribution, the feet should be placed according to the distribution of weight.



Load distribution

To avoid overload of the machinery the levelling feet should be adjusted with the same torque.



Sloping floor

For correct installation the maximum slope of the floor must not exceed the specifications of the levelling foot.



Maximum slope

Exceeded maximum slope

UV lighting used to expose bacteria

- THE CERTIFIED HYGIENIC LEVELLING FOOT IS CLEAN
- THE SPINDLE OR THE FULLY-THREADED LEVELLING FOOT IS INFECTED WITH BACTERIA
- FULLY-THREADED VS HYGIENIC - IT TAKES 28% MORE RESSOURCES TO REACH THE SAME LEVEL OF CLEANABILITY ON A FULLY-THREADED FOOT
- RESSOURCES COULD BE TIME, WATER, MONEY, DETERGENTS, ETC.

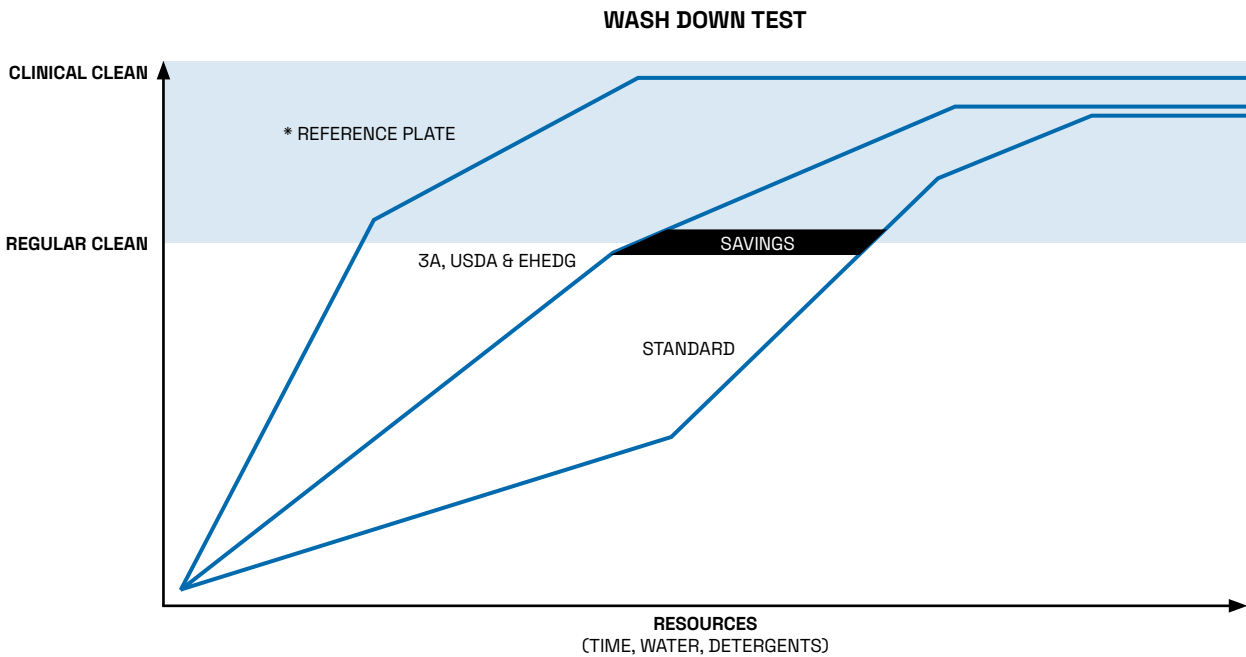
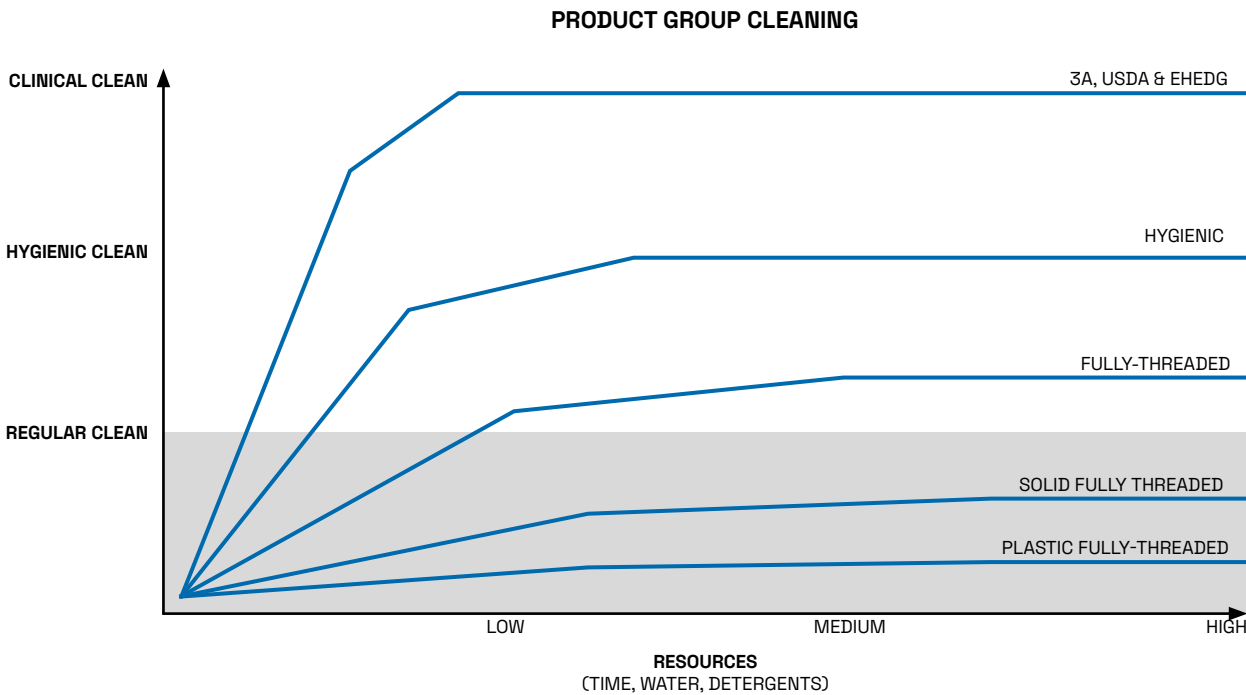
ESTIMATED SAVINGS
28%



Technical specifications Cleaning Instructions

The resources required to clean NGI's levelling feet depends largely on the design of the levelling foot and the environment in which the levelling foot is used.

It is possible to use all known detergents to clean the levelling feet as long as the instructions provided by the supplier is complied with.



* Reference plate = Stainless steel plate with surface less than Ra 0,8

Terms of sales & delivery

1.0 Scope of application of terms and conditions of sale

1.1 These terms and conditions of sale apply to all NGI A/S ("NGI") offers, sales and deliveries of products to the buyer (the Buyer") unless otherwise accepted by NGI in writing.

1.2 NGI and the Buyer have not entered into a final and binding agreement of sale until NGI has issued a written order confirmation, which shall constitute such final and binding agreement.

2.0 Delivery terms

2.1 Products are delivered EX WORKS/ab fabrik from NGIs place of business (Virkelyst 5, 9400 Nørresundby, Denmark). Products are delivered in NGI's standard packaging.

2.2 If NGI and the Buyer have agreed that NGI shall arrange for transport of the products to the Buyer, NGI will stipulate the expected date of delivery in the applicable order confirmation. Any such transport will be at the cost and risk of the Buyer unless otherwise explicitly agreed by the parties in writing.

2.3 Delivery dates are best estimates only. NGI shall not be liable for delays.

3.0 Terms of payment

3.1 NGI offers the Buyer the number of days of credit specified in the relevant invoice. However, NGI may demand prepayment at any time if NGI considers this to be relevant.

3.2 If payment is not made before or on the due date specified in the relevant invoice, NGI is entitled to charge interest on the due amount from the due date at a rate of 2% per commenced month.

3.3 NGI reserves title in the products until the products have been paid for in full.

4.0 Defects and liability

4.1 NGI is obliged to, at its choice, repair or replace defective products on the terms set out in clauses 4.2 - 4.9 below.

4.2 The buyer shall complain in writing to NGI of a defect immediately after such defect has been or should have been discovered and in any event within one year from delivery. The complaint shall describe the alleged defect in reasonable detail. If the Buyer does not complain in accordance with the aforesaid, the Buyer will lose his right to raise claims against NGI for products being defective. If a product has been used more intensively than agreed or assumed, the complaints period shall be reduced proportionally.

4.3 Repair or replacement of products or parts does not extend the maximum complaints period of one year in clause 4.2.

4.4 If NGI decides to repair a defective product, repair shall take place on site. If NGI decides to replace a defective product, replacement will be effected by NGI sending a non-defective product to the Buyer. Repair or replacement shall be effected by NGI within reasonable time after NGI receives a complaint in accordance with clause 4.2, and in any event with 4 weeks from receipt of such complaint,

4.5 NGI may demand that (alleged) defective products are returned to NGI at the Buyer's risk and cost. Returned products shall become NGIs property if replaced. If the Buyer complains about a product that NGI subsequently establishes not be defective, NGI may claim compensation for its time, work, costs etc. in accordance with its terms, rates and prices applicable from time to time.

4.6 If NGI does not fulfill its obligations under clause 4.4, the Buyer shall have the right to return the defective product to NGI, at the Buyer's cost and risk, for a full refund of the purchase price.

4.7 NGI shall not be responsible for defects caused by material which is provided by the Buyer, for constructions or specification which are prescribed or specified by the Buyer, for inadequate maintenance, for changes to the delivered products made without NGI's prior written consent, for inappropriate repairs or incorrect use of the products, or for faulty preparatory work by the Buyer. NGI's liability only includes defects which appear under working conditions presumed by NGI. Normal wear and tear and depreciation shall not be considered a defect.

Terms of sales & delivery

4.8 NGI's liability under this Agreement shall be limited to the invoice value of the defective product, that gave rise to claim. Further, NGI shall not be liable for indirect loss, including loss of operation, lost earnings and other consequential loss. The limitation of NGI's liability shall not apply if NGI acted grossly negligently or intentionally.

4.9 NGI shall be liable only to the extent set out above in this clause 4. The rights and remedies of the Buyer set out in this clause 4 are exhaustive and exclude all other remedies and claims under law or otherwise.

5.0 Product Liability

5.1 NGI shall be responsible for product liability claims only to the extent required under mandatory product liability law. NGI shall not be liable for damage to commercial property. Further, NGI shall not be liable for indirect loss, including loss of operation, lost earnings and other consequential loss.

If a third party raises a claim against the Buyer for product liability, the Buyer shall immediately notify NGI in writing.

6.0 Choice of law and venue

6.1 Any disputes between the Parties arising from or in connection with NGI's sales of products to the Buyer shall be governed by substantive Danish law (and the CISG shall not be applicable), and disputes shall be brought before The Maritime and Commercial Court (Sø- og Handelsretten) in Copenhagen, Denmark. If this court declares that it is not competent, disputes shall be brought before the Copenhagen City Court (Københavns Byret) in Copenhagen, Denmark.

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All information in this product catalogue is subject to change without prior notice.

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Certified hygienic **CIP Unit**



A safer and more effective cleaning of your equipment?

- try our CIP Unit!

The new easy-to-fit hygienic CIP unit is a simple and efficient solution, where nozzles are positioned on the two spray bars. This is to effectively remove the accumulated organic residues from both sides of a process and conveyor belting.

The CIP unit can easily be installed with no use of complicated engineering and conveyor frame modifications. The device is highly efficient, hygienically designed, and makes cleaning more environmentally friendly.

The installation of the new CIP unit minimizes the operator's manual cleaning and contributes to reduce the resource utilization such as water, labor and detergents. See more at www.ngi-global.com

- Reduce the cleaning time and manual labor and increase your production time
- Reduce the consumption of water, chemicals and energy
- Minimize the wear on conveyor belt surfaces by avoiding manual cleaning
- Low maintenance and service required
- State-of-the-art hygienic design. Inspired by EHEDG and 3-A design guidelines

Watch video
online to see
the CIP Unit
in action

