

Thanks for your interest



Go to <https://uk.ngi-global.com/hygieniccastor>



# Certified hygienic Castors

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# 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/hygeniccastor](http://www.ngi-global.com/hygeniccastor) to read more and see our product range.





# Locally based Area Sales Managers

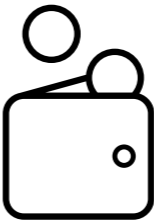


## Gain a competitive advantage with hygienic components

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?

Invitation to innovation  
Investing in knowledge-sharing

# Tests of Castors

Test in a production facility  
- Hygienic castors versus standard castors

With one of our customers, we have tested our new castors against current castors and the advantages are easy to see. We ran tests showing how much filth castors pick up from the production floor during use.



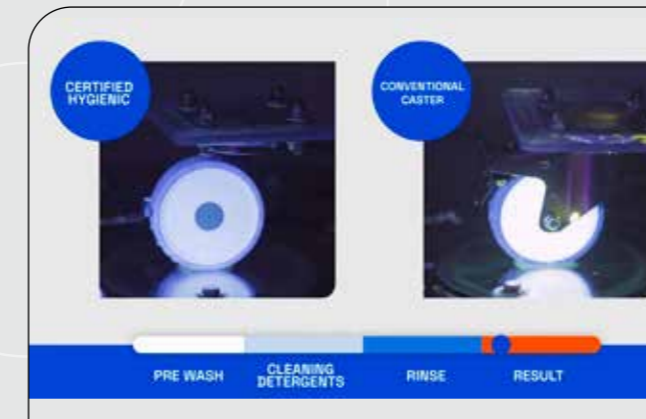
The results were evident! – the hygienic design of the new castor ensures that dirt does not accumulate and therefore minimizes the risks of cross-contamination between production zones. Learn more and see the actual tests by visiting our landing page by scanning the QR code.



# Tests of Castors

Test by Force Technology  
- Hygienic castors versus standard castors

FORCE Technology - Danish Research and Technology Organisation of hygienic design - has also tested our new castors against standard castors. The test illustrates the significant savings in resources and enhanced food safety.



The design of all traditional castors makes it impossible to clean 100%.

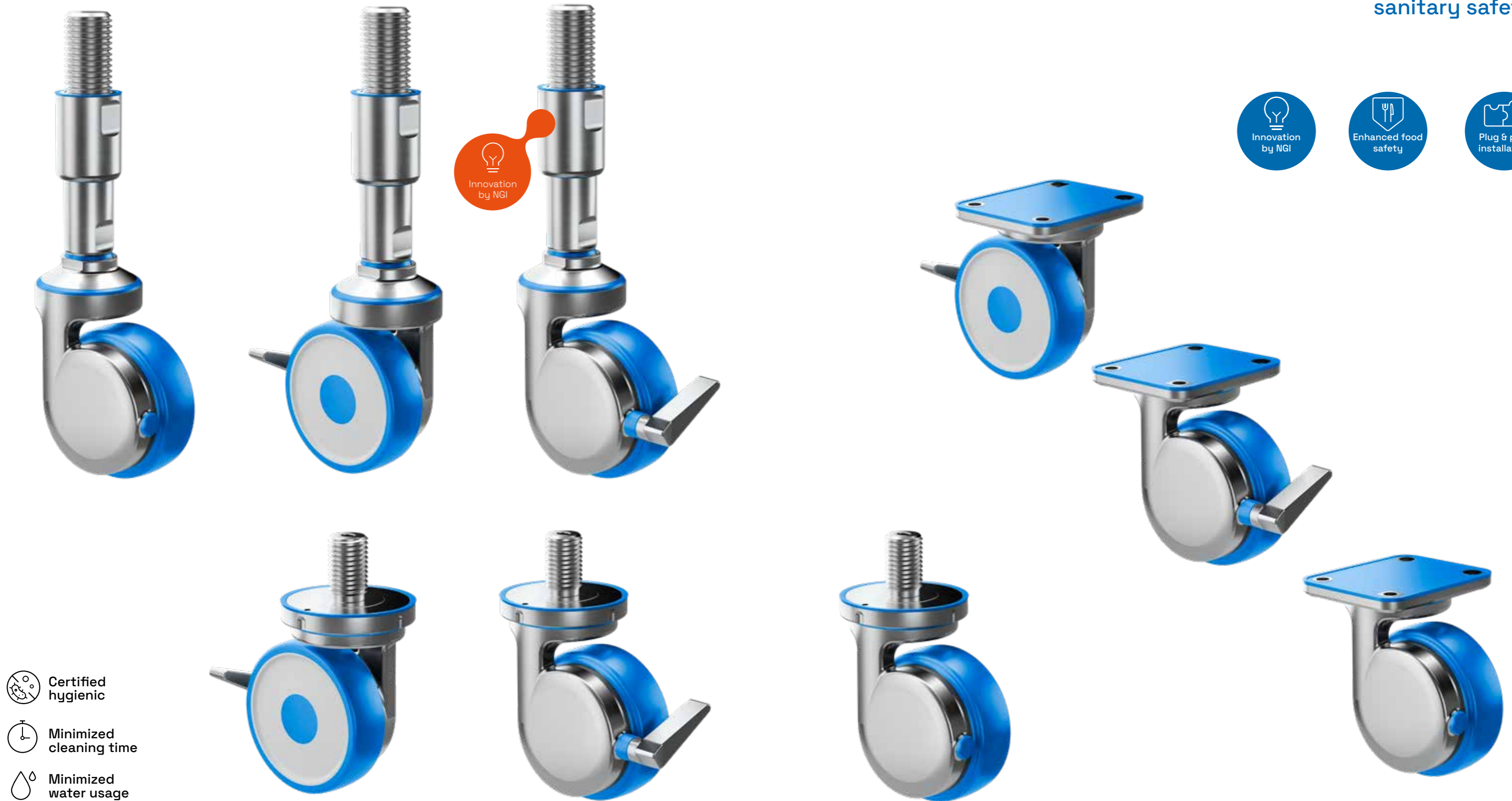
However, besides estimated savings in resources of up to 32%, our hygienic castors also solve this issue! As the wash down test shows, total cleanability can be obtained with the NGI Hygienic castors, whereas standard castors still represent a continuous significant threat, as they are still very much infected with organic bacteria after wash down. Watch the test online!



# Hygienic optimized 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, 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

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## 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

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## XSCR

### Special Features

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

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## 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 30 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

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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 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 E with floor fixing

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## XSCS

### Special Features

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

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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 pm RA
- Available in sizes M5-M24

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## XCS

### Special Features

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

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## 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

39

# Certified hygienic Castor - XSCB-XHS

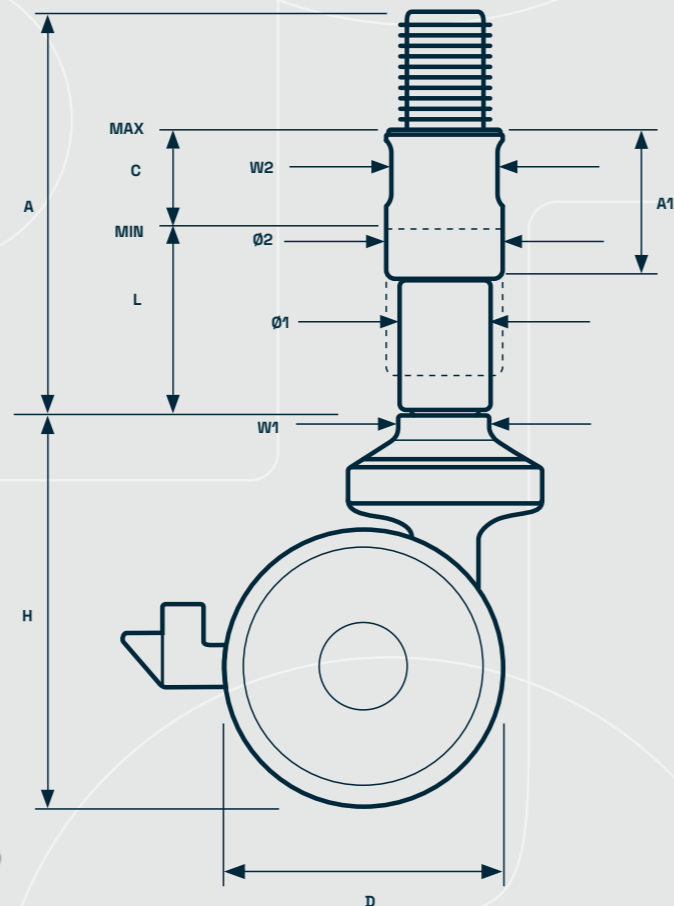
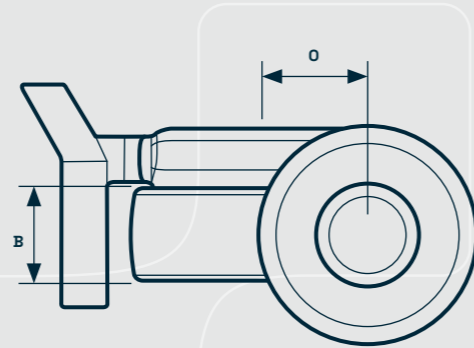
- Certified hygienic
- Minimized cleaning time
- Minimized water usage

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

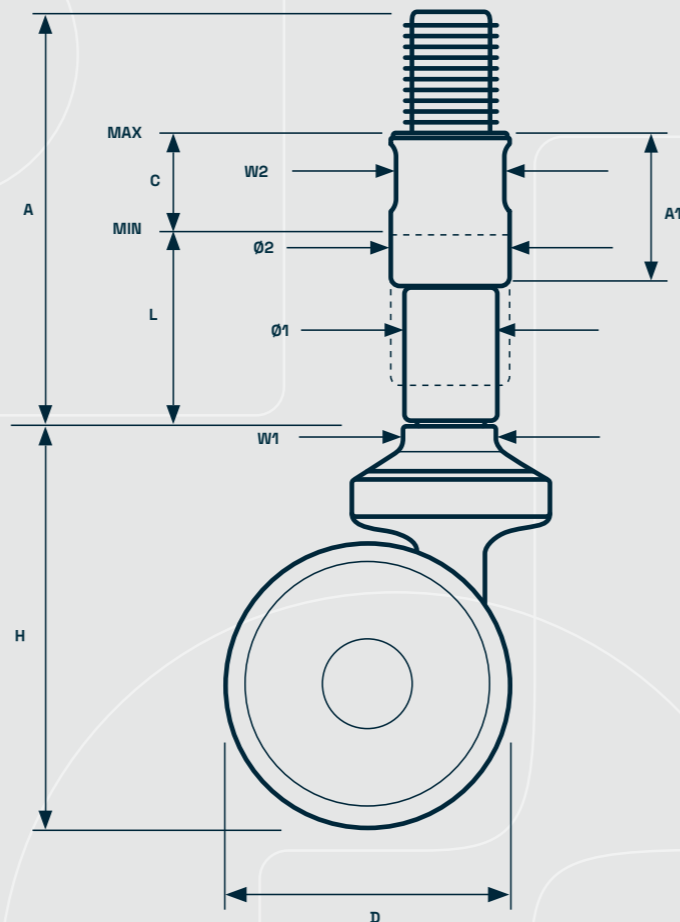
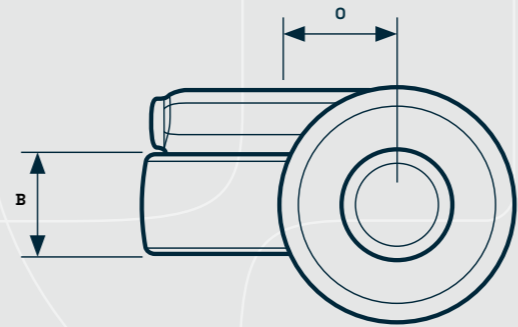
- Certified hygienic
- Minimized cleaning time
- Minimized water usage

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 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

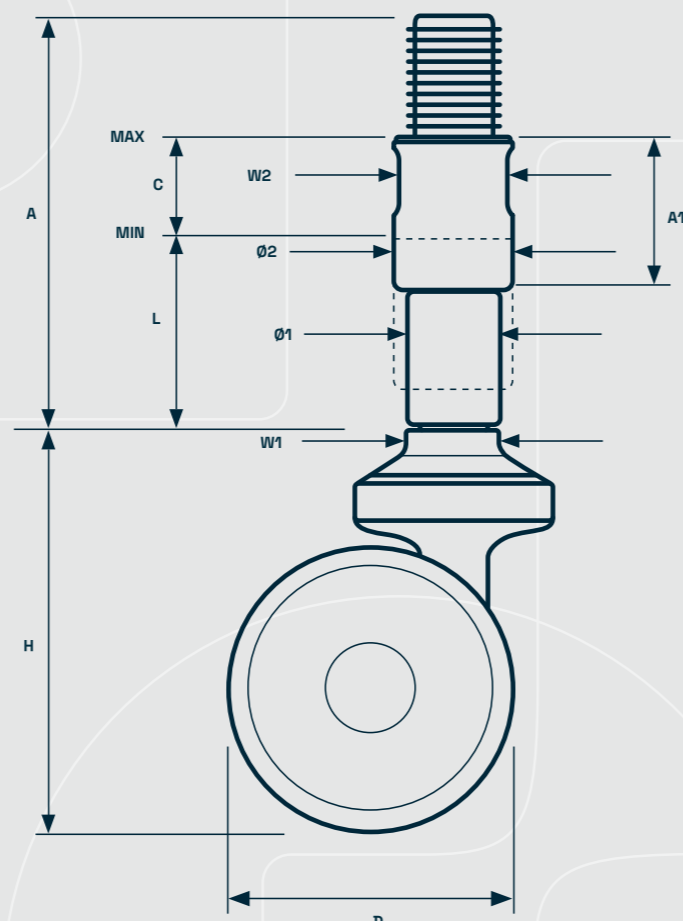
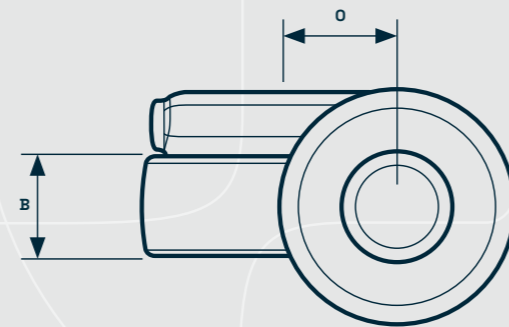
# Certified hygienic Castor - XC-XHS

- 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

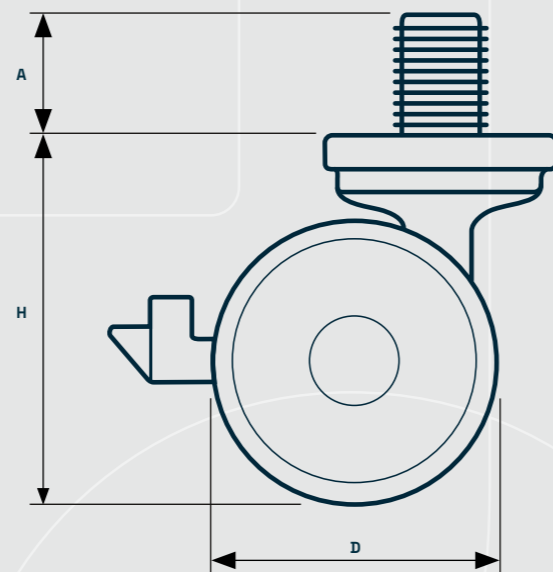
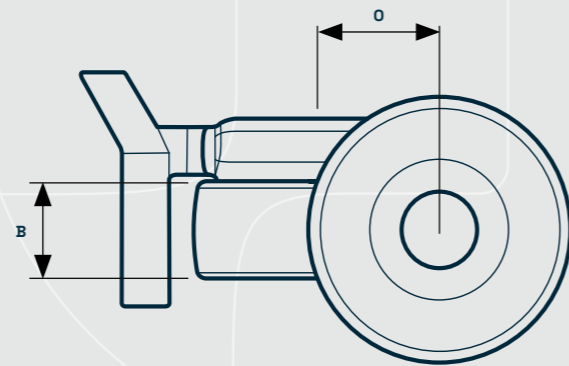
Total height = A + B  
 Minimum usable height = B + L  
 Maximum usable height = B + L + C  
 Maximum nominal load = Lowest value for castor or spindle  
 Tolerance of total height = +/-1,5 mm

# Certified hygienic Castor - XSCRB

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

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 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



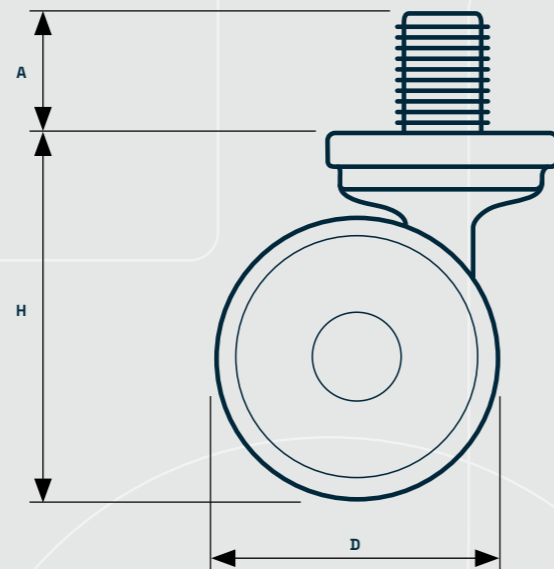
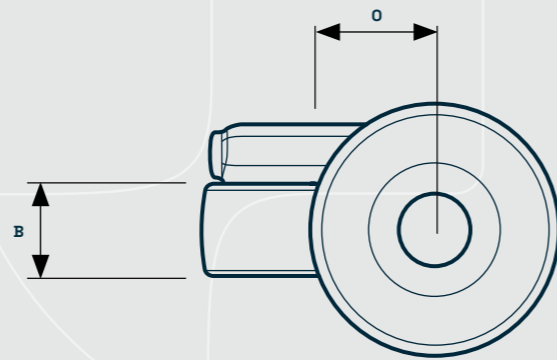
Total height = H + A  
Tolerance of total height = +/-1,5 mm

# Certified hygienic Castor - XSCR

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

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 Castor - XSCR



CASTOR



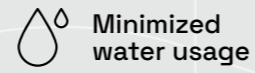
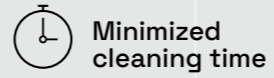
PRODUCT CODE	CASTOR
EXAMPLE	XSCR100-24-40

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

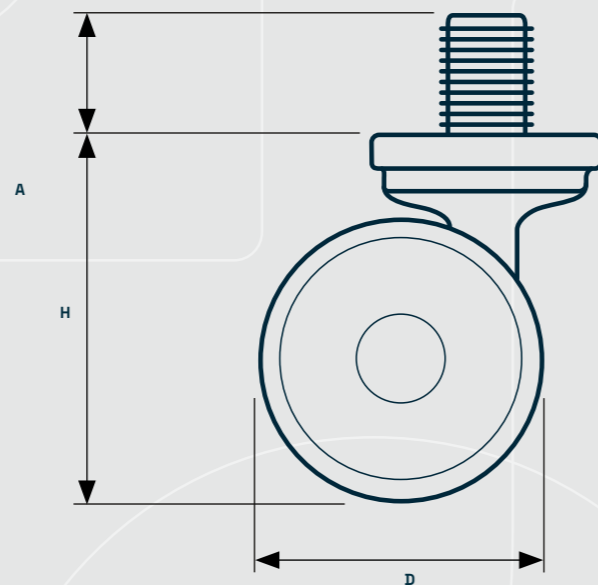
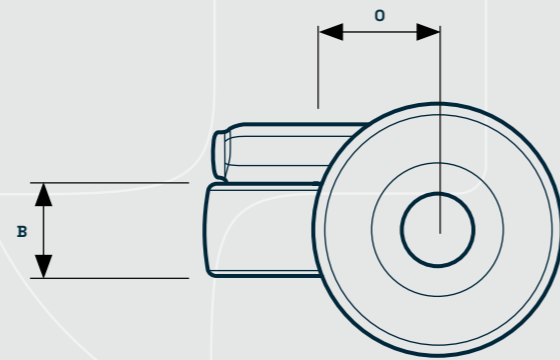
# Certified hygienic Castor - XCR



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 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



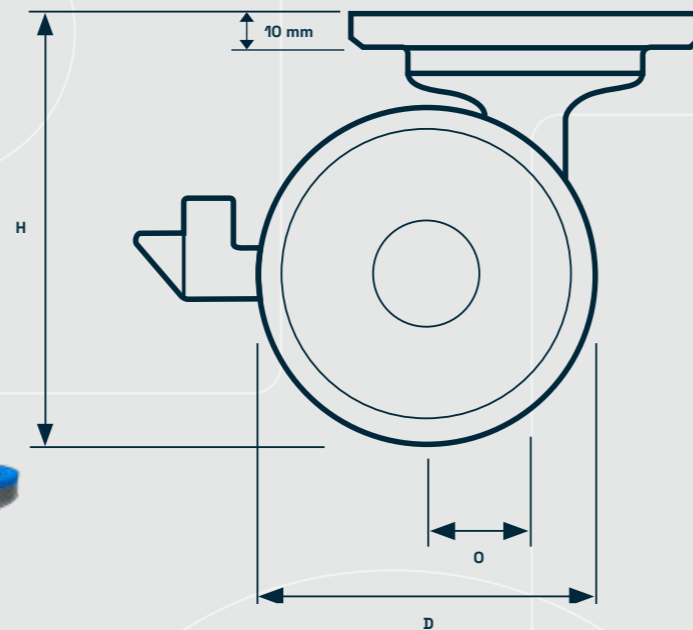
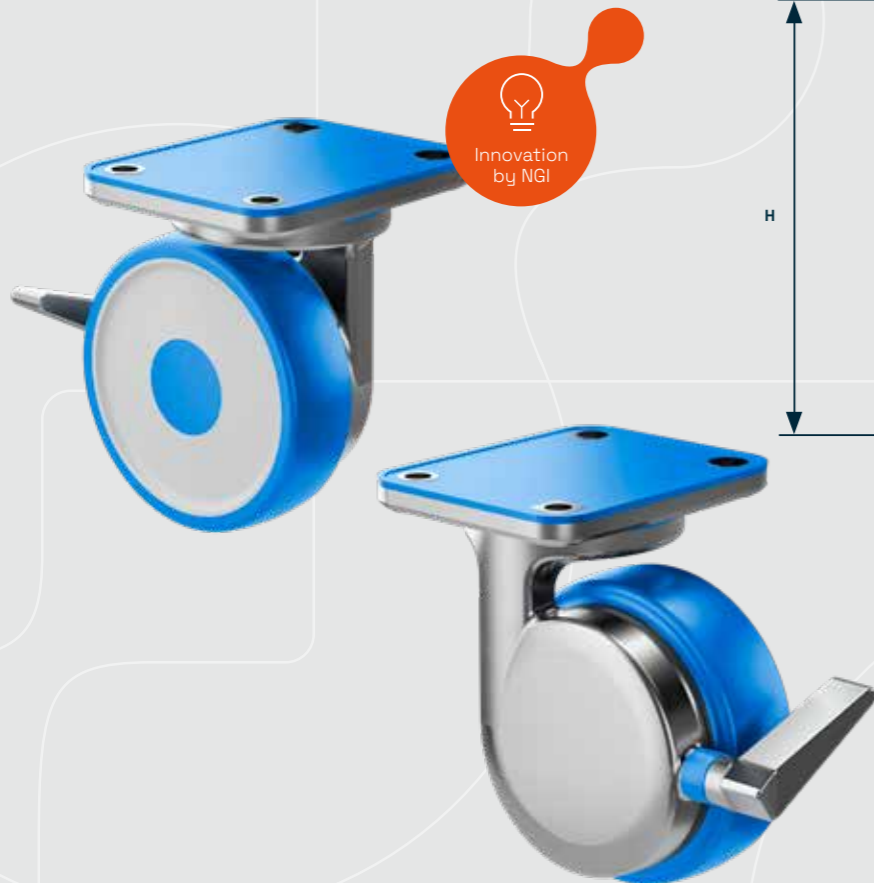
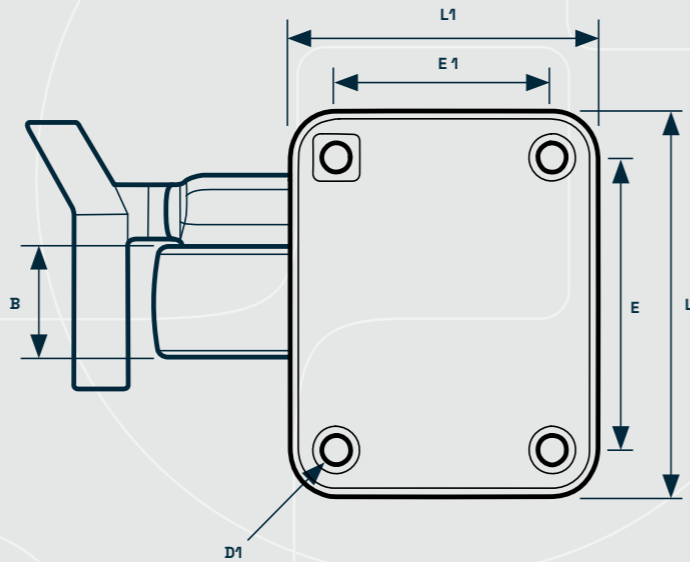
Total height = H + A  
Tolerance of total height = +/-1,5 mm

# Certified hygienic Castor - XSCSB

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

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 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

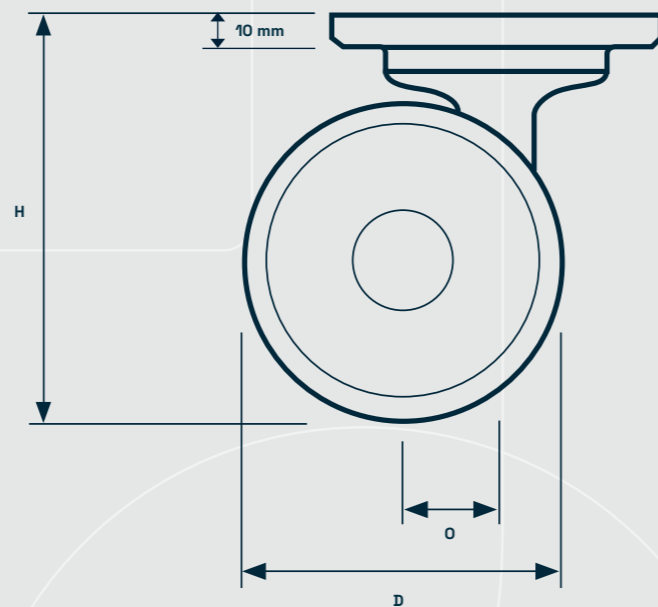
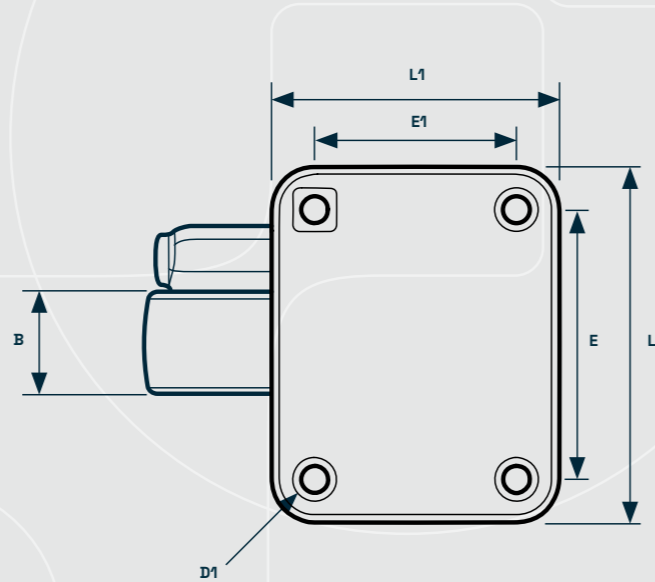


TYPE	LENGTH L [mm]	LENGTH L1 [mm]	HOLE POSITION E [mm]	HOLE POSITION E1 [mm]	HOLE DIAMETER D1 [mm]
100	105	85	80	60	8,5

# Certified hygienic Castor - XSCS

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

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 Castor - XSCS



PRODUCT CODE	CASTOR
EXAMPLE	XSCS100

## CASTOR



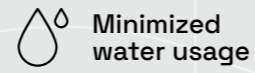
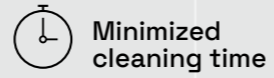
TYPE	DIAMETER D [mm]	HEIGHT B [mm]	OFFSET O [mm]	WIDTH H [mm]	DYNAMIC LOAD [N]	ITEM CODE
100	100	128	30	29	2,000	XSCS100

## FIXING PLATE



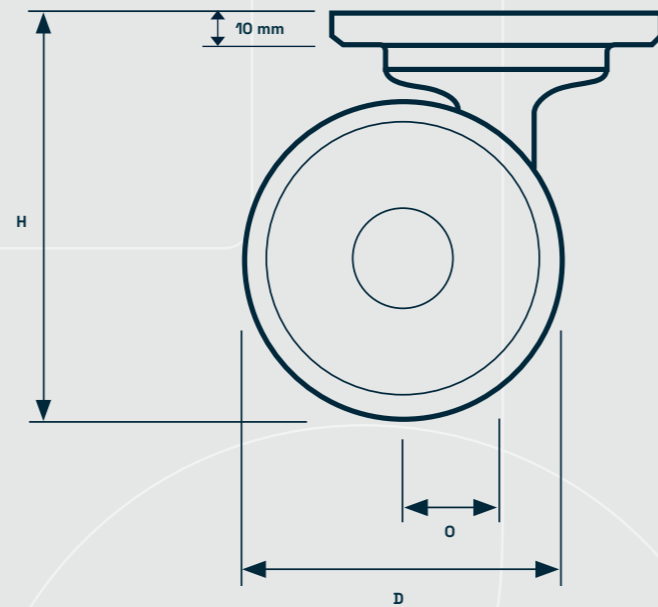
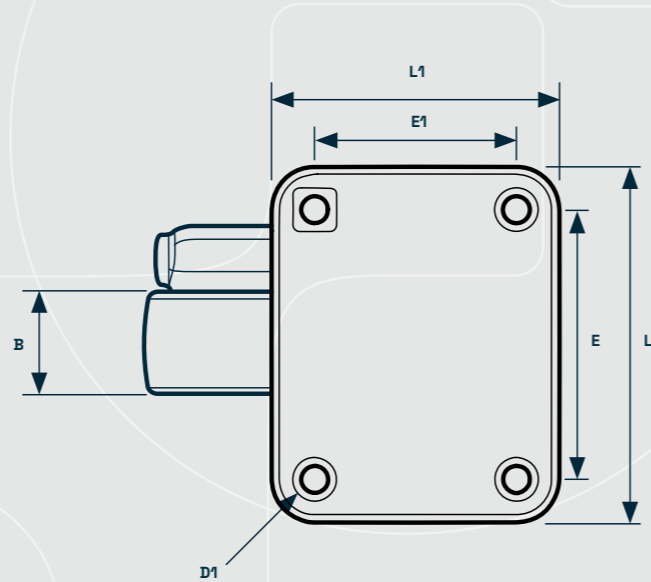
TYPE	LENGTH L [mm]	LENGTH L1 [mm]	HOLE POSITION E [mm]	HOLE POSITION E1 [mm]	HOLE DIAMETER D1 [mm]
100	105	85	80	60	8,5

# 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 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	8,5



# Declaration of conformity Hygienic castors

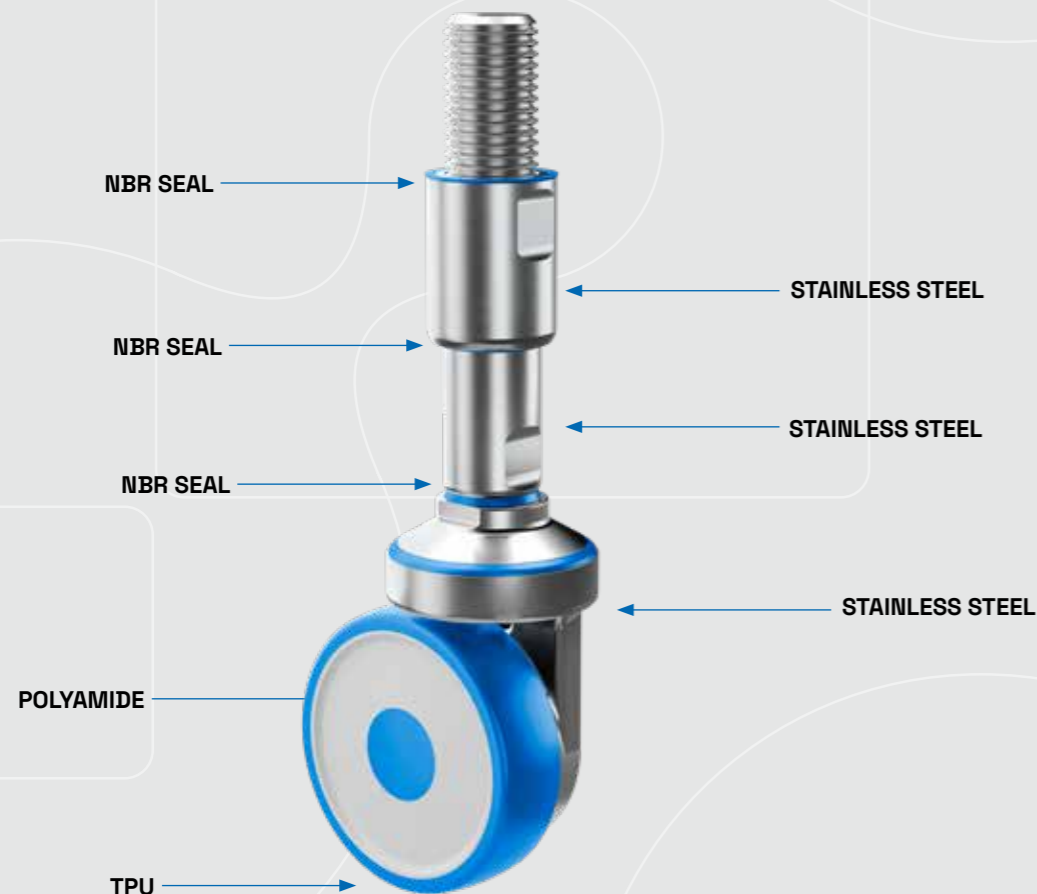


-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

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 Hygienic castors



## The declaration of materials concerns the following Applications

**Application:** **Steel spindle and sleeve**  
 Material type: 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:** **Castor Body:**  
 Material type steel parts: 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:** **Rolling wheel**  
 Wheel rim: PA, RAL 9010 (white)  
 Wheel thread: TPU, RAL 5010 (blue)  
 Compliance: Tested and verified according to EN 12527:1999  
 RoHS2: 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:** **Sealing ring between steel components for NGI's castors.**  
 Material type: NBR (NNF-75)  
 Color: Blue  
 Hardness: 72 ± 3 Shore A DIN 53 505  
 Range of temperature: 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.

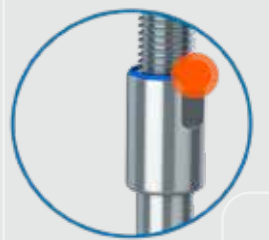
Conflict Materials: In accordance with US Law: "Dodd Frank Wall Street Reform & Consumer Protection Act", sec. 1502, of 21.07.2010.

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

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



# Certified hygienic nuts - NDXH



Certified hygienic



Minimized cleaning time



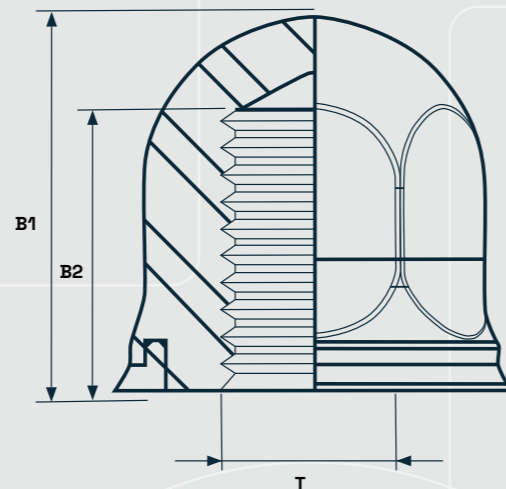
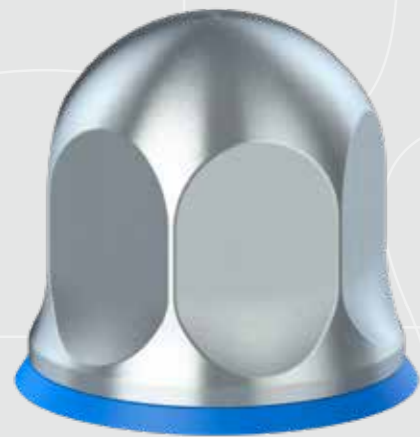
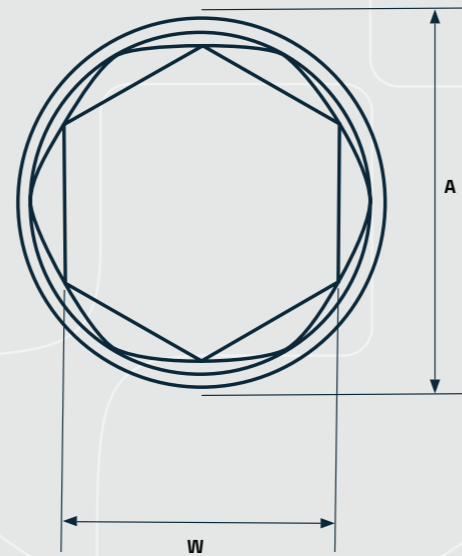
Minimized water usage

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  $\mu\text{m Ra}$ .

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  $\mu\text{m Ra}$
- Available in sizes M6-M24




# Certified hygienic nuts - NDXH



## CERTIFIED HYGIENIC NUTS



THREAD T	TIGHTENING TORQUE [Nm]	TOTAL HEIGHT B1 [mm]	THREAD LENGTH B2 [mm]	 W [mm]	OUTER DIAMETER A [mm]	ITEM CODE
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



Minimized cleaning time



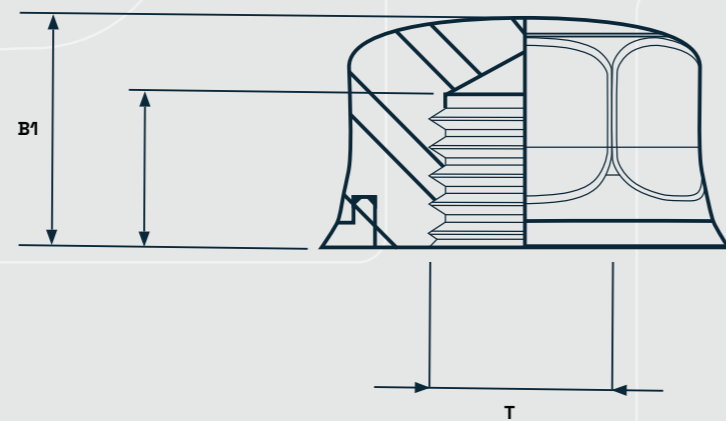
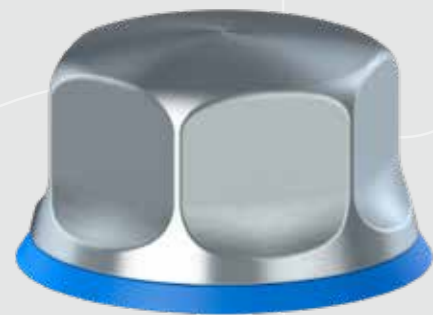
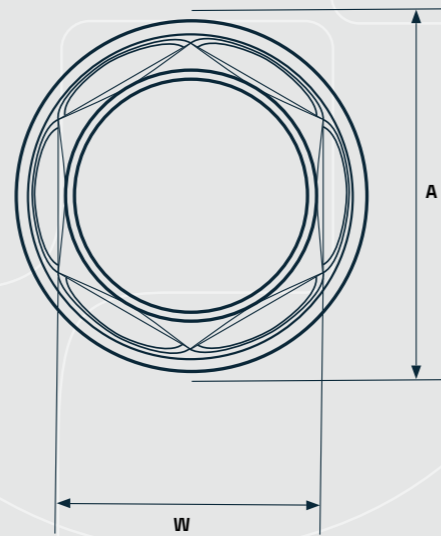
Minimized water usage

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 nuts - NLXH

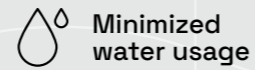
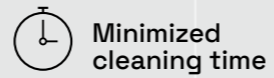


## CERTIFIED HYGIENIC NUTS



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

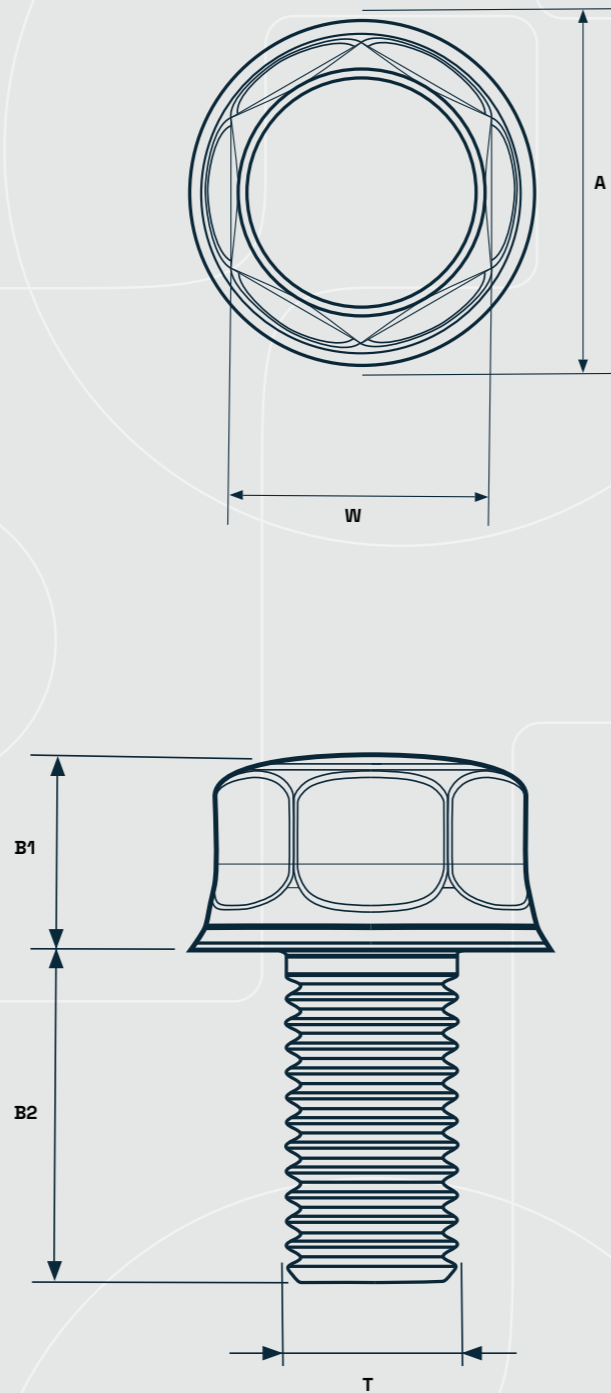
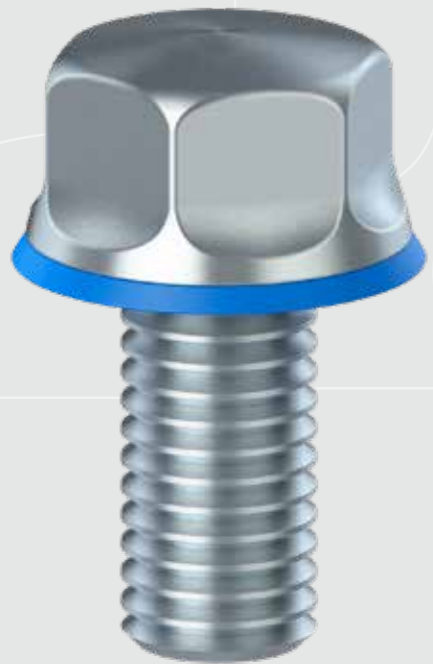
# Certified hygienic bolts - BXH



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.

# Static

# Electricity



## Castors and static electricity

We provide the optimal solution for your application

### How does static electricity appear?

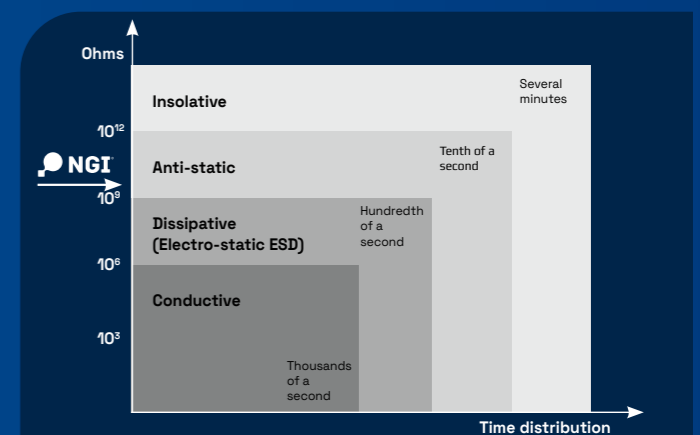
Static electricity is created by parts moving, sliding and rotating typically from motors, belts, stirring guides sliding against belts, sprockets and rollers.

### Which actions can prevent the problem?

The choice of materials and design is crucial to how big a problem static electricity is on a machine or equipment.

NGI has therefore developed a solution for those of our customers who want to use our hygienic castor but also need to discharge electricity through the body and down in the floor. The hygienic castors from NGI is in the range - anti-static.

If you are interested in learning more or testing the castor in your production, please order a sample of our series of anti-static castors in our sales department.



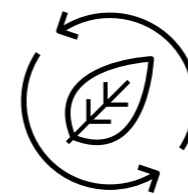
Materials for protection and prevention of Electro Static Discharge (ESD) can be categorized into three distinct groups, separated by their ranges of conductivity to electrical charges.

- 1. Anti-static**  
Standards: DIN EN 12527  
Requirements: Resistivity generally between  $10^9$  and  $10^{12}$  ohms per square. Initial electrostatic charges are suppressed.
- 2. Electro-static discharge - (ESD) dissipative**  
Standards: DIN EN 61340-2-3 and DIN EN 61340-5-1  
Requirements:  $<1 \times 10^9$  ohms measured with 10V DC or 100V DC. Resistivity generally between  $10^6$  and  $10^{12}$  ohms per square. Low or no initial charges prevents discharge from human contact.
- 3. Conductive**  
Standards: DIN EN 12527  
Requirements: Resistivity generally between  $10^3$  and  $10^6$  ohms per square. No initial charges, provides path for charge to bleed off.

# Product Innovation

Innovating for tomorrow  
Investing in research & development

## NGI Innovation - the Sustainable Way



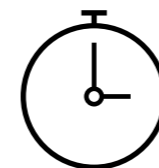
### Stainless steel - Recyclable materials

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



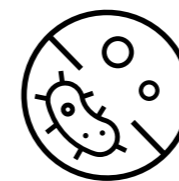
### Hygienic seals - Resource saving

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.