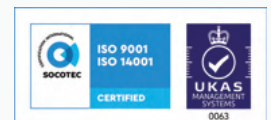




Special Purpose Machinery

Components for
purpose-built performance



The Engineering Partner Behind Special Purpose Machinery

For over 75 years, the Wixroyd Group has been a trusted partner to machine builders, OEMs and industrial manufacturers. Through our specialist brands, Wixroyd, Automation Components and Teknipart, we provide the components, technical expertise and engineering support needed to bring innovative machinery to life.

Our combined portfolio spans machine elements, linear motion, access hardware, machine safety, workholding and application-specific solutions used throughout manufacturing and automation. Alongside extensive standard product ranges, we offer product modification, bespoke design support and in-house manufacturing capabilities to meet unique customer requirements.

The following pages explore a selection of machine functions, industries and applications commonly served by The Wixroyd Group. The products featured represent just a snapshot of our offering, illustrating how our solutions can be applied across special purpose machinery.

Thousands of additional products, technical resources and CAD models are available through our websites, supported by our experienced technical team ready to help with both standard and bespoke requirements.

Engineering Solutions For Every Machine Function

Positioning & Guiding

Precision linear movement, guidance systems and accurate positioning

Drive & Index

Rotary and linear drive components for controlled motion and repeatable positioning

Supporting Machine Builders Across Industry

Industry	Key Requirements
Automated Assembly	Precision positioning, indexing, transfer and tooling adjustment
Injection Moulding	Clamping, guarding, access and maintenance solutions
CNC Machines	Machine safety, positioning accuracy and robust mechanical components
Food Packaging	Hygienic design, conveyance and fast machine changeovers
Bottle & Can Filling	High-speed transfer, positioning and reliable operation
Medical & Scientific	Precision movement, repeatability, and clean design requirements
Labelling Machines	Accurate indexing, positioning and product handling

While each industry presents its own challenges, the core principles of positioning, movement, access, safety, adjustment and transfer remain common throughout modern machine design.

The following pages demonstrate how The Wixroyd Group solutions are applied across a range of machine types and sectors.

Clamping & Holding

Manual and automated clamping solutions for securing workpieces and tooling

Adjust & Set

Position adjustment, levelling and setup components for flexible machine design

Access & Protection

Machine safety, guarding, handles, hinges and enclosure components

Convey & Transfer

Components for moving products, assemblies and materials efficiently through production processes



From standard machine elements to bespoke engineered solutions, our products help designers build machinery that is **accurate, productive, safe and reliable**

TO FIND OUT
MORE, VISIT
wixroyd.com/spm



In this catalogue

Machine Functions

Positioning & Guiding	6-7
Drive & Index	8-9
Clamping & Holding	10-11
Access & Protection	12-13
Adjust & Set	14-15
Convey & Transfer	16-17
Machine Functions to Industry Applications	18-19

Applications & Industries

Automated Assembly Machines	20-33
Injection Moulding Machines	34-45
CNC Machines	46-63
Food Packaging Machinery	64-79
Bottle or Can Filling Machines	80-95
Medical & Scientific Equipment	96-117
Labelling Machines	118-129
Digital Catalogues	130



Discover more from our websites



TO FIND OUT MORE, VISIT
wixroyd.com/spm

Visit our website to discover more about our components designed for special purpose machinery. Here, you will be able to click through the different products we've identified for the different machine functions and industries.

We have a lot of resources available on the site that you can access easily, without needing to log in. **Technical datasheets, CAD models, catalogues, information sheets** are just a few.

You can also find our **Certificates and Accreditations**



DATASHEETS



CREDIT ACCOUNT



PRICE BULK DISCOUNT



CAD

The Wixroyd Group Accreditations

Our accreditations reflect our commitment to quality, continuous improvement and responsible business practices.

From internationally recognised ISO certifications to industry-specific approval such as JOSCAR, these standards provide our customers with confidence in our products, processes and service.



wixroyd.com/accreditations





Positioning & Guiding

Accurate movement. Reliable positioning. Repeatable performance

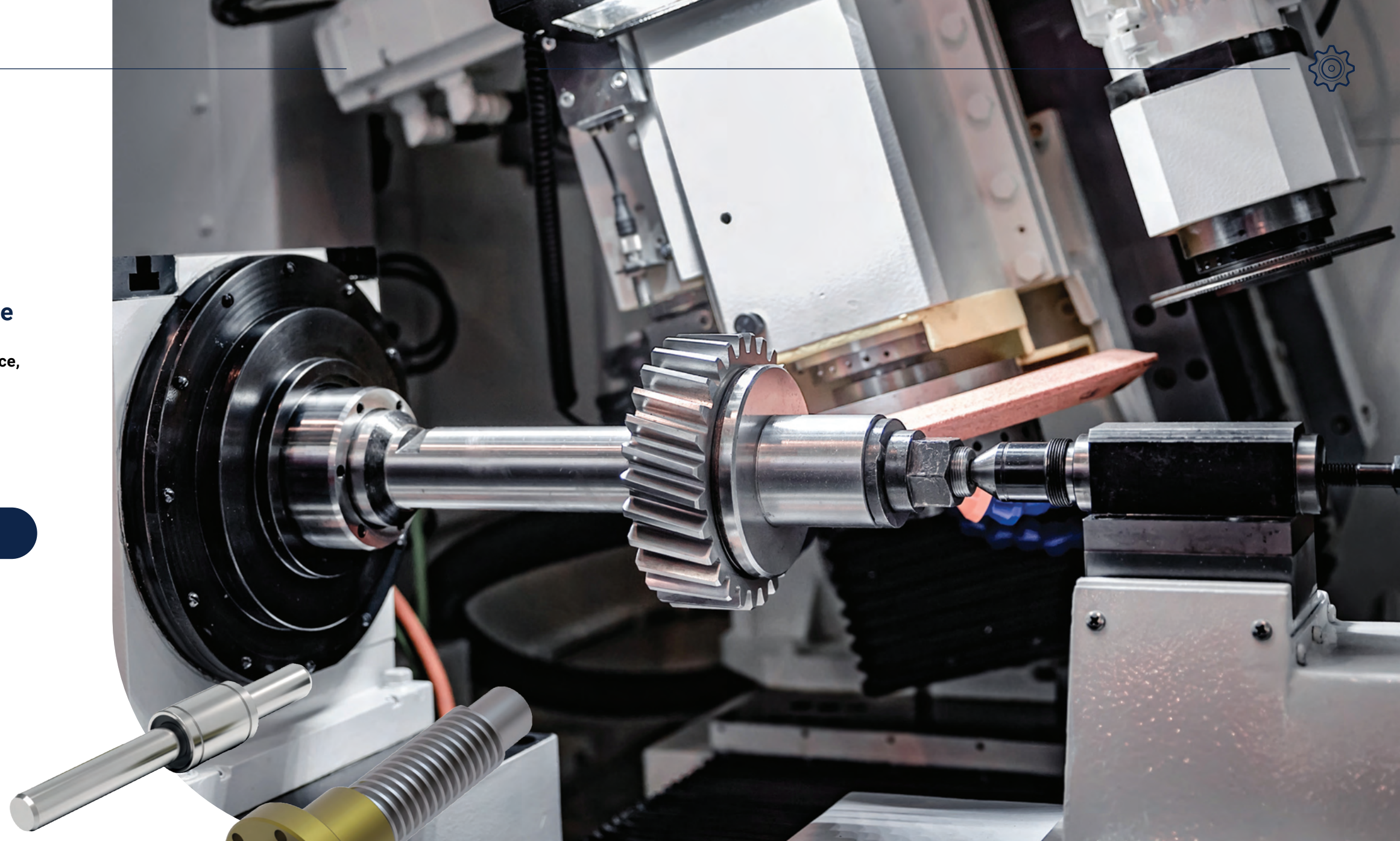
Whether moving a tooling head, positioning a workpiece, guiding a sensor or transferring a product through a machine, every special purpose machine relies on components that deliver smooth, accurate and repeatable linear motion.

Typical Applications

- Assembly and production machinery
- Packaging and cartoning equipment
- Pick-and-place automation
- Test and inspection systems
- Welding and fixture stations
- Pharmaceutical and laboratory machinery
- Food processing equipment
- Electronics and semiconductor machinery
- Robotics and automated handling systems

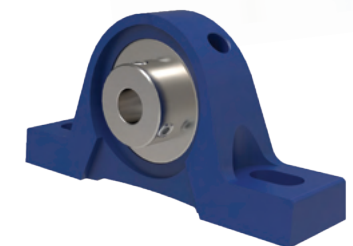
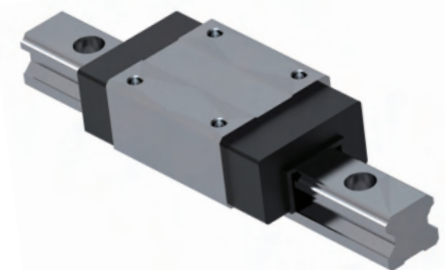
Functions of Key Components

- Guiding tooling into position
- Moving inspection cameras and sensors
- Positioning workpieces during assembly
- Supporting pick-and-place mechanisms
- Adjusting machine set-up and changeover
- Providing accurate movement for automated processes



Featured Product Families

- Linear Guideways
- Linear Rails & Carriages
- Supported Linear Shafts
- Linear Bearings
- Precision Slides
- Positioning Stages
- Cross Roller Stages
- Lead Screw Assemblies
- Shaft Supports





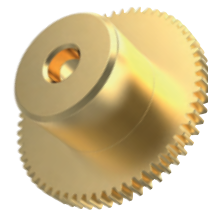
Drive & Index

Precision drive systems. Accurate indexing. Proven reliability

Drive & Index components **convert power into controlled, repeatable movement** throughout special purpose machinery. From **transmitting torque and driving linear motion to synchronising assemblies and accurately indexing components**, they improve **positioning accuracy, maximise efficiency, minimise backlash and deliver reliable performance** in demanding, high-cycle manufacturing environments.

Typical Applications

- Automated assembly machinery
- Packaging and labelling equipment
- Conveyor and transfer systems
- Robotics and pick-and-place machines
- Inspection and test equipment
- Printing and converting machinery
- Pharmaceutical automation
- Food processing machinery



Functions of Key Components

- Drive moving assemblies
- Synchronise machine operations
- Rotate tooling fixtures
- Position actuators
- Control indexing movements
- Deliver smooth, repeatable mechanical motion



Featured Product Ranges

- Lead Screws & Nuts
- Long Travel Stages
- Flexible Couplings
- Gearboxes
- Indexing Units
- Shaft Couplings
- Rotary Drive Components





Clamping & Holding

**Secure location. Repeatable accuracy.
Faster production**

Workholding components **securely position parts throughout the manufacturing process**. From **machining and welding to inspection and assembly**, reliable clamping solutions improve **quality, reduce cycle times and deliver the stability, safety and repeatability** needed for efficient production.

Typical Applications

- Welding fixtures
- Assembly stations
- Machining centres
- Test equipment
- Inspection fixtures
- Packaging machinery
- Robotics end-of-arm tooling
- Manufacturing jigs



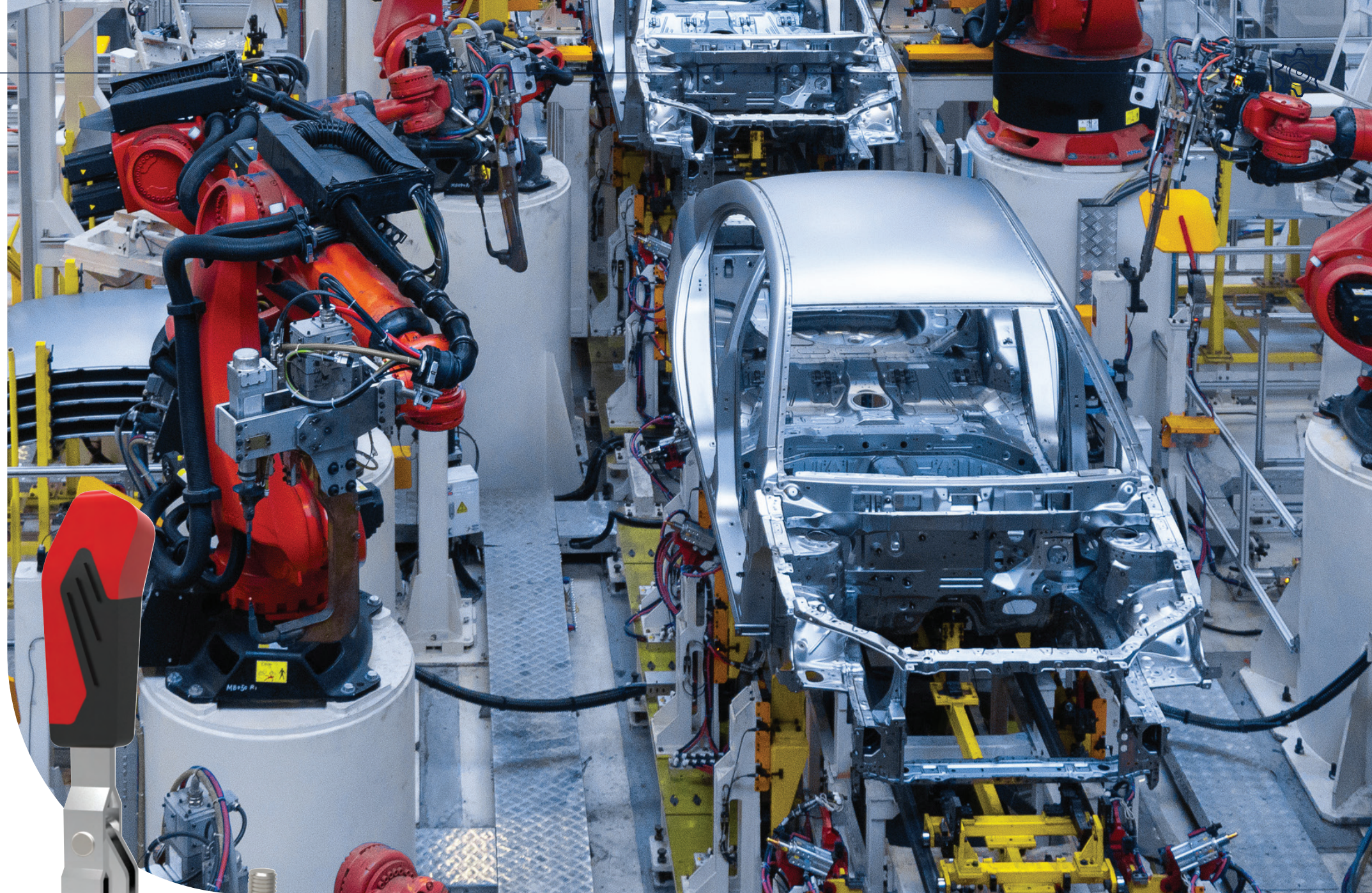
Functions of Key Components

- Holding components during assembly
- Locating parts for machining
- Securing welding fixtures
- Positioning tooling
- Indexing machine components
- Supporting rapid changeovers



Featured Product Ranges

- Toggle Clamps
- Cam Clamps
- Spring Plungers
- Fixture Elements
- Workholding Accessories
- Adjustable Clamping Components





Access & Protection

**Safe access. Secure operation.
Reliable machine protection**

Access and Safety components provide **secure, convenient entry for operation, maintenance and servicing**. From access doors to complete guarding systems, they **help protect operators, reduce downtime and improve machine durability, usability and compliance**.

Typical Applications

- Machine guarding
- Inspection doors
- Service panels
- Electrical enclosures
- Conveyor guarding
- Automation cells
- Control cabinets
- Process equipment

Functions of Key Components

- Machine doors
- Safety guarding
- Inspection covers
- Electrical enclosures
- Maintenance access panels
- Operator interfaces



Featured Product Ranges

- Hinges
- Industrial Handles
- Compression Latches
- Quarter Turn Locks
- Gas Struts
- Access Components





Adjust & Set

Accurate adjustment. Simple setup. Repeatable results

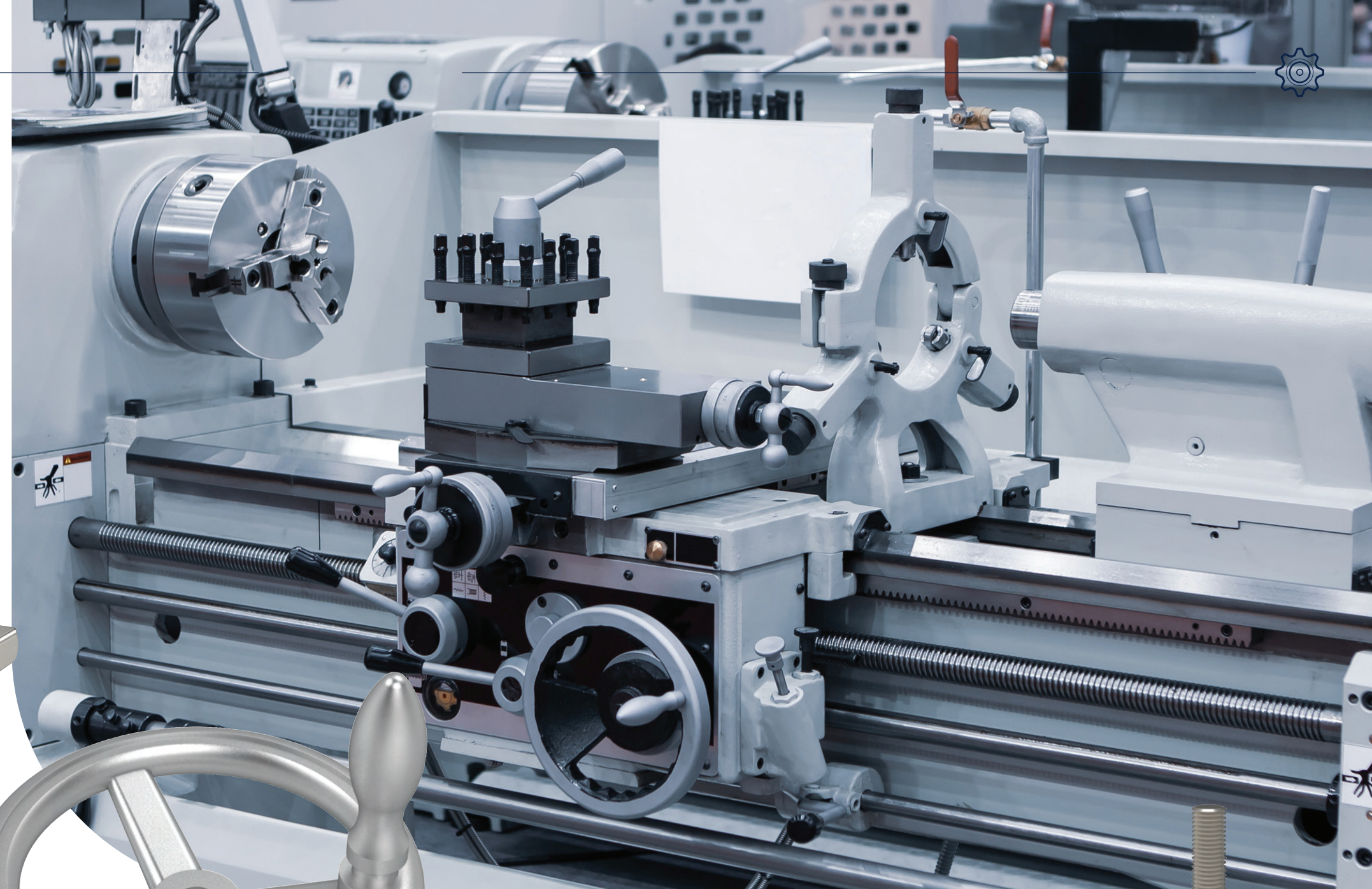
Adjustment components enable **fast, accurate machine setup and fine-tuning**. Whether levelling equipment, positioning tooling or calibrating processes, they **help maintain consistent settings, improve productivity and support repeatable manufacturing performance**.

Typical Applications

- Machine installation
- Tooling adjustment
- Changeover systems
- Conveyor alignment
- Packaging equipment
- Assembly machinery
- Inspection stations
- Production line calibration

Functions of Key Components

- Machine levelling
- Tooling adjustment
- Conveyor alignment
- Product changeovers
- Precision calibration
- Repeatable machine setup



Featured Product Families

- Levelling Feet
- Handwheels
- Adjustable Handles
- Position Counters
- Precision Adjustment Components





Convey & Transfer

Efficient movement. Smooth handling. Continuous production

Conveying & Handling components provide **reliable product movement throughout the manufacturing process**. From transferring parts between operations to supporting conveyors and automated systems, they **help maximise throughput, reduce downtime and ensure smooth, controlled handling**.

Typical Applications

- Conveyor systems
- Packaging machinery
- Assembly lines
- Warehouse automation
- Material handling equipment
- Logistics systems
- Food processing lines
- Product transfer stations



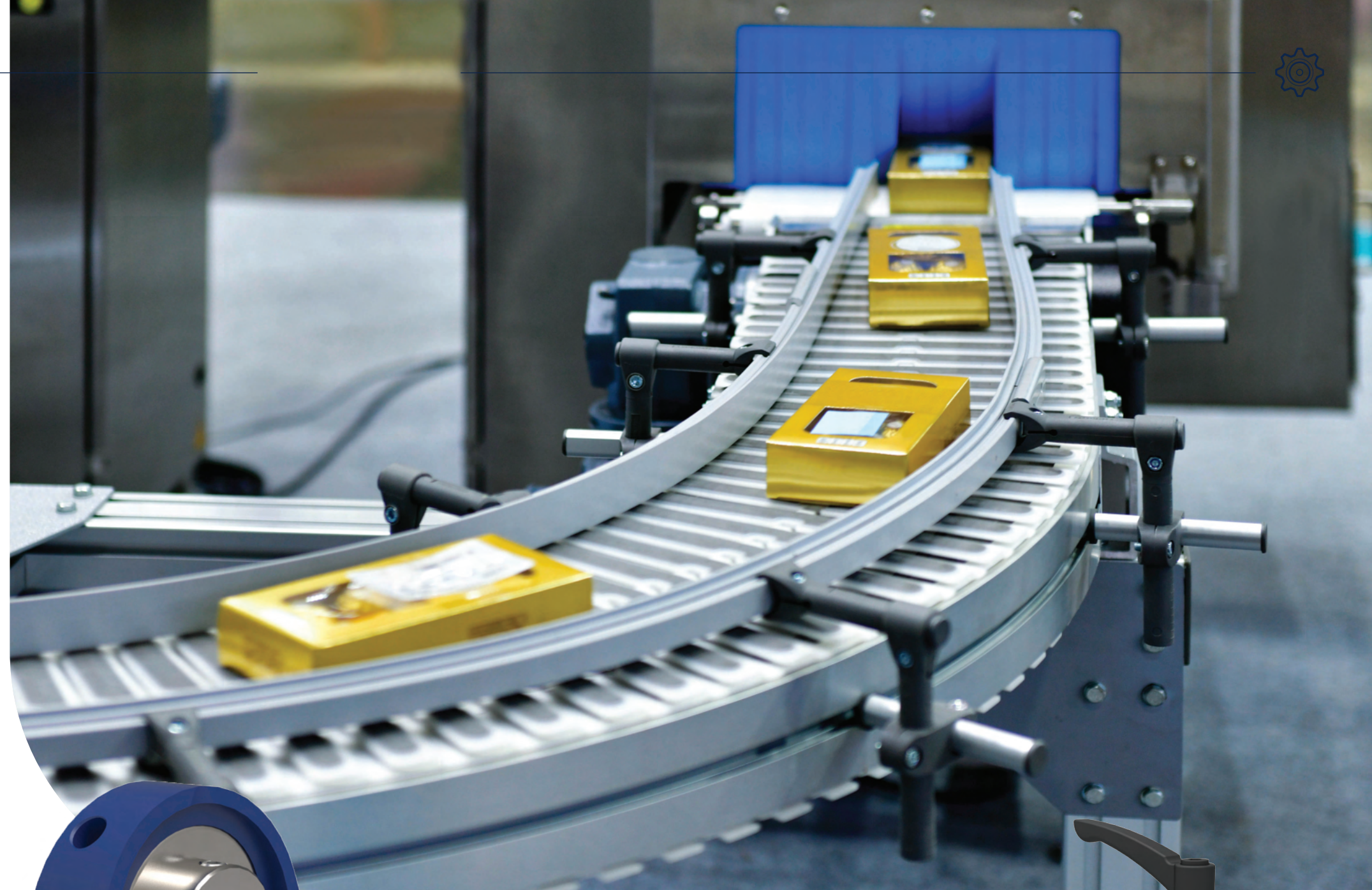
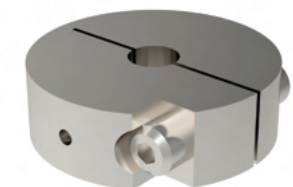
Functions of Key Components

- Product conveyors
- Transfer stations
- Assembly lines
- Packaging systems
- Warehouse automation
- Material handling equipment



Featured Product Families

- Rollers and Bumpers
- Conveyor Components
- Ball Transfer Units
- Linear Guide Rails
- Conveyor Supports
- Material Handling Accessories





From Machine Functions to Industry Applications

Every machine is designed to perform a specific task, but the engineering principles behind it remain consistent. Whether assembling components, moulding plastics, filling containers or packaging products, special purpose machinery relies on the effective combination of positioning, movement, clamping, adjustment, transfer and protection solutions.

In the previous section, we explored these core machine functions. The pages that follow show how they come together within a range of **industry-specific applications, highlighting example products commonly used by machine builders and OEMs.**



Engineering Solutions Across Industry

- **Automated Assembly**
High-speed positioning, indexing, workholding and transfer solutions.
- **Injection Moulding**
Machine access, safety, clamping and maintenance components.
- **CNC Machines**
Precision positioning, guarding and operator interface components.
- **Food Packaging**
Hygienic machine elements and efficient product handling systems.
- **Bottle & Can Filling**
High-throughput transfer and positioning solutions.
- **Medical & Scientific Equipment**
Precise, repeatable movement and compact machine design.
- **Labelling Machines**
Accurate indexing and product handling in demanding production environments.

Featured Products in Context

The products featured within each industry section have been selected to demonstrate how the **The Wixroyd Group solutions are applied in real-world machinery.**

While not exhaustive, they represent some of the most **commonly specified products across these applications.**

Engineering Solutions Wherever Machines Are Built

The following pages explore a selection of industries served by the Wixroyd Group, combining application insights with technical product information to help you identify solutions for your next machine design, upgrade or maintenance project.

The products shown represent only a small sample of our full portfolio. Visit our websites to explore thousands more products, CAD models and technical resources.

Want to know more? Visit our website





Automated Assembly Machines

Automated assembly machines combine multiple processes into a single, highly efficient production system, where every movement must be accurate, repeatable and synchronised. Whether assembling automotive components, electronic devices or consumer products, precision engineering is essential to maximise throughput, maintain product quality and minimise downtime.

The Wixroyd Group offers a comprehensive range of engineering components to support every stage of special purpose machine design.

Position & Guide

Precise positioning is fundamental to repeatable assembly operations. Linear guides, shafts, bearings, slides and positioning tables provide smooth, accurate movement for tooling, fixtures and workpieces, ensuring consistent alignment throughout the production cycle.

Drive & Index

Reliable drive systems synchronise machine movements and accurately position components between operations. Lead screws, timing pulleys, couplings, gearboxes and indexing units deliver efficient power transmission and repeatable machine performance.

Clamp & Hold

Secure workholding is essential for accurate assembly. Toggle clamps, cam clamps, spring plungers and fixture elements locate and hold components firmly in place, improving repeatability while reducing setup and cycle times.

Access & Protection

Machine guards must provide operator safety while allowing easy maintenance access. Hinges, handles, latches, locks and gas struts create robust, user-friendly access solutions for doors, covers and protective enclosures.

Adjust & Set

Fast, repeatable adjustment reduces downtime during installation and product changeovers. Levelling feet, handwheels, adjustable handles, position indicators and fine adjustment mechanisms simplify setup and improve process consistency.

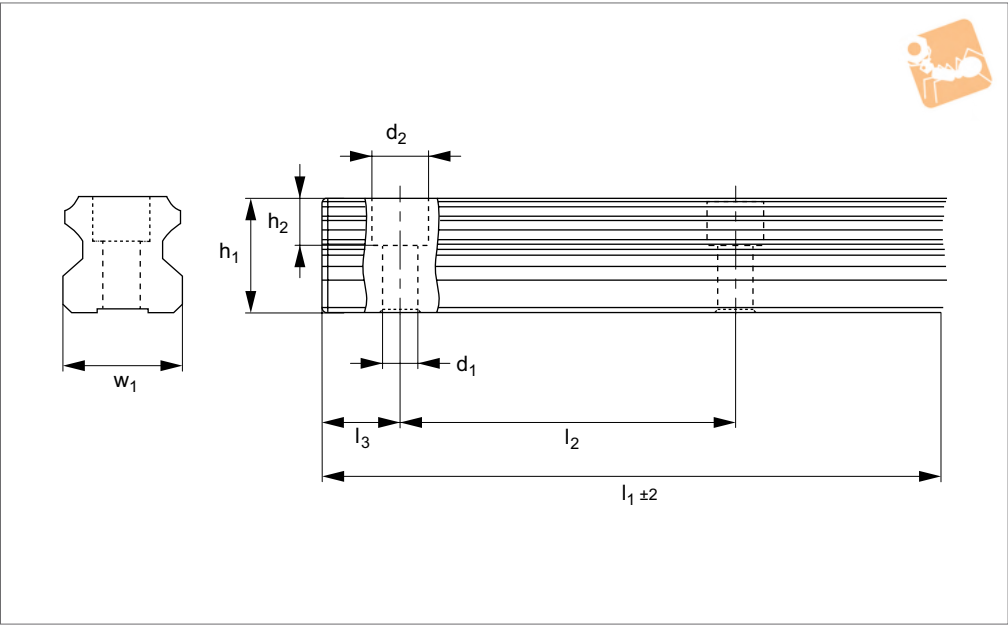
Convey & Transfer

Efficient product transfer keeps production flowing between assembly stations. Conveyor components, rollers, transfer balls, guide rails and support brackets ensure smooth handling, accurate alignment and reliable movement throughout the manufacturing process.

► For technical product information **turn the page**



L1018



Material
Aluminium profile (AlMgSi0.5, anodised 12-15µ). Raceway stainless steel (X46Cr13), hardened to 58-62HRC.

Technical Notes
Compact, light-weight design. 60% saving

versus steel versions. The aluminium rails are made of high quality aluminium alloy with hardened stainless steel raceway. **Replace xxxx with desired rail length eg. L1018.15-1000 is 1000mm long.**

Tips
These are very lightweight aluminium rails and can only be used with our lightweight aluminium carriages. For standard steel linear guideways and carriages see part no. L1016.

Order No.	l_1 max.	w_1	h_1	h_2	d_1	d_2	l_2	l_3	Weight kg
L1018.15-xxxx	4000	15	14.3	6.2	4.4	7.4	60	30	10.3
L1018.20-xxxx	4000	20	19.3	7.7	6.0	9.4	60	30	0.1
L1018.25-xxxx	4000	25	21.8	8.9	7.0	11.0	60	30	0.2

Ordering Example

L1018

•

R20

-

0940

-

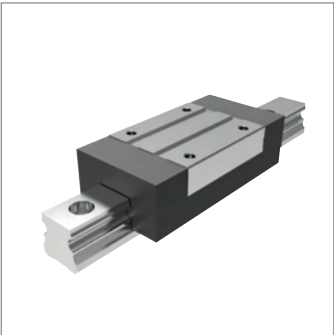
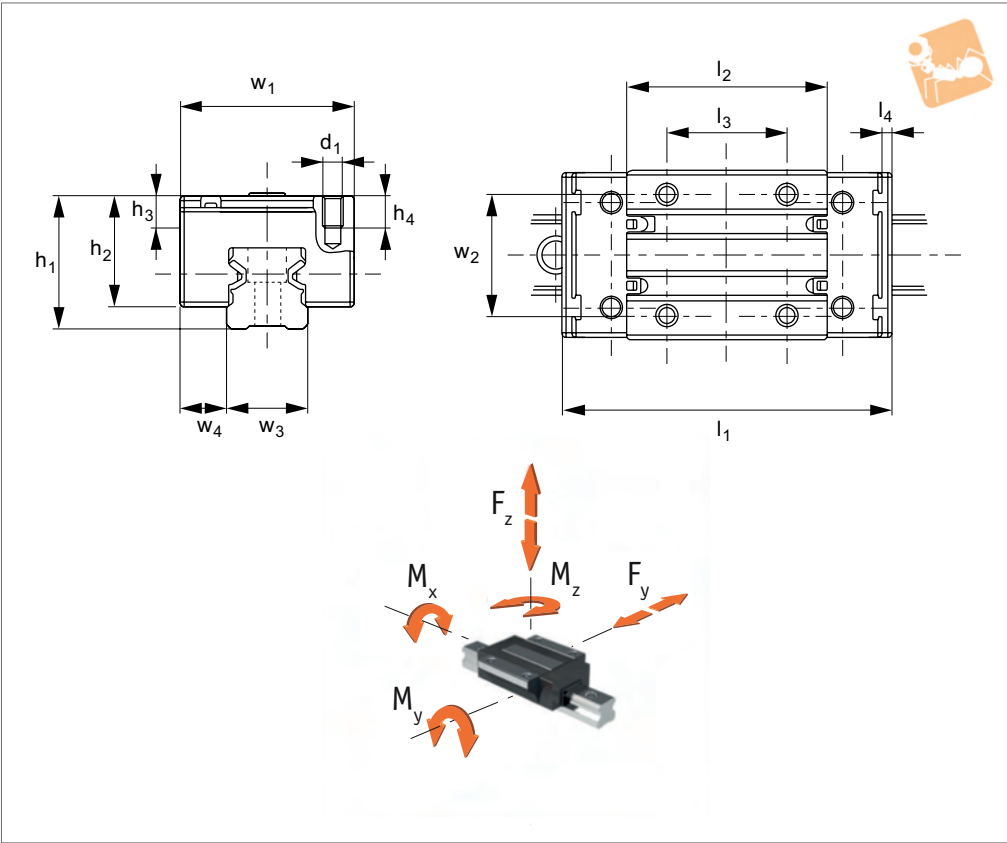
20

product number

rail size

overall length (mm)
(max. length 4000)
(l_1)

distance to
first hole
(l_3)



L1018.U

Material
Aluminium block (X46Cr13 hardened to F35), tensile strength 350N/mm². Stainless steel inserts hardened, and stainless ball bearings (DIN 1.4034).

Technical Notes
Compact, light-weight design. 60% saving versus steel versions. Select the size and number of carriages to suit the required load then select the

required rail length, (see rail part nos. L1018). Standard carriages are not preloaded. Mounting dimensions are identical to those of most steel linear guide rails, making them interchangeable.

Tips
These are aluminium rail carriages and can only be used with corresponding aluminium linear rails L1018.

For standard steel linear guideways and carriages see part no. L1016.

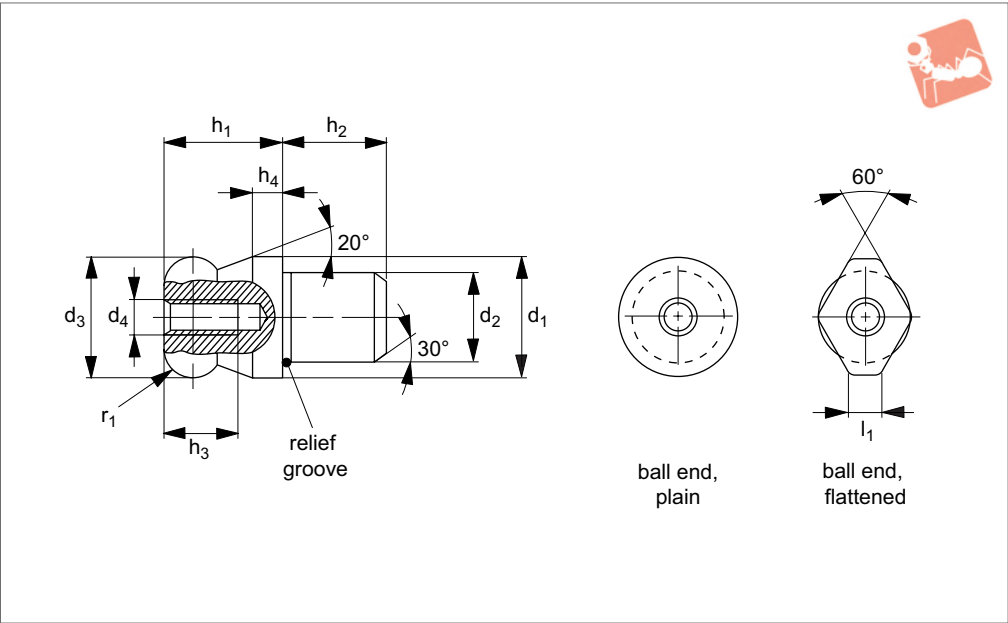
Important Notes
Static loads ratings are difficult to calculate clearly due to the combination of materials. Do not exceed F_{max} or maximum static moment load rating. See load calculations on technical pages.

Order No.	Rail size	l_1	w_1	h_1 ±0.03	d_1	h_2	h_3	h_4	l_2	l_3	l_4	w_2	Weight kg
L1018.U15	15	64.0	34	24	M 4	19.8	4.1	6.0	37.8	26	2.5	26	0.07
L1018.U20	20	85.9	44	30	M 5	24.7	5.5	7.5	51.5	36	2.8	32	0.15
L1018.U25	25	96.0	48	36	M 6	29.9	6.4	9.0	58.0	35	3.0	35	0.22

Order No.	w_3	w_4 ±0.05	F_N max.	Dyn. load $C_{rad \& ax}$ N	M_x dyn. Nm	M_x static Nm max.	$M_y + M_z$ dyn. Nm	$M_y + M_z$ static Nm max.
L1018.U15	15	9.5	2.000	5.000	36	14	29	12
L1018.U20	20	12.0	4.400	11.000	101	40	89	35
L1018.U25	23	12.5	6.400	16.000	165	66	147	59



36340



Material

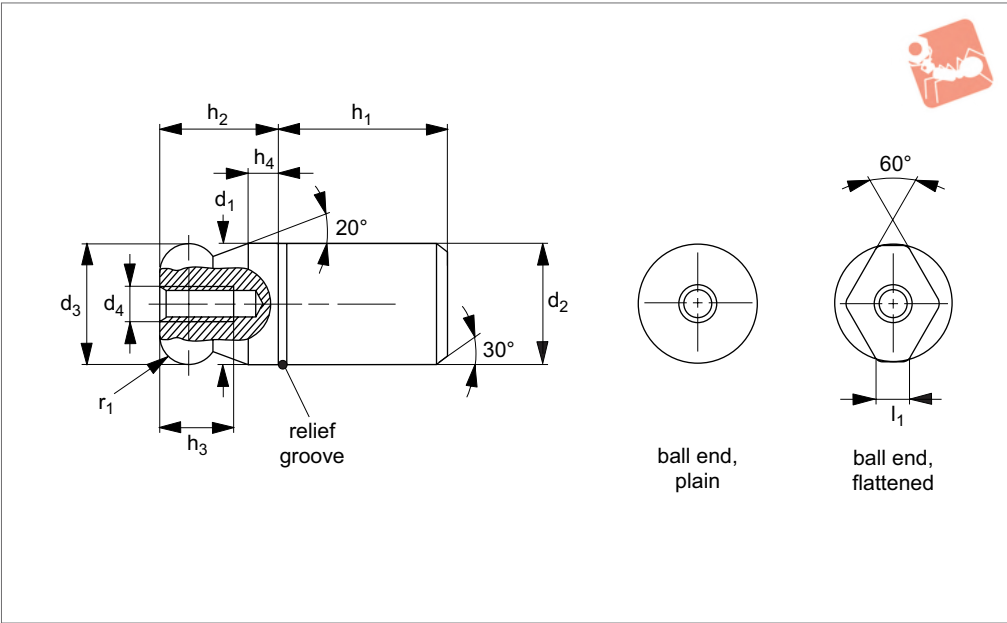
Steel type:
Tool steel, hardened, blackened and ground.

Stainless steel type:
Stainless steel (AISI 303, 1.4305), ground, surface heat-treated.

Technical Notes

Ball ended straight pins facilitate inserting workpieces and avoid clamping inclination. Suggested installation is a hole = d_2 H7 tolerance.

Order No.	Type	Material	d ₁ tol. g6	l ₁	d ₂ tol. n6	d ₃ -0.01 -0.05	d ₄	h ₁	h ₂	h ₃	h ₄	r ₁	Weight g
36340.W0310	Plain	Steel	10	-	7	10	M 3	10	7	6	2.5	2.5	7
36340.W0312	Plain	Steel	12	-	8	12	M 4	12	8	8	3.0	3.0	11
36340.W0316	Plain	Steel	16	-	12	16	M 5	16	12	10	4.0	4.0	30
36340.W0320	Plain	Steel	20	-	14	20	M 5	20	14	10	5.0	5.0	57
36340.W0322	Plain	Steel	22	-	16	22	M 5	22	16	10	5.5	5.5	79
36340.W0325	Plain	Steel	25	-	18	25	M 5	25	18	10	6.0	6.0	116
36340.W0410	Flattened	Steel	10	2.5	7	10	M 3	10	7	6	2.5	2.5	5
36340.W0412	Flattened	Steel	12	2.5	8	12	M 4	12	8	8	3.0	3.0	8
36340.W0416	Flattened	Steel	16	4.3	12	16	M 5	16	12	10	4.0	4.0	23
36340.W0420	Flattened	Steel	20	5.0	14	20	M 5	20	14	10	5.0	5.0	45
36340.W0422	Flattened	Steel	22	5.0	16	22	M 5	22	16	10	5.5	5.5	62
36340.W0425	Flattened	Steel	25	5.6	18	25	M 5	25	18	10	6.0	6.0	91
36340.W0350	Plain	Stainless	10	-	7	10	M 3	10	7	6	2.5	2.5	7
36340.W0352	Plain	Stainless	12	-	8	12	M 4	12	8	8	3.0	3.0	11
36340.W0356	Plain	Stainless	16	-	12	16	M 5	16	12	10	4.0	4.0	30
36340.W0360	Plain	Stainless	20	-	14	20	M 5	20	14	10	5.0	5.0	57
36340.W0450	Flattened	Stainless	10	2.5	7	10	M 3	10	7	6	2.5	2.5	5
36340.W0452	Flattened	Stainless	12	2.5	8	12	M 4	12	8	8	3.0	3.0	8
36340.W0456	Flattened	Stainless	16	4.3	12	16	M 5	16	12	10	4.0	4.0	23
36340.W0460	Flattened	Stainless	20	5.0	14	20	M 5	20	14	10	5.0	5.0	45



36341

Material

Steel type:
Tool steel, hardened, ground, blackened.

Stainless steel type:
Stainless steel 1.4305 (AISI 303), ground, surface heat-treated.

Technical Notes

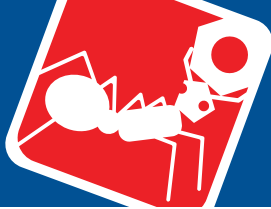
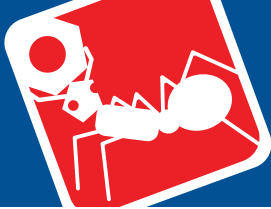
Ball ended straight pins facilitate inserting workpieces and avoid clamping inclination. Suggested installation is a hole = d_2 H7 tolerance.

Order No.	Type	Material	d ₁ tol. g6	l ₁	d ₂ tol. n6	d ₃ -0.01 -0.05	d ₄	h ₁	h ₂	h ₃	h ₄	r ₁	Weight g
36341.W0508	Plain	Steel	8	-	8	8	M 3	10	8	6	2.0	2.0	6
36341.W0510	Plain	Steel	10	-	10	10	M 3	13	10	6	2.5	2.5	12
36341.W0512	Plain	Steel	12	-	12	12	M 4	15	12	8	3.0	3.0	21
36341.W0516	Plain	Steel	16	-	16	16	M 5	20	16	10	4.0	4.0	51
36341.W0520	Plain	Steel	20	-	20	20	M 5	25	20	10	5.0	5.0	101
36341.W0525	Plain	Steel	25	-	25	25	M 5	25	25	10	6.0	6.0	176
36341.W0530	Plain	Steel	30	-	30	30	M 6	30	30	12	8.0	8.0	307
36341.W0540	Plain	Steel	40	-	40	40	M 6	40	40	12	10.0	10.0	729
36341.W0550	Plain	Steel	50	-	50	50	M 6	50	50	12	12.0	12.0	1422
36341.W0608	Flattened	Steel	8	1.9	8	8	M 3	10	8	6	2.0	2.0	5
36341.W0610	Flattened	Steel	10	2.5	10	10	M 3	13	10	6	2.5	2.5	11
36341.W0612	Flattened	Steel	12	2.5	12	12	M 4	15	12	8	3.0	3.0	17
36341.W0616	Flattened	Steel	16	4.3	16	16	M 5	20	16	10	4.0	4.0	44
36341.W0620	Flattened	Steel	20	5.0	20	20	M 5	25	20	10	5.0	5.0	88
36341.W0625	Flattened	Steel	25	5.6	25	25	M 5	25	25	10	6.0	6.0	149
36341.W0630	Flattened	Steel	30	8.8	30	30	M 6	30	30	12	8.0	8.0	270
36341.W0640	Flattened	Steel	40	12.8	40	40	M 6	40	40	12	10.0	10.0	657
36341.W0650	Flattened	Steel	50	16.7	50	50	M 6	50	50	12	12.0	12.0	1243
36341.W0568	Plain	Stainless	8	-	8	8	M 3	10	8	6	2.0	2.0	6
36341.W0570	Plain	Stainless	10	-	10	10	M 3	13	10	6	2.5	2.5	12
36341.W0572	Plain	Stainless	12	-	12	12	M 4	15	12	8	3.0	3.0	21
36341.W0576	Plain	Stainless	16	-	16	16	M 5	20	16	10	4.0	4.0	51
36341.W0580	Plain	Stainless	20	-	20	20	M 5	25	20	10	5.0	5.0	101
36341.W0668	Flattened	Stainless	8	1.9	8	8	M 3	10	8	6	2.0	2.0	5
36341.W0670	Flattened	Stainless	10	2.5	10	10	M 3	13	10	6	2.5	2.5	11
36341.W0672	Flattened	Stainless	12	2.5	12	12	M 4	15	12	8	3.0	3.0	17
36341.W0676	Flattened	Stainless	16	4.3	16	16	M 5	20	16	10	4.0	4.0	44
36341.W0680	Flattened	Stainless	20	5.0	20	20	M 5	25	20	10	5.0	5.0	88

Toggle Clamps

Horizontal Acting Toggle Clamps

stainless steel - open arm - horizontal base

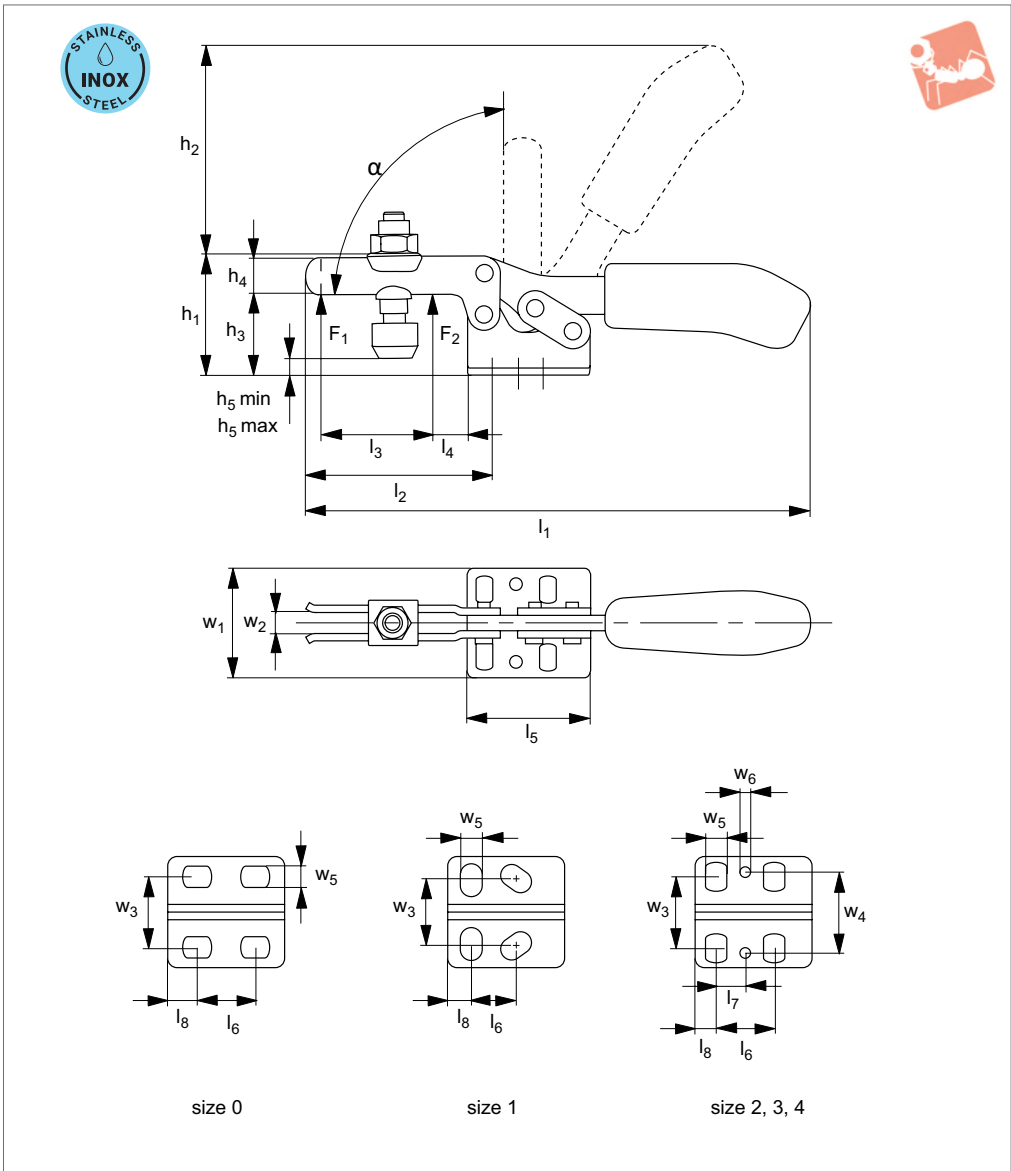


Vertical Acting Toggle Clamps

ESD - open arm - horizontal base



41000.4



Material

Body: stainless steel (AISI 304, 1.4301), polished.
Rivets: stainless steel running in hardened bushes (sizes 2-5). Pre-lubricated

bearings.

Ergonomic soft feel oil-resistant handle with large grip area.
Supplied complete with stainless clamping

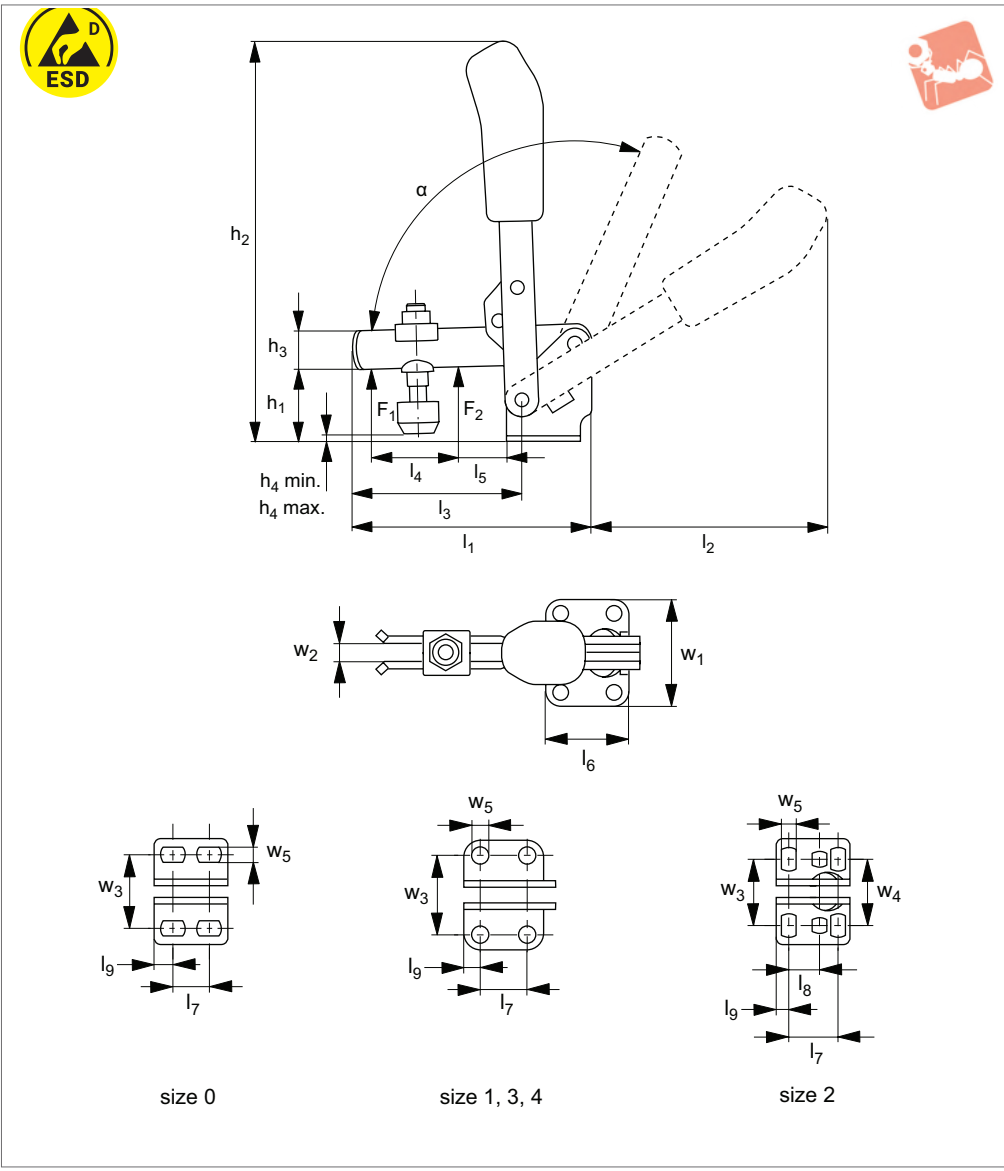
screw (with rubber pad).

Technical Notes

Suitable for the food industry.
Temperature range -10°C to +80°C.

Order No.	Size	F ₁ kN	F ₂ kN	Clamping screw	h ₁	h ₂	h ₃	h ₄	h ₅ min.	h ₅ max.	l ₁	l ₂	Weight g
41000.W0300	0	0.3	0.4	M 4x25	23.0	34	14.5	7.5	-5.0	0.6	79	28	35
41000.W0301	1	0.8	1.1	M 5x30	30.0	49	19.0	10.0	-4.0	2.0	120	42	105
41000.W0302	2	1.0	1.2	M 6x35	45.0	68	24.0	13.0	-1.6	5.0	162	64	185
41000.W0303	3	1.8	2.5	M 8x45	48.5	86	32.0	15.0	-2.0	9.0	206	73	320
41000.W0304	4	2.0	3.0	M 8x65	75.0	126	45.0	20.0	-4.0	24.0	287	113	700

Order No.	l ₃	l ₄	l ₅	l ₆	l ₇	l ₈	w ₁	w ₂	w ₃	w ₄	w ₅	w ₆	α
41000.W0300	9.0	5	25.5	11.5-15.5	-	6.3	25.0	4	16.0	-	4.6	-	90°
41000.W0301	18.6	8	34.0	13.3-14.7	-	5.5	34.0	5	18.0-21.5	-	5.2	-	90°
41000.W0302	32.0	16	38.0	26.0	12.7	6.0	42.0	6	19.5-29.5	28.5	5.6	5.6	90°
41000.W0303	36.0	14	50.0	25.7	13.0	7.0	44.5	8	22.0-31.8	31.6	6.5	5.1	90°
41000.W0304	63.0	27	57.0	41.0	20.5	8.0	58.0	10	29.0-43.0	43.0	8.5	8.5	90°



40000.3

Material

Body: steel, zinc plated.
Rivets: stainless steel running in hardened bushes (sizes 2-3). Bearing positions are greased.
With protective cap and handle made of electrostatic conductive (dissipative)

material.

The handle is ergonomic, soft feel, oil-resistant and with large grip area.
Safety clamping piece with finger protection, retainer for the clamping screw at the end of the clamping arm.
Complete with zinc plated and tempered

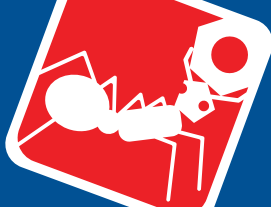
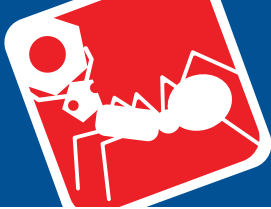
clamping screw no. 45060.W0300- .W0303.

Technical Notes

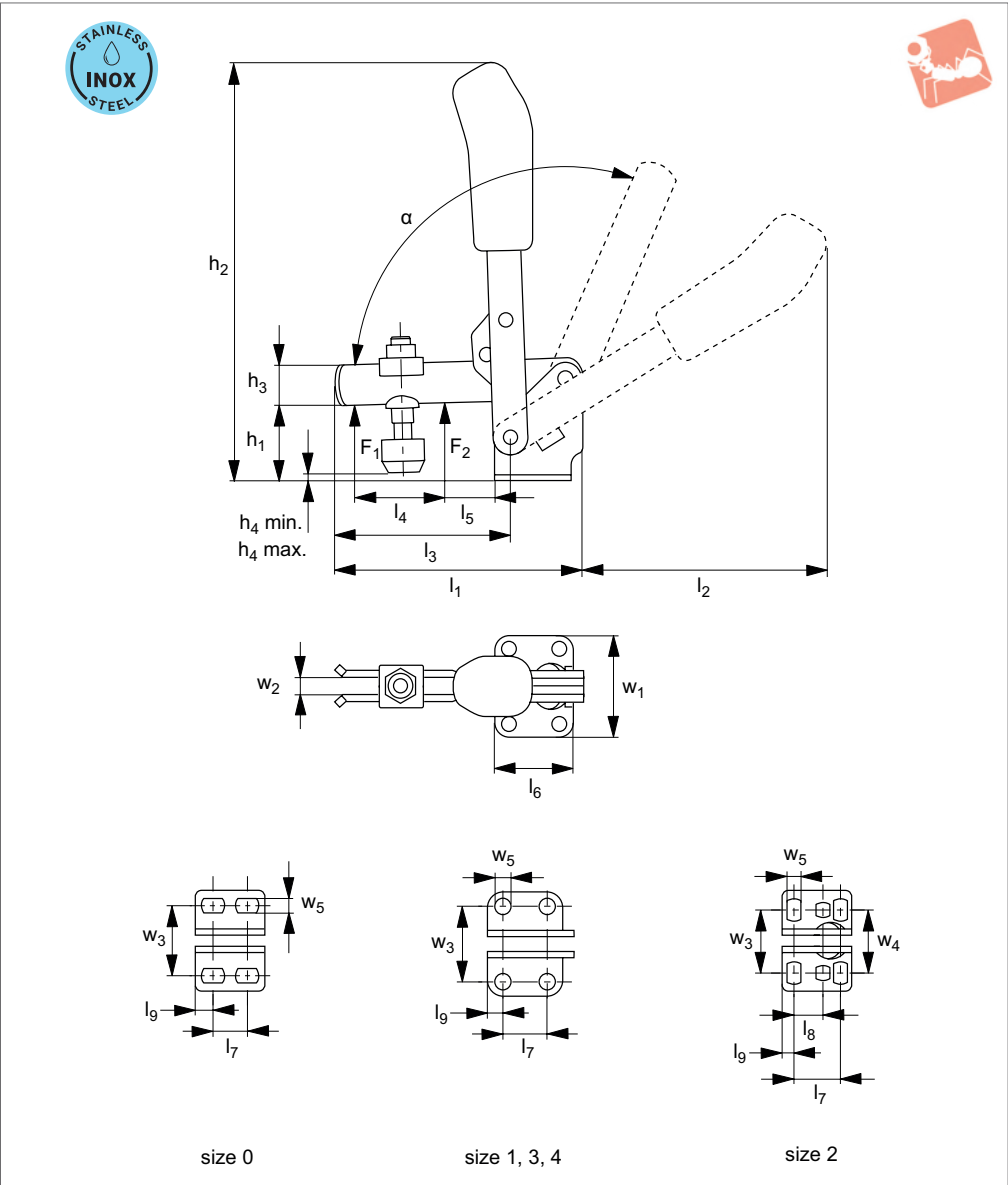
Temperature range -10°C to +80°C.
The ESD (electrostatically sensitive devices) vertical clamp is non-insulating. It must not be used in areas where open voltages are used.

Order No.	Size	F ₁ kN	F ₂ kN	Clamping screw	h ₁	h ₂	h ₃	h ₄ min.	h ₄ max.	l ₁	l ₂	l ₃	Weight g
40000.W0200	0	0.5	0.7	M 4x25	18	81	8	-1.5	3.5	49	50	31	60
40000.W0201	1	0.6	1.1	M 5x30	19	98	10	-4.0	2.0	61	58	39	105
40000.W0202	2	0.8	1.2	M 6x35	23	140	12	-3.0	4.5	78	89	52	175
40000.W0203	3	1.2	2.5	M 8x45	33	186	18	2.0	11.0	112	112	79	410

Order No.	l ₄	l ₅	l ₆	l ₇	l ₈	l ₉	w ₁	w ₂	w ₃	w ₄	w ₅	α	α*
40000.W0200	14	5	22	8.5-13.5	-	5.5	32	4	23.0	-	4.5	95°	-
40000.W0201	18	6	27	16.0	-	5.5	34	5	22.5-26.0	-	4.5	95°	-
40000.W0202	25	11	32	20.0	12.5	6.0	43	6	23.0-31.0	27	5.5	100°	60°
40000.W0203	37	19	35	20.0	-	7.5	46	8	32.5	-	7.5	100°	60°



40000.4

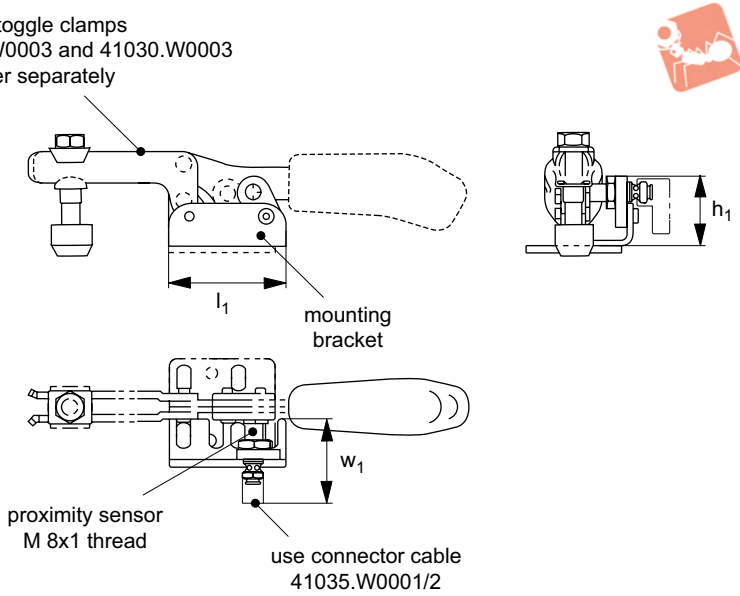


Material
Body: stainless steel (AISI 304, 1.4301).
Rivets: stainless steel running in hardened bushes (sizes 2-4). Pre-lubricated bearings. Ergonomic soft feel oil-resistant handle with large grip area. Supplied complete with stainless clamping screw (with rubber pad). stop pin on the clamp body. Temperature range -10°C to +80°C.

Technical Notes
Opening angle (symbola/symbol/symbola/symbol*) can be changed by pressing in a

Order No.	Size	F ₁ kN	F ₂ kN	Clamping screw	h ₁	h ₂	h ₃	h ₄ min.	h ₄ max.	l ₁	l ₂	l ₃	Weight g
40000.W0300	0	0.5	0.7	M 4x25	18.0	81	8	-1.5	3.5	49	50	31	60
40000.W0301	1	0.6	1.1	M 5x30	19.0	98	10	-4.0	2.0	61	58	39	105
40000.W0302	2	0.8	1.2	M 6x35	23.0	129	12	-3.3	4.5	78	80	52	175
40000.W0303	3	1.2	2.5	M 8x45	33.0	186	18	3.0	10.5	112	112	79	410
40000.W0304	4	1.7	3.0	M 8x65	42.5	221	20	-6.0	19.5	141	130	101	630
Order No.	l ₄	l ₅	l ₆	l ₇	l ₈	l ₉	w ₁	w ₂	w ₃	w ₄	w ₅	α	α*
40000.W0300	14	5.5	22	8.5-13.5	-	5.5	32	4	23	-	4.5	95°	-
40000.W0301	18	6.0	27	16.0	-	5.5	34	5	22-26	-	4.5	95°	-
40000.W0302	25	11.0	32	20.0	12.5	6.0	43	6	23-31	27	5.5	105°	60°
40000.W0303	37	19.0	35	20.0	-	7.5	46	8	32	-	7.5	105°	60°
40000.W0304	54	16.0	53	32.0	-	13.0	64	10	45	-	8.6	105°	60°

for use with toggle clamps
41000.W0003, 41030.W0003 and 41030.W0003
please order separately



41035.1

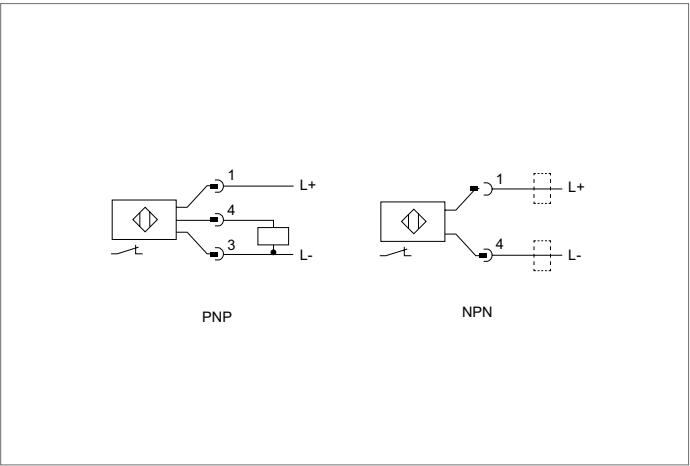
Material
Sensor and mounting bracket: steel, zinc plated complete with inductive sensor M 8x1.
Cable: angled connector with cable permanently injection moulded on. Silicone-free, halogen-free, gold plated contacts. IP68 rated in accordance to IEC529.

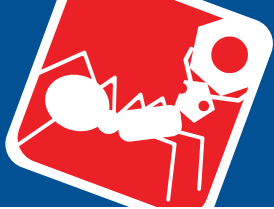
Technical Notes
Monitors the closed position of a toggle clamp and enables their integration into fixture/application monitoring systems. Sensor monitor can be used on both sides for horizontal toggle clamp nos. 41000.W0003, 41030.W0003 and 41000.W0103, and only on one side for horizontal toggle clamp with safety latch no. 41000.W0003.

Temperature range: 0°C to 60°C.
Sensing bracket 41035.W0103 can be integrated into your monitoring system using cables 41035.W0001 or W0002 and can be rewired either PNP or NPN (see circuit diagram below).

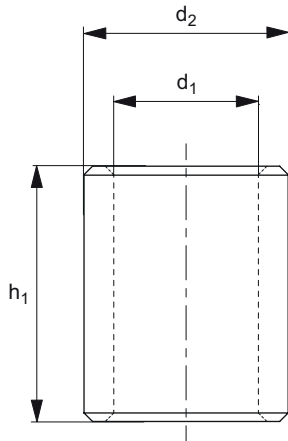
Tips
Order toggle clamp separately.

Order No.	Type	Cable length m	w ₁	h ₁	l ₁	Weight g
41035.W0001	Cable	2	-	-	-	75
41035.W0002	Cable	5	-	-	-	150
41035.W0103	Bracket	-	40	35	55	60





12048.1

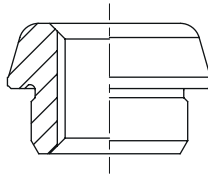


Material
Steel (SK95), tempered, black oxide finish, precision ground.

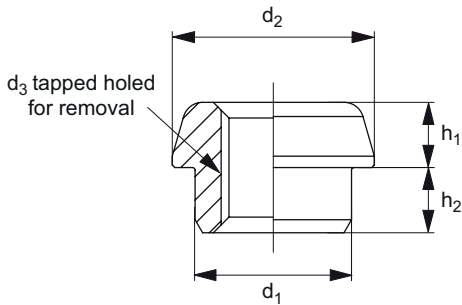
Technical Notes
Can be used to increase the accuracy of single clamping module (see part no. 12045) location on the fixture plate.

Can achieve clamping module locating repeatability of up to 0.04mm.

Order No.	h ₁	Suitable clamping module 12045	Size	d ₁	d ₂ tol. h6	Weight g
12048.W0008	11	8	8	6.0	8	2
12048.W0011	15	11	11	8.5	12	7
12048.W0016	22	16	16	12.5	18	22
12048.W0021	28	21	21	16.5	22	35



precision



standard

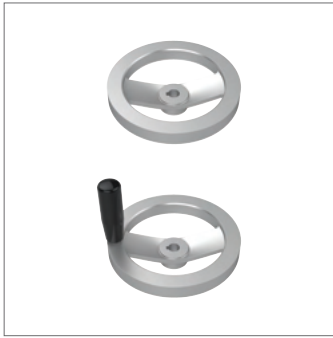


12048.2

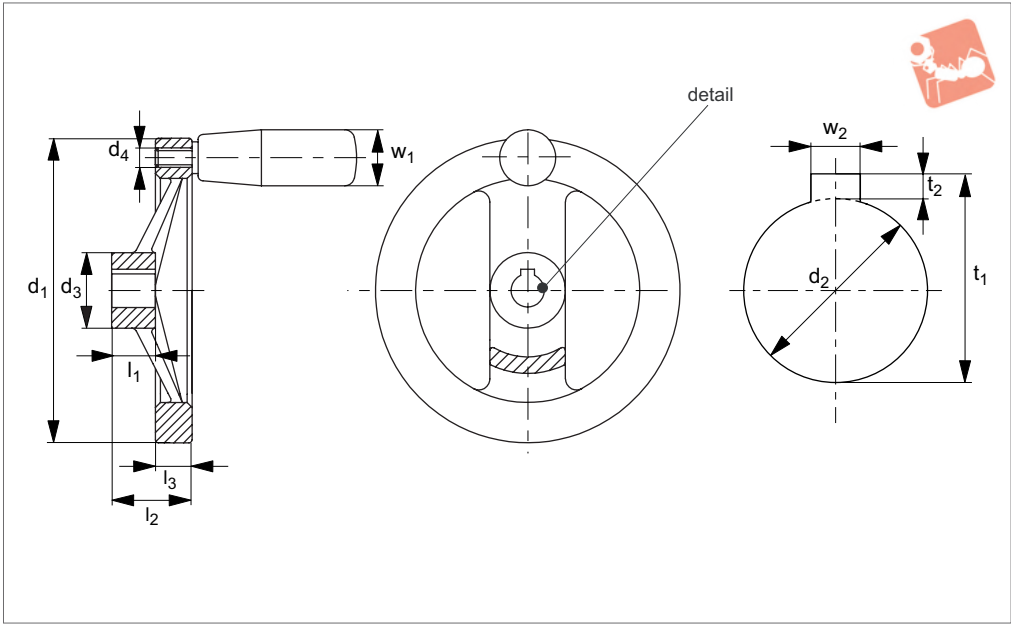
Material
Steel (C45E), tempered, black oxide finish, precision ground (precision type only)

Technical Notes
Can be used to increase the accuracy of flanged single clamping module (see part no. 12043) location on the fixture plate.
Can achieve clamping module locating repeatability of up to 5 microns (precision type), or 0.1mm (standard type).
Only the precision type is precision ground for increased locating accuracy.

Order No.	h ₁	h ₂	Suitable clamping module 12043	Type	Size	d ₂	d ₃	Precision d ₁ tol. g6	Standard d ₁ -0.02 -0.05	Weight g
12048.W0108	4	5.0	8	Standard	8	11.5	M 6x1.00	-	8	4
12048.W0111	5	5.0	11	Standard	11	15.5	M 8x1.25	-	12	8
12048.W0116	8	6.0	16	Standard	16	24.5	M 12x1.75	-	18	27
12048.W0121	10	7.5	21	Standard	21	31.5	M 16x2.00	-	22	51
12048.W0208	4	5.0	8	Precision	8	11.5	M 6x1.00	8	-	4
12048.W0211	5	5.0	11	Precision	11	15.5	M 8x1.25	12	-	8
12048.W0216	8	6.0	16	Precision	16	24.5	M 12x1.75	18	-	27
12048.W0221	10	7.5	21	Precision	21	31.5	M16x2.00	22	-	51



77300



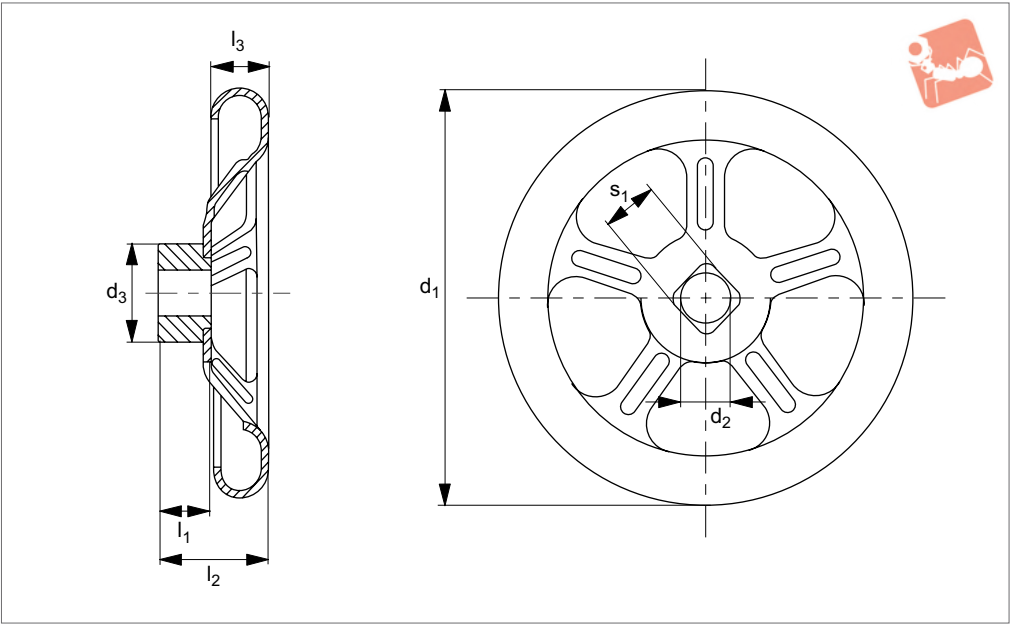
Material
Aluminium mould casting. Plastic handle
PF 31, DIN 7708.
Hub machined;rim turned and
mirror-finished on all sides, non-machined
surfaces cleanly blasted.

For corresponding handle details see no.
75120 rotating handle.
Technical Notes
The non-machined, raw surfaces are
blasted; together with the mirror-polished
rim these handwheels are therefore

showing a finish which in most cases does
not require additional lacquering.
For keyways information (dim. t_1 and b_3) to
DIN 6885.

Additional sizes available on our website.

Order No.	Type	Bore dia.	d ₁	d ₂ Small tol. H7	d ₂ Large tol. H7	d ₃	d ₄	l ₁	l ₂	l ₃	w ₁	Weight g
77300.W0012	W/o Keyway, W/o Handle	d ₂ Small	125	12	14	31	-	18	33	15.0	-	301
77300.W0013	W/o Keyway, W/o Handle	d ₂ Large	125	12	14	31	-	18	33	15.0	-	301
77300.W0014	W/o Keyway, W/o Handle	d ₂ Small	140	14	16	36	-	19	36	16.5	-	400
77300.W0015	W/o Keyway, W/o Handle	d ₂ Large	140	14	16	36	-	19	36	16.5	-	400
77300.W0016	W/o Keyway, W/o Handle	d ₂ Small	160	14	16	36	-	20	39	18.0	-	520
77300.W0017	W/o Keyway, W/o Handle	d ₂ Large	160	14	16	36	-	20	39	18.0	-	520
77300.W0020	W/o Keyway, W/o Handle	d ₂ Small	200	18	20	42	-	24	45	20.5	-	886
77300.W0021	W/o Keyway, W/o Handle	d ₂ Large	200	18	20	42	-	24	45	20.5	-	886
77300.W0025	W/o Keyway, W/o Handle	d ₂ Small	250	22	26	48	-	28	51	23.0	-	1454
77300.W0026	W/o Keyway, W/o Handle	d ₂ Large	250	22	26	48	-	28	51	23.0	-	1454
77300.W0112	With Keyway, W/o Handle	d ₂ Small	125	12	14	31	-	18	33	15.0	-	303
77300.W0113	With Keyway, W/o Handle	d ₂ Large	125	12	14	31	-	18	33	15.0	-	303
77300.W0114	With Keyway, W/o Handle	d ₂ Small	140	14	16	36	-	19	36	16.5	-	406
77300.W0115	With Keyway, W/o Handle	d ₂ Large	140	14	16	36	-	19	36	16.5	-	406
77300.W0116	With Keyway, W/o Handle	d ₂ Small	160	14	16	36	-	20	39	18.0	-	542
77300.W0117	With Keyway, W/o Handle	d ₂ Large	160	14	16	36	-	20	39	18.0	-	542
77300.W0120	With Keyway, W/o Handle	d ₂ Small	200	18	20	42	-	24	45	20.5	-	914
77300.W0121	With Keyway, W/o Handle	d ₂ Large	200	18	20	42	-	24	45	20.5	-	914
77300.W0125	With Keyway, W/o Handle	d ₂ Small	250	22	26	48	-	28	51	23.0	-	1446
77300.W0126	With Keyway, W/o Handle	d ₂ Large	250	22	26	48	-	28	51	23.0	-	1446
77300.W0512	W/o Keyway, With Handle	d ₂ Small	125	12	14	31	M 8	18	33	15.0	23	390
77300.W0513	W/o Keyway, With Handle	d ₂ Large	125	12	14	31	M 8	18	33	15.0	23	390
77300.W0514	W/o Keyway, With Handle	d ₂ Small	140	14	16	36	M 8	19	36	16.5	23	490
77300.W0515	W/o Keyway, With Handle	d ₂ Large	140	14	16	36	M 8	19	36	16.5	23	490
77300.W0516	W/o Keyway, With Handle	d ₂ Small	160	14	16	36	M 10	20	39	18.0	26	645
77300.W0517	W/o Keyway, With Handle	d ₂ Large	160	14	16	36	M 10	20	39	18.0	26	645
77300.W0520	W/o Keyway, With Handle	d ₂ Small	200	18	20	42	M 10	24	45	20.5	26	1000
77300.W0521	W/o Keyway, With Handle	d ₂ Large	200	18	20	42	M 10	24	45	20.5	26	1000
77300.W0525	W/o Keyway, With Handle	d ₂ Small	250	22	26	48	M 10	28	51	23.0	28	1585
77300.W0526	W/o Keyway, With Handle	d ₂ Large	250	22	26	48	M 10	28	51	23.0	28	1585



77430

Material
Stainless steel 1.4301 (AISI 303), pressed.
Hub welded. Matte shot-blasted.

Order No.	Bore dia.	d ₁	d ₂ round tol. H9	d ₃	l ₁	l ₂	l ₃	No. of spokes	s ₁ square tol. H11	Weight g
77430.W0012	Round	160	B12	30	20	39	22	4	V12	430
77430.W0014	Round	200	B14	40	24	44	22	4	V14	824
77430.W0017	Round	250	B17	45	28	52	30	5	V17	1477
77430.W0112	Square	160	B12	30	20	39	22	4	V12	430
77430.W0114	Square	200	B14	40	24	44	22	4	V14	824
77430.W0117	Square	250	B17	45	28	52	30	5	V17	1477



Injection Moulding Machines

Injection moulding machinery combines high forces, repeatable movements and continuous production cycles, requiring components that deliver reliability, durability and consistent performance. From mould handling and automation systems to machine guarding and operator access, every element contributes to production efficiency and uptime.

The Wixroyd Group supplies a wide range of mechanical components that support machine builders in creating robust, serviceable equipment for demanding manufacturing environments.

Position & Guide

Precision movement is essential for mould opening systems, automation equipment and robotic extraction. Linear guides, shafts, bearings, slides and carriages provide smooth, controlled movement while maintaining alignment and repeatability throughout the production cycle.

Drive & Index

Reliable transmission components support automated mould handling, auxiliary equipment and adjustment mechanisms. Lead screws, couplings, timing pulleys and gearboxes provide controlled movement, efficient power transfer and accurate positioning where consistent operation is critical.

Clamp & Hold

Secure fixture solutions are essential during mould changes, tooling maintenance and machine setup. Toggle clamps, spring plungers, fixture elements and workholding components provide reliable location and quick adjustment to minimise downtime between production runs.

Access & Protection

Safe and convenient access is essential around mould areas, service panels and electrical enclosures. Industrial hinges, handles, latches, locks and gas struts provide durable solutions for machine guarding and maintenance access.

Adjust & Set

Accurate setup ensures mould alignment and consistent production quality. Levelling feet, handwheels, adjustable handles and position indicators simplify machine installation, tooling adjustment and repeatable changeover procedures.

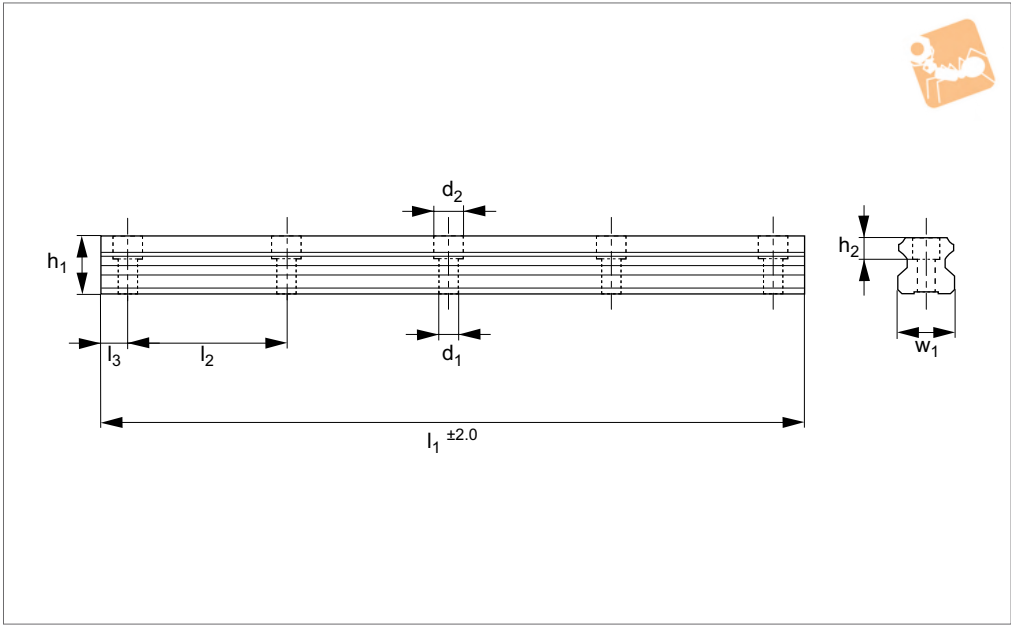
Convey & Transfer

Efficient handling of moulded components supports downstream processes such as inspection, trimming and packaging. Rollers, guide rails, conveyor components and support brackets help maintain smooth product flow between automated operations.

► For technical product information turn the page



L1016

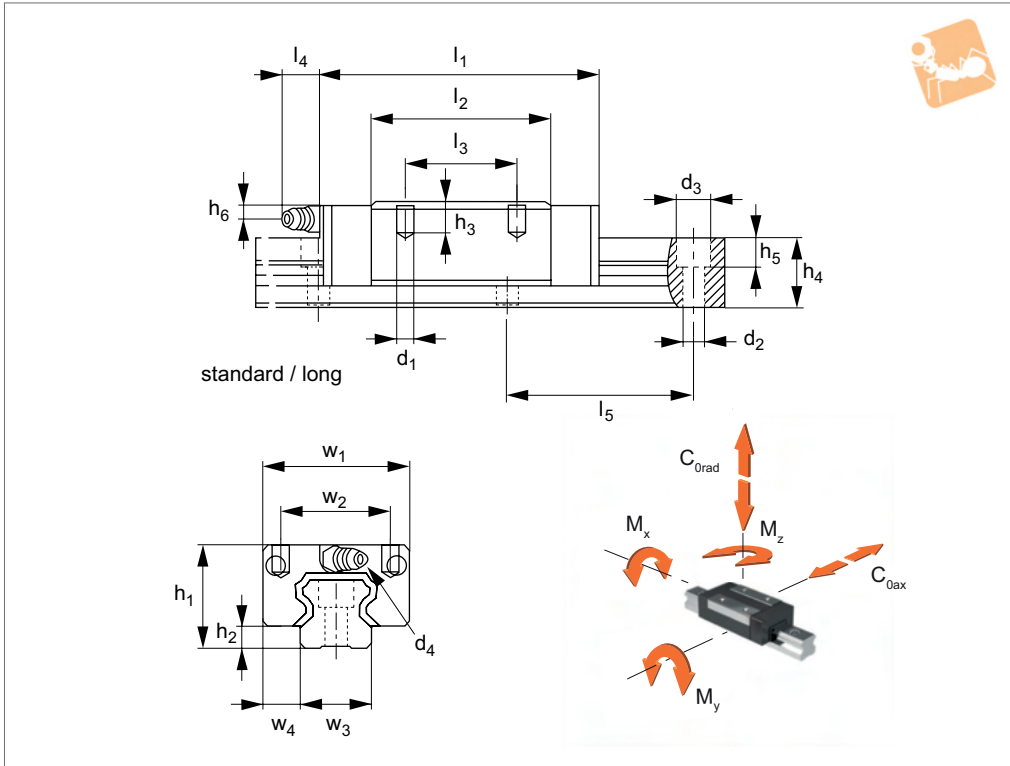


Material
Hardened and ground steel (typically 60 HRC).

Technical Notes
For carriages to suit the required load see part nos. L1016.F (flanged) and L1016.U (unflanged).
Other rail lengths on request.
Weight: 1.4 Kg/m.

Tips
Plastic screw covers issued with the rails to protect the holes from debris.
Replace xxxx with desired rail length eg. L1016.15-1000 is 1000mm long.

Order No.	Rail size	l_1 max	h_1	l_2	w_1	l_3	h_2	d_1	d_2	For screws	Weight kg
L1016.15-xxxx	15	4000	13.0	60	15	20.0	6.0	4.5	7.5	M 4	0.42
L1016.20-xxxx	20	4000	16.3	60	20	20.0	8.5	6.0	9.5	M 5	0.57
L1016.25-xxxx	25	4000	19.2	60	23	20.0	9.0	7.0	11.0	M 6	0.73
L1016.30-xxxx	30	4000	22.8	80	28	20.0	12.0	9.0	14.0	M 8	0.88
L1016.35-xxxx	35	4000	26.0	80	34	20.0	12.0	9.0	14.0	M 8	1.04
L1016.45-xxxx	45	4000	31.1	105	45	22.5	17.0	14.0	20.0	M 12	1.20
L1016.55-xxxx	55	4000	38.0	120	53	30.0	20.0	16.0	23.0	M 14	1.35



L1016.U

Material
Hardened and ground steel.

Technical Notes
Select the size and number of carriages to suit the required load then select the

required rail length, (see part nos. L1016.15 through to L1016.55).
Standard preload carriages are K_0 (no preload) or K_1 ($0.02 \times$ dynamic load capacity). Other preloads available on request.

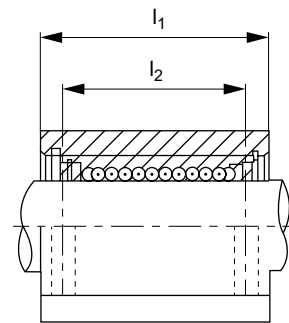
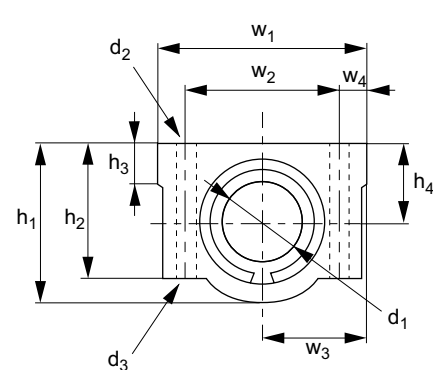
Tips
Improved version with ball cages allowing the carriages to be removed from the rail without the balls falling out.
Sizes up to rail size 55 are available on our website.

Order No.	Rail size	l_1	h_1	l_2	w_1	l_3	h_2	h_3	h_4	d_1	h_5	d_2	h_6	w_2	w_3	w_4	Weight kg
L1016.U15	15	58.6	28	40.2	34	26	3.3	6.0	13.0	M 4	6.0	4.5	9.5	26	15	9.5	0.19
L1016.U20	20	69.3	30	48.5	44	36	4.5	6.5	16.3	M 5	8.5	6.0	7.1	32	20	12.0	0.31
L1016.U20-L	20	82.1	30	61.3	44	36	4.5	6.5	16.3	M 5	8.5	6.0	7.1	32	20	12.0	0.36
L1016.U25	25	79.2	40	57.5	48	35	5.8	9.0	19.2	M 6	9.0	7.0	14.2	35	23	12.5	0.45
L1016.U25-L	25	93.9	40	72.2	48	35	5.8	9.0	19.2	M 6	9.0	7.0	14.2	35	23	12.5	0.66
L1016.U25-XL	25	108.6	40	86.9	48	50	5.8	9.0	19.2	M 6	9.0	7.0	14.2	35	23	12.5	0.80
L1016.U30	30	94.8	45	67.8	60	40	7.0	12.0	22.8	M 8	12.0	9.0	13.0	40	28	16.0	0.91
L1016.U30-L	30	105.0	45	78.0	60	40	7.0	12.0	22.8	M 8	12.0	9.0	13.0	40	28	16.0	1.04
L1016.U30-XL	30	130.5	45	103.5	60	60	7.0	12.0	22.8	M 8	12.0	9.0	13.0	40	28	16.0	1.36
L1016.U35	35	111.5	55	80.5	70	50	7.5	12.0	26.0	M 8	12.0	9.0	18.5	50	34	18.0	1.50
L1016.U35-L	35	123.5	55	92.5	70	50	7.5	12.0	26.0	M 8	12.0	9.0	18.5	50	34	18.0	1.80
L1016.U35-XL	35	153.5	55	122.5	70	72	7.5	12.0	26.0	M 8	12.0	9.0	18.5	50	34	18.0	2.34

Order No.	l_4	l_5	d_3	d_4	M_x Nm	M_y Nm	M_z Nm	Dyn. load $C_{rad \& ax}$ kN	Static load $C_{0rad \& ax}$ kN
L1016.U15	5.0	60	7.5	M 3 x0.5	137	120	120	11.67	19.90
L1016.U20	15.6	60	9.5	M 6x1.0	289	224	224	17.98	30.96
L1016.U20-L	15.6	60	9.5	M 6x1.0	376	366	366	23.30	40.11
L1016.U25	15.6	60	11.0	M 6x1.0	447	358	358	25.25	41.73
L1016.U25-L	15.6	60	11.0	M 6x1.0	576	577	577	32.44	53.63
L1016.U25-XL	15.6	60	11.0	M 6x1.0	691	833	833	36.58	64.30
L1016.U30	15.6	80	14.0	M 6x1.0	719	560	560	37.33	55.50
L1016.U30-L	15.6	80	14.0	M 6x1.0	931	836	836	48.35	71.88
L1016.U30-XL	15.6	80	14.0	M 6x1.0	1142	1361	1361	53.83	88.18
L1016.U35	15.6	80	14.0	M 6x1.0	1307	991	991	53.31	82.66
L1016.U35-L	15.6	80	14.0	M 6x1.0	1633	1424	1424	66.61	103.29
L1016.U35-XL	15.6	80	14.0	M 6x1.0	2020	2330	2330	73.29	127.68



L1751

**Material**

Aluminium carriage housing with L1709, stainless steel (440C) linear bushing installed.

Bushing has a resin -RS (POM) or stainless steel -SS (316) retainer and nitrile rubber (NBR) end seals -UU.

Stainless steel balls 440C.

Long versions have L1713 linear bearing installed.

Technical Notes

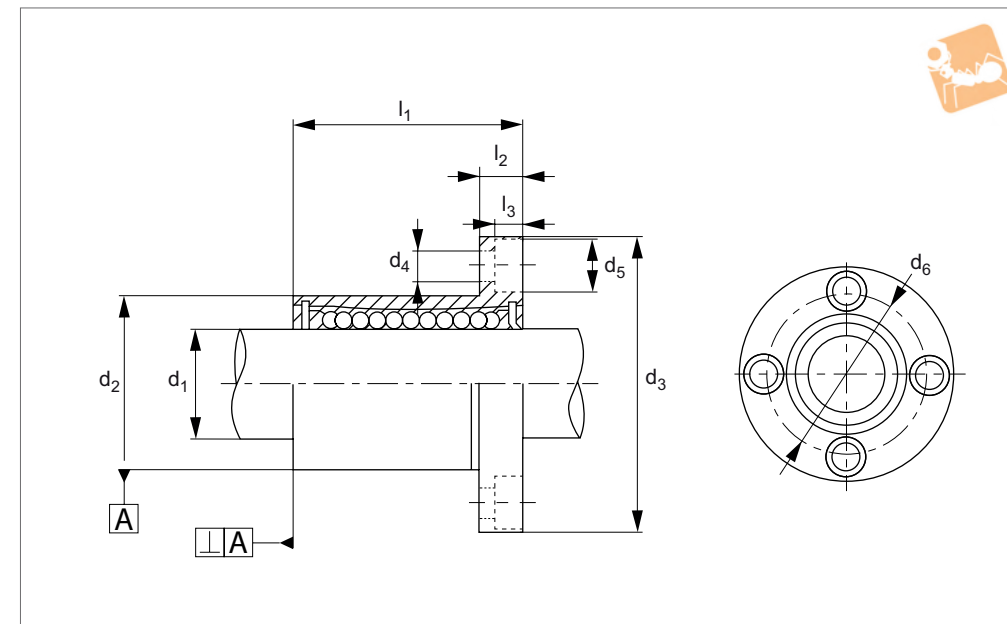
For use with corrosion resistant hardened shafts (see part no. L1772).

Temperature range: -20°C to +120°C.

More sizes available online; short and long version.

Order No.	Type	Ball cage	d ₁ tol. h6	l ₁	d ₂	d ₃	h ₁	h ₂	Weight g
L1751.008-RS	Normal	Resin	8	30.0	M 4x 8	3.4	22.0	18.0	60
L1751.012-RS	Normal	Resin	12	39.0	M 5x10	4.3	30.0	24.5	118
L1751.016-RS	Normal	Resin	16	44.0	M 5x12	4.3	38.5	32.5	180
L1751.020-RS	Normal	Resin	20	53.0	M 6x12	5.2	41.0	35.0	245
L1751.025-RS	Normal	Resin	25	67.0	M 8x18	6.8	51.5	41.0	550
L1751.008-SS	Normal	Stainless	8	30.0	M 4x 8	3.4	22.0	18.0	60
L1751.012-SS	Normal	Stainless	12	39.0	M 5x10	4.3	30.0	24.5	118
L1751.016-SS	Normal	Stainless	16	44.0	M 5x12	4.3	38.5	32.5	180
L1751.020-SS	Normal	Stainless	20	53.0	M 6x12	5.2	41.0	35.0	245
L1751.025-SS	Normal	Stainless	25	67.0	M 8x18	6.8	51.5	41.0	550

Order No.	h ₃	h ₄ ±0.02	l ₂ ±0.2	w ₁	w ₂ ±0.2	w ₃ ±0.02	w ₄	Dyn. load C N max.	Static load C ₀ N max.	Linear ball bushing used
L1751.008-RS	6	11	18	34	24	17	5.0	260	400	L1709.008
L1751.012-RS	8	15	26	44	33	22	5.5	410	590	L1709.012
L1751.016-RS	9	19	34	50	36	25	7.0	770	1170	L1709.016
L1751.020-RS	11	21	40	54	40	27	7.0	860	1370	L1709.020
L1751.025-RS	12	26	50	76	54	38	11.0	980	1560	L1709.025
L1751.008-SS	6	11	18	34	24	17	5.0	260	400	L1709.508
L1751.012-SS	8	15	26	44	33	22	5.5	410	590	L1709.512
L1751.016-SS	9	19	34	50	36	25	7.0	770	1170	L1709.516
L1751.020-SS	11	21	40	54	40	27	7.0	860	1370	L1709.520
L1751.025-SS	12	26	50	76	54	38	11.0	980	1560	L1709.525



L1718

Material

Hardened and ground body from bearing steel.

Single body resin retainer (POM).

Supplied with nitrile rubber (NBR) end-seals -UU as standard.

Technical Notes

For use with hardened shafts only (see part

nos. L1770 - L1772) - tolerance h6.

For part numbers with ⁻¹ shaft tolerance required is g6. Temperature range : -20°C to +80°C.

Steel ball retainers can be supplied for higher temperature applications (up to +120°C - with no end seals. Please advise at time of ordering if this is required.

Tips

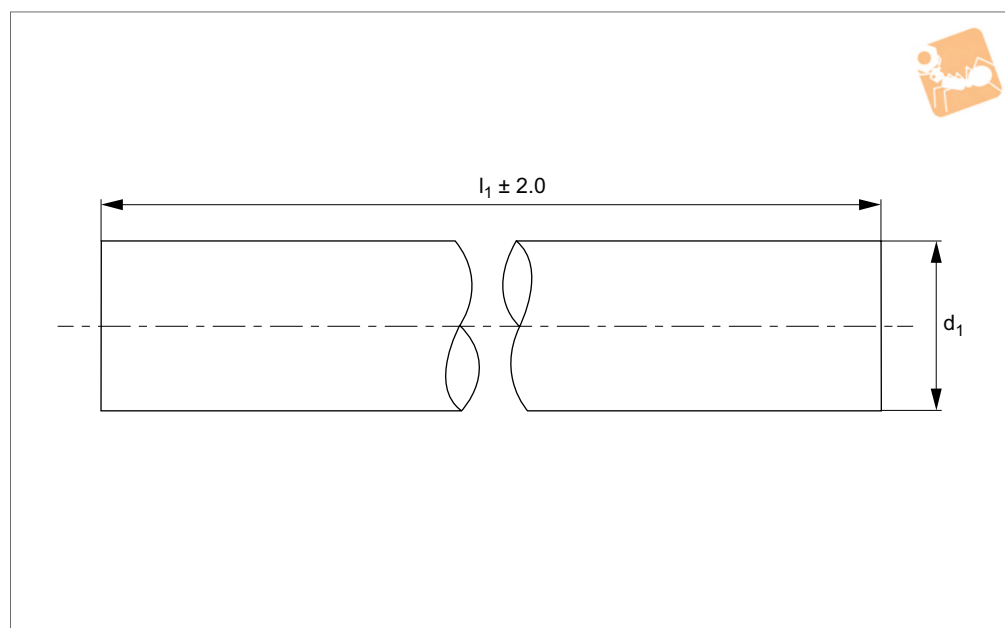
Nickel plated version with stainless steel balls (for corrosion resistance) on request - or stainless steel version no. L1720.

Order No.	d ₁	d ₂	l ₁	d ₃	d ₄	d ₅	d ₆	Weight g
L1718.006-1	6	12	19	28	3.4	6.5	20	26.5
L1718.008	8	16	25	32	3.4	6.5	24	44.0
L1718.010-1	10	19	29	40	4.5	8.0	29	78.0
L1718.012	12	22	32	42	4.5	8.0	32	86.0
L1718.016	16	26	36	46	4.5	8.0	36	120.0
L1718.020	20	32	45	54	5.5	9.5	43	184.0
L1718.025	25	40	58	62	5.5	9.5	51	335.0
L1718.030	30	47	68	76	6.6	11.0	62	545.0
L1718.040	40	62	80	98	9.0	14.0	80	1185.0
L1718.050	50	75	100	112	9.0	14.0	94	1730.0
L1718.060	60	90	125	134	11.0	17.5	112	3180.0

Order No.	l ₂	l ₃	No. of ball circuits	Squareness A µm	Dyn. load C N	Static load C ₀ N
L1718.006-1	5	3.3	4	12	200	260
L1718.008	5	3.3	4	12	260	400
L1718.010-1	6	4.4	4	12	370	540
L1718.012	6	4.4	4	12	410	590
L1718.016	6	4.4	5	12	770	1170
L1718.020	8	5.4	5	15	860	1370
L1718.025	8	5.4	6	15	980	1560
L1718.030	10	6.5	6	15	1560	2740
L1718.040	13	8.6	6	20	2150	4010
L1718.050	13	8.6	6	20	3820	7930
L1718.060	18	10.8	6	25	4700	9990



L1770



Material

Carbon steel (070M55, Cf53 - DIN 1.1213), Surface hardness 60-66 HRC. Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla. Yield stress: >325 N/mm², tensile strength: >630 N/mm².

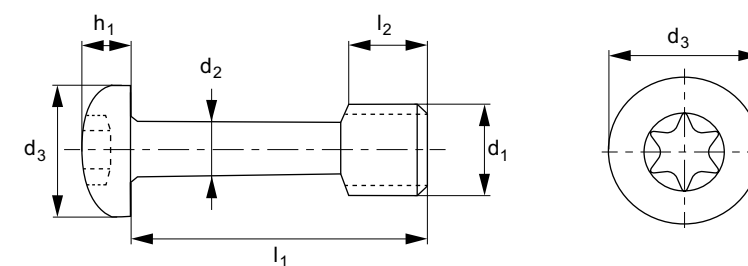
Technical Notes

Tolerance, h6 standard, special tolerances upon request. Suitable for use with linear bearings. Straightness 0.3mm/m. **Replace xxxx with desired shaft length eg. L1770.05-1000 is 1000mm long.**

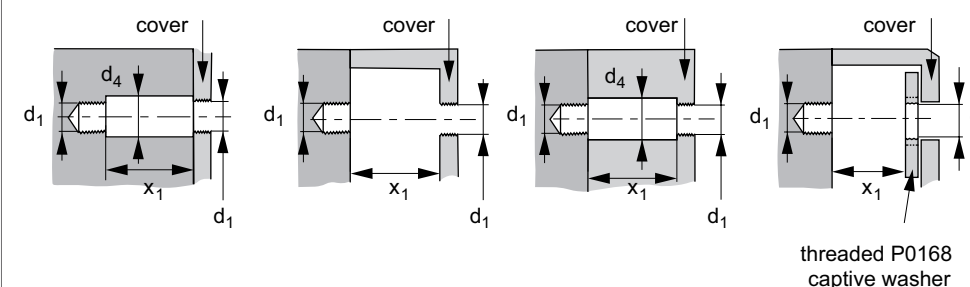
Tips

Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available. Shaft lengths are cut to typically ± 2mm, ends are not hardened.

Order No.	d ₁ tol. h6	l ₁ max.	Depth of hardness min.
L1770.05-xxxx	5	6000	0.4
L1770.06-xxxx	6	6000	0.4
L1770.08-xxxx	8	6000	0.4
L1770.10-xxxx	10	6000	0.4
L1770.12-xxxx	12	6000	0.6
L1770.16-xxxx	16	6000	0.6
L1770.20-xxxx	20	6000	0.9
L1770.25-xxxx	25	6000	0.9
L1770.30-xxxx	30	6000	1.5
L1770.40-xxxx	40	6000	1.5
L1770.50-xxxx	50	6000	1.5
L1770.60-xxxx	60	6000	1.5



application examples :-
counterbore length 'x₁' should be > l₂



P0150

Material

Available in a range of materials; replace XX with -A2 for 303 stainless, -A4 for 316 stainless, -B2 for blackened 303 stainless, -B4 for blackened 316 stainless and -Ti for Titanium. Also available on request in steel (anodised, black oxide or zinc plated), stainless steel (AISI 316, 1.440), brass, aluminium etc.

Technical Notes

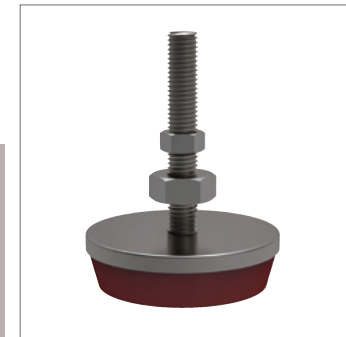
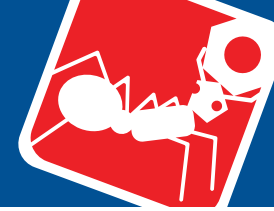
Used to comply with the Machinery Directive 2006/42/EC. Generally to ISO 14583. Often used with our captive washers (P0168) or retaining flanges (P0169.A2 - for sheet metal applications). The use of our captive washers should be considered when fitted in panels with unthreaded holes. *M 8 sizes have a reduced TX size.

Important Notes

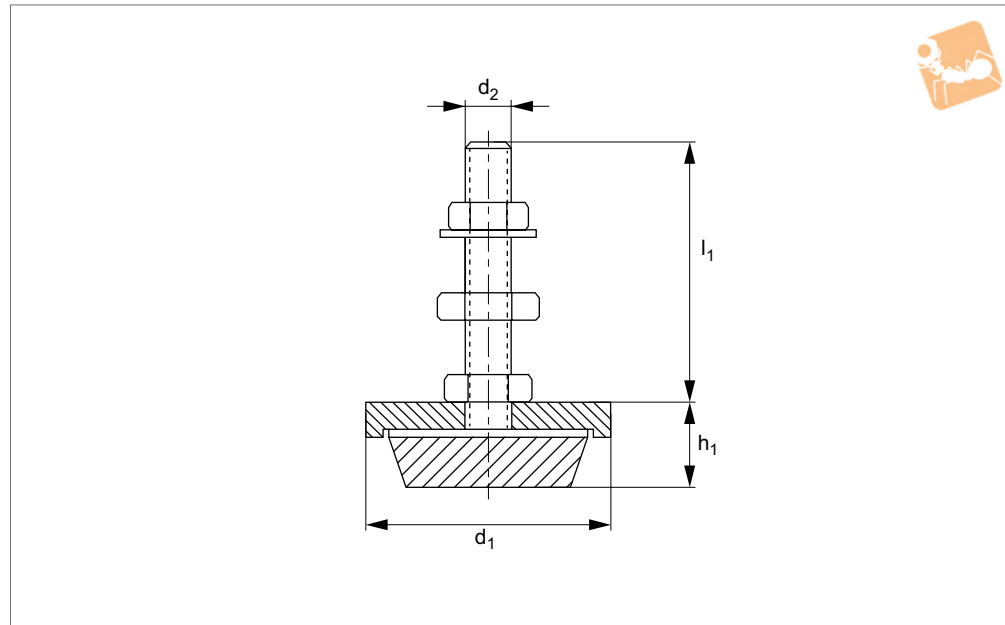
Please note that these screws have a reduced diameter shank and should not be tightened to the recommended torque for an equivalent machine screw of size d₁.

More sizes available on our website.

Order No.	d ₁	l ₁ ±0.25	d ₂ ±0.12	d ₃ max.	d ₄ min.	h ₁ max.	l ₂ ±0.25	TX size
P0150.030-008-XX	M 3	8	2.0	6	3.5	2.5	4.5	TX-10
P0150.030-010-XX	M 3	10	2.0	6	3.5	2.5	4.5	TX-10
P0150.030-016-XX	M 3	16	2.0	6	3.5	2.5	4.5	TX-10
P0150.030-020-XX	M 3	20	2.0	6	3.5	2.5	4.5	TX-10
P0150.030-025-XX	M 3	25	2.0	6	3.5	2.5	4.5	TX-10
P0150.030-030-XX	M 3	30	2.0	6	3.5	2.5	4.5	TX-10
P0150.040-008-XX	M 4	8	2.8	8	4.5	3.2	6.0	TX-20
P0150.040-010-XX	M 4	10	2.8	8	4.5	3.2	6.0	TX-20
P0150.040-012-XX	M 4	12	2.8	8	4.5	3.2	6.0	TX-20
P0150.040-016-XX	M 4	16	2.8	8	4.5	3.2	6.0	TX-20
P0150.040-020-XX	M 4	20	2.8	8	4.5	3.2	6.0	TX-20
P0150.040-025-XX	M 4	25	2.8	8	4.5	3.2	6.0	TX-20
P0150.040-030-XX	M 4	30	2.8	8	4.5	3.2	6.0	TX-20
P0150.040-040-XX	M 4	40	2.8	8	4.5	3.2	6.0	TX-20
P0150.040-050-XX	M 4	50	2.8	8	4.5	3.2	6.0	TX-20
P0150.050-010-XX	M 5	10	3.7	10	5.5	3.9	7.5	TX-25
P0150.050-012-XX	M 5	12	3.7	10	5.5	3.9	7.5	TX-25



P2161



Material

Stainless steel body and thread (A2, AISI 304), with hard polyurethane base (80 Shore A).

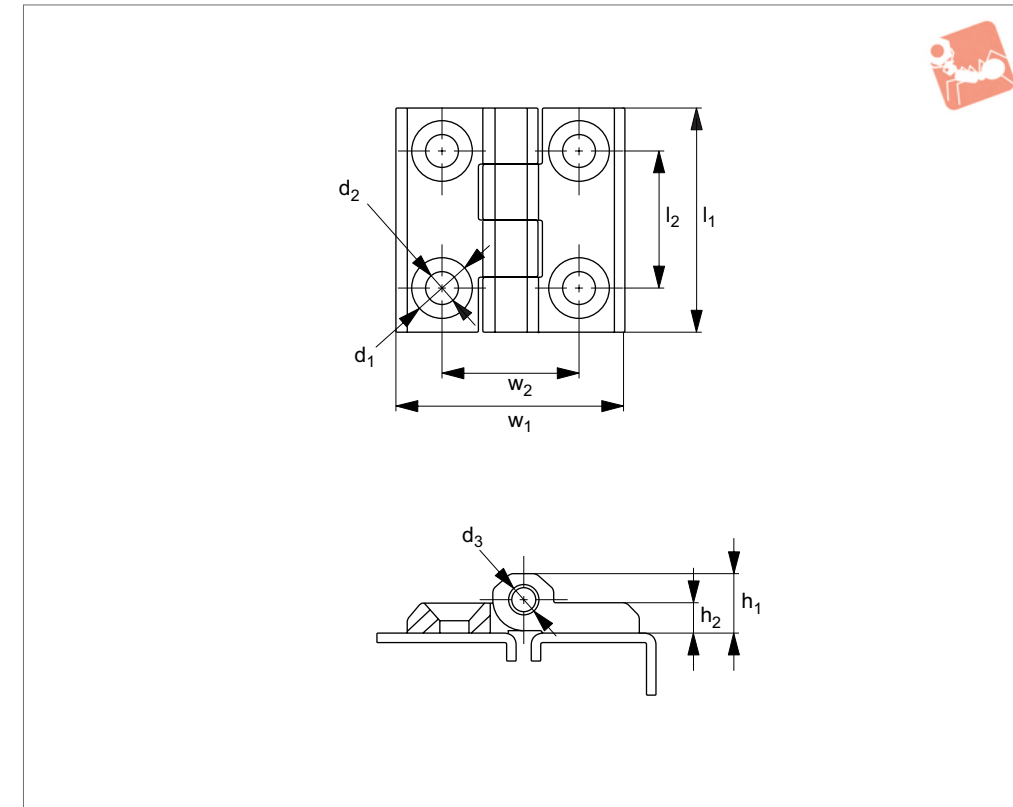
Technical Notes

Ideally suited for food and pharmaceutical applications. The hard polyurethane base is resistant to aggressive oils and chemicals.

Tips

The polyurethane base 80 Shore A also ensures very heavy load carrying capacity.

Order No.	d ₁	h ₁	d ₂	l ₁	Load range kgf
P2161.065	65	22	M 12	90	200-800
P2161.100	100	30	M 16	110	500-2000
P2161.120	120	33	M 16	110	2000-4000
P2161.180	180	40	M 16	110	4000-6000



S0523

Material

Stainless steel, AISI 304.

Technical Notes

For plain/flush mounted doors, as well as

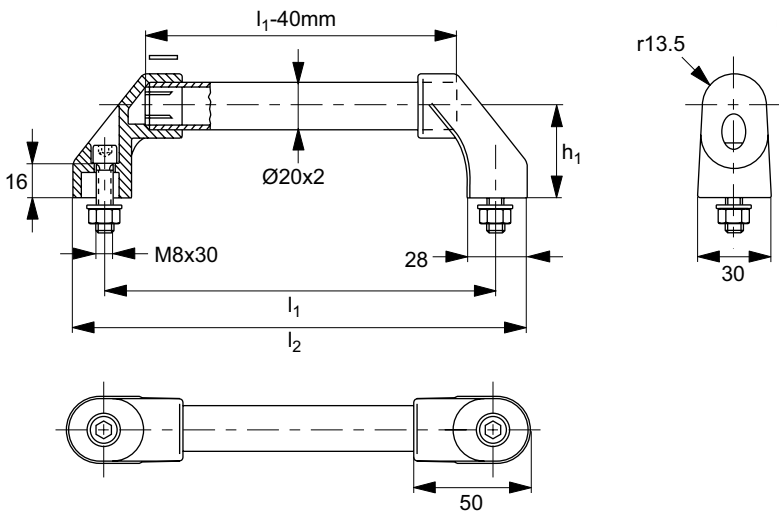
electrical panels and covers.
Opening angle 180°.

Order No.	Size	h ₁	h ₂	l ₁	l ₂	w ₁	w ₂	d ₁
S0523.HW0040	40 x 40	9.0	5	40	25	40	25	10.5
S0523.HW0050	50 x 50	11.5	6	50	30	50	30	12.5
S0523.HW0060	60 x 60	15.0	8	60	36	60	36	12.5

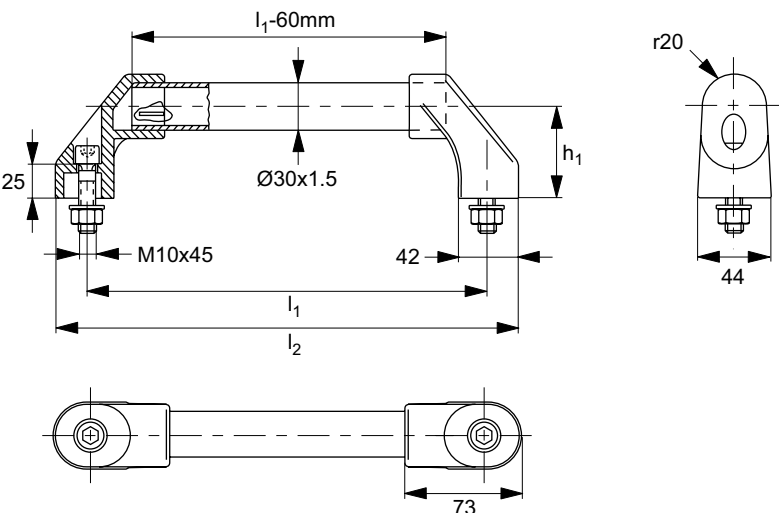
Order No.	d ₂	d ₃	90° Angled stress kN	Axial load F _x N max.	Axial stress kN	Radial load F _x N	Radial stress kN
S0523.HW0040	5.3	4	2.00	-	1.45	-	2.1
S0523.HW0050	6.3	7	2.45	1.3	2.10	1.2	3.5
S0523.HW0060	8.4	8	4.40	1.8	3.20	1.5	6.0



79250



type one



type two

Material
Handle shank: polyamide, PA 6 glass ball reinforced, black, semi-matt with fine structure.
Connection tube: aluminium Al Mg Si 0,5.
Surface finishes: ground and anodised in natural colour. Grooved plastic cover,

black. Powder coated, black.

Technical Notes
Type one: supplied with hex screws DIN 912 M8x30, and suitable nuts and washers.
Type two: supplied with hex screws DIN912 M10x45 and suitable nuts and washers.

Minimum stress resistance 1000N.

Tips
The handle shank is fitted with 4 clamping pins, when the connection tube is pressed in the pins form around the tube and provide a firm hold.

Order No.	Type	Finish	l ₁	l ₂	h ₁ height to centre
79250.W0018	One	Natural	180	210	42
79250.W0020	One	Natural	200	230	42
79250.W0025	One	Natural	250	280	42
79250.W0030	One	Natural	300	330	42
79250.W0035	One	Natural	350	380	42
79250.W0040	One	Natural	400	430	42

Order No.	Type	Finish	l ₁	l ₂	h ₁ height to centre
79250.W0050	One	Natural	500	530	42
79250.W0060	One	Natural	600	630	42
79250.W0118	One	Plastic Coat	180	210	42
79250.W0120	One	Plastic Coat	200	230	42
79250.W0125	One	Plastic Coat	250	280	42
79250.W0130	One	Plastic Coat	300	330	42
79250.W0135	One	Plastic Coat	350	380	42
79250.W0140	One	Plastic Coat	400	430	42
79250.W0150	One	Plastic Coat	500	530	42
79250.W0160	One	Plastic Coat	600	630	42
79250.W0218	One	Powder Coat	180	210	42
79250.W0220	One	Powder Coat	200	230	42
79250.W0225	One	Powder Coat	250	280	42
79250.W0230	One	Powder Coat	300	330	42
79250.W0235	One	Powder Coat	350	380	42
79250.W0240	One	Powder Coat	400	430	42
79250.W0250	One	Powder Coat	500	530	42
79250.W0260	One	Powder Coat	600	630	42
79250.W0525	Two	Natural	250	294	60
79250.W0530	Two	Natural	300	344	60
79250.W0535	Two	Natural	350	394	60
79250.W0540	Two	Natural	400	444	60
79250.W0550	Two	Natural	500	544	60
79250.W0560	Two	Natural	600	644	60
79250.W0625	Two	Plastic Coat	250	294	60
79250.W0630	Two	Plastic Coat	300	344	60
79250.W0635	Two	Plastic Coat	350	394	60
79250.W0640	Two	Plastic Coat	400	444	60
79250.W0650	Two	Plastic Coat	500	544	60
79250.W0660	Two	Plastic Coat	600	644	60
79250.W0725	Two	Powder Coat	250	294	60
79250.W0730	Two	Powder Coat	300	344	60
79250.W0735	Two	Powder Coat	350	394	60
79250.W0740	Two	Powder Coat	400	444	60
79250.W0750	Two	Powder Coat	500	544	60
79250.W0760	Two	Powder Coat	600	644	60



CNC Machines

CNC machinery depends on precision mechanical systems to achieve accurate cutting, machining and finishing operations. From maintaining rigid axis movement to securely locating workpieces, every component contributes to machining accuracy, productivity and reliability.

The Wixroyd Group products support machine builders with solutions for motion, workholding, access and adjustment throughout the complete machine design.

Position & Guide

High accuracy and rigidity are essential for CNC axis movement. Linear guides, rails, shafts, bearings and positioning slides provide smooth, controlled travel while maintaining the precision required for demanding machining applications.

Drive & Index

Machine axes rely on efficient mechanical transmission to deliver accurate movement. Lead screws, ball screws, couplings, timing pulleys and gearboxes provide reliable power transfer with reduced backlash and consistent positioning.

Clamp & Hold

Secure workholding prevents movement and vibration during machining operations. Toggle clamps, fixture elements, spring plungers and workholding accessories enable fast, repeatable positioning of components and tooling.

Access & Protection

Machine guarding protects operators while maintaining accessibility for servicing and setup. Hinges, handles, latches, locks and gas struts provide robust access solutions for doors, panels and protective enclosures.

Adjust & Set

Accurate machine setup is critical to maintaining machining performance. Position indicators, adjustable handles and fine adjustment mechanisms allow precise fixture positioning, alignment and repeatable tooling changes.

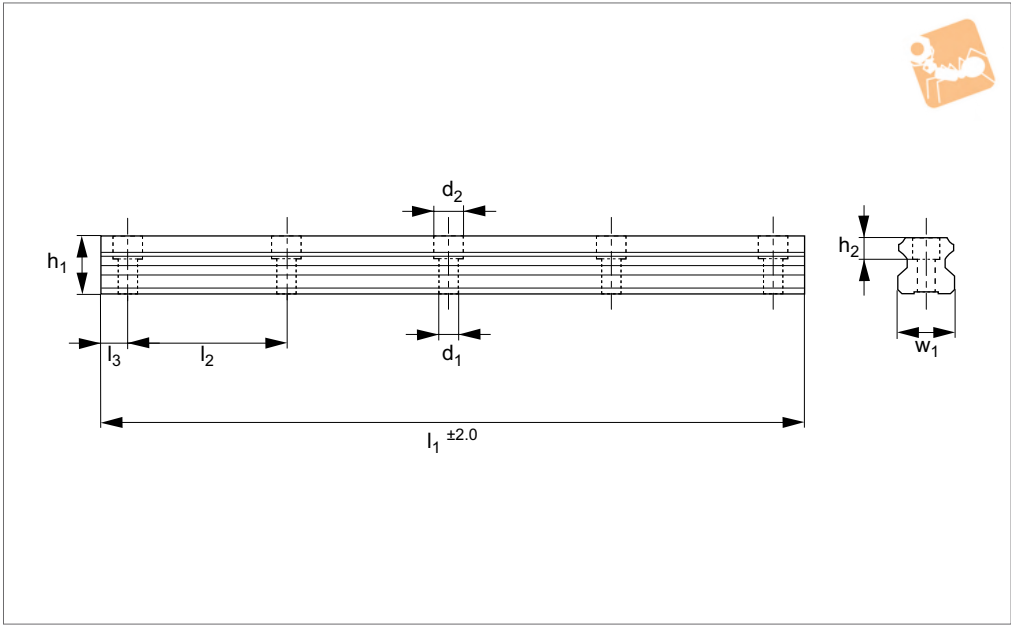
Convey & Transfer

Efficient material handling improves workflow around CNC equipment. Rollers, transfer components, guide rails and support brackets assist with loading, unloading and movement of materials and finished components.

► For technical product information **turn the page**



L1016



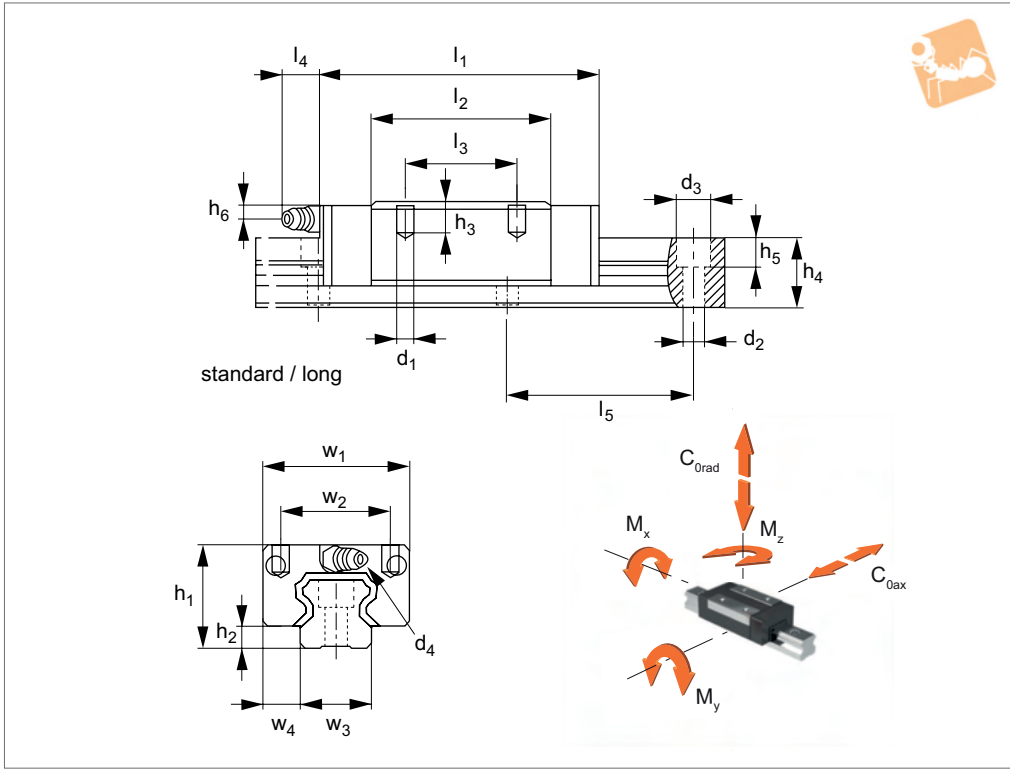
Material
Hardened and ground steel (typically 60 HRc).

Technical Notes
For carriages to suit the required load see part nos. L1016.F (flanged) and L1016.U (unflanged).
Other rail lengths on request.
Weight: 1.4 Kg/m.

Tips
Plastic screw covers issued with the rails to protect the holes from debris.

Replace xxxx with desired rail length eg. L1016.15-1000 is 1000mm long.

Order No.	Rail size	l_1 max	h_1	l_2	w_1	l_3	h_2	d_1	d_2	For screws	Weight kg
L1016.15-xxxx	15	4000	13.0	60	15	20.0	6.0	4.5	7.5	M 4	0.42
L1016.20-xxxx	20	4000	16.3	60	20	20.0	8.5	6.0	9.5	M 5	0.57
L1016.25-xxxx	25	4000	19.2	60	23	20.0	9.0	7.0	11.0	M 6	0.73
L1016.30-xxxx	30	4000	22.8	80	28	20.0	12.0	9.0	14.0	M 8	0.88
L1016.35-xxxx	35	4000	26.0	80	34	20.0	12.0	9.0	14.0	M 8	1.04
L1016.45-xxxx	45	4000	31.1	105	45	22.5	17.0	14.0	20.0	M 12	1.20
L1016.55-xxxx	55	4000	38.0	120	53	30.0	20.0	16.0	23.0	M 14	1.35



L1016.U

Material
Hardened and ground steel.

Technical Notes
Select the size and number of carriages to suit the required load then select the

required rail length, (see part nos. L1016.15 through to L1016.55).
Standard preload carriages are K_0 (no preload) or K_1 ($0.02 \times$ dynamic load capacity). Other preloads available on request.

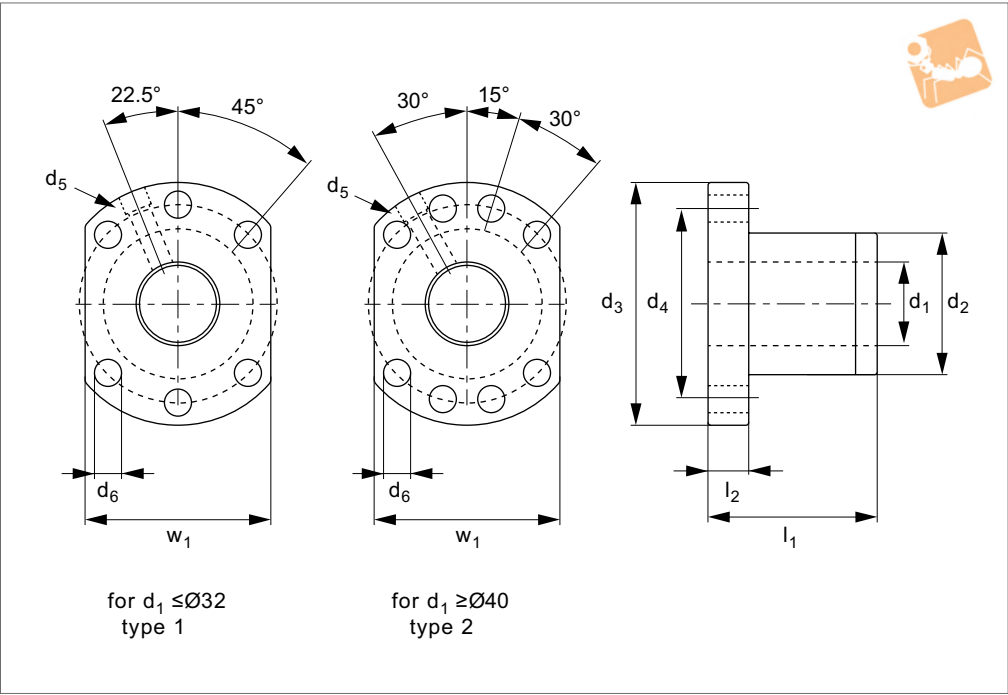
Tips
Improved version with ball cages allowing the carriages to be removed from the rail without the balls falling out.
Sizes up to rail size 55 are available on our website.

Order No.	Rail size	l_1	h_1	l_2	w_1	l_3	h_2	h_3	h_4	d_1	h_5	d_2	h_6	w_2	w_3	w_4	Weight kg
L1016.U15	15	58.6	28	40.2	34	26	3.3	6.0	13.0	M 4	6.0	4.5	9.5	26	15	9.5	0.19
L1016.U20	20	69.3	30	48.5	44	36	4.5	6.5	16.3	M 5	8.5	6.0	7.1	32	20	12.0	0.31
L1016.U20-L	20	82.1	30	61.3	44	36	4.5	6.5	16.3	M 5	8.5	6.0	7.1	32	20	12.0	0.36
L1016.U25	25	79.2	40	57.5	48	35	5.8	9.0	19.2	M 6	9.0	7.0	14.2	35	23	12.5	0.45
L1016.U25-L	25	93.9	40	72.2	48	35	5.8	9.0	19.2	M 6	9.0	7.0	14.2	35	23	12.5	0.66
L1016.U25-XL	25	108.6	40	86.9	48	50	5.8	9.0	19.2	M 6	9.0	7.0	14.2	35	23	12.5	0.80
L1016.U30	30	94.8	45	67.8	60	40	7.0	12.0	22.8	M 8	12.0	9.0	13.0	40	28	16.0	0.91
L1016.U30-L	30	105.0	45	78.0	60	40	7.0	12.0	22.8	M 8	12.0	9.0	13.0	40	28	16.0	1.04
L1016.U30-XL	30	130.5	45	103.5	60	60	7.0	12.0	22.8	M 8	12.0	9.0	13.0	40	28	16.0	1.36
L1016.U35	35	111.5	55	80.5	70	50	7.5	12.0	26.0	M 8	12.0	9.0	18.5	50	34	18.0	1.50
L1016.U35-L	35	123.5	55	92.5	70	50	7.5	12.0	26.0	M 8	12.0	9.0	18.5	50	34	18.0	1.80
L1016.U35-XL	35	153.5	55	122.5	70	72	7.5	12.0	26.0	M 8	12.0	9.0	18.5	50	34	18.0	2.34

Order No.	l_4	l_5	d_3	d_4	M_x Nm	M_y Nm	M_z Nm	Dyn. load $C_{rad \& ax}$ kN	Static load $C_{0rad \& ax}$ kN
L1016.U15	5.0	60	7.5	M 3 x0.5	137	120	120	11.67	19.90
L1016.U20	15.6	60	9.5	M 6x1.0	289	224	224	17.98	30.96
L1016.U20-L	15.6	60	9.5	M 6x1.0	376	366	366	23.30	40.11
L1016.U25	15.6	60	11.0	M 6x1.0	447	358	358	25.25	41.73
L1016.U25-L	15.6	60	11.0	M 6x1.0	576	577	577	32.44	53.63
L1016.U25-XL	15.6	60	11.0	M 6x1.0	691	833	833	36.58	64.30
L1016.U30	15.6	80	14.0	M 6x1.0	719	560	560	37.33	55.50
L1016.U30-L	15.6	80	14.0	M 6x1.0	931	836	836	48.35	71.88
L1016.U30-XL	15.6	80	14.0	M 6x1.0	1142	1361	1361	53.83	88.18
L1016.U35	15.6	80	14.0	M 6x1.0	1307	991	991	53.31	82.66
L1016.U35-L	15.6	80	14.0	M 6x1.0	1633	1424	1424	66.61	103.29
L1016.U35-XL	15.6	80	14.0	M 6x1.0	2020	2330	2330	73.29	127.68



L1370



Material
Steel (16MnCr5 or 100Cr6), with Vulkollan seals.

Technical Notes
To DIN 69051 form B.
Axial play for 5mm pitch = 0.05mm; for 10mm pitch = 0.10mm; for multi-starts = 0.20mm.
Preload max. 5% of max. dynamic load.
For axial run-out, concentricity and

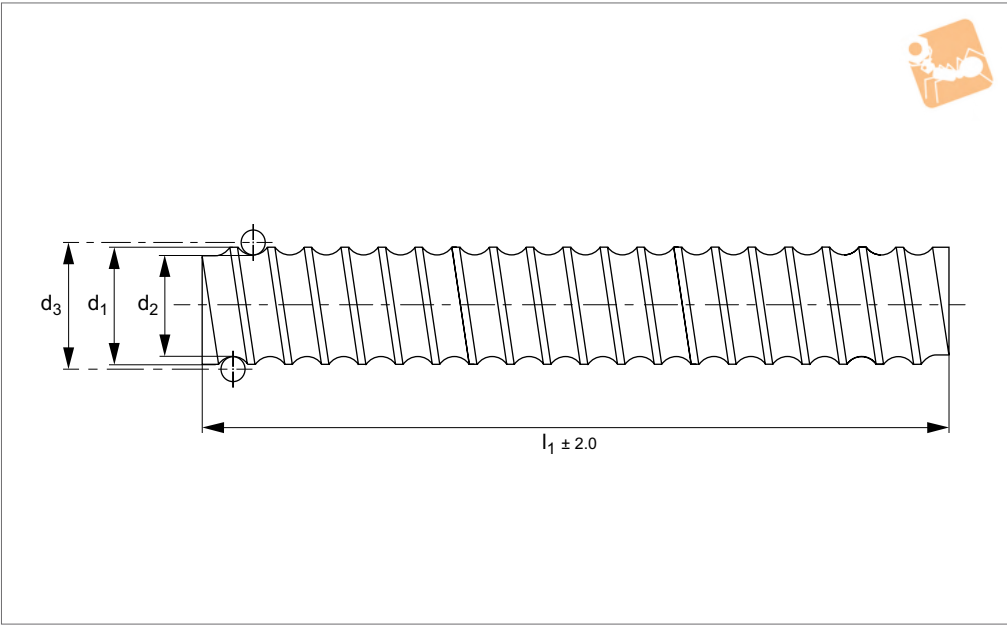
parallelism figures see technical pages.
With lubrication and fixing holes.
For use with ball screws no. L1375.

Tips
For easy mounting of the ball screw nuts see the nut bracket - part L1377.
For miniature ball screws Ø6 to Ø14 see part no. L1379.

Important Notes
Fit ball nut to screw using the sleeve provided. Offer up the ball nut to the screw and slide carefully on.
Do not remove the ball nut from the sleeve provided - the ball bearings can come loose rendering the ball nut unusable.

Left hand version also available on our website.

Order No.	d ₁ for screw	Pitch	Type	d ₂	d ₃	d ₄	d ₅ for	d ₆	l ₁	l ₂	w ₁	Ball dia.	Dyn. load C kN	Static load C ₀ kN	Stiffness N/μm
L1370.16-05	16	5	Type 1	28	48	38	M 6	5.5	45	10	40	3.175	13.53	29.92	314
L1370.16-10	16	10	Type 1	28	48	38	M 6	5.5	57	10	40	3.175	10.82	23.55	255
L1370.20-05	20	5	Type 1	36	58	47	M 6	6.6	51	10	44	3.175	15.21	38.00	382
L1370.25-05	25	5	Type 1	40	62	51	M 6	6.6	51	10	48	3.175	16.91	48.09	441
L1370.25-10	25	10	Type 1	40	62	51	M 6	6.6	80	12	48	4.762	28.96	71.54	490
L1370.32-05	32	5	Type 1	50	80	65	M 6	9.0	52	12	62	3.175	18.85	62.21	529
L1370.32-10	32	10	Type 1	50	80	65	M 6	9.0	85	12	62	6.350	47.12	119.72	598
L1370.40-05	40	5	Type 2	63	93	78	M 8	9.0	55	14	70	3.175	20.69	78.34	617
L1370.40-10	40	10	Type 2	63	93	78	M 8	9.0	88	14	70	6.340	52.95	152.00	715
L1370.50-10	50	10	Type 2	75	110	93	M 8	11.0	88	16	85	6.350	58.88	192.35	833
L1370.63-10	63	10	Type 2	90	125	108	M 8	11.0	93	18	95	6.350	65.89	248.68	970
L1370.80-10	80	10	Type 2	105	145	125	M 8	13.5	93	20	110	6.350	72.04	313.36	1068



L1375

Material
Steel (CF53 or C55R), induction hardened to 60 HRC ±2, polished.

Technical Notes
Gothic profile with a 5,20 or 50mm lead.
Tolerance T7 - 50μ/300mm. Shorter lengths or longer lengths up to a maximum of 3000mm available.
For ball screw nuts see parts L1370-L1374

& L1377.
For end screw machining to suit ball screw support units see relevant ball screw supports (L1388-L1406). End machining on request.

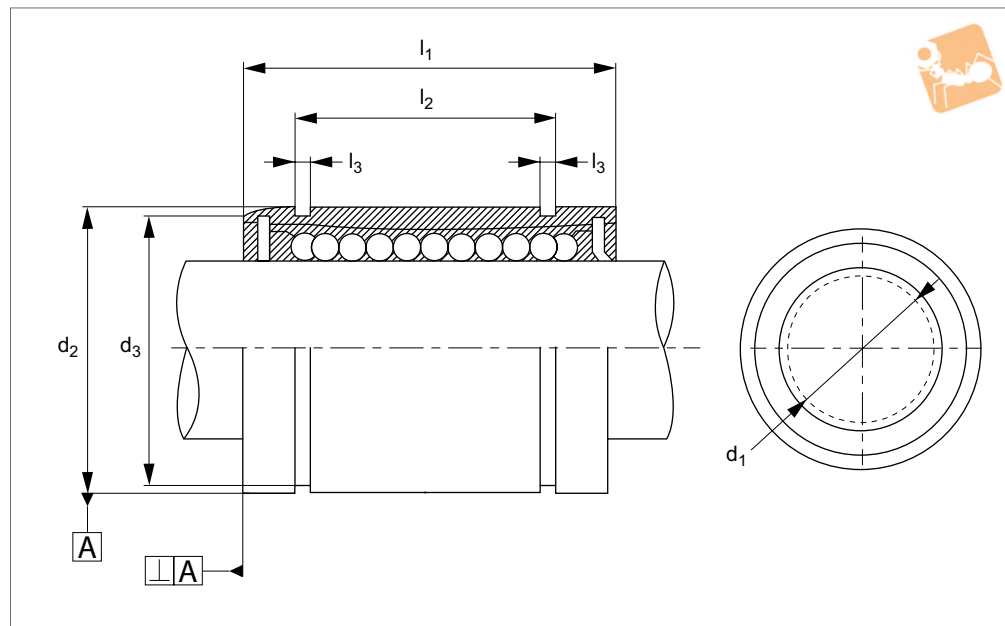
Replace xxxx with desired rail length
eg.L1375.16-05-1000 is 1000mm long.

Important Notes
Ensure the ball nut can be fitted to the ball screw after machining.
Do not remove the ball nut from the sleeve prior to installation - the balls come free rendering the ball nut unusable.
d3 = pitch diameter.

Order No.	Screw dia. x lead	Lead w ₁	d ₁	d ₂	d ₃	l ₁	Mass moment of inertia kg·m ²	Weight kg
L1375.16-05-xxxx	16x5	5	17.08	16	13.9	500	4.45x10 ⁻⁵	0.71
L1375.16L05-xxxx	16x5	5	17.08	16	13.9	600	4.45x10 ⁻⁵	0.71
L1375.20-05-xxxx	20x5	5	21.08	20	17.9	800	1.12x10 ⁻⁴	1.18
L1375.20L-05-xxxx	20x5	5	21.08	20	17.9	1000	1.12x10 ⁻⁴	1.18
L1375.25-05-xxxx	25x5	5	26.08	25	22.9	1500	2.62x10 ⁻⁴	1.80
L1375.25L-05-xxxx	25x5	5	26.08	25	22.9	2000	2.62x10 ⁻⁴	1.80
L1375.32-05-xxxx	32x5	5	33.08	32	29.9	2500	7.25x10 ⁻⁴	2.99
L1375.32L-05-xxxx	32x5	5	33.08	32	29.9	3000	7.25x10 ⁻⁴	2.99
L1375.40-10-xxxx	40x10	5	41.08	40	37.9	500	1.18x10 ⁻⁴	4.72
L1375.40L-10-xxxx	40x10	5	41.08	40	37.9	600	1.18x10 ⁻³	4.72
L1375.50-10-xxxx	50x10	5	52.15	50	45.8	800	4.19x10 ⁻³	7.18
L1375.63-10-xxxx	63x10	10	65.15	63	58.8	1000	1.09x10 ⁻²	11.56
L1375.80-10-xxxx	80x10	10	82.15	80	75.8	1500	2.89x10 ⁻²	18.88



L1706



Material

Hardened and ground body from bearing steel. Single body resin retainer (POM). Supplied with nitrile rubber (NBR) end-seals -UU as standard.

Technical Notes

For use with hardened shafts only (see part nos. L1770 - L1772) - tolerance h6.

Perpendicularity .A is better than 15μ.

For part numbers with ⁻¹ shaft tolerance required is g6. Temperature range: -20°C to +80°C.

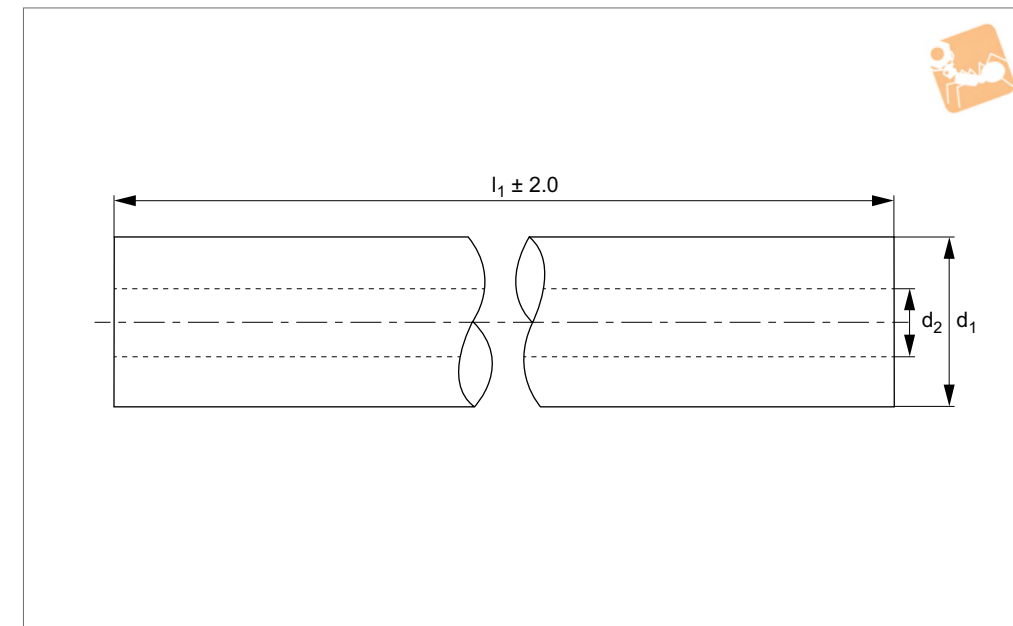
Steel ball retainers can be supplied for higher temperature applications up to 120°C - with no end seals. Please advise at time of ordering if this is required.

Tips

Superball linear bearings are also available (3 x load rating of standard bushings and 27 x travel life see part nos. L1740 and L1742.)

Nickel plated version with stainless steel balls (for corrosion resistance) on request - or stainless steel version no. L1709.

Order No.	d ₁ tol. h6	d ₂ tol. h6	l ₁ +0 -0.3	d ₃	l ₂ +0 -0.3	l ₃	No. of ball circuits	Dyn. load C N max.	Static load C ₀ N max.	Weight g
L1706.005	5	12	22	11.5	14.5	1.10	4	200	260	12
L1706.006-1	6	12	19	11.5	13.5	1.10	4	200	260	8
L1706.008	8	16	25	15.2	16.5	1.10	4	260	400	20
L1706.010-1	10	19	29	18.0	22.0	1.30	4	370	540	30
L1706.012	12	22	32	21.0	22.9	1.30	4	410	590	41
L1706.016	16	26	36	24.9	24.9	1.30	5	770	1170	57
L1706.020	20	32	45	30.3	31.5	1.60	5	860	1370	91
L1706.025	25	40	58	37.5	44.1	1.85	6	980	1560	215
L1706.030	30	47	68	44.5	52.1	1.85	6	1560	2740	325
L1706.040	40	62	80	59.0	60.6	2.15	6	2150	4010	705
L1706.050	50	75	100	72.0	77.6	2.65	6	3820	7930	1130
L1706.060	60	90	125	86.5	101.7	3.15	6	4700	9990	2220



L1771

Material

Carbon steel (C60), surface hardness 60-65 HRC. Surface finish 0.3-0.6μ Ra, ground and polished to 8-12 cla.

Technical Notes

Used in linear bearing and guideway systems where weight reduction is important.

Tolerance, h6 standard, special tolerances upon request.

Suitable for use with linear bearings.

Straightness 0.2mm/m.

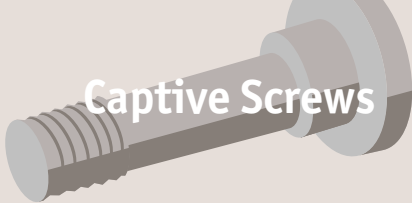
**Replace xxxx with desired shaft length
eg. L1771.06-1000 is 1000mm long.**

Tips

Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.

Shaft lengths are cut to typically ± 2mm, ends are not hardened.

Order No.	d ₁ tol. h6	l ₁ max.	d ₂	Depth of hardness min.
L1771.12-xxxx	12	100	4	0.4
L1771.16-xxxx	16	150	7	0.4
L1771.20-xxxx	20	200	14	0.4
L1771.25-xxxx	25	250	15	0.4
L1771.30-xxxx	30	300	18	0.6
L1771.40-xxxx	40	350	28	0.6
L1771.50-xxxx	50	400	28	0.6



Captive Screws

Captive Screws - Cap Head hex drive

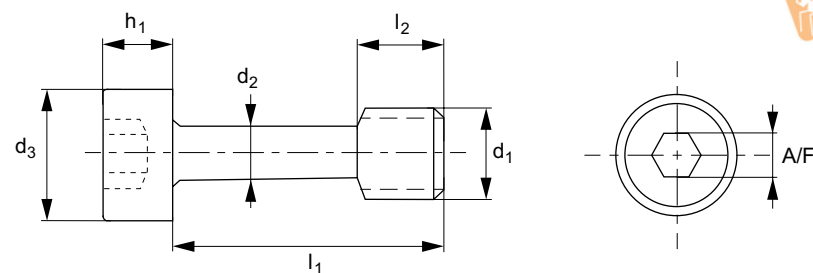


Steel Clevis Joints silver zinc plated

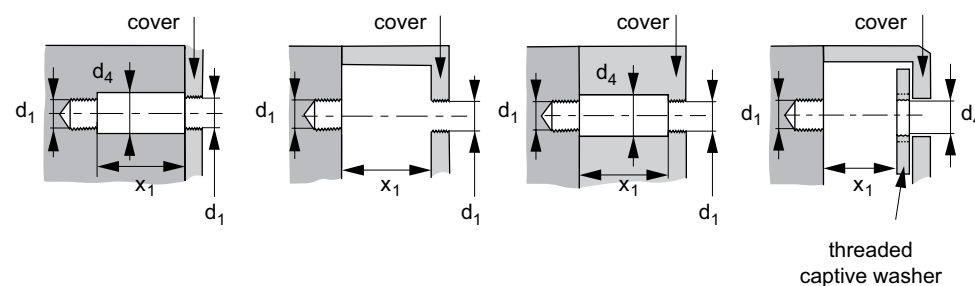
Clevis Joints & Clips



P0154



application examples :-
counterbore length 'x₁' should be > l₂



Material

Available in a range of materials; replace XX with -A2 for 303 stainless, -A4 for 316 stainless, -B2 for blackened 303 stainless, -B4 for blackened 316 stainless, -BL for blackened steel, -Ti for Titanium and -ZP for steel, zinc plated. Also available on request in steel (anodised, black oxide or zinc plated), stainless steel (AISI 303, 1.4305), brass, aluminium etc.

Technical Notes

Used to comply with the Machinery Directive 2006/42/EC. Generally to ISO 4762. Often used with our captive washers (P0168) or retaining flanges (P0169.A2 - for sheet metal applications). The use of our captive washers (P0168) should be considered when fitted in panels with unthreaded holes.

Tips

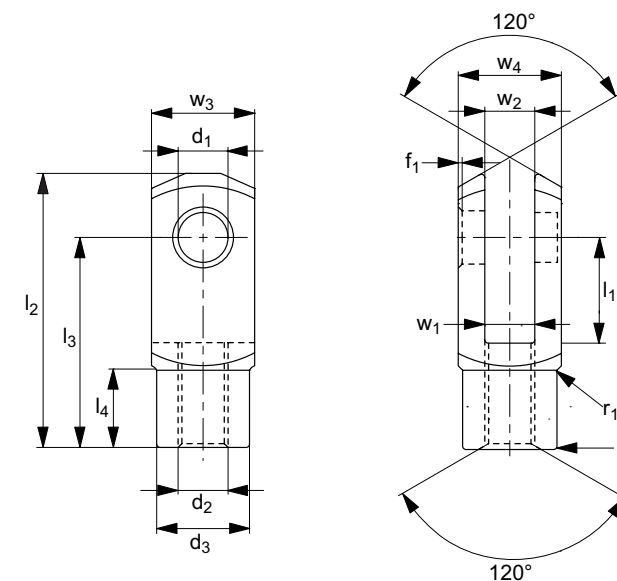
For TX drive style, see P0156.

Important Notes

Please note that these screws have a reduced diameter shank and should not be tightened to the recommended torque for an equivalent machine screw of size d₁.

More sizes available on our website.

Order No.	d ₁	l ₁ ±0.25	d ₂ ±0.12	d ₃ max.	d ₄ min.	h ₁ max.	l ₂ ±0.25	A/F
P0154.025-005-XX	M 2.5	5	1.8	4.5	2.8	2.5	3.0	2.0
P0154.025-008-XX	M 2.5	8	1.8	4.5	2.8	2.5	3.0	2.0
P0154.025-010-XX	M 2.5	10	1.8	4.5	2.8	2.5	3.0	2.0
P0154.025-012-XX	M 2.5	12	1.8	4.5	2.8	2.5	3.0	2.0
P0154.030-008-XX	M 3	8	2.0	5.5	3.5	3.0	4.5	2.5
P0154.030-010-XX	M 3	10	2.0	5.5	3.5	3.0	4.5	2.5
P0154.030-012-XX	M 3	12	2.0	5.5	3.5	3.0	4.5	2.5
P0154.030-016-XX	M 3	16	2.0	5.5	3.5	3.0	4.5	2.5
P0154.030-020-XX	M 3	20	2.0	5.5	3.5	3.0	4.5	2.5
P0154.030-025-XX	M 3	25	2.0	5.5	3.5	3.0	4.5	2.5
P0154.030-030-XX	M 3	30	2.0	5.5	3.5	3.0	4.5	2.5
P0154.040-010-XX	M 4	10	2.8	7.0	4.5	4.0	6.0	3.0
P0154.040-012-XX	M 4	12	2.8	7.0	4.5	4.0	6.0	3.0
P0154.040-016-XX	M 4	16	2.8	7.0	4.5	4.0	6.0	3.0
P0154.040-020-XX	M 4	20	2.8	7.0	4.5	4.0	6.0	3.0
P0154.040-025-XX	M 4	25	2.8	7.0	4.5	4.0	6.0	3.0
P0154.040-030-XX	M 4	30	2.8	7.0	4.5	4.0	6.0	3.0



Material

Steel 1.0718 (11SMnPb30k), silver zinc plated.

Technical Notes

M4-M16: DIN 71 752/DIN ISO 8140.
M18-M48: Similar to DIN 71 752/DIN ISO 8140 and according to CETOP standard.

Tips

For left hand, see R3386.

Important Notes

For sizes M4-M12, f₁ and r₁=0.5, for sizes M14-M16, f₁ and r₁=1
For sizes M18-M20, f₁=1, r₁=1.5, for M24 f₁ and r₁=1.5, for sizes M27-M30, f₁=1.5, r₁=2
For M36 f₁=2, r₁=3, for sizes M42-M48, f₁=3, r₁=5, for r₁, radius or 45° bevelling.
Other Tolerances:-
w₄: M4-M16 = +0.3 -0.16

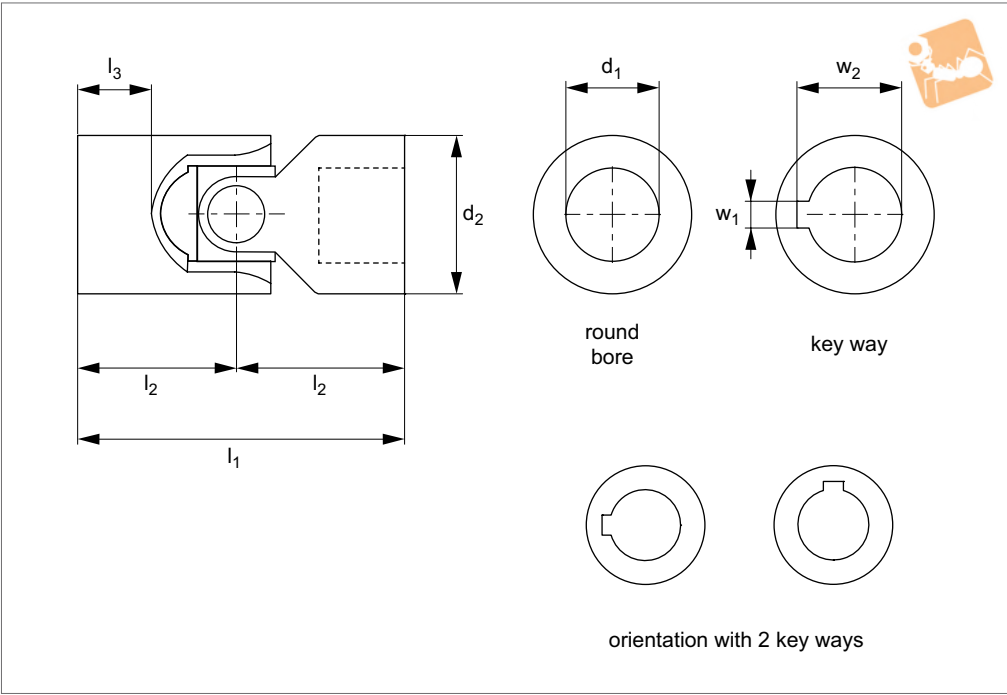
M18-M48 = +0.5 -0.2
w₂: size 4x8-10x2. = B13
All others +0.7 +0.15
d₃: M4-M16 = ±0.3
l₂: size 4x8-6x12 = ±0.3
All others ±0.4
l₃: M4-M16 = ±0.2
M18-M48 = ±0.3
r₁: M18-M48 = ±0.5
More sizes available on our website.

Order No.	Size	Thread hand	Thread type	d ₁ tol. H9	l ₁ ±0.5	d ₂	Weight g
R3385.R040	4x8	Right	Coarse	4	8	M 4	5
R3385.R041	4x16	Right	Coarse	4	16	M 4	7
R3385.R051	5x10	Right	Coarse	5	10	M 5	9
R3385.R052	5x20	Right	Coarse	5	20	M 5	13
R3385.R061	6x12	Right	Coarse	6	12	M 6	15
R3385.R062	6x24	Right	Coarse	6	24	M 6	21
R3385.R081	8x16	Right	Coarse	8	16	M 8	37
R3385.R082	8x16	Right	Fine	8	16	M 8x1	37
R3385.R083	8x32	Right	Coarse	8	32	M 8	54
R3385.R084	8x32	Right	Fine	8	32	M 8x1	54
R3385.R102	10x20	Right	Coarse	10	20	M 10	74
R3385.R103	10x20	Right	Fine	10	20	M 10x1.25	74
R3385.R104	10x40	Right	Coarse	10	40	M 10	116
R3385.R105	10x40	Right	Fine	10	40	M 10x1.25	116
R3385.R122	12x24	Right	Coarse	12	24	M 12	121
R3385.R123	12x24	Right	Fine	12	24	M 12x1.25	121
R3385.R124	12x48	Right	Coarse	12	48	M 12	175
R3385.R125	12x48	Right	Fine	12	48	M 12x1.25	175
R3385.R142	14x28	Right	Coarse	14	28	M 14	178
R3385.R143	14x28	Right	Fine	14	28	M 14x1.5	178
R3385.R145	14x56	Right	Coarse	14	56	M 14	258
R3385.R146	14x56	Right	Fine	14	56	M 14x1.5	258
R3385.R163	16x32	Right	Coarse	16	32	M 16	282
R3385.R164	16x32	Right	Fine	16	32	M 16x1.5	282
R3385.R166	16x64	Right	Coarse	16	64	M 16	411
R3385.R167	16x64	Right	Fine	16	64	M 16x1.5	411
R3385.R183	18x36	Right	Coarse	18	36	M 18	390
R3385.R184	18x36	Right	Fine	18	36	M 18x1.5	390



Order No.	Size	Thread hand	Thread type	d ₁ tol. H9	l ₁ ±0.5	d ₂	Weight g
R3385.R204	20x40	Right	Coarse	20	40	M 20	550
R3385.R205	20x40	Right	Fine	20	40	M 20x1.5	550
R3385.R208	20x80	Right	Coarse	20	80	M 20	800
R3385.R209	20x80	Right	Fine	20	80	M 20x1.5	800
R3385.R255	25x50	Right	Coarse	25	50	M 24	1100
R3385.R256	25x50	Right	Fine	25	50	M 24x2	1100
R3385.R285	28x56	Right	Coarse	28	56	M 27	1500
R3385.R286	28x56	Right	Fine	28	56	M 27x2	1500
R3385.R305	30x54	Right	Fine	30	54	M 27x2	1440
R3385.R306	30x60	Right	Coarse	30	60	M 30	1970
R3385.R307	30x60	Right	Fine	30	60	M 30x2	1970
R3385.R355	35x54	Right	Fine	35	54	M 36x2	2930
R3385.R357	35x72	Right	Coarse	35	72	M 36	2930
R3385.R358	35x72	Right	Fine	35	72	M 36x2	2930
R3385.R367	36x72	Right	Coarse	35	72	M 36	2930
R3385.R368	36x72	Right	Fine	35	72	M 36x2	2930

Order No.	d ₃	l ₂ ±0.5	l ₃	l ₄	w ₁ tol. B13	w ₂	w ₃ tol. h11	w ₄
R3385.R040	8	21	16	6.0	4	4	8	8
R3385.R041	8	29	24	6.0	4	4	8	8
R3385.R051	9	26	20	7.5	5	5	10	10
R3385.R052	9	36	30	7.5	5	5	10	10
R3385.R061	10	31	24	9.0	6	6	12	12
R3385.R062	10	43	36	9.0	6	6	12	12
R3385.R081	14	42	32	12.0	8	8	16	16
R3385.R082	14	42	32	12.0	8	8	16	16
R3385.R083	14	58	48	12.0	8	8	16	16
R3385.R084	14	58	48	12.0	8	8	16	16
R3385.R102	18	52	40	15.0	10	10	20	20
R3385.R103	18	52	40	15.0	10	10	20	20
R3385.R104	18	72	60	15.0	10	10	20	20
R3385.R105	18	72	60	15.0	10	10	20	20
R3385.R122	20	62	48	18.0	12	12	24	24
R3385.R123	20	62	48	18.0	12	12	24	24
R3385.R124	20	86	72	18.0	12	12	24	24
R3385.R125	20	86	72	18.0	12	12	24	24
R3385.R142	24	72	56	22.5	14	14	27	27
R3385.R143	24	72	56	22.5	14	14	27	27
R3385.R145	24	101	85	22.5	14	14	27	27
R3385.R146	24	101	85	22.5	14	14	27	27
R3385.R163	26	83	64	24.0	16	16	32	32
R3385.R164	26	83	64	24.0	16	16	32	32
R3385.R166	26	115	96	24.0	16	16	32	32
R3385.R167	26	115	96	24.0	16	16	32	32
R3385.R183	30	94	72	27.0	18	18	36	36
R3385.R184	30	94	72	27.0	18	18	36	36
R3385.R204	34	105	80	30.0	20	20	40	40
R3385.R205	34	105	80	30.0	20	20	40	40
R3385.R208	34	145	120	30.0	20	20	40	40
R3385.R209	34	145	120	30.0	20	20	40	40
R3385.R255	42	132	100	36.0	25	25	50	50
R3385.R256	42	132	100	36.0	25	25	50	50
R3385.R285	48	148	112	40.0	28	28	55	55
R3385.R286	48	148	112	40.0	28	28	55	55
R3385.R305	48	148	110	40.0	30	30	55	55
R3385.R306	52	160	120	42.0	30	30	60	60
R3385.R307	52	160	120	42.0	30	30	60	60
R3385.R355	60	188	144	54.0	35	35	70	70
R3385.R357	60	188	144	54.0	35	35	70	70
R3385.R358	60	188	144	54.0	35	35	70	70
R3385.R367	60	188	144	54.0	36	36	70	70
R3385.R368	60	188	144	54.0	36	36	70	70



R3689

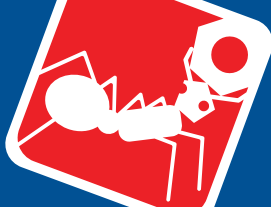
Material
Steel (9SMnPb28k, no. 10718).
Bearing type: plain bearing.

Maximum bending angle 45° per joint.
Max. drive speed of 1000 rpm.

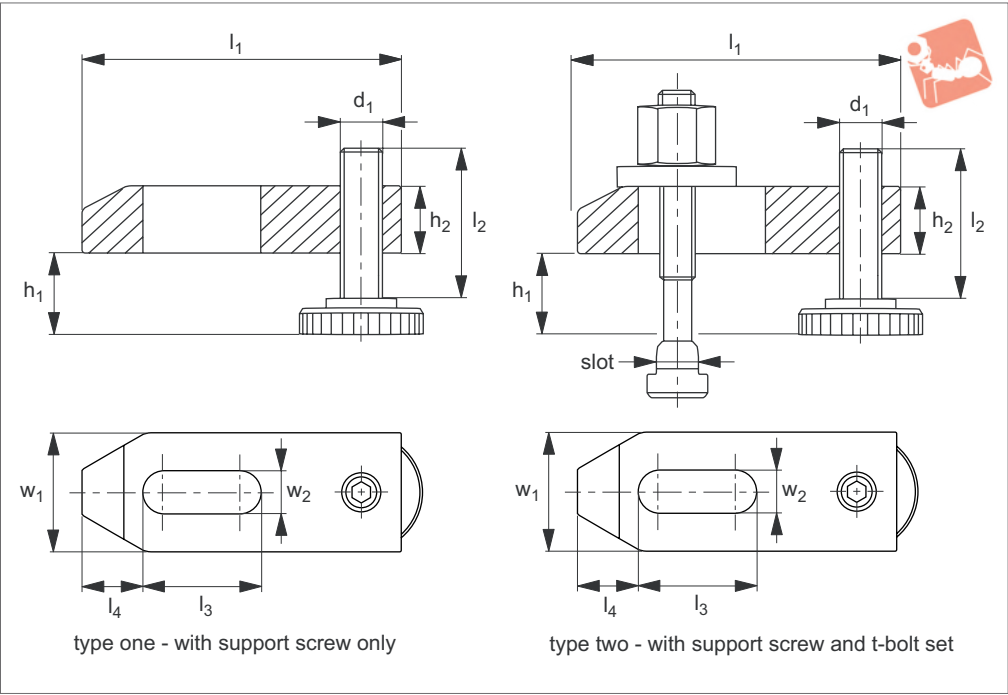
Tips
Single universal joints are used where shafts are off-set towards each other.

Product variations available on request, for square bores change the suffix to SB for square bores or HB for hex bores.
For stainless steel see R3694.
Additional bores available on our website.

Order No.	Bore dia.	d ₁ tol. H7	d ₂	l ₁	l ₂	l ₃	w ₁ tol. JS9	w ₂	Weight g
R3689.006-RB	Round Bore	6	16	34	17.0	8	-	-	50
R3689.008-RB	Round Bore	8	16	40	20.0	11	-	-	50
R3689.010-RB	Round Bore	10	22	48	24.0	12	-	-	100
R3689.012-RB	Round Bore	12	25	56	28.0	13	-	-	160
R3689.014-RB	Round Bore	14	28	60	30.0	14	-	-	200
R3689.016-RB	Round Bore	16	32	68	34.0	16	-	-	300
R3689.018-RB	Round Bore	18	36	74	37.0	17	-	-	450
R3689.020-RB	Round Bore	20	42	82	41.0	18	-	-	600
R3689.022-RB	Round Bore	22	45	95	47.5	22	-	-	950
R3689.025-RB	Round Bore	25	50	108	54.0	26	-	-	1200
R3689.030-RB	Round Bore	30	58	122	61.0	29	-	-	1850
R3689.032-RB	Round Bore	32	58	130	65.0	33	-	-	2000
R3689.035-RB	Round Bore	35	70	140	70.0	35	-	-	3150
R3689.040-RB	Round Bore	40	80	160	80.0	39	-	-	4600
R3689.050-RB	Round Bore	50	95	190	95.0	46	-	-	7600
R3689.006-KW	With Keyway	6	16	34	17.0	8	2	7.0	50
R3689.008-KW	With Keyway	8	16	40	20.0	11	2	9.0	50
R3689.010-KW	With Keyway	10	22	48	24.0	12	3	11.4	100
R3689.012-KW	With Keyway	12	25	56	28.0	13	4	13.8	160
R3689.014-KW	With Keyway	14	28	60	30.0	14	5	16.3	200
R3689.016-KW	With Keyway	16	32	68	34.0	16	5	18.3	300
R3689.018-KW	With Keyway	18	36	74	37.0	17	6	20.8	450
R3689.020-KW	With Keyway	20	42	82	41.0	18	6	22.8	600
R3689.022-KW	With Keyway	22	45	95	47.5	22	6	24.8	950
R3689.025-KW	With Keyway	25	50	108	54.0	26	8	28.3	1200
R3689.030-KW	With Keyway	30	58	122	61.0	29	8	33.3	1850
R3689.032-KW	With Keyway	32	58	130	65.0	33	10	35.3	2000
R3689.035-KW	With Keyway	35	70	140	70.0	35	10	38.3	3150



10400



Material
Heat-treated steel, enamelled.

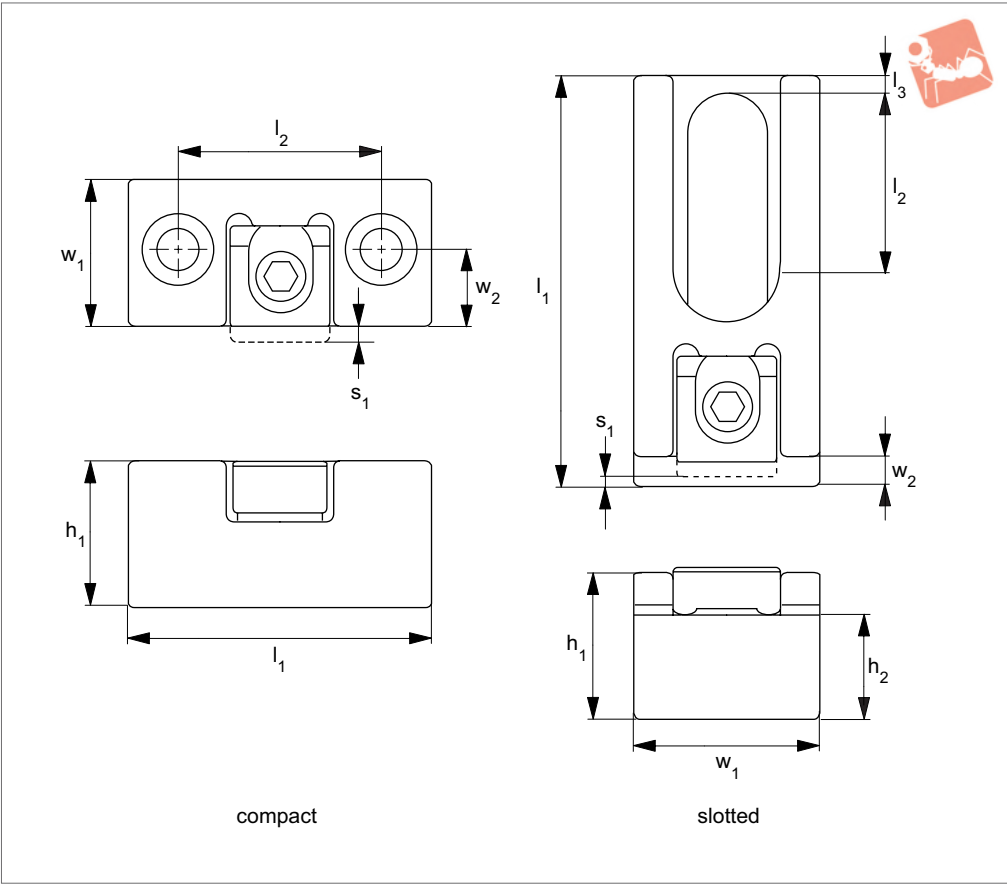
Technical Notes
Type One -clamp and support screw only.
Type Two -clamp, support screw and t-bolt set.

h* - dependent on depth of slot and position of fixture nut.

Tips
Often used for clamping press tools.
Used with:
10680 Ratchet clamp lever.

21000 T-Slot bolt.
24400 Collar Nut.
25000 Plain washer.
Replacement Parts:
Replacement support screw see part no. 10410.

Order No.	Type	For bolt	Supplied T-bolt	T-slot size	d ₁ x l ₂	h ₁	h ₂	l ₃	l ₄	w ₁	w ₂ x l ₁	Weight g
10400.W0010	One	M 10	-	-	M 10x39	8-37	15	30	15	30	11x80	200
10400.W0012	One	M 12, M 14	-	-	M 12x49	10-47	20	40	21	40	14x100	560
10400.W0014	One	M 12, M 14	-	-	M 12x94	10-92	20	40	21	40	14x100	635
10400.W0016	One	M 16, M 18	-	-	M 16x55	13-52	25	45	26	50	18x125	1110
10400.W0018	One	M 16, M 18	-	-	M 16x90	13-87	25	45	26	50	18x125	1230
10400.W0020	One	M 20, M 22	-	-	M 20x69	16-65	30	60	30	60	22x160	2050
10400.W0022	One	M 20, M 22	-	-	M 20x109	16-105	30	60	30	60	22x160	2230
10400.W0024	One	M 24	-	-	M 24x87	20-83	30	80	35	70	26x200	3200
10400.W0026	One	M 24	-	-	M 24x137	20-133	30	80	35	70	26x200	3470
10400.W0028	One	M 24	-	-	M 24x87	20-80	35	105	35	70	26x250	4340
10400.W0030	One	M 24	-	-	M 24x137	20-130	35	105	35	70	26x250	4520
10400.W0032	One	M 30	-	-	M 30x180	24-150	50	130	45	80	33x315	11215
10400.W0034	One	M 36, M 42	-	-	M 30x180	24-150	80	170	80	100	43x400	24350
10400.W0110	Two	M 10	M 10x10x80	10	M 10x39	08-32	15	30	15	30	11x80	340
10400.W0112	Two	M 12, M 14	M 12x12x100	12	M 12x49	10-40	20	40	21	40	14x100	700
10400.W0114	Two	M 12, M 14	M 12x14x100	14	M 12x49	10-38	20	40	21	40	14x100	720
10400.W0115	Two	M 12, M 14	M 12x14x160	14	M 12x94	23-92	20	40	21	40	14x100	845
10400.W0116	Two	M 16, M 18	M 16x16x125	16	M 16x55	13-48	25	45	26	50	18x125	1400
10400.W0117	Two	M 16, M 18	M 16x16x160	16	M 16x90	15-83	25	45	26	50	18x125	1610
10400.W0118	Two	M 16, M 18	M 16x18x125	18	M 16x55	13-46	25	45	26	50	18x125	1400
10400.W0119	Two	M 16, M 18	M 16x18x160	18	M 16x90	13-81	25	45	26	50	18x125	1630
10400.W0120	Two	M 20, M 22	M 20x20x160	20	M 20x69	16-65	30	60	30	60	22x160	2600
10400.W0121	Two	M 20, M 22	M 20x20x200	20	M 20x109	21-105	30	60	30	60	22x160	2930
10400.W0122	Two	M 20, M 22	M 20x22x160	22	M 20x69	16-65	30	60	30	60	22x160	2770
10400.W0123	Two	M 20, M 22	M 20x22x200	22	M 20x109	19-105	30	60	30	60	22x160	2980
10400.W0124	Two	M 24	M 24x28x200	28	M 24x87	20-80	35	105	35	70	26x250	5486
10400.W0125	Two	M 24	M 24x28x250	28	M 24x137	30-130	35	105	35	70	26x250	5716
10400.W0126	Two	M 30	M 30x36x315	36	M 30x180	24-150	50	130	45	80	33x315	11995
10400.W0127	Two	M 36, M 42	M 36x42x400	42	M 30x180	24-150	80	170	80	100	43x100	25683
10400.W0113	Two	M 12, M 14	M 12x12x160	12	M 12x49	24-92	20	40	21	40	14x100	830



12033.1

Material
Body: steel hardened and ground with pitbull clamps insert (part no. 12031).

Technical Notes
Designed to be used in fixtures, on cubes etc. The slotted version has a clamp step to support the workpiece off the machine table for through milling or drilling. The height of the clamp can be adjusted by varying the depth of the milled slot used to

locate the clamp.
Tips
The compact version is ideal for clamping workpieces in series using the back surface of clamp to locate the next workpiece. Back of clamp is ground square to the bottom for precise part location.

Order No.	Body type	Clamp type	h ₁	h ₂	l ₁	l ₂	l ₃	Stroke s ₁	w ₁	w ₂	Torque to Nm	Clamping force kN	Mounting screw	Replacement clamps 12031	Weight g
12033.W0020	Compact	Knife	25.1	-	57.1	38.1	-	0.6	31.2	15.7	22.5	16	M 8	.W0050	
12033.W0025	Compact	Blunt	25.1	-	57.1	38.1	-	0.6	31.2	15.7	22.5	16	M 8	.W0060	
12033.W0030	Compact	Knife	31.5	-	68.6	47.0	-	1.3	37.6	18.8	40.6	26	M10	.W0070	
12033.W0035	Compact	Blunt	31.5	-	68.6	47.0	-	1.3	37.6	18.8	40.6	26	M10	.W0075	
12033.W0040	Slotted	Knife	25.1	18.5	103.6	43.2	12.7	0.6	31.7	9.1	22.5	16	M12	.W0050	12.7
12033.W0045	Slotted	Blunt	25.1	18.5	103.6	43.2	12.7	0.6	31.7	9.1	22.5	16	M12	.W0060	12.7
12033.W0050	Slotted	Knife	40.9	35.0	107.0	37.6	10.9	1.3	38.1	9.1	40.6	26	M16	.W0075	10.9
12033.W0055	Slotted	Blunt	40.9	35.0	107.0	37.6	10.9	1.3	38.1	9.1	40.6	26	M16	.W0075	10.9

Index Plunger
& Pins

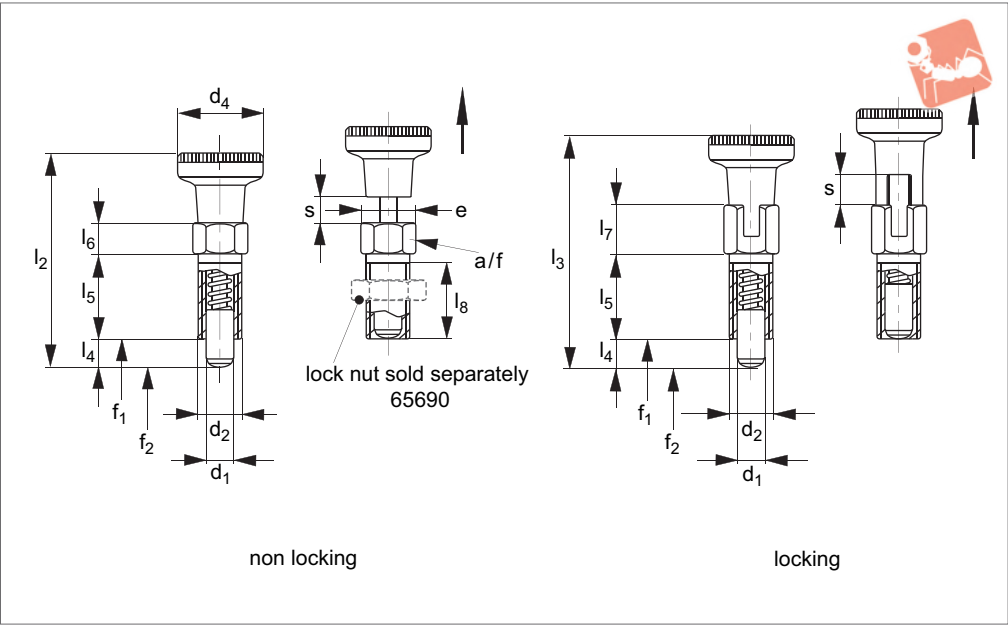
Index Plungers - Pull Grip
steel - coarse thread

Lifting Pins-Self-Locking
with t-handle - stainless steel

Quick Lift Pins



32570



Material
Body: steel, galvanized.
Pin: stainless steel 1.4305 (AISI 303).
Grip: thermoplastic PA 6, black.

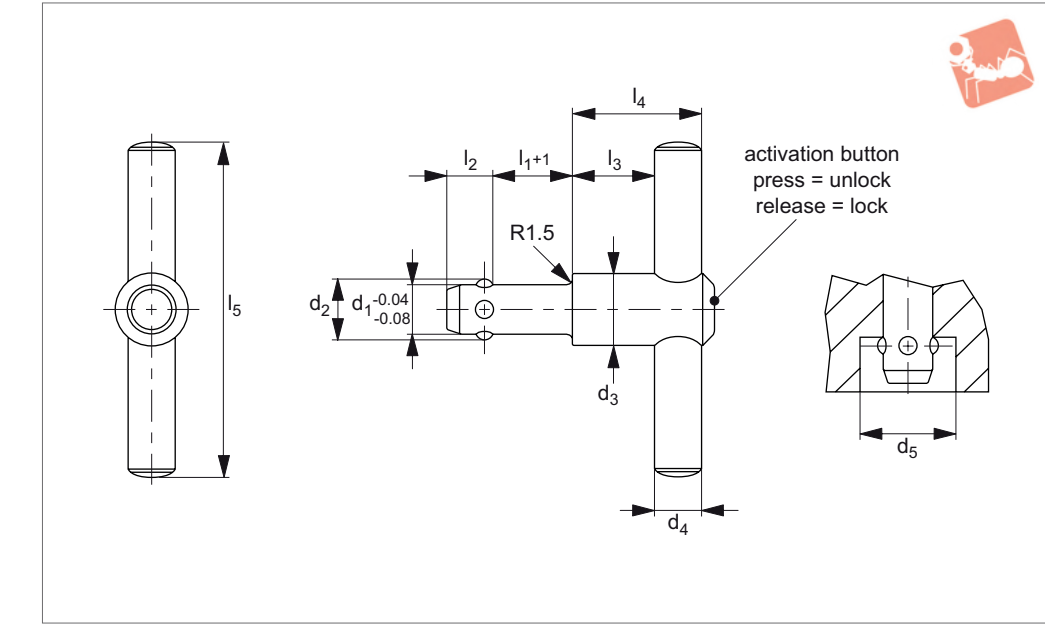
Technical Notes
„Locking” type- enable pin to be held in retracted/non-projecting position; pull

back grip, turn 90° to engage „locking” on a notched catch.
„Non Locking” type- pin simply springs back when grip released.
For applications where high precision is not required.
Coarse thread.
Temperature resistance -30° C to +80° C.

Lock nuts sold separately.
See product 65690.
Tips
Grip non-removable.
Spring loads * = statistical average.

Order No.	Type	Material	d ₁	d ₂	d ₄	l ₂	l ₃	Weight g
32570.W0743	Non Lock	-	3	M 6x1.00	12	30.0	-	3.6
32570.W0744	Non Lock	Steel	4	M 6x1.00	12	30.5	-	4.0
32570.W0745	Non Lock	Steel	5	M 8x1.25	16	40.0	-	9.2
32570.W0746	Non Lock	Steel	6	M 10x1.50	18	49.0	-	18.0
32570.W0748	Non Lock	Steel	8	M 12x1.75	21	59.0	-	32.0
32570.W0763	Lock	-	3	M 6x1.00	12	-	32.5	3.8
32570.W0764	Lock	Steel	4	M 6x1.00	12	-	33.0	4.2
32570.W0765	Lock	Steel	5	M 8x1.25	16	-	43.5	9.8
32570.W0766	Lock	Steel	6	M 10x1.50	18	-	52.0	18.0
32570.W0768	Lock	Steel	8	M 12x1.75	21	-	63.5	32.0

Order No.	l ₄ =s	l ₅	l ₆	l ₇	l ₈	e	A/F	Spring load F ₁ N	Spring load F ₂ N	Tightening torque Nm
32570.W0743	3.5	12	4.5	-	10.0	6.9	6	3	12	2
32570.W0744	4.0	12	4.5	-	10.0	6.9	6	3	12	2
32570.W0745	5.0	16	6.0	-	13.5	9.2	8	5	24	7
32570.W0746	6.0	20	7.5	-	17.0	11.5	10	5	21	15
32570.W0748	8.0	24	9.0	-	20.5	13.8	12	6	22	20
32570.W0763	3.5	12	-	7.0	10.0	6.9	6	3	12	2
32570.W0764	4.0	12	-	7.0	10.0	6.9	6	3	12	2
32570.W0765	5.0	16	-	9.5	13.5	9.2	8	5	24	7
32570.W0766	6.0	20	-	10.5	17.0	11.5	10	5	21	15
32570.W0768	8.0	24	-	13.5	20.5	13.8	12	6	22	20



Material
Pin: Stainless steel 1.4542, (AISI 630) precipitation hardened.
Handle: Aluminium, blue anodised
Spring: Stainless Steel

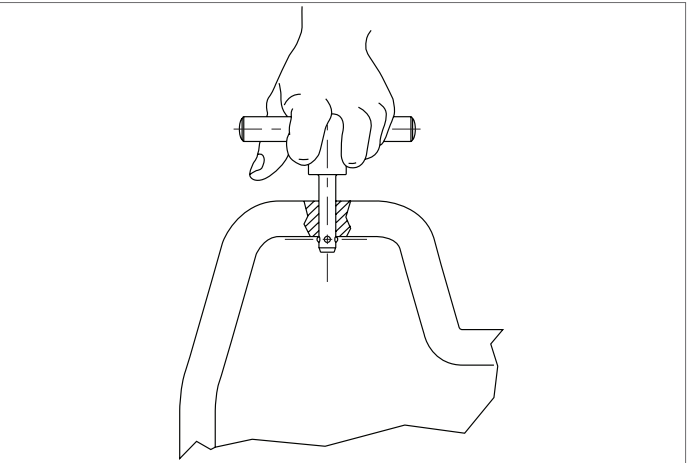
Technical Notes
Pressing= Unlocking.
Releasing= Locking.

Easy installation with plain drilled hole to H11 tolerance
Temperature resistance up to 250° C

Tips
The t-handled grip can be used to move or transport workpieces via hand, e.g. part finished components, work holding systems, speakers and other containers.

Corrosion and weathering resistant, thus also suitable for outdoor application.

Order No.	d ₁ -0.04 -0.08	l ₁ +1	d ₂	d ₃	d ₄	d ₅ min.	l ₂	l ₃	l ₄	l ₅	Carrying force N	Location hole tol. H11	Weight g
33424.W0005	8.0	35	9.35	21.5	14	9.85	8.75	18.7	36.0	100	500	8.0	141
33424.W0010	8.3	35	9.65	21.5	14	10.05	8.75	18.7	36.0	100	500	8.3	142
33424.W0015	10.0	50	11.70	21.5	14	12.20	10.20	18.7	36.5	100	500	10.0	159
33424.W0020	12.0	50	14.20	21.5	14	14.70	11.00	18.7	36.5	100	500	12.0	177

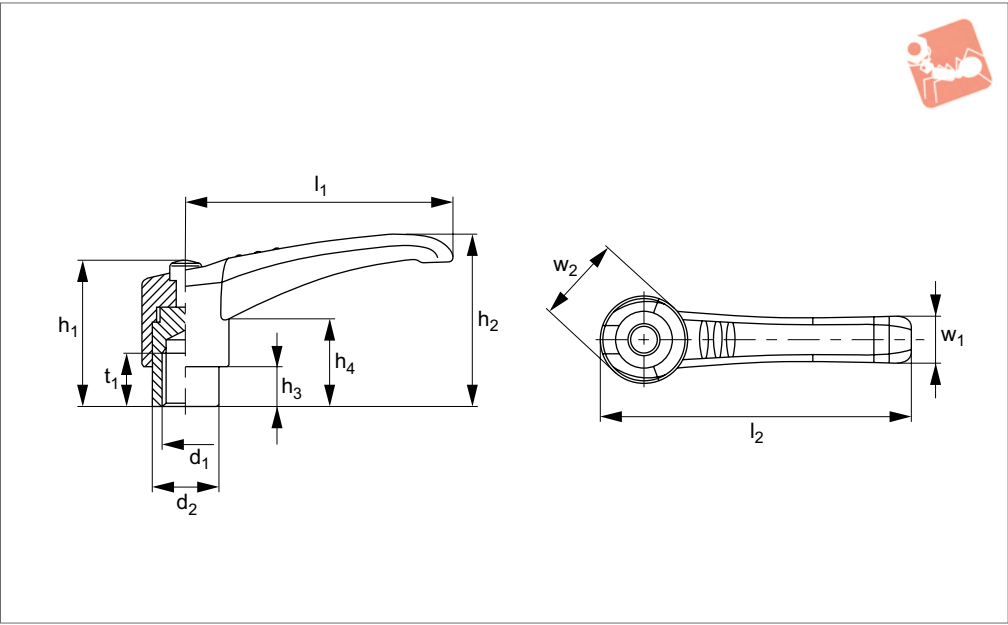


33424

QUICK LIFT PINS



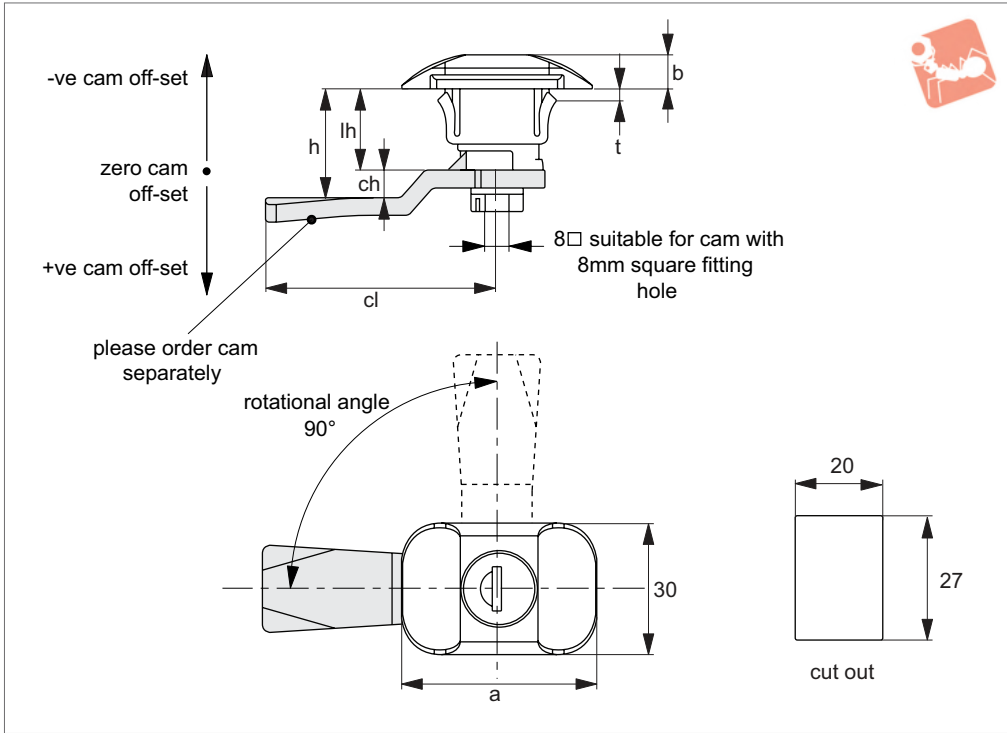
74760



Material
Black, matt thermoplast, reinforced.
Insert: zinc plated steel.

Button: black.
subject to minimum quantities.
Important Notes
Other button colours available on request

Order No.	l_1	d_1	l_2	d_2	h_1	h_2	h_3	h_4	t_1	w_1	w_2	Weight g
74760.W0452	45	M 5	53	12	30	33.5	7.5	18	8	10.5	16	22
74760.W0453	45	M 6	53	12	30	33.5	7.5	18	8	10.5	16	24
74760.W0652	65	M 6	75	15	35	41.0	7.5	19	11	13.5	20	26
74760.W0653	65	M 8	75	15	35	41.0	7.5	19	11	13.5	20	24
74760.W0801	80	M 8	92	20	45	53.0	12.0	26	16	16.5	24	55
74760.W0802	80	M 10	92	20	45	53.0	12.0	26	16	16.5	24	56
74760.W0803	80	M 12	92	20	45	53.0	12.0	26	16	16.5	24	57
74760.W0951	95	M 12	108	21	50	61.0	13.0	30	22	19.0	27	83
74760.W0952	95	M 14	108	21	50	61.0	13.0	30	22	19.0	27	94
74760.W0953	95	M 16	108	21	50	61.0	13.0	30	22	19.0	27	89



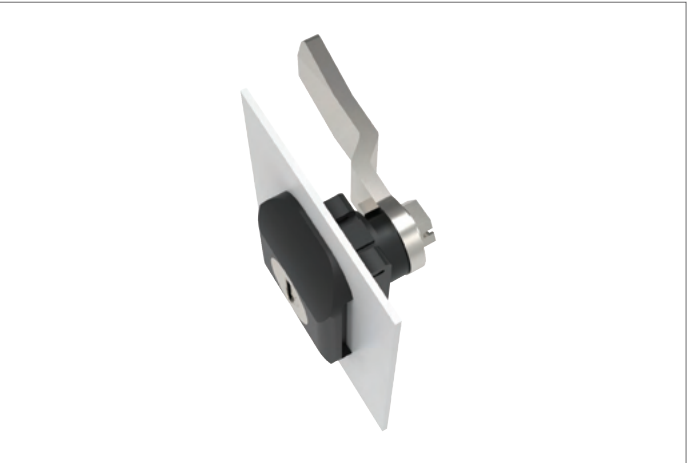
A2005

Material
Cylinder lock: die cast zinc, chrome plated.
Technical Notes
Order cam and key separately.
Cams: see suitable cam A0203, A0224 and A0240. Select „with projection“ cam type. Dimensions ch and cl relate to cam. Use formula to calculate ch (required cam off-

set), and refer to cam selection chart;
 $ch = h - lh$ where;
ch = required cam off-set/height.
h = grip length (distance between inside of latch face and front of cam).
lh = body length of cam latch/lock to be used (see product table below).
Suitable for panel thickness 0,8-2mm

Keys: see A0102.
Tips
Easy snap on fix mounting. Make cut out in panel as shown, and simply push in handle, snap on clips will spring back to securely mount handle.

Order No.	Key type	a	b	t	lh
A2005.AW0010	Keyed Alike	43.0	7.5	0.8-2	17.8
A2005.AW0030	Euro Key	43.0	7.5	0.8-2	17.8





Food Packaging Machinery

Food packaging equipment must combine speed, reliability and hygienic design to maintain continuous production while meeting demanding industry requirements. From product handling and machine adjustment to guarding and wash-down access, every component plays a role in efficient operation.

The Wixroyd Group products support packaging machine builders with durable engineering solutions designed for demanding production environments.

Position & Guide

Accurate product movement ensures consistent packaging results. Linear guides, slides, guide rails and positioning components control the movement of products, tooling and inspection equipment through each stage of the process.

Drive & Index

High-speed packaging relies on synchronised mechanical movement. Timing pulleys, couplings, lead screws and indexing components coordinate machine operations to maintain throughput, accuracy and consistent cycle performance.

Clamp & Hold

Reliable clamping supports quick changeovers and secure adjustment of machine components. Toggle clamps, fixture elements, spring plungers and workholding accessories help position guides, tooling and change parts securely.

Access & Protection

Packaging machinery requires hygienic, easy-to-clean access solutions. Stainless steel handles, hinges, latches, locks and gas struts provide durable access to guards, covers and service areas.

Adjust & Set

Fast product changeovers depend on simple and repeatable adjustment. Levelling feet, handwheels, adjustable handles and position indicators allow operators to quickly configure equipment for different formats.

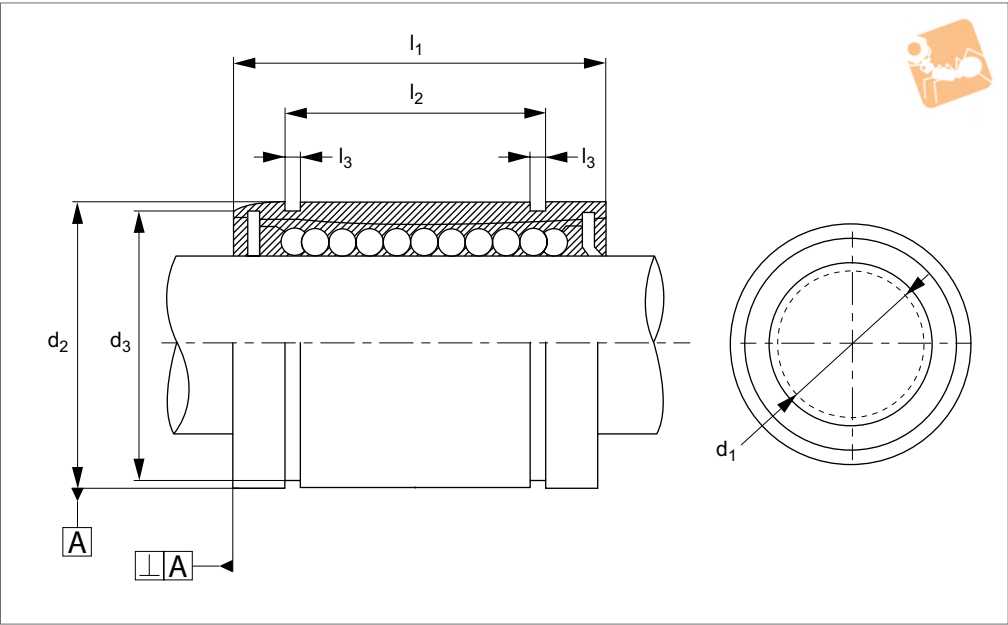
Convey & Transfer

Smooth product flow is essential for efficient packaging lines. Conveyor rollers, guide rails, transfer balls and support components help maintain alignment and move products reliably between packaging stages.

► For technical product information **turn the page**



L1709

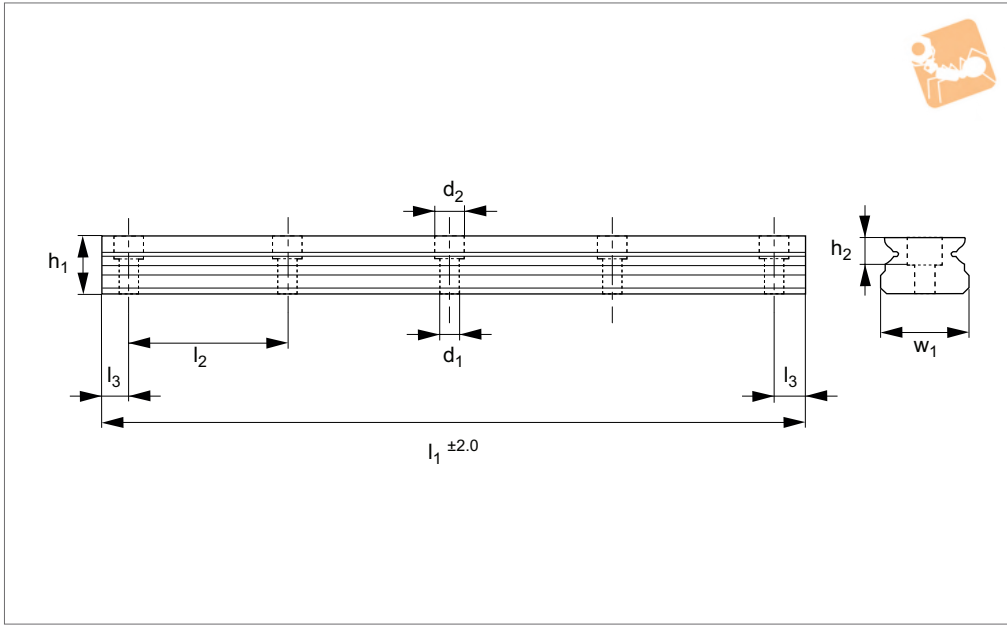


Material
Stainless steel body (440C) with a resin (POM) retainer.
Stainless steel balls (440C).
Supplied with nitrile rubber (NBR) end

seals.
Technical Notes
For use with corrosion resistant hardened shafts (see part no. L1772) - tolerance h6.

Perpendicularity A is better than 15µ.
For part numbers with ⁻¹ shaft tolerance required is g6. Temperature range: For resin ball cage -20°C to +80°C.

Order No.	Ball cage	d ₁ tol. h6	d ₂ tol. h6	l ₁	l ₂	l ₃	d ₃	Dyn. load C N max.	No. of ball circuits	Static load C ₀ N max.	Weight g
L1709.005-RS	Resin	5	12	22	14.5	1.10	11.5	200	4	260	12
L1709.006-RS-1	Resin	6	12	19	13.5	1.10	11.5	200	4	260	8
L1709.008-RS	Resin	8	16	25	16.5	1.10	15.2	260	4	400	20
L1709.010-RS-1	Resin	10	19	29	22.0	1.30	18.0	370	4	540	30
L1709.012-RS	Resin	12	22	32	22.9	1.30	21.0	410	4	590	41
L1709.016-RS	Resin	16	26	36	24.9	1.30	24.9	770	5	1170	57
L1709.020-RS	Resin	20	32	45	31.5	1.60	30.3	860	5	1370	91
L1709.025-RS	Resin	25	40	58	44.1	1.85	37.5	980	6	1560	215
L1709.030-RS	Resin	30	47	68	52.1	1.85	44.5	1584	6	2740	360
L1709.040-RS	Resin	40	62	80	60.6	2.15	59.0	2357	6	4020	770
L1709.050-RS	Resin	50	75	100	77.6	2.65	72.0	4702	6	7940	1250
L1709.060-RS	Resin	60	90	125	101.7	3.15	86.5	6085	6	9800	2220



L1010

Material
Corrosion resistant stainless steel, hardened (similar to 440C).

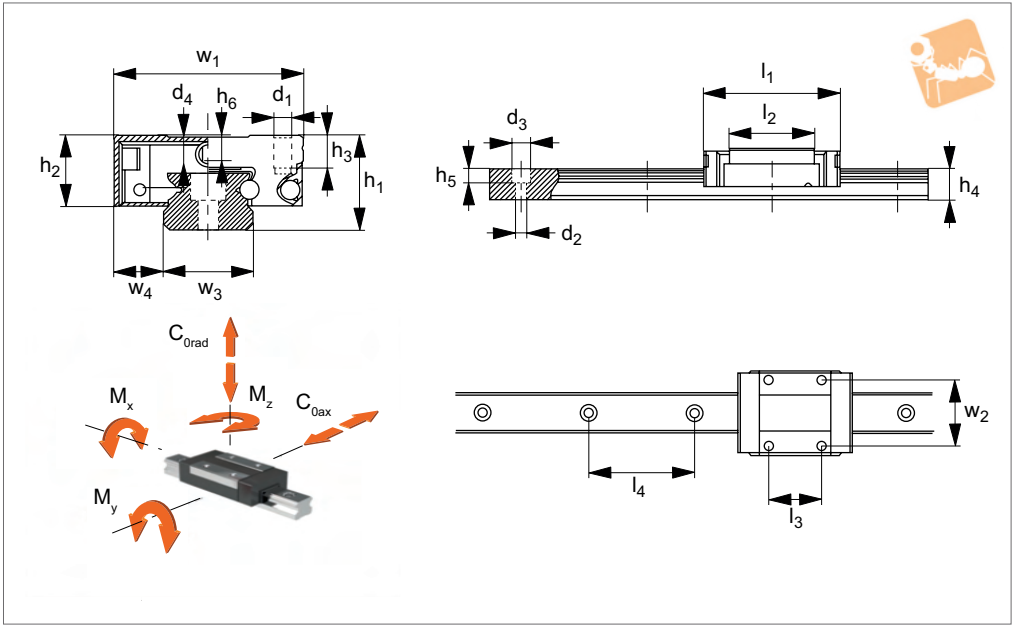
Technical Notes
Supplied with special low profile hex screws.
Select the size and number of carriages to suit the required load (see part L1010.C).
Other rail lengths on request.
Weight: 0.05 Kg/m.

Important Notes
This size rail has a through thread from underside.
Must be ordered with corresponding sized carriage.
Replace xxxx with desired rail length eg. L1010.03-1000 is 1000mm long.

Order No.	w ₁	l ₁ max.	l ₂	l ₃	h ₁	h ₂	d ₁	d ₂	For screws
L1010.03-xxxx	3	1000	10	2.5	2.6	-	-	-	M 1.6
L1010.05-xxxx	5	1000	15	5.0	3.5	1.0	2.4	3.5	M 2
L1010.07-xxxx	7	1000	15	5.0	4.7	2.3	2.4	4.2	M 2
L1010.09-xxxx	9	1000	20	7.5	5.5	3.5	3.5	6.0	M 3
L1010.12-xxxx	12	1000	25	10.0	7.5	4.5	3.5	6.0	M 3
L1010.15-xxxx	15	1000	40	15.0	9.5	4.5	3.5	6.0	M 3



L1010.C



Material
Corrosion resistant stainless steel body (440C), with hardened stainless steel ball bearings.
Black plastic end plates and ball bearing retainers.

Technical Notes
Max.speed 3 m/s.
Max. acceleration 40m/s².

Temperature range -40°C to +80°C.
Select the size and number of carriages to suit the required load then select the required rail length, (see part nos. L1010.07 through to L1010.15).

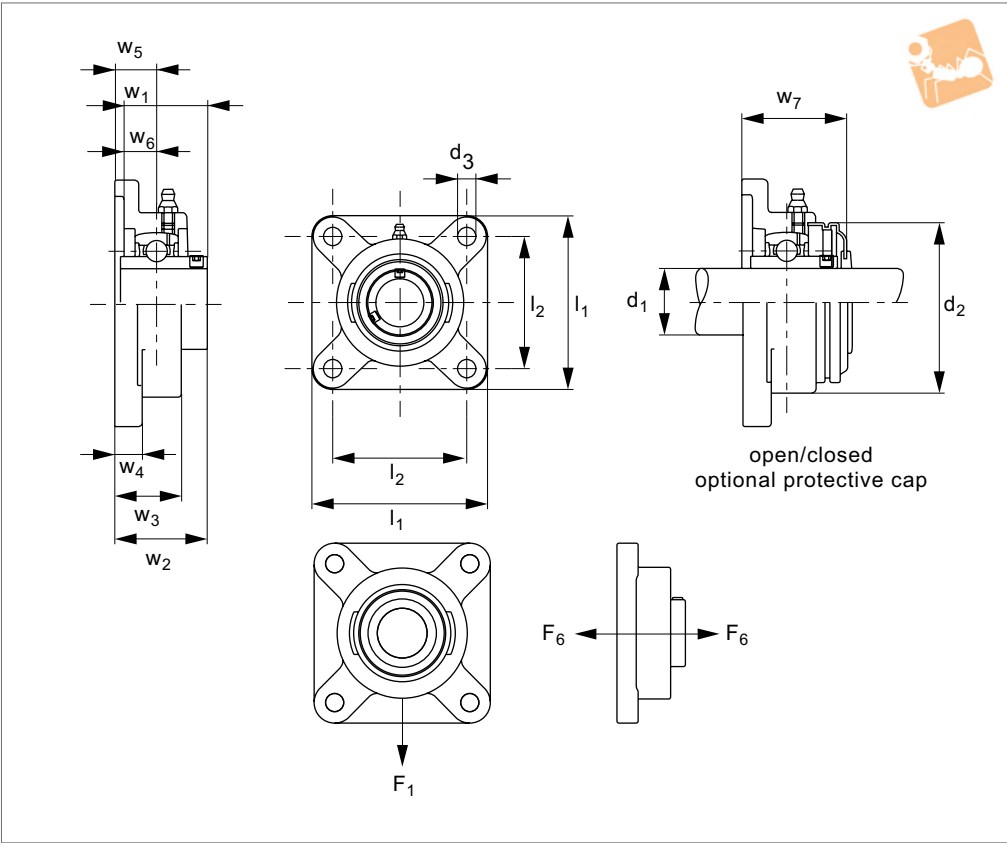
Tips
Carriages are supplied with a dummy plastic rail. When mounting carriages onto rail, slide directly from the dummy rail

onto the steel rail. Do not simply remove the carriage from the dummy rail - the balls will become loose making the carriage unusable.

Important Notes
*Size 3 and Size 5 carriage must be ordered with rails.

Order No.	For rail	l_1	l_2	l_3	l_4	h_1	h_2	h_3	h_4	h_5	h_6	d_2	d_3	d_4	Weight g
L1010.C03	3*	11.9	6.7	3.5	10	4	3.2	1.1	2.6	-	0.7	-	M 1.6	0.3	0.9
L1010.C03L	3*	16.1	11.0	5.5	10	4	3.2	1.1	2.6	-	0.7	-	M 1.6	0.3	1.2
L1010.C05	5*	16.3	10.0	-	15	6	4.7	1.5	3.5	1.0	1.3	2.4	3.5	0.7	3.5
L1010.C05L	5*	19.7	13.5	7	15	6	4.6	2.0	3.5	1.0	1.3	2.4	3.5	0.7	4.0
L1010.C07	7	24.1	14.3	8	15	8	6.6	2.5	4.7	2.3	1.6	2.4	4.2	1.1	8.0
L1010.C07L	7	31.5	21.8	13	15	8	6.7	2.5	4.7	2.3	1.6	2.4	4.2	1.1	14.0
L1010.C09	9	30.9	20.5	10	20	10	7.9	3.0	5.5	3.5	2.2	3.5	6.0	1.3	18.0
L1010.C09L	9	41.1	30.8	16	20	10	8.0	3.0	5.5	3.5	2.2	3.5	6.0	1.3	28.0
L1010.C12	12	35.8	22.0	15	25	13	10.1	3.5	7.5	4.5	3.2	3.5	6.0	1.3	34.0
L1010.C12L	12	47.8	34.0	20	25	13	10.2	3.5	7.5	4.5	3.2	3.5	6.0	1.3	51.0
L1010.C15	15	43.4	27.0	20	40	16	12.2	5.5	9.5	4.5	3.3	3.5	6.0	1.8	61.0
L1010.C15L	15	60.2	44.0	25	40	16	12.2	5.5	9.5	4.5	3.3	3.5	6.0	1.8	90.0

Order No.	For screws d_1	Static load $C_{0rad \& ax}$ N	w_1	w_2	w_3	w_4	Dyn. load $C_{rad \& ax}$ N	M_x Nm	M_y Nm	M_z Nm
L1010.C03	M 1.6	310	8	-	3	2.5	190	0.6	0.4	0.4
L1010.C03L	M 2	575	8	-	3	2.5	295	0.9	1.1	1.1
L1010.C05	M 2	550	12	8	5	3.5	335	1.7	1.0	1.0
L1010.C05L	M 2.6	900	12	-	5	3.5	470	2.4	2.1	2.1
L1010.C07	M 2	1440	17	12	7	5.0	890	5.2	3.3	3.3
L1010.C07L	M 2	2440	17	12	7	5.0	1310	9.0	7.7	7.7
L1010.C09	M 3	2495	20	15	9	5.5	1570	11.7	6.4	6.4
L1010.C09L	M 3	3880	20	15	9	5.5	2135	18.2	12.4	12.4
L1010.C12	M 3	3465	27	20	12	7.5	2308	21.5	12.9	12.9
L1010.C12L	M 3	5630	27	20	12	7.5	3240	34.9	30.2	30.2
L1010.C15	M 3	5590	32	25	15	8.5	3810	43.6	27.0	27.0
L1010.C15L	M 3	9080	32	25	15	8.5	5350	70.0	63.3	63.3



L1872

Material
Stainless steel (AISI 304), with smooth surfaces. Bearing stainless steel (440C) with 2RS seals, lubricated with food grade grease (USDA approved).

Technical Notes
Self-aligning bearing units.
Temperature range for bearings: -15°C to

+120°C.
Resistant to a moisture and a wide range of aggressive chemicals.
For optional shaft end caps add suffixes:
-C0 for one open protective cap (with seal) for through shafts
-CC for closed protective cap for shaft ends.

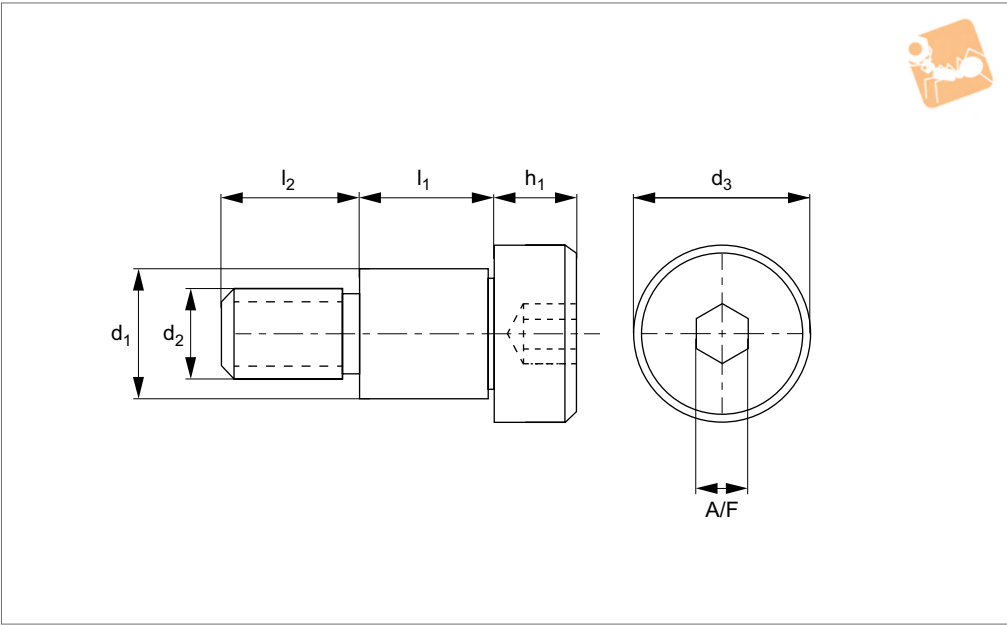
Tips
Shaft retention with two set screws (at 120° offset).
Used with h6 tolerance shafts (see our part nos L1770-L1776).
Maximum housing loads measured @ 20°C.

Order No.	d_1 for h6	l_1	d_2	d_3	l_2	w_1	w_2 +0.3 -0	w_3	w_4	w_5	Weight kg
L1872.012	12	86	12	64	31.0	33.3	25.5	12.0	15	0.66	54
L1872.015	15	86	12	64	31.0	33.3	25.5	12.0	15	0.64	54
L1872.017	17	86	12	64	31.0	33.3	25.5	12.0	15	0.63	54
L1872.020	20	86	12	64	31.0	33.3	25.5	12.0	15	0.61	54
L1872.025	25	95	12	70	34.1	35.8	27.0	14.0	16	0.82	60
L1872.030	30	108	12	83	38.1	40.2	30.5	14.0	18	1.31	70
L1872.035	35	116	14	92	42.9	44.4	33.5	14.5	19	1.41	80
L1872.040	40	130	16	102	49.2	51.2	36.0	14.5	21	1.89	88
L1872.045	45	137	16	105	49.2	52.2	38.0	15.5	22	2.32	95
L1872.050	50	143	16	111	51.6	54.6	40.0	15.0	22	2.65	100
L1872.055	55	162	19	130	55.6	58.4	44.0	20.0	25	4.06	110
L1872.060	60	175	19	143	65.1	68.7	48.0	20.0	29	5.48	120

Order No.	w_6	w_7	Speed rpm	Dyn. load C kN max.	Static bearing load C_0 kN max.	Housing load F_1 kN max.	Housing load F_6 kN max.	Torque screw to Nm	Set screw size
L1872.012	12.7	37.8	4800	10.1	6.8	86	36	8.5	M 6x1
L1872.015	12.7	37.8	4800	10.1	6.8	86	36	8.5	M 6x1
L1872.017	12.7	37.8	4800	10.1	6.8	86	36	8.5	M 6x1
L1872.020	12.7	37.8	4800	10.1	6.8	86	36	8.5	M 6x1



Order No.	w ₆	w ₇	Speed rpm	Dyn. load C kN max.	Static bearing load C ₀ kN max.	Housing load F ₁ kN max.	Housing load F ₆ kN max.	Torque screw to Nm	Set screw size
L1872.025	14.3	39.9	4000	11.0	8.0	130	50	8.5	M 6x1
L1872.030	15.9	44.4	3400	15.3	11.5	130	60	8.5	M 6x1
L1872.035	17.5	48.2	3000	20.1	15.6	130	70	20.0	M 8x1
L1872.040	19.0	54.4	2600	22.8	18.2	140	78	20.0	M 8x1
L1872.045	19.0	55.9	2400	25.7	20.8	200	90	40.0	M 10x1.25
L1872.050	19.0	59.8	2200	27.5	23.7	200	100	40.0	M 10x1.25
L1872.055	22.2	62.6	1800	34.0	25.5	255	125	40.0	M 10x1.25
L1872.060	25.4	72.9	1600	41.0	31.5	315	155	40.0	M 10x1.25



P0130

Material

Available in a range of materials, replace XX with -A2 for 304 stainless, -A4 for 316 stainless, -B2 for blackened 303 stainless, -B4 for blackened 316

stainless, -T2 for grade 2 titanium and -T5 for grade 5 titanium.

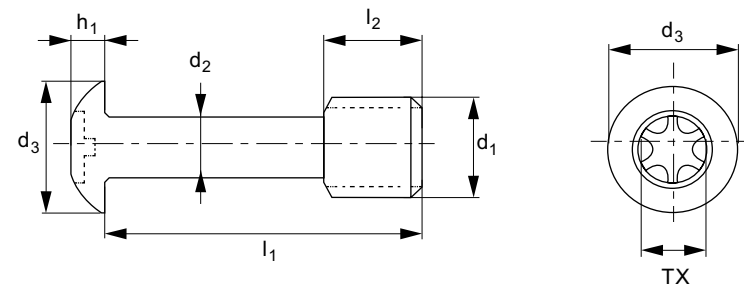
Technical Notes

For torx drive versions please see P0145. Special lengths and diameters produced to drawings. Additional sizes available on our website.

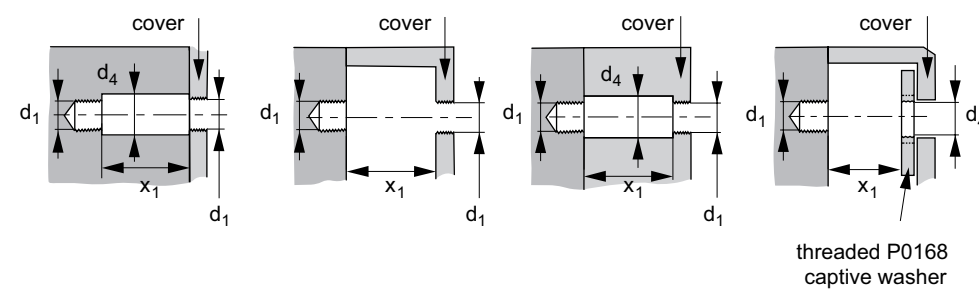
Order No.	d ₁ +0 -0.025	l ₁ +0.05 -0.0	d ₂	d ₃	l ₂	h ₁	A/F
P0130.030-002-XX	3	2	M 2	5	4	2	1.5
P0130.030-003-XX	3	3	M 2	5	4	2	1.5
P0130.030-004-XX	3	4	M 2	5	4	2	1.5
P0130.030-005-XX	3	5	M 2	5	4	2	1.5
P0130.030-006-XX	3	6	M 2	5	4	2	1.5
P0130.030-007-XX	3	7	M 2	5	4	2	1.5
P0130.030-008-XX	3	8	M 2	5	4	2	1.5
P0130.030-010-XX	3	10	M 2	5	4	2	1.5
P0130.030-012-XX	3	12	M 2	5	4	2	1.5
P0130.030-014-XX	3	14	M 2	5	4	2	1.5
P0130.030-016-XX	3	16	M 2	5	4	2	1.5
P0130.030-018-XX	3	18	M 2	5	4	2	1.5
P0130.030-020-XX	3	20	M 2	5	4	2	1.5
P0130.030-025-XX	3	25	M 2	5	4	2	1.5
P0130.040-002-XX	4	2	M 3	6	4	3	2.0
P0130.040-003-XX	4	3	M 3	6	4	3	2.0
P0130.040-004-XX	4	4	M 3	6	4	3	2.0
P0130.040-005-XX	4	5	M 3	6	4	3	2.0
P0130.040-006-XX	4	6	M 3	6	4	3	2.0
P0130.040-007-XX	4	7	M 3	6	4	3	2.0
P0130.040-008-XX	4	8	M 3	6	4	3	2.0
P0130.040-010-XX	4	10	M 3	6	4	3	2.0
P0130.040-012-XX	4	12	M 3	6	4	3	2.0
P0130.040-014-XX	4	14	M 3	6	4	3	2.0
P0130.040-016-XX	4	16	M 3	6	4	3	2.0
P0130.040-018-XX	4	18	M 3	6	4	3	2.0
P0130.040-020-XX	4	20	M 3	6	4	3	2.0
P0130.040-025-XX	4	25	M 3	6	4	3	2.0
P0130.040-030-XX	4	30	M 3	6	4	3	2.0
P0130.040-035-XX	4	35	M 3	6	4	3	2.0
P0130.040-040-XX	4	40	M 3	6	4	3	2.0
P0130.040-045-XX	4	45	M 3	6	4	3	2.0
P0130.040-050-XX	4	50	M 3	6	4	3	2.0
P0130.050-002-XX	5	2	M 4	8	5	4	2.5



P0149



application examples :-
counterbore length 'x₁' should be > l₂



threaded P0168
captive washer

Material

Available in a range of materials; replace XX with -A2 for 303 stainless, -A4 for 316 stainless, -B2 for blackened 303 stainless, -B4 for blackened 316 stainless and Ti for Titanium.

Technical Notes

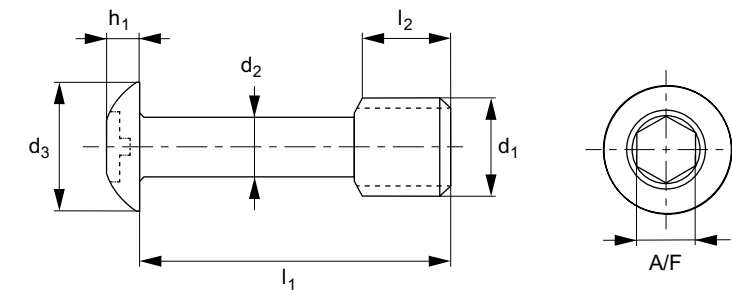
Used to comply with the Machinery Directive 2006/42/EC. Generally to ISO 7380-1. Often used with our captive washers (P0168) or retaining flanges (P0169.A2 - for sheet metal applications). The use of our captive washers should be considered when fitted in panels with unthreaded holes.

Important Notes

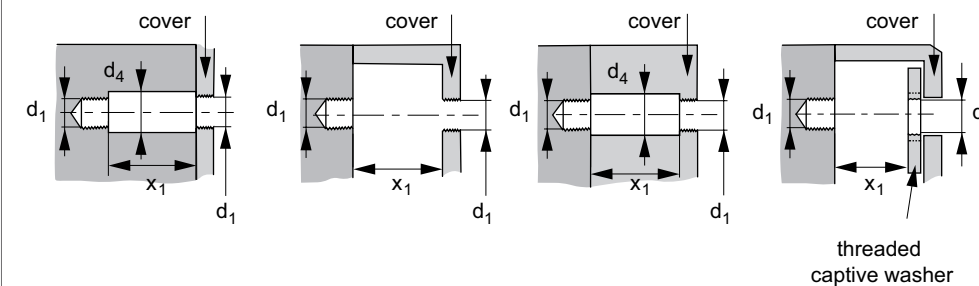
Please note that these screws have a reduced diameter shank and should not be tightened to the recommended torque for an equivalent machine screw of size d₁.

Additional sizes available on our website.

Order No.	d ₁	l ₁ 0.25	d ₂ 0.12	d ₃ max.	d ₄ min.	h ₁ max.	l ₂ -0.2	TX size
P0149.025-008-XX	M 2.5	8	1.7	4.5	2.8	1.50	3.7	TX- 8
P0149.025-010-XX	M 2.5	10	1.7	4.5	2.8	1.50	3.7	TX- 8
P0149.025-012-XX	M 2.5	12	1.7	4.5	2.8	1.50	3.7	TX- 8
P0149.025-016-XX	M 2.5	16	1.7	4.5	2.8	1.50	3.7	TX- 8
P0149.025-020-XX	M 2.5	20	1.7	4.5	2.8	1.50	3.7	TX- 8
P0149.030-010-XX	M 3	10	2.0	5.7	3.5	1.65	4.5	TX-10
P0149.030-016-XX	M 3	16	2.0	5.7	3.5	1.65	4.5	TX-10
P0149.030-020-XX	M 3	20	2.0	5.7	3.5	1.65	4.5	TX-10
P0149.030-025-XX	M 3	25	2.0	5.7	3.5	1.65	4.5	TX-10
P0149.030-030-XX	M 3	30	2.0	5.7	3.5	1.65	4.5	TX-10
P0149.030-040-XX	M 3	40	2.0	5.7	3.5	1.65	5.0	TX-10
P0149.040-012-XX	M 4	12	2.8	7.6	4.5	3.10	6.0	TX-20
P0149.040-016-XX	M 4	16	2.8	7.6	4.5	3.10	6.0	TX-20
P0149.040-020-XX	M 4	20	2.8	7.6	4.5	3.10	6.0	TX-20
P0149.040-025-XX	M 4	25	2.8	7.6	4.5	3.10	6.0	TX-20
P0149.040-030-XX	M 4	30	2.8	7.6	4.5	3.10	6.0	TX-20
P0149.040-040-XX	M 4	40	2.8	7.6	4.5	3.10	6.0	TX-20
P0149.040-050-XX	M 4	50	2.8	7.6	4.5	3.10	6.0	TX-20
P0149.040-060-XX	M 4	60	2.8	7.6	4.5	3.10	6.0	TX-20



application examples :-
counterbore length 'x₁' should be > l₂



threaded
captive washer

Material

Available in a range of materials; replace XX with -A2 for 303 stainless, -A4 for 316 stainless, -B2 for blackened 303 stainless, -B4 for blackened 316 stainless and Ti for Titanium. Also available on request in steel (anodised, black oxide or zinc plated), stainless steel (AISI 316, 1.440), brass, aluminium etc.

Technical Notes

Used to comply with the Machinery Directive 2006/42/EC. Generally to ISO 7380-1. Often used with our captive washers (P0168) or retaining flanges (P0169.A2 - for sheet metal applications). The use of our captive washers should be considered when fitted in panels with unthreaded holes.

Important Notes

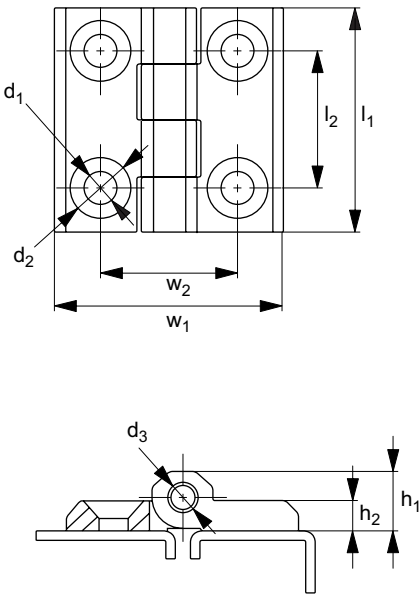
Please note that these screws have a reduced diameter shank and should not be tightened to the recommended torque for an equivalent machine screw of size d₁.

Additional sizes available on our website.

Order No.	d ₁	l ₁ ±0.25	d ₂ ±0.12	d ₃ max.	d ₄ min.	h ₁ max.	l ₂ ±0.25	A/F
P0151.025-008-XX	M 2.5	8	1.7	4.5	2.8	1.50	3.7	1.5
P0151.025-010-XX	M 2.5	10	1.7	4.5	2.8	1.50	3.7	1.5
P0151.025-012-XX	M 2.5	12	1.7	4.5	2.8	1.50	3.7	1.5
P0151.025-016-XX	M 2.5	16	1.7	4.5	2.8	1.50	3.7	1.5
P0151.025-020-XX	M 2.5	20	1.7	4.5	2.8	1.50	3.7	1.5
P0151.030-008-XX	M 3	8	2.0	5.7	3.5	1.53	4.5	2.0
P0151.030-010-XX	M 3	10	2.0	5.7	3.5	1.53	4.5	2.0
P0151.030-016-XX	M 3	16	2.0	5.7	3.5	1.53	4.5	2.0
P0151.030-020-XX	M 3	20	2.0	5.7	3.5	1.53	4.5	2.0
P0151.030-025-XX	M 3	25	2.0	5.7	3.5	1.53	4.5	2.0
P0151.030-030-XX	M 3	30	2.0	5.7	3.5	1.53	4.5	2.0
P0151.030-040-XX	M 3	40	2.0	5.7	3.5	1.53	4.5	2.0
P0151.040-010-XX	M 4	10	2.8	7.6	4.5	2.10	6.0	2.5
P0151.040-012-XX	M 4	12	2.8	7.6	4.5	2.10	6.0	2.5
P0151.040-016-XX	M 4	16	2.8	7.6	4.5	2.10	6.0	2.5
P0151.040-020-XX	M 4	20	2.8	7.6	4.5	2.10	6.0	2.5
P0151.040-025-XX	M 4	25	2.8	7.6	4.5	2.10	6.0	2.5
P0151.040-030-XX	M 4	30	2.8	7.6	4.5	2.10	6.0	2.5
P0151.040-035-XX	M 4	35	2.8	7.6	4.5	2.10	6.0	2.5
P0151.040-040-XX	M 4	40	2.8	7.6	4.5	2.10	6.0	2.5



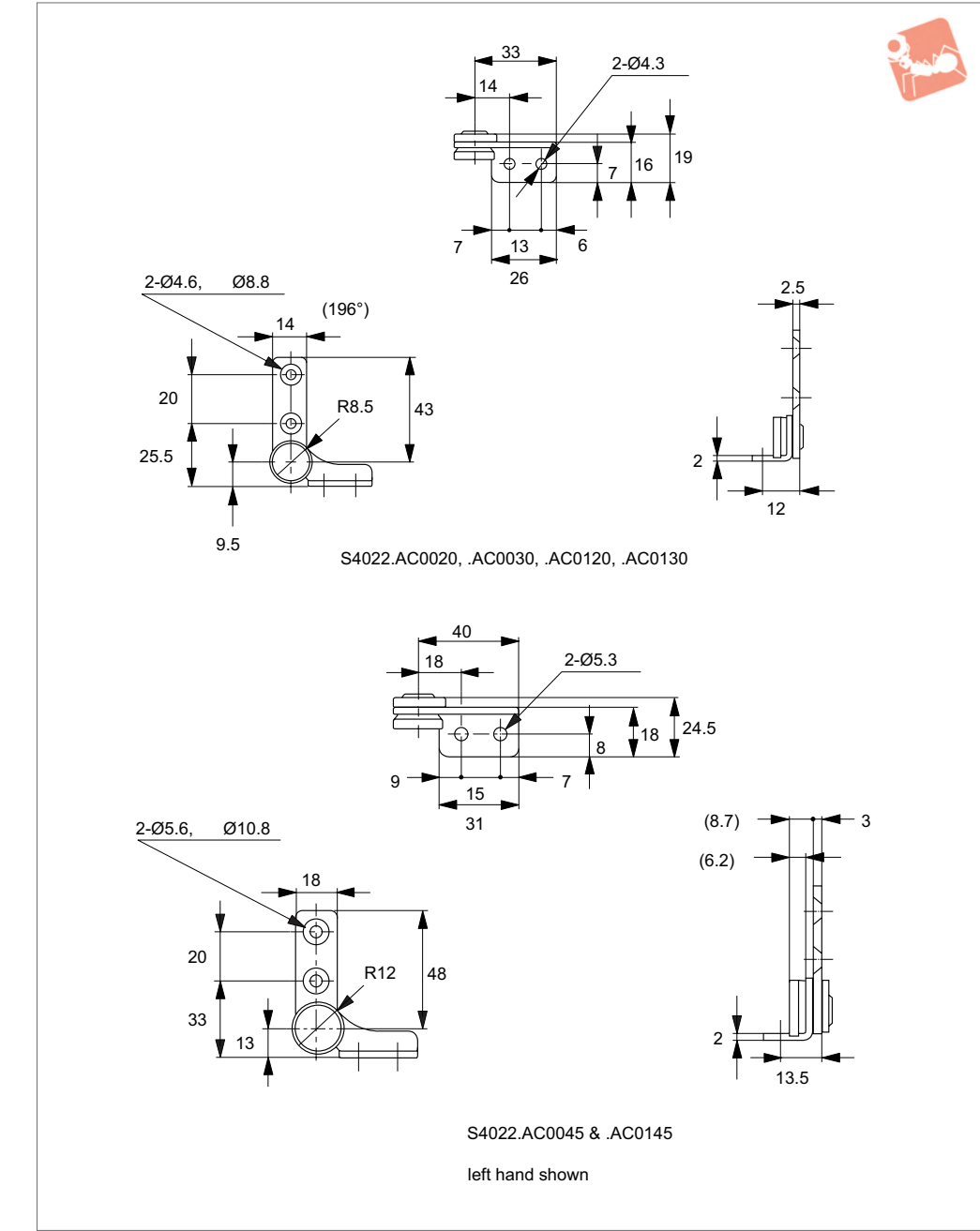
S0563



Material
Body: polyamide.
Pin: steel, nickel plated.

Technical Notes
For plain/flush mounted doors, as well as electrical panels and covers. Opening angle 180°.

Order No.	Size	h_1	h_2	l_1	l_2	w_1	w_2	F_x kN	F_y kN	d_1	d_2	d_3
S0563.AW0040	40 x 40	9.8	5	25	40	25	-	-	-	10.5	5.3	6
S0563.AW0050	50 x 50	11.5	5	30	50	30	1.2	1.3	-	12.5	6.3	6



S4022

Material
Body: stainless steel, AISI 430.

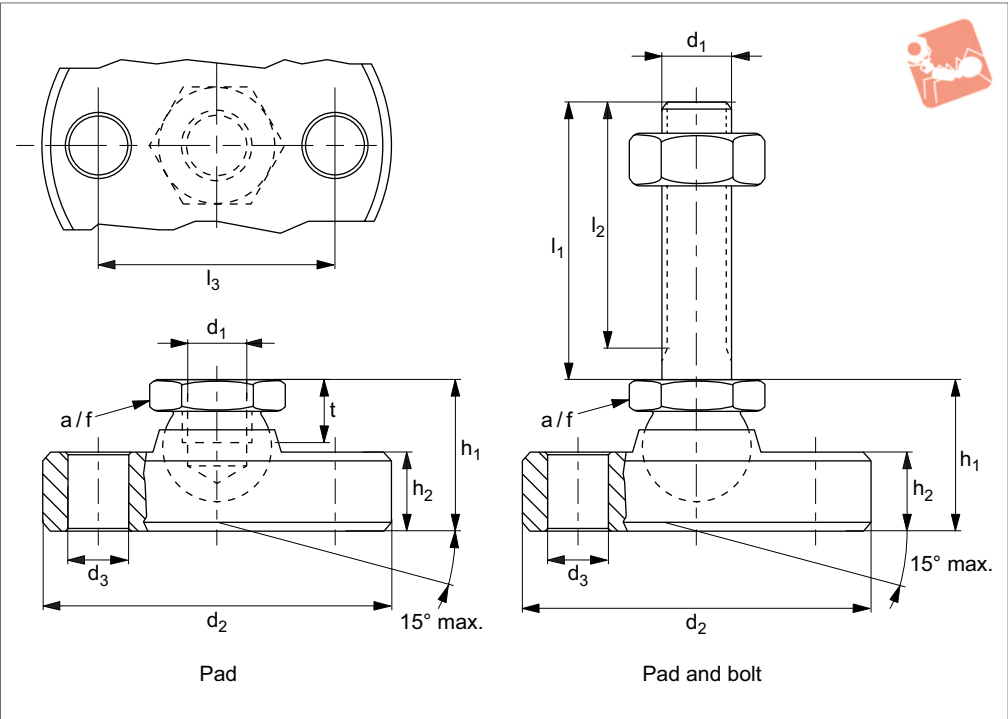
Technical Notes
Friction torque hinge ideal for mounting of monitors, monitoring cameras, screens and

displays. Consistent torque throughout free stop angle.

Order No.	Torque kgf/cm ±20%	Hand	Opening angle	Weight g
S4022.AC0010	7.1	right	360°	31
S4022.AC0020	20.4	right	360°	30
S4022.AC0030	30.6	right	360°	30
S4022.AC0045	45.9	right	360°	65
S4022.AC0110	7.1	left	360°	31
S4022.AC0120	20.4	left	360°	30
S4022.AC0130	30.6	left	360°	30
S4022.AC0145	45.9	left	360°	65



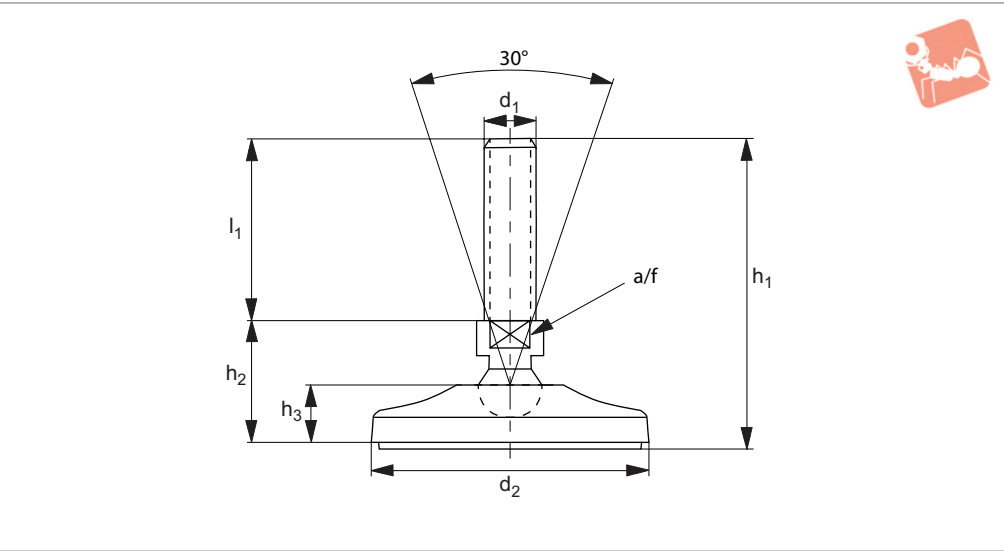
34713



Material
Pad and bolt: stainless steel 1.4305, AISI 303.
Lock nut: Stainless steel A2, DIN 934 and

ISO 4032.
Technical Notes
To be used as foot and thrust pad.
Including two mounting holes in pad.

Order No.	Finish	d ₁	l ₁	d ₂ -0.5	d ₃	l ₂	l ₃	h ₁ ≈	h ₂	t	A/F	Static load kN max.	Weight g
34713.W0706	Pad	M 6	-	45	6.6	-	32	14	6.5	5.0	10	8	79
34713.W0708	Pad	M 8	-	50	6.6	-	38	18	8.5	7.0	13	14	130
34713.W0710	Pad	M 10	-	60	9.0	-	44	22	11.5	9.0	17	16	250
34713.W0712	Pad	M 12	-	65	9.0	-	48	26	12.5	11.0	19	28	326
34713.W0716	Pad	M 16	-	70	9.0	-	54	32	13.5	13.5	24	36	427
34713.W0720	Pad	M 20	-	80	9.0	-	64	42	16.5	17.0	30	44	718
34713.W0724	Pad	M 24	-	100	11.0	-	78	45	20.5	19.0	36	52	1304
34713.W0810	Pad and Bolt	M 6	60	45	6.6	57.0	32	14	6.5	-	10	8	93
34713.W0822	Pad and Bolt	M 8	80	50	6.6	76.0	38	18	8.5	-	13	14	163
34713.W0838	Pad and Bolt	M 10	100	60	9.0	95.5	44	22	11.5	-	17	16	318
34713.W0842	Pad and Bolt	M 10	150	60	9.0	145.5	44	22	11.5	-	17	16	341
34713.W0852	Pad and Bolt	M 12	100	65	9.0	94.5	48	26	12.5	-	19	28	423
34713.W0856	Pad and Bolt	M 12	150	65	9.0	144.5	48	26	12.5	-	19	28	459
34713.W0868	Pad and Bolt	M 16	100	70	9.0	94.0	54	32	13.5	-	24	36	615
34713.W0872	Pad and Bolt	M 16	200	70	9.0	194.0	54	32	13.5	-	24	36	746
34713.W0882	Pad and Bolt	M 20	100	80	9.0	92.5	64	42	16.5	-	30	44	1029
34713.W0888	Pad and Bolt	M 20	200	80	9.0	192.5	64	42	16.5	-	30	44	1231
34713.W0895	Pad and Bolt	M 24	100	100	11.0	91.0	78	45	20.5	-	36	52	1775
34713.W0898	Pad and Bolt	M 24	200	100	11.0	191.0	78	45	20.5	-	36	52	2075



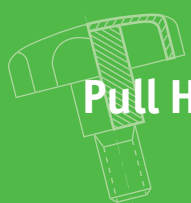
34714

Material
Stainless steel (AISI 304), with rubber pad (70 Shore A).
Stainless steel (AISI 316) version available

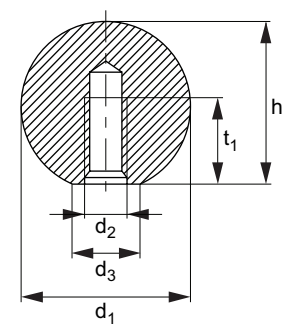
on request.
Technical Notes
Load values refer to static loads, located at

half the screw height.
When vibrations or dynamic loads are present these values should be reduced.
Additional sizes available on our website.

Order No.	d ₁	l ₁	d ₂	h ₁	h ₂	h ₃	A/F	Load kN max.
34714.W1000	M 10	25	50	56	28	16.0	14	15
34714.W1001	M 10	50	50	81	28	16.0	14	15
34714.W1002	M 10	75	50	106	28	16.0	14	15
34714.W1003	M 10	100	50	131	28	16.0	14	15
34714.W1004	M 10	125	50	156	28	16.0	14	15
34714.W1200	M 12	25	50	56	28	16.0	14	15
34714.W1201	M 12	50	50	81	28	16.0	14	15
34714.W1202	M 12	75	50	106	28	16.0	14	15
34714.W1203	M 12	100	50	131	28	16.0	14	15
34714.W1204	M 12	125	50	156	28	16.0	14	15
34714.W1400	M 14	50	65	83	30	17.0	14	20
34714.W1401	M 14	75	65	108	30	17.0	14	20
34714.W1402	M 14	100	65	133	30	17.0	14	20
34714.W1403	M 14	125	65	158	30	17.0	14	20
34714.W1404	M 14	150	65	183	30	17.0	14	20
34714.W1600	M 16	50	100	96	43	20.0	20	35
34714.W1601	M 16	75	100	121	43	20.0	20	35
34714.W1602	M 16	100	100	146	43	20.0	20	35
34714.W1603	M 16	125	100	171	43	20.0	20	35
34714.W1604	M 16	150	100	196	43	20.0	20	35
34714.W1605	M 16	175	100	221	43	20.0	20	35
34714.W1606	M 16	200	100	246	43	20.0	20	35
34714.W2000	M 20	75	100	121	43	20.0	20	45
34714.W2001	M 20	100	100	146	43	20.0	20	45
34714.W2002	M 20	125	100	171	43	20.0	20	45
34714.W2003	M 20	150	100	196	43	20.0	20	45
34714.W2004	M 20	175	100	221	43	20.0	20	45
34714.W2005	M 20	200	100	246	43	20.0	20	45
34714.W2006	M 20	225	100	271	43	20.0	20	45
34714.W2007	M 20	250	100	296	43	20.0	20	45
34714.W2400	M 24	75	100	122	44	20.0	20	55
34714.W2401	M 24	100	100	147	44	20.0	20	55
34714.W2402	M 24	125	100	172	44	20.0	20	55
34714.W2403	M 24	150	100	202	44	20.0	20	55
34714.W2404	M 24	175	100	222	44	20.0	20	55
34714.W2405	M 24	200	100	247	44	20.0	20	55

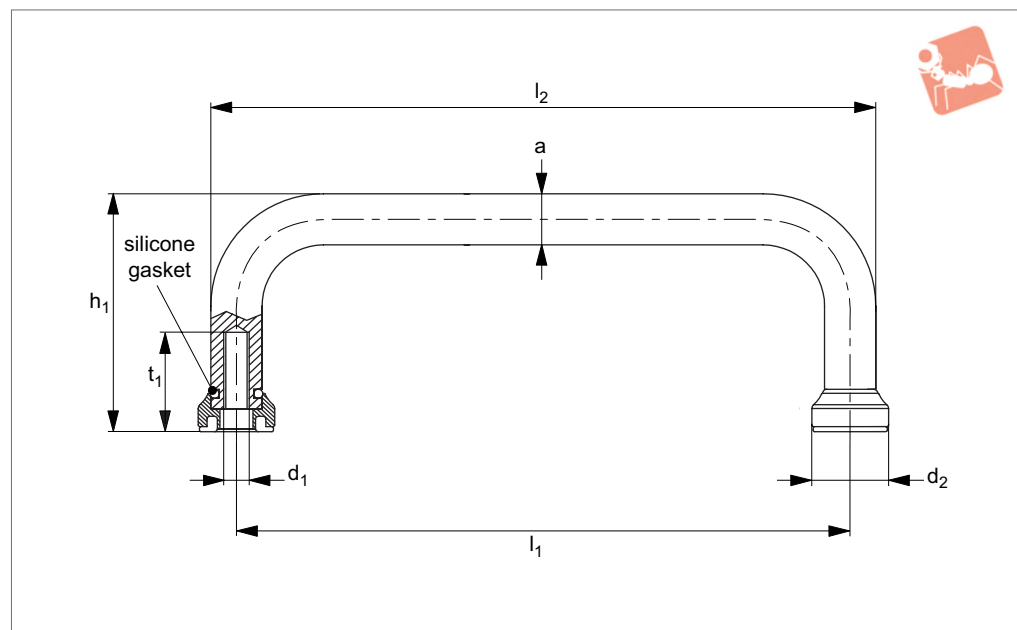


73004



Material
Stainless steel 1.4305, dull blasted

Order No.	d ₁	d ₂	d ₃	h	t ₁ min.	Weight g
73004.W0216	16	M 4	8	15.0	7.0	16
73004.W0220	20	M 5	12	18.0	9.0	31
73004.W0225	25	M 6	15	22.5	11.0	59
73004.W0232	32	M 8	18	29.0	14.5	122
73004.W0240	40	M 10	22	37.0	18.0	242



Material
Round bar stainless steel AISI304
Blue gasket: silicone

Tips
Made to the high „3A“ standard.
This ensures it meets the high standards
required for use in food, beverage,
pharmaceutical and medical applications.

Hygienically designed for effective and
easy cleaning, corrosion resistant,
non-toxic.
Design precludes contamination by dirt,
food particles and organic matter.

Order No.	l ₁	l ₂	a	d ₁	d ₂	h ₁	t ₁
79760.W0088	88	98	10	M5	15	46	10
79760.W0100	100	110	10	M5	15	46	10
79760.W0120	120	130	10	M5	15	46	10
79760.W0180	180	190	10	M5	15	46	10



79760



Bottle or Can Filling Machines

High-speed filling systems rely on precise positioning, reliable product handling and robust mechanical components to maintain consistent output. From container infeed and filling stations through to capping, inspection and packaging, every stage requires accurate movement and dependable adjustment.

The Wixroyd Group components support machine builders with solutions designed for continuous operation, easy maintenance and demanding production environments.



Access & Protection

Filling equipment requires regular cleaning and servicing, making hygienic access essential. Stainless steel hinges, handles, latches, locks and gas struts provide durable solutions for guards, covers and access panels.



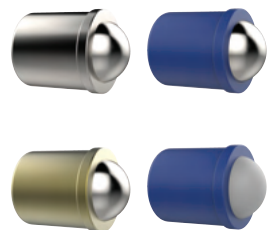
Adjust & Set

Different container formats require quick and repeatable adjustments. Position indicators, adjustable handles, handwheels and levelling feet simplify machine setup, alignment and product changeovers.



Position & Guide

Accurate container positioning is essential for reliable filling, capping and inspection processes. Linear guides, slides, guide rails and positioning components ensure smooth movement of filling heads, sensors and changeover mechanisms.



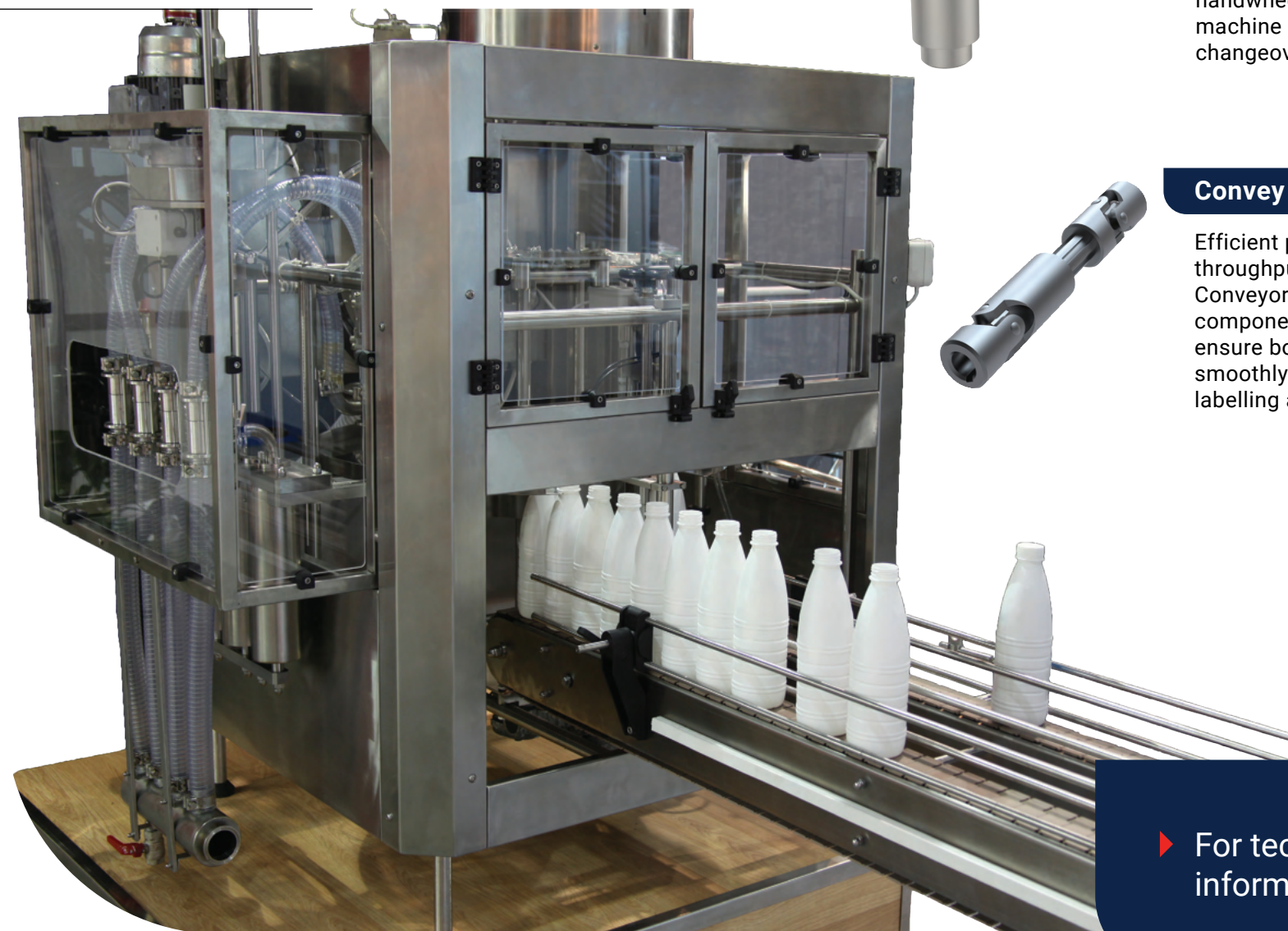
Drive & Index

Precise timing is critical in high-speed filling operations. Timing pulleys, couplings, indexing units and drive components synchronise container movement between stations, maintaining consistent cycle times and production accuracy.



Clamp & Hold

Secure mounting of guides, tooling and adjustment assemblies ensures reliable machine performance. Toggle clamps, fixture elements and spring plungers provide dependable positioning while allowing efficient setup and maintenance.



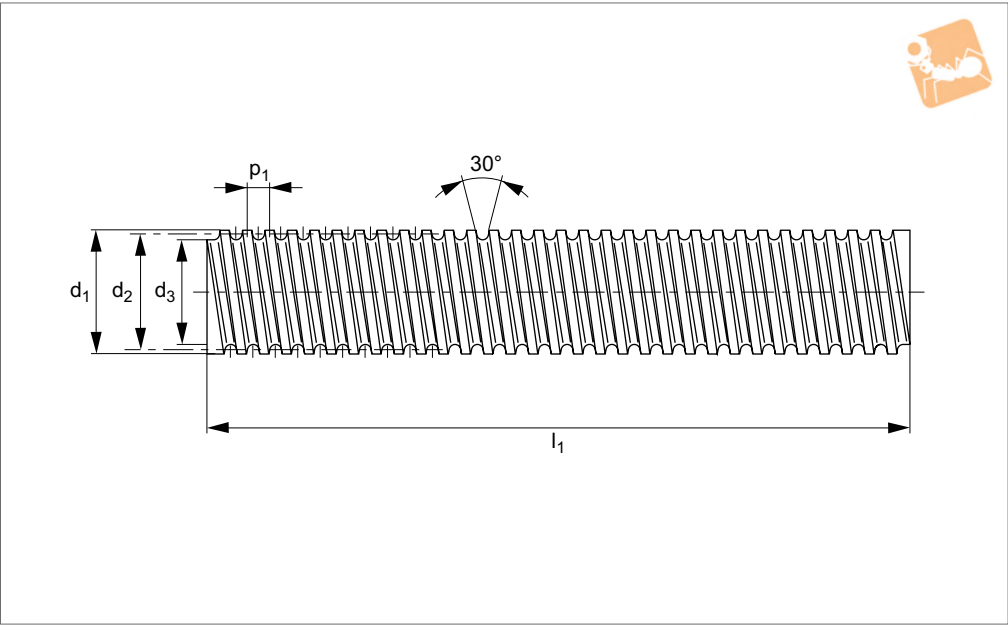
Convey & Transfer

Efficient product handling maintains throughput across the filling line. Conveyor rollers, guide rails, transfer components and support brackets ensure bottles and cans move smoothly through filling, capping, labelling and packing operations.

► For technical product information **turn the page**



L1325



Material
Rolled trapezoidal thread, stainless steel (AISI 304, A2). Manufactured to ISO 2901/2093, DIN103.

Technical Notes
„Lead“ refers to the distance that a nut will travel for a complete revolution of the

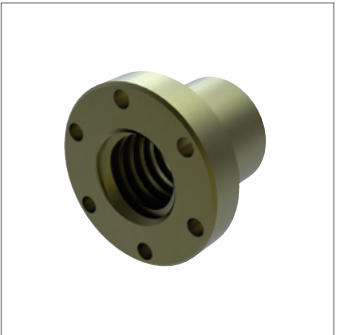
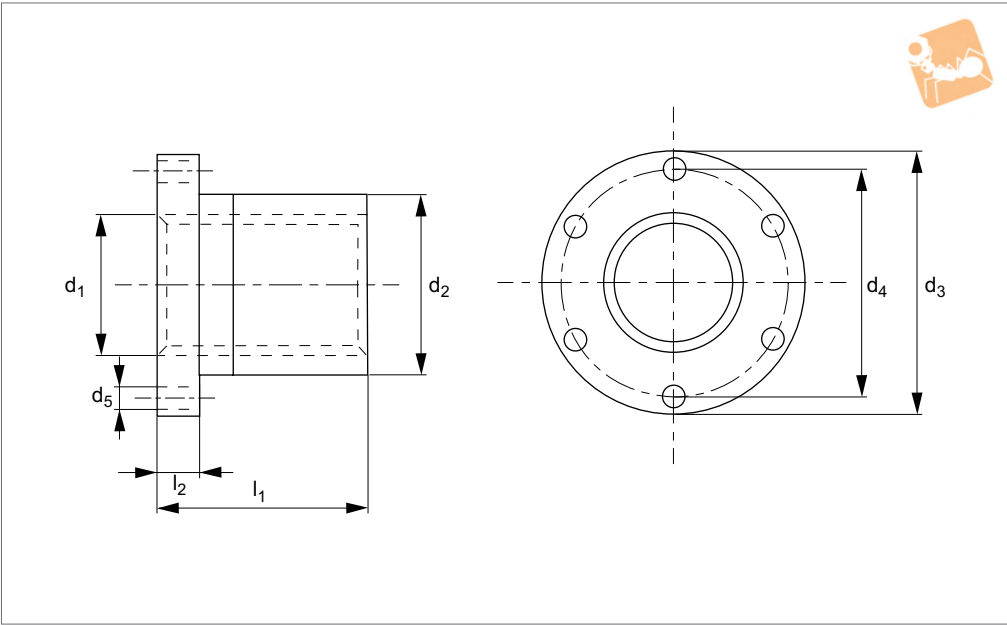
screw. Select a suitable lead screw nut (part nos. L1330 to L1343) to suit the lead screw - the most popular nuts are the flanged, bronze nuts part no. L1331.

Tips
Right hand thread lead screws are standard. For left hand stainless steel

threads see part no. L1326. Cutting to required length and machining of ends - on request. Lead screw lengths of up to 6 metres can be provided for a diameter >30mm.
Additional sizes up to TR40x7.0 are available on our website.

Order No.	Size	No. of starts	d ₁ tol. 7e	Lead	p ₁	d ₂ tol. 7e min.	d ₂ tol. 7e max.	Weight kg
L1325.R08-015-1.0	TR08x1.5	1	8	1.5	1.5	7.013	7.183	0.31
L1325.R08-015-1.5	TR08x1.5	1	8	1.5	1.5	7.013	7.183	0.46
L1325.R08-015-2.0	TR08x1.5	1	8	1.5	1.5	7.013	7.183	0.64
L1325.R08-015-3.0	TR08x1.5	1	8	1.5	1.5	7.013	7.183	0.93
L1325.R10-02-1.0	TR10x2	1	10	2.0	2.0	8.739	8.929	0.48
L1325.R10-02-1.5	TR10x2	1	10	2.0	2.0	8.739	8.929	0.72
L1325.R10-02-2.0	TR10x2	1	10	2.0	2.0	8.739	8.929	0.96
L1325.R10-02-3.0	TR10x2	1	10	2.0	2.0	8.739	8.929	1.44
L1325.R12-03-1.0	TR12x3	1	12	3.0	3.0	10.191	10.415	0.65
L1325.R12-03-1.5	TR12x3	1	12	3.0	3.0	10.191	10.415	0.97
L1325.R12-03-2.0	TR12x3	1	12	3.0	3.0	10.191	10.415	1.30
L1325.R12-03-3.0	TR12x3	1	12	3.0	3.0	10.191	12.415	1.95
L1325.R14-03-3.0	TR14x3	1	14	3.0	3.0	13.640	13.905	2.79

Order No.	d ₃ tol. 7h min.	d ₃ tol. 7h max.	l ₁	Lead angle	Pitch accuracy mm/300mm	Straightness mm/300mm
L1325.R08-015-1.0	5.763	7.200	1000	3°50'	0.300	1.5
L1325.R08-015-1.5	5.763	7.200	1500	3°50'	0.300	1.5
L1325.R08-015-2.0	5.763	7.200	2000	3°50'	0.300	1.5
L1325.R08-015-3.0	5.763	7.200	3000	3°50'	0.300	1.5
L1325.R10-02-1.0	6.891	7.500	1000	4°07'	0.300	1.5
L1325.R10-02-1.5	6.891	7.500	1500	4°07'	0.300	1.5
L1325.R10-02-2.0	6.891	7.500	2000	4°07'	0.300	1.5
L1325.R10-02-3.0	6.891	7.500	3000	4°07'	0.300	1.5
L1325.R12-03-1.0	7.685	8.500	1000	5°17'	0.300	1.5
L1325.R12-03-1.5	7.685	8.500	1500	5°17'	0.300	1.5
L1325.R12-03-2.0	7.685	8.500	2000	5°17'	0.300	1.5
L1325.R12-03-3.0	7.685	8.500	3000	5°17'	0.300	1.5
L1325.R14-03-3.0	9.685	10.500	3000	4°26'	0.300	1.5



L1331

Material
Bronze (CuSn7ZnPb).

Technical Notes
For manual or powered applications at medium/low rotation speeds under load.

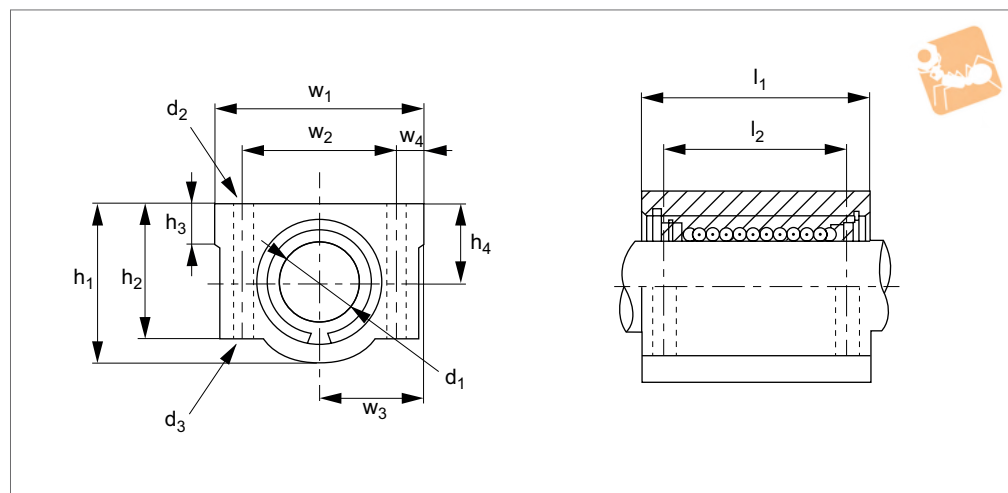
Tips
Standard nuts are right hand thread, single starts.
For use with steel or stainless steel lead screws, L1320, L1321, L1322, and L1323.

Additional sizes up to TR40x10.0 and left hand thread are available on our website.

Order No.	Size	No. of starts	d ₁ tol. 7H	Lead	Thread hand	Contact surface mm ²	d ₂ tol. h9	d ₃ tol. h11	d ₄	d ₅	l ₁ ±0.2	l ₂ +0.15 -0.0	Weight kg
L1331.R08-015	TR8x 1.5	1	8	1.5	Right	170	18	35	26	6	20	7	0.135
L1331.R10-02	TR10x 2	1	10	2.0	Right	250	25	42	34	5	25	10	0.164
L1331.R10-04	TR10x 4	2	10	4.0	Right	250	25	42	34	5	25	10	0.164
L1331.R12-03	TR12x 3	1	12	3.0	Right	400	28	48	38	6	35	12	0.266
L1331.R12-06	TR12x 6	2	12	6.0	Right	400	28	48	38	6	35	12	0.266
L1331.R14-03	TR14x 3	1	14	3.0	Right	460	28	48	38	6	35	12	0.258
L1331.R14-06	TR14x 6	2	14	6.0	Right	460	28	48	38	6	35	12	0.258
L1331.R16-04	TR16x 4	1	16	4.0	Right	530	28	48	38	6	35	12	0.244
L1331.R16-08	TR16x 8	2	16	8.0	Right	530	28	48	38	6	35	12	0.244
L1331.R18-04	TR18x 4	1	18	4.0	Right	610	28	48	38	6	35	12	0.228
L1331.R18-08	TR18x 8	2	18	8.0	Right	610	28	48	38	6	35	12	0.228
L1331.R20-04	TR20x 4	1	20	4.0	Right	870	32	55	45	7	44	12	0.346
L1331.R20-08	TR20x 8	2	20	8.0	Right	870	32	55	45	7	44	12	0.346
L1331.R22-05	TR22x 5	1	22	5.0	Right	1030	32	55	45	7	44	12	0.322
L1331.R22-10	TR22x 10	2	22	10.0	Right	1030	32	55	45	7	44	12	0.322
L1331.R24-05	TR24x 5	1	24	5.0	Right	1040	32	55	45	7	44	12	0.304
L1331.R24-10	TR24x 10	2	24	10.0	Right	1040	32	55	45	7	44	12	0.304
L1331.R26-05	TR26x 5	1	26	5.0	Right	1280	38	62	50	7	46	14	0.474
L1331.R26-10	TR26x 10	2	26	10.0	Right	1280	38	62	50	7	46	14	0.474
L1331.R28-05	TR28x 5	1	28	5.0	Right	1200	38	62	50	7	46	14	0.442
L1331.R28-10	TR28x 10	2	28	10.0	Right	1200	38	62	50	7	46	14	0.442
L1331.R30-06	TR30x 6	1	30	6.0	Right	1370	38	62	50	7	46	14	0.408
L1331.R30-12	TR30x 12	2	30	12.0	Right	1370	38	62	50	7	46	14	0.408
L1331.R32-06	TR32x 6	1	32	6.0	Right	1710	45	70	58	7	54	16	0.706
L1331.R32-12	TR32x 12	2	32	12.0	Right	1710	45	70	58	7	54	16	0.706
L1331.R36-06	TR36x 6	1	36	6.0	Right	1950	45	70	58	7	54	16	0.606
L1331.R36-12	TR36x 12	2	36	12.0	Right	1950	45	70	58	7	54	16	0.606
L1331.R40-07	TR40x 7	1	40	7.0	Right	2650	63	95	78	9	66	16	1.700
L1331.R40-14	TR40x 14	2	40	14.0	Right	2650	63	95	78	9	66	16	1.700
L1331.R44-07	TR44x 7	1	44	7.0	Right	2940	63	95	78	9	66	16	1.524
L1331.R50-08	TR50x 8	1	50	8.0	Right	4540	72	110	90	11	75	18	2.324
L1331.R60-09	TR60x 9	1	60	9.0	Right	5490	88	130	110	13	90	20	3.942
L1331.R70-10	TR70x 10	1	70	10.0	Right	7500	95	140	120	13	105	22	4.465



L1751



Material

Aluminium carriage housing with L1709, stainless steel (440C) linear bushing installed. Bushing has a resin -RS (POM) or stainless steel -SS (316) retainer and nitrile

rubber (NBR) end seals -UU.

Stainless steel balls 440C.

Long versions have L1713 linear bearing installed.

Technical Notes

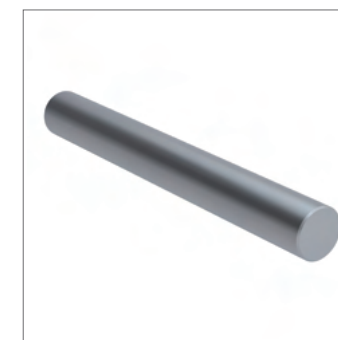
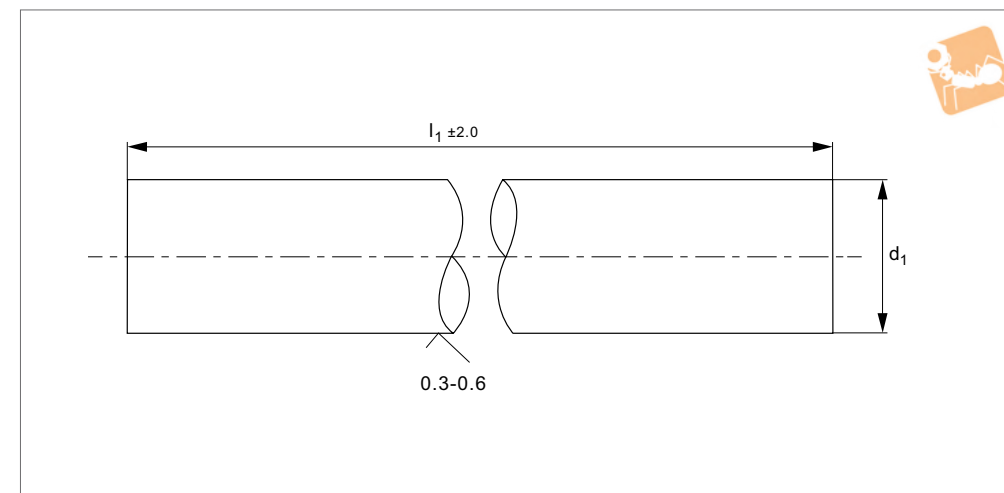
For use with corrosion resistant hardened shafts (see part no.).

Temperature range: -20°C to +120°C.

Additional sizes available on our website.

Order No.	Type	Ball cage	d ₁ tol. h6	l ₁	d ₂	d ₃	h ₁	h ₂	Weight g
L1751.008-RS	Normal	Resin	8	30.0	M 4x 8	3.4	22.0	18.0	60
L1751.012-RS	Normal	Resin	12	39.0	M 5x10	4.3	30.0	24.5	118
L1751.016-RS	Normal	Resin	16	44.0	M 5x12	4.3	38.5	32.5	180
L1751.008-SS	Normal	Stainless	8	30.0	M 4x 8	3.4	22.0	18.0	60
L1751.012-SS	Normal	Stainless	12	39.0	M 5x10	4.3	30.0	24.5	118
L1751.016-SS	Normal	Stainless	16	44.0	M 5x12	4.3	38.5	32.5	180
L1751.008-L-RS	Long	Resin	8	58.0	M 4x 8	3.4	22.0	18.0	98
L1751.012-L-RS	Long	Resin	12	77.0	M 5x10	4.3	30.0	24.5	232
L1751.016-L-RS	Long	Resin	16	89.0	M 5x12	4.3	38.5	32.5	360
L1751.008-L-SS	Long	Stainless	8	58.0	M 4x 8	3.4	22.0	18.0	98
L1751.012-L-SS	Long	Stainless	12	77.0	M 5x10	4.3	30.0	24.5	232
L1751.016-L-SS	Long	Stainless	16	89.0	M 5x12	4.3	38.5	32.5	360
L1751.008-S-RS	Short	Resin	8	14.4	M 4x 8	3.4	22.0	18.0	40
L1751.012-S-RS	Short	Resin	12	20.3	M 5x10	4.3	30.0	24.5	82
L1751.016-S-RS	Short	Resin	16	22.3	M 5x12	4.3	38.5	32.5	122
L1751.008-S-SS	Short	Stainless	8	14.4	M 4x 8	3.4	22.0	18.0	40
L1751.012-S-SS	Short	Stainless	12	20.3	M 5x10	4.3	30.0	24.5	82
L1751.016-S-SS	Short	Stainless	16	22.3	M 5x12	4.3	38.5	32.5	122

Order No.	h ₃	h ₄ ±0.02	l ₂ ±0.2	w ₁	w ₂ ±0.2	w ₃ ±0.02	w ₄	Dyn. load C N max.	Static load C ₀ N max.	Linear ball bushing used
L1751.008-RS	6	11	18	34	24	17	5.0	260	400	L1709.008
L1751.012-RS	8	15	26	44	33	22	5.5	410	590	L1709.012
L1751.016-RS	9	19	34	50	36	25	7.0	770	1170	L1709.016
L1751.008-SS	6	11	18	34	24	17	5.0	260	400	L1709.508
L1751.012-SS	8	15	26	44	33	22	5.5	410	590	L1709.512
L1751.016-SS	9	19	34	50	36	25	7.0	770	1170	L1709.516
L1751.008-L-RS	6	11	42	34	24	17	5.0	410	800	2 x L1709.008
L1751.012-L-RS	8	15	64	44	33	22	5.5	650	1180	2 x L1709.012
L1751.016-L-RS	9	19	79	50	36	25	7.0	1230	2340	2 x L1709.016
L1751.008-L-SS	6	11	42	34	24	17	5.0	410	800	2 x L1709.508
L1751.012-L-SS	8	15	64	44	33	22	5.5	650	1180	2 x L1709.512
L1751.016-L-SS	9	19	79	50	36	25	7.0	1230	2340	2 x L1709.516
L1751.008-S-RS	6	11	-	34	24	17	5.0	260	400	L1709.008
L1751.012-S-RS	8	15	-	44	33	22	5.5	410	590	L1709.012
L1751.016-S-RS	9	19	-	50	36	25	7.0	770	1170	L1709.016
L1751.008-S-SS	6	11	-	34	24	17	5.0	260	400	L1709.508
L1751.012-S-SS	8	15	-	44	33	22	5.5	410	590	L1709.512
L1751.016-S-SS	9	19	-	50	36	25	7.0	770	1170	L1709.516



L1772

Material

Corrosion resistant stainless steel (440C, DIN 1.4112, X90 CrMo18) hardened. Surface hardness 53-56 HRC, Rht 450Hv2. Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla. Yield stress: >420 N/mm². Tensile strength: >785 N/mm².

Technical Notes

Suitable for use with linear bearings. Tolerance, h6 standard, special tolerances on request.

Straightness 0.1mm/m.

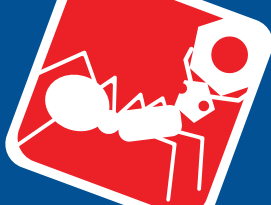
Replace xxxx with desired shaft length eg.06-1000 is 1000mm long.

Tips

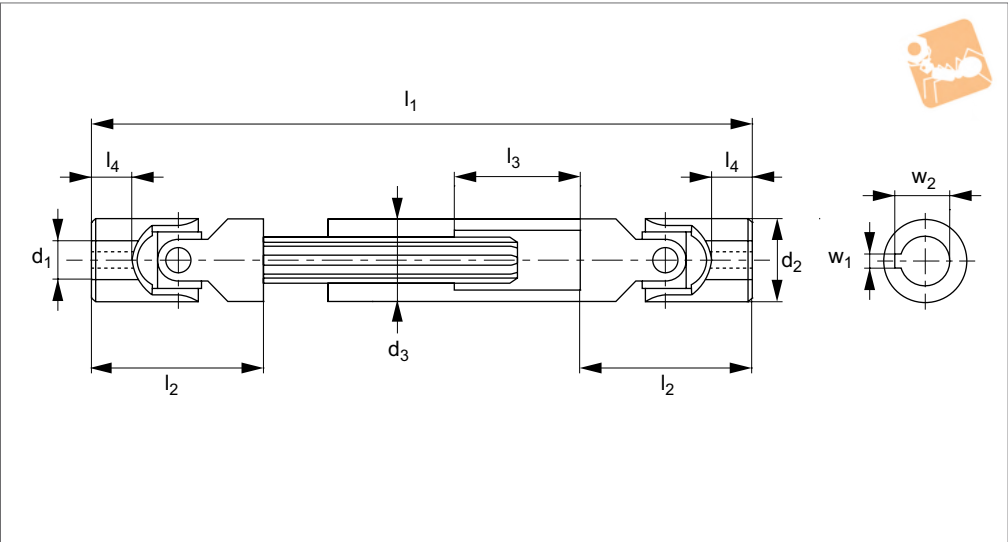
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.

Shaft lengths are cut to typically ± 2mm, ends are not hardened.

Order No.	d ₁ tol. h6	l ₁ max.	Depth of hardness min.
L1772.06-xxxx	6	6000	0.4
L1772.08-xxxx	8	6000	0.4
L1772.10-xxxx	10	6000	0.4
L1772.12-xxxx	12	6000	0.6
L1772.16-xxxx	16	6000	0.6
L1772.20-xxxx	20	6000	0.9
L1772.25-xxxx	25	6000	0.9
L1772.30-xxxx	30	6000	1.5
L1772.40-xxxx	40	6000	1.5
L1772.50-xxxx	50	6000	1.5
L1772.60-xxxx	60	6000	1.5



R3681



Material
Stainless steel (AISI 304), bearing type: plain bearing.

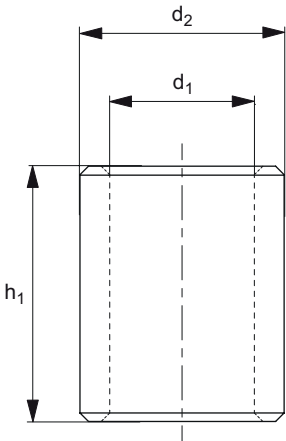
Technical Notes
To DIN 808, maximum bending angle 45°

per joint. The drive speed of universal joints with journal bearings must not exceed 1000 rpm.

Tips
Double universal joints are used where large bending angles are required or

where two shafts offset in relation to each other. Zinc plated available on request.
Additional sizes available on our website.

Order No.	d ₁ tol. h7	d ₂	d ₃	l ₁ min.	l ₁ max.	l ₂	l ₃ stroke	l ₄	w ₁ tol. JS9	w ₂	Shaft	Weight g
R3681.10-140-170	10	20	20	140	170	48	30	12	3	11.4	11x14x6	310
R3681.10-160-200	10	20	20	160	200	48	40	12	3	11.4	11x14x6	360
R3681.10-180-240	10	20	20	180	240	45	60	12	3	11.4	11x14x6	380
R3681.10-230-330	10	20	20	230	330	48	100	12	3	11.4	11x14x6	500
R3681.12-160-190	12	23	23	195	265	50	70	14	4	13.8	13x16x6	500
R3681.12-180-225	12	23	23	180	225	56	45	13	4	13.8	13x16x6	560
R3681.12-200-270	12	23	23	200	270	56	70	13	4	13.8	13x16x6	620
R3681.12-220-300	12	23	23	220	300	56	80	13	4	13.8	13x16x6	670
R3681.12-250-355	12	23	23	250	355	56	105	13	4	13.8	13x16x6	760
R3681.12-280-420	12	23	23	280	420	56	140	13	4	13.8	13x16x6	840
R3681.14-170-200	14	25	25	170	200	60	30	14	5	16.3	13x16x6	620
R3681.14-180-220	14	25	25	180	220	60	40	14	5	16.3	13x16x6	640
R3681.14-200-260	14	25	25	200	260	60	60	14	5	16.3	13x16x6	720
R3681.14-220-300	14	25	25	220	300	60	80	14	5	16.3	13x16x6	780
R3681.14-250-350	14	25	25	250	350	60	100	14	5	16.3	13x16x6	870
R3681.14-280-420	14	25	25	280	420	60	140	14	5	16.3	13x16x6	960
R3681.14-300-450	14	25	25	300	450	60	150	14	5	16.3	13x16x6	1030
R3681.14-350-550	14	25	25	350	550	60	200	14	5	16.3	13x16x6	1170
R3681.14-400-650	14	25	25	400	650	60	250	14	5	16.3	13x16x6	1330
R3681.16-190-220	16	29	29	190	220	68	30	16	5	18.3	16x20x6	900
R3681.16-210-250	16	29	29	210	250	68	40	16	5	18.3	16x20x6	980
R3681.16-240-320	16	29	29	240	320	68	80	16	5	18.3	16x20x6	1100
R3681.16-250-350	16	29	29	250	350	68	100	16	5	18.3	16x20x6	1140
R3681.16-275-390	16	29	29	275	390	68	115	16	5	18.3	16x20x6	1240
R3681.16-300-430	16	29	29	300	430	68	130	16	5	18.3	16x20x6	1330
R3681.16-380-590	16	29	29	380	590	68	210	16	5	18.3	16x20x6	1600
R3681.16-400-630	16	29	29	400	630	68	230	16	5	18.3	16x20x6	1730
R3681.18-230-280	18	32	32	230	280	74	50	17	6	20.8	18x22x6	1350
R3681.18-250-320	18	32	32	250	320	74	70	17	6	20.8	18x22x6	1460
R3681.18-270-370	18	32	32	270	370	74	100	17	6	20.8	18x22x6	1550
R3681.18-290-400	18	32	32	290	400	74	110	17	6	20.8	18x22x6	1660
R3681.18-300-415	18	32	32	300	415	74	115	17	6	20.8	18x22x6	1710
R3681.18-400-620	18	32	32	400	620	74	220	17	6	20.8	18x22x6	2230
R3681.18-500-820	18	32	32	500	820	74	320	17	6	20.8	18x22x6	2750
R3681.25-380-500	25	45	40	380	500	108	120	26	8	28.3	26x32x6	4200



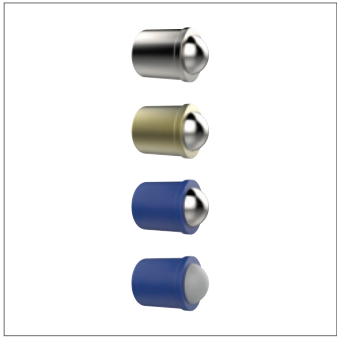
12048.1

Material
Steel (SK95), tempered, black oxide finish, precision ground.

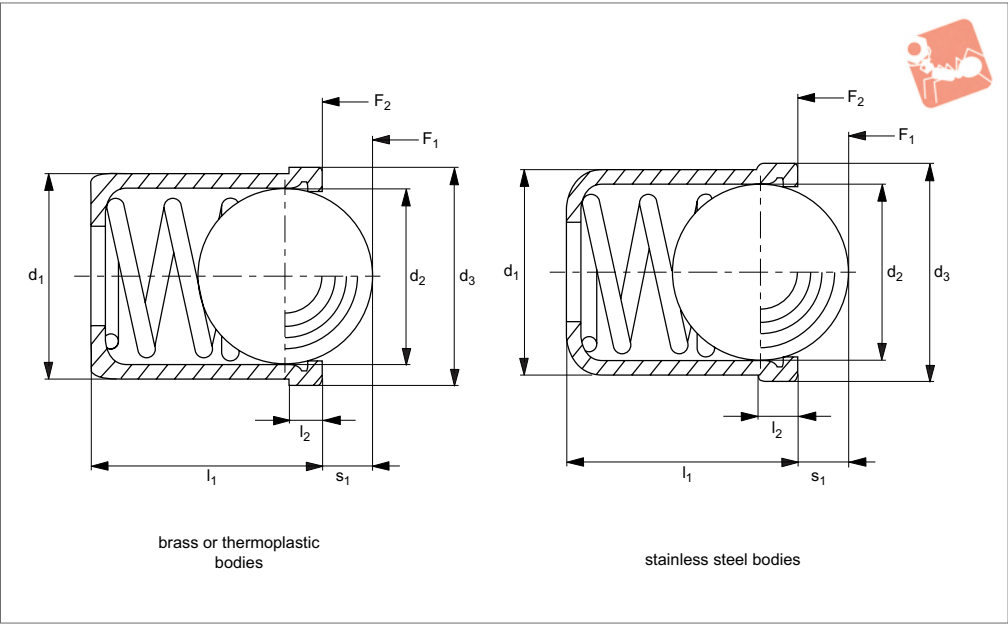
Technical Notes
Can be used to increase the accuracy of single clamping module (see part no.

12045) location on the fixture plate. Can achieve clamping module locating repeatability of up to 0,04mm.

Order No.	h ₁	Suitable clamping module 12045	Size	d ₁	d ₂ tol. h6	Weight g
12048.W0008	11	8	8	6.0	8	2
12048.W0011	15	11	11	8.5	12	7
12048.W0016	22	16	16	12.5	18	22
12048.W0021	28	21	21	16.5	22	35



32300



Material

Body: stainless steel 1.4303 (AISI 305), brass, or thermoplastic POM, blue.
Ball: ball bearing steel 1.3505 (100Cr6) hardened or thermoplastic POM, white.
Spring: stainless steel 1.4568 (X7CrNiAl17-7).

Technical Notes

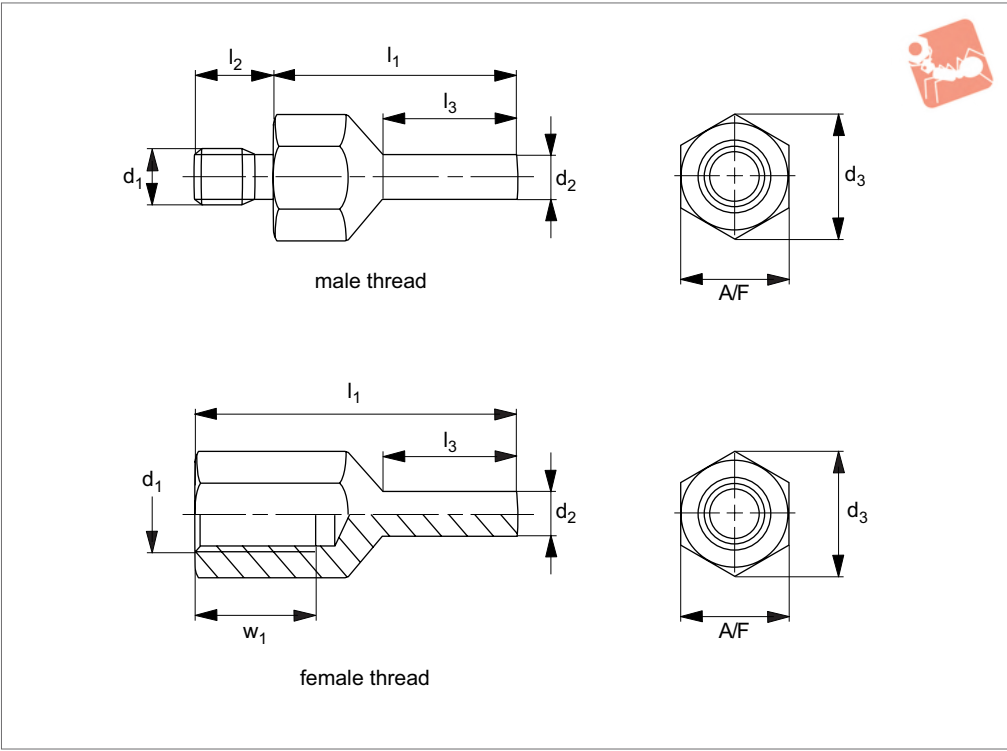
Used for locating, applying pressure or lifting off. Spring loads * = statistical average values. Thermo type temperature range -30°C to +50°C. Stainless and brass type, temperature range max. 250°C. For calculation of indexing resistance please refer to spring plunger technical pages.

Tips

These are press fit spring plungers. Typical hole tolerance is H7 for manual assembly. These fit tolerances vary with type of material so a trial hole is recommended. Light spring load- marked with one line. Standard spring load- no marking. Heavy spring load- marked with two lines. Special types available on request.

Additional sizes available on our website.

Order No.	Spring load	Finish	d ₁	d ₂	d ₃	l ₁	l ₂	s ₁	Spring load F ₁ N	Spring load F ₂ N	Temperature °C	Weight g
32300.W0003	Standard	Body & Ball Stainless	3	2.38	3.5	4.0	0.6	0.70	1.8	3.5	+250	0.20
32300.W0004	Standard	Body & Ball Stainless	4	3.00	4.6	5.0	0.9	1.00	2.5	6.0	+250	0.30
32300.W0005	Standard	Body & Ball Stainless	5	4.00	5.6	6.0	0.9	1.40	3.0	6.5	+250	0.60
32300.W0006	Standard	Body & Ball Stainless	6	5.00	6.5	7.0	1.0	1.80	5.5	11.5	+250	1.00
32300.W0008	Standard	Body & Ball Stainless	8	6.50	8.5	9.0	1.1	2.40	7.0	12.5	+250	2.10
32300.W0010	Standard	Body & Ball Stainless	10	8.50	11.0	13.0	1.5	3.30	8.5	18.5	+250	4.40
32300.W0012	Standard	Body & Ball Stainless	12	10.00	13.0	16.0	2.3	4.00	12.0	26.5	+250	7.30
32300.W0203	Standard	Body Brass, Ball Stainless	3	2.38	3.6	4.0	0.6	0.60	1.8	3.5	+250	0.20
32300.W0204	Standard	Body Brass, Ball Stainless	4	3.00	4.5	5.0	1.0	0.80	3.0	6.0	+250	0.50
32300.W0205	Standard	Body Brass, Ball Stainless	5	4.00	5.5	6.0	1.0	1.00	4.0	6.5	+250	0.80
32300.W0206	Standard	Body Brass, Ball Stainless	6	5.00	6.5	7.0	1.0	1.60	6.0	11.5	+250	1.30
32300.W0208	Standard	Body Brass, Ball Stainless	8	6.50	8.5	9.0	1.0	1.90	8.0	12.5	+250	2.80
32300.W0403	Standard	Body Thermo, Ball S/S	3	2.00	3.6	4.0	0.6	0.55	1.7	3.5	-30/+50	0.09
32300.W0404	Standard	Body Thermo, Ball S/S	4	3.00	4.6	5.0	1.0	0.80	3.0	6.5	-30/+50	0.20
32300.W0405	Standard	Body Thermo, Ball S/S	5	4.00	5.6	6.0	1.0	1.00	6.0	9.4	-30/+50	0.40
32300.W0406	Standard	Body Thermo, Ball S/S	6	5.00	6.5	7.0	1.0	1.60	6.2	12.6	-30/+50	0.70
32300.W0408	Standard	Body Thermo, Ball S/S	8	6.50	8.5	9.0	1.0	1.90	10.0	20.4	-30/+50	1.50
32300.W0410	Standard	Body Thermo, Ball S/S	10	8.00	11.0	13.5	1.5	2.40	11.9	22.3	-30/+50	3.20
32300.W0412	Standard	Body Thermo, Ball S/S	12	10.00	13.0	16.0	1.5	3.30	14.0	25.0	-30/+50	5.80
32300.W0604	Standard	Body & Ball Thermoplast	4	3.00	4.6	5.0	1.0	0.80	3.0	6.5	-30/+50	0.10
32300.W0605	Standard	Body & Ball Thermoplast	5	4.00	5.6	6.0	1.0	1.00	6.0	9.4	-30/+50	0.20
32300.W0606	Standard	Body & Ball Thermoplast	6	5.00	6.5	7.0	1.0	1.60	6.2	12.6	-30/+50	0.30
32300.W0608	Standard	Body & Ball Thermoplast	8	6.50	8.5	9.0	1.0	1.90	10.0	20.4	-30/+50	0.60
32300.W0610	Standard	Body & Ball Thermoplast	10	8.50	11.0	13.5	1.5	2.40	11.9	22.3	-30/+50	1.50



36440

Material

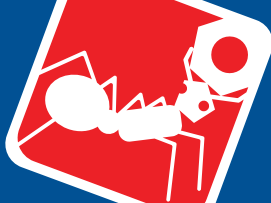
Heat-treated steel, blackened. Surface induction hardened and ground.

Technical Notes

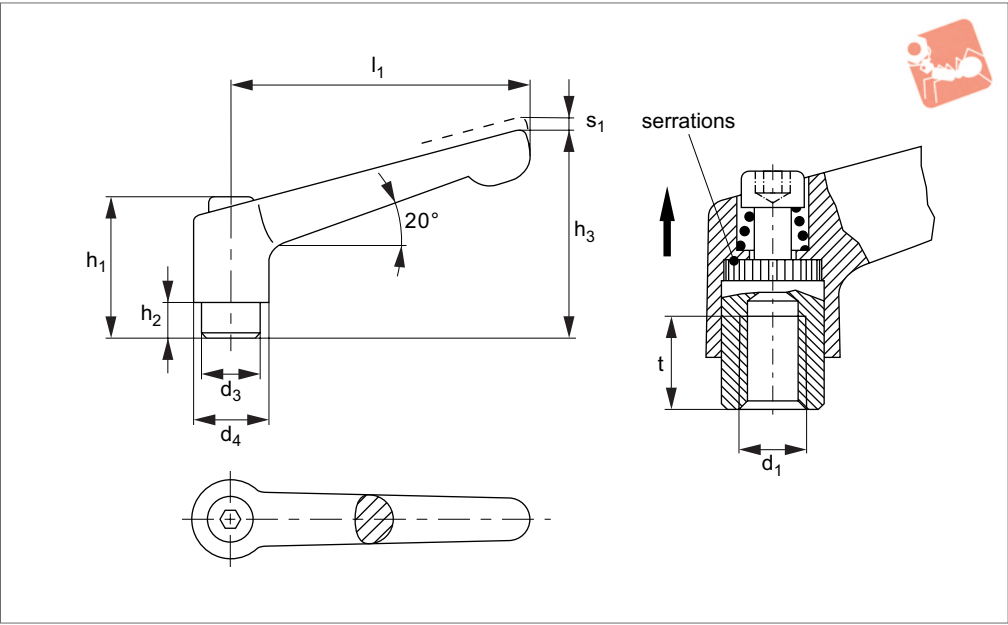
To be used as solid and precise seat and stop. The pin-shaped form of this locating pin allows an application in components

with narrow seating points.

Order No.	Finish	d ₁	l ₁ ±0.01	d ₂	l ₂	d ₃	l ₃	w ₁	A/F	Torque to Nm max.	Weight g
36440.W0402	Male Thread	M 6	20	4	8	11.0	10.0	-	10	7	8
36440.W0404	Male Thread	M 6	30	4	8	11.0	15.0	-	10	7	12
36440.W0412	Male Thread	M 8	30	4	10	14.4	15.0	-	13	18	17
36440.W0414	Male Thread	M 8	40	4	10	14.4	20.0	-	13	18	23
36440.W0416	Male Thread	M 8	30	6	10	14.4	15.0	-	13	18	20
36440.W0418	Male Thread	M 8	40	6	10	14.4	20.0	-	13	18	27
36440.W0422	Male Thread	M 10	30	6	14	19.0	15.0	-	17	32	30
36440.W0424	Male Thread	M 10	50	6	14	19.0	25.0	-	17	32	51
36440.W0426	Male Thread	M 10	30	8	14	19.0	15.0	-	17	32	35
36440.W0428	Male Thread	M 10	50	8	14	19.0	25.0	-	17	32	58
36440.W0432	Male Thread	M 12	40	6	14	21.2	20.0	-	19	60	48
36440.W0434	Male Thread	M 12	60	6	14	21.2	30.0	-	19	60	75
36440.W0436	Male Thread	M 12	40	8	14	21.2	20.0	-	19	60	56
36440.W0438	Male Thread	M 12	60	8	14	21.2	30.0	-	19	60	83
36440.W0452	Female Thread	M 6	20	4	-	11.0	8.5	6	10	7	6
36440.W0454	Female Thread	M 6	30	4	-	11.0	13.5	9	10	7	9
36440.W0462	Female Thread	M 8	30	4	-	14.4	13.0	10	13	18	13
36440.W0464	Female Thread	M 8	40	4	-	14.4	18.0	14	13	18	18
36440.W0466	Female Thread	M 8	30	6	-	14.4	13.0	10	13	18	16
36440.W0468	Female Thread	M 8	40	6	-	14.4	18.0	14	13	18	21
36440.W0472	Female Thread	M 10	30	6	-	19.0	12.0	10	17	32	24
36440.W0474	Female Thread	M 10	50	6	-	19.0	25.0	15	17	32	38
36440.W0476	Female Thread	M 10	30	8	-	19.0	12.0	10	17	32	28
36440.W0478	Female Thread	M 10	50	8	-	19.0	25.0	15	17	32	44
36440.W0482	Female Thread	M 12	40	6	-	21.2	18.0	12	19	60	36
36440.W0484	Female Thread	M 12	60	6	-	21.2	28.0	18	19	60	56
36440.W0486	Female Thread	M 12	40	8	-	21.2	18.0	12	19	60	41
36440.W0488	Female Thread	M 12	60	8	-	21.2	28.0	18	19	60	63



74380

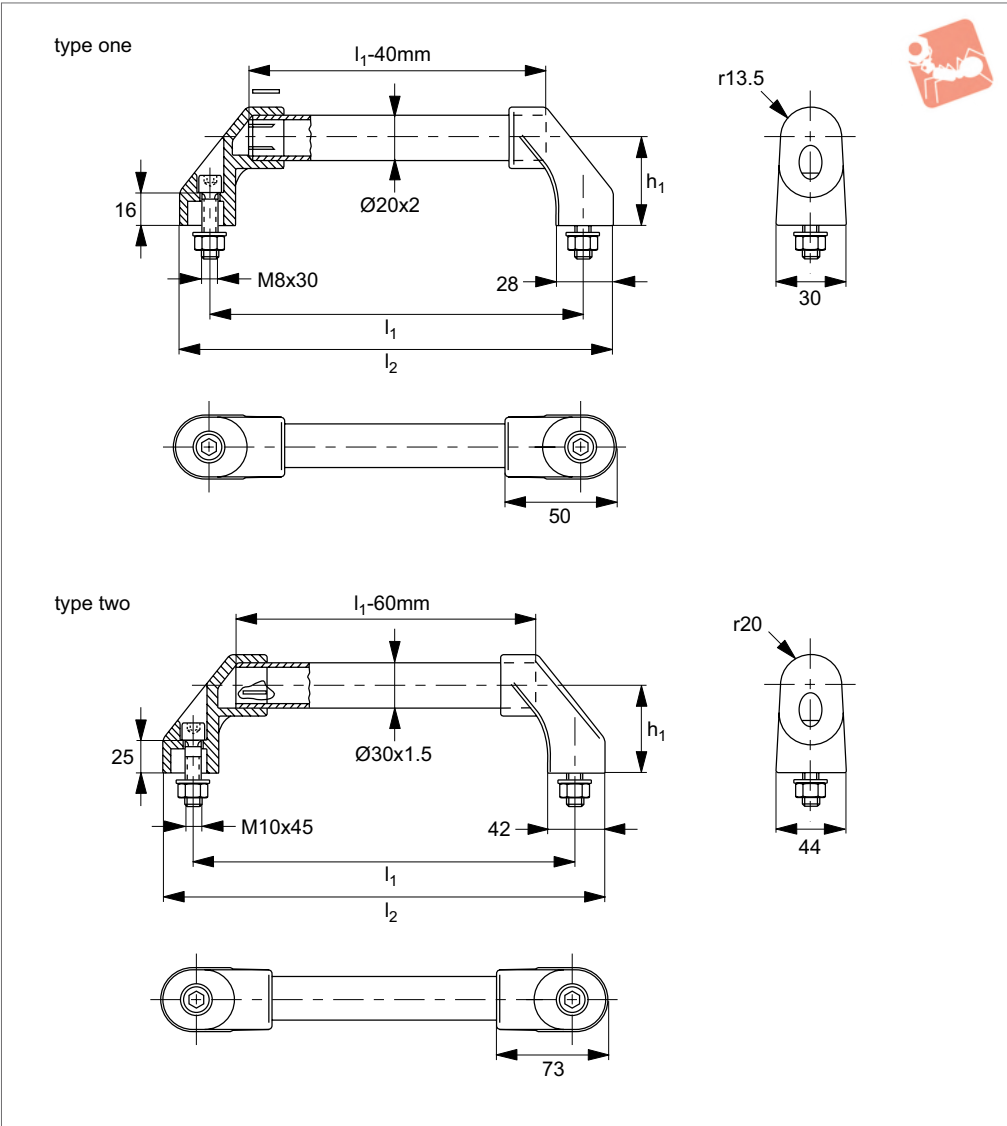


Material
Stainless steel, 1.4308 (AISI CF-8).
Matte blasted.
Inner parts: stainless, 1.4305.
Screw & spring: stainless, 1.4300.

Technical Notes
By lifting the lever, the serrations are disengaged. The handle can be positioned by the serrations, and the threaded insert can be exchanged. Upon releasing the handle, the serrations are automatically re-engaged.

Tips
Ideal for applications with aggressive environments, such as food processing, chemical industries etc.

Order No.	l_1	d_1	d_3	d_4	h_1	h_2	h_3	$t_{min.}$	Stroke s_1	Weight g
74380.W0111	45	M 5	10.0	13.0	24.5	4.0	35	9	3.5	37
74380.W0121	45	M 6	10.0	13.0	24.5	4.0	35	9	3.5	30
74380.W0311	63	M 6	13.5	17.5	31.0	6.5	45	11	4.0	80
74380.W0321	63	M 8	13.5	17.5	31.0	6.5	45	11	4.0	50
74380.W0411	78	M 8	16.0	21.0	36.0	8.0	55	14	4.0	140
74380.W0421	78	M 10	16.0	21.0	36.0	8.0	55	14	4.0	140



79250

Material
Handle shank: polyamide, PA 6 glass ball reinforced, black, semi-matt with fine structure.
Connection tube: aluminium Al Mg Si 0,5.
Surface finishes: ground and anodised in natural colour. Grooved plastic cover,

black. Powder coated, black.

Technical Notes
Type one: supplied with hex screws DIN 912 M8x30, and suitable nuts and washers.
Type two: supplied with hex screws DIN912 M10x45 and suitable nuts and washers.

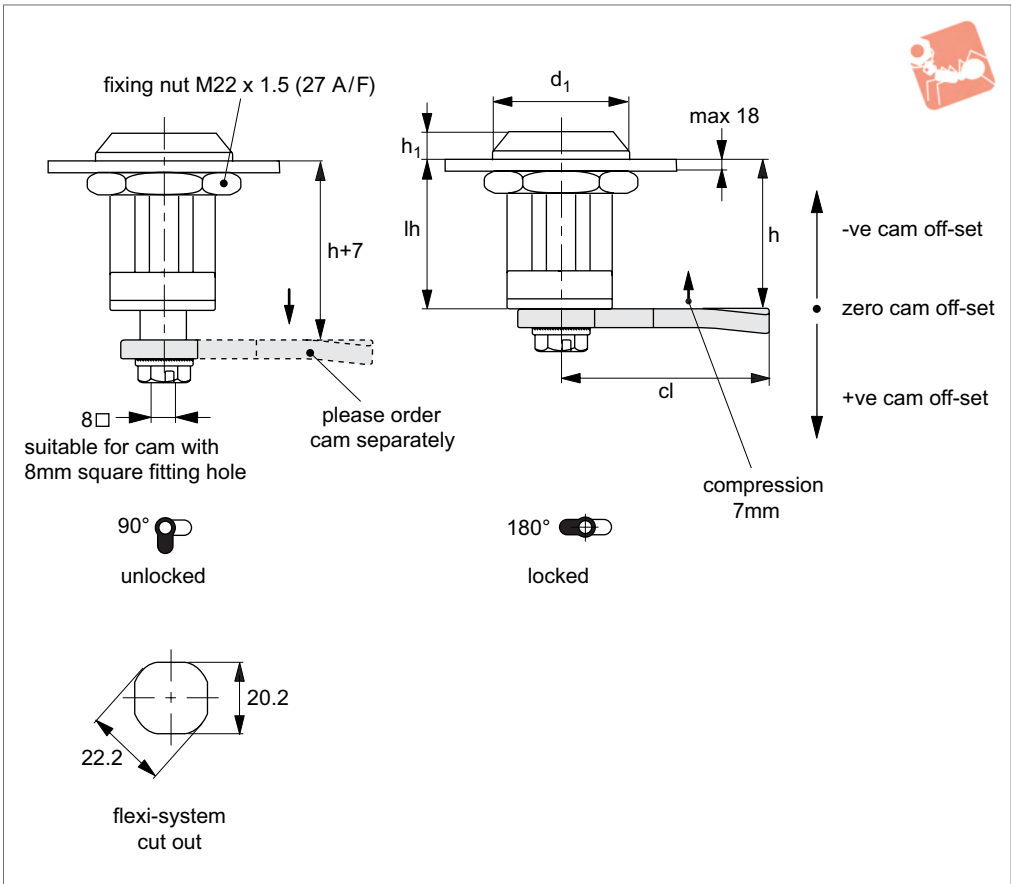
Minimum stress resistance 1000N.

Tips
The handle shank is fitted with 4 clamping pins, when the connection tube is pressed in the pins form around the tube and provide a firm hold.
Additional type and finishes available on our website.

Order No.	Type	Finish	l_1	l_2	h_1 height to centre
79250.W0018	One	Natural	180	210	42
79250.W0020	One	Natural	200	230	42
79250.W0025	One	Natural	250	280	42
79250.W0030	One	Natural	300	330	42
79250.W0035	One	Natural	350	380	42
79250.W0040	One	Natural	400	430	42
79250.W0050	One	Natural	500	530	42
79250.W0060	One	Natural	600	630	42
79250.W0118	One	Plastic Coat	180	210	42
79250.W0120	One	Plastic Coat	200	230	42
79250.W0125	One	Plastic Coat	250	280	42



A1601



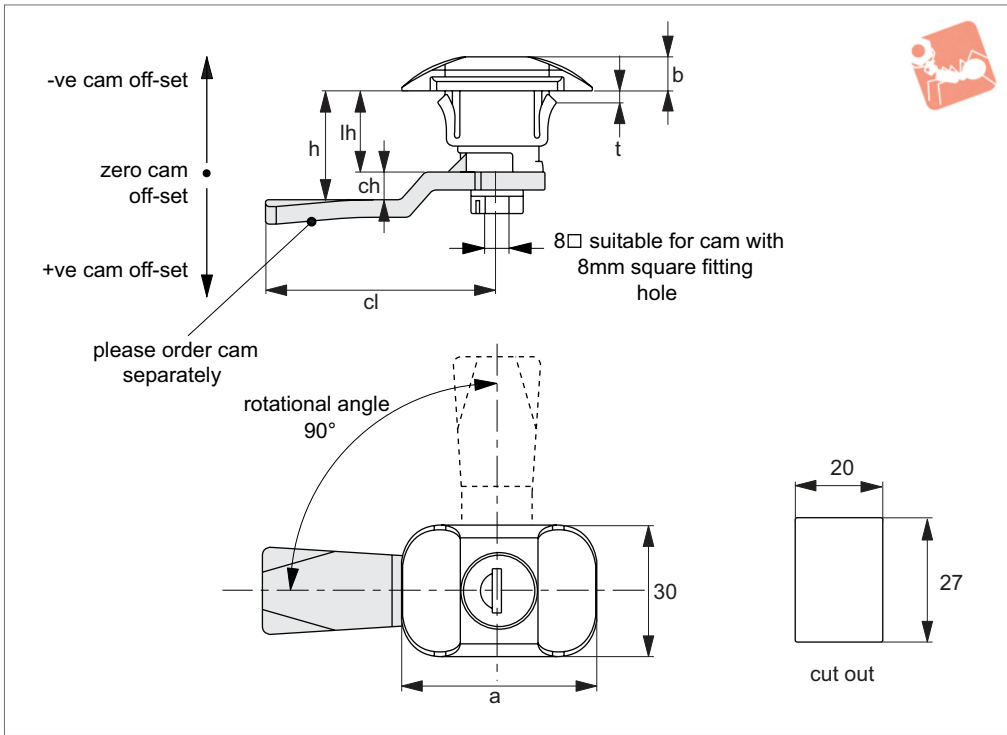
Material
Body & insert: die cast zinc, finished in chrome plate or black powder coating. Insert fitted with O'ring to provide IP54 rating.
Handle: polyamide.
Not supplied: CAM nor KEY - order separately.

Technical Notes
Order cam and key separately.
Cams: see suitable cam A0203 and A0224.

Select „without projection“ cam type. Dimensions ch and cl relate to cam. Use formula to calculate ch (required cam off-set), and refer to cam selection chart;
ch = h - lh where;
ch = required cam off-set/height.
h = grip length (distance between inside of latch face and front of cam).
lh = body length of cam latch/lock to be used (see product table below).

Keys: see A0102.
Tips
Compression locks provide sealing of enclosures to reduce vibration and to provide noise isolation.
Action:
From unlocked position, first 90° turn moves the cam to the locking position. Turn lock 180° to engage compression, cam moves to final fixing position.
Provides a 7mm compression stroke.

Order No.	Finish	Insert driver	d ₁	h ₁	lh
A1601.AW0020	Chrome Plated	Square 8	28	5.5	31
A1601.AW0320	Black Coated	Square 8	28	5.5	31
A1601.AW0040	Chrome Plated	Triangle 7	28	5.5	31
A1601.AW0340	Black Coated	Triangle 7	28	5.5	31
A1601.AW0050	Chrome Plated	Triangle 8	28	5.5	31
A1601.AW0350	Black Coated	Triangle 8	28	5.5	31
A1601.AW0080	Chrome Plated	Slot (2x4)	28	5.5	31
A1601.AW0380	Black Coated	Slot (2x4)	28	5.5	31
A1601.AW0085	Chrome Plated	Hexagon 8	28	5.5	31
A1601.AW0385	Black Coated	Hexagon 8	28	5.5	31



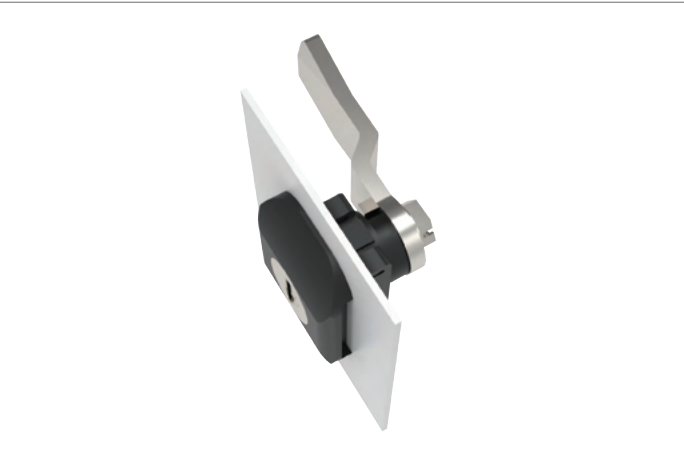
A2005

Material
Cylinder lock: die cast zinc, chrome plated.
Technical Notes
Order cam and key separately.
Cams: see suitable cam A0203, A0224 and A0240. Select „with projection“ cam type. Dimensions ch and cl relate to cam. Use formula to calculate ch (required cam

off-set), and refer to cam selection chart;
ch = h - lh where;
ch = required cam off-set/height.
h = grip length (distance between inside of latch face and front of cam).
lh = body length of cam latch/lock to be used (see product table below).
Suitable for panel thickness 0.8-2mm

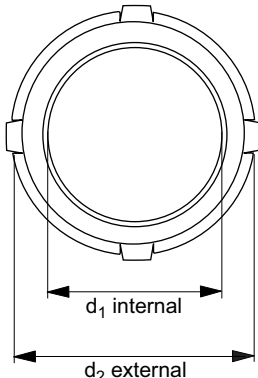
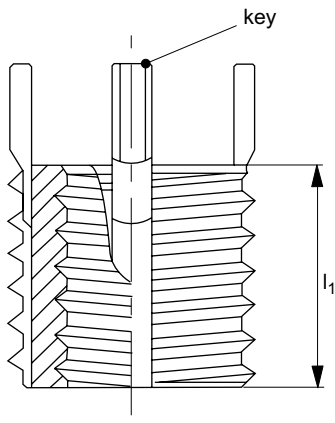
Keys: see A0102.
Tips
Easy snap on fix mounting. Make cut out in panel as shown, and simply push in handle, snap on clips will spring back to securely mount handle.

Order No.	Key type	a	b	t	lh
A2005.AW0010	Keyed Alike	43.0	7.5	0.8-2	17.8
A2005.AW0030	Euro Key	43.0	7.5	0.8-2	17.8





TR1515



Material

Inserts: stainless steel (AISI 303) or equivalent. Passivated.
Keys: stainless steel (302 CRES) or equivalent. Passivated.

Technical Notes

General tolerances:

±0.25, unless specified.

Tap drill hole tolerances:

6.9 to 10.8 = +0.10/-0.025.
12.8 and over = +0.13/-0.025.

Tips

Order installation tool separately, as identified by „Inst. tool ref.“ in table.

Important Notes

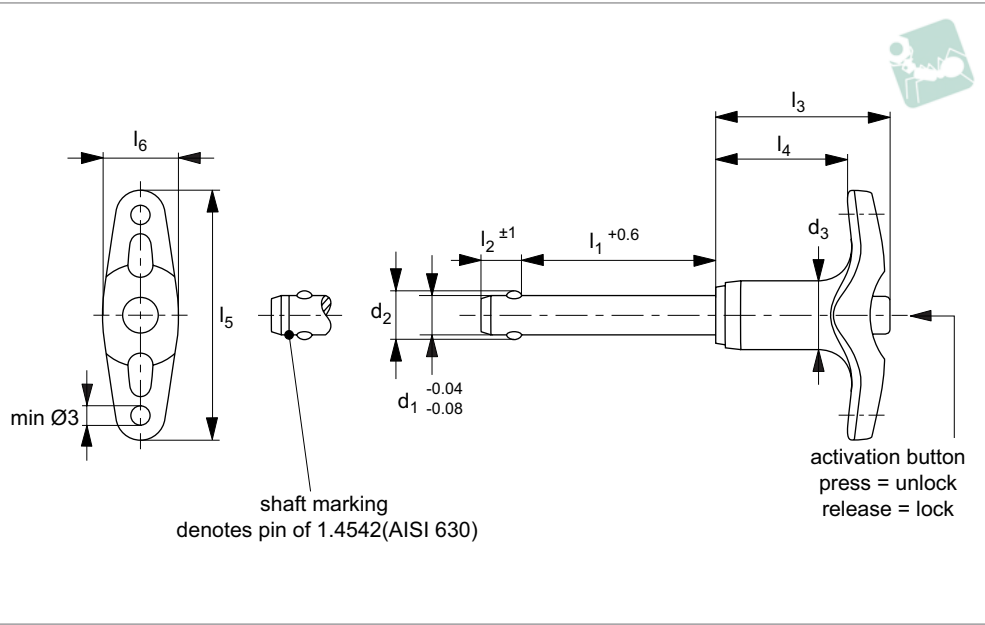
Four locking keys on internal threads M 8 and over. Two locking keys on internal

threads smaller than M 8.

Installation (Inst.) drill size, countersink, thread tap and thread depth as specified in table.

Removal drill size and drill depth as specified in table.

Order No.	Int. d ₁	Int. thread type d ₁	Ext. d ₂	Ext. thread type d ₂	l ₁	Inst. tool ref. 22062	Inst. tap drill size	Inst. c'sink dia.	Inst. thread tap	Inst. thread depth	Removal drill size	Removal drill depth
TR1515.66363	M 4x0.70	Coarse	M 8x1.25	Coarse	8	.W0630	6.9	8.3	M 8x1.25	9.5	5.5	4.0
TR1515.66364	M 5x0.80	Coarse	M 10x1.25	Fine	10	.W0640	8.8	10.3	M 10x1.25	12.5	7.5	4.8
TR1515.66365	M 6x1.00	Coarse	M 12x1.25	Fine	12	.W0650	10.8	12.3	M 12x1.25	14.5	9.5	4.8
TR1515.66366	M 8x1.25	Coarse	M 14x1.50	Fine	14	.W0660	12.8	14.3	M 14x1.50	16.5	11.5	4.8
TR1515.66566	M 8x1.00	Fine	M 14x1.50	Fine	14	.W0660	12.8	14.3	M 14x1.50	16.5	11.5	4.8
TR1515.66367	M 10x1.50	Coarse	M 16x1.50	Fine	16	.W0670	14.8	16.3	M 16x1.50	18.5	13.5	4.8
TR1515.66567	M 10x1.25	Fine	M 16x1.50	Fine	16	.W0670	14.8	16.3	M 16x1.50	18.5	13.5	4.8
TR1515.66369	M 12x1.75	Coarse	M 18x1.50	Fine	18	.W0690	16.8	18.3	M 18x1.50	20.5	15.5	4.8
TR1515.66569	M 12x1.25	Fine	M 18x1.50	Fine	18	.W0690	16.8	18.3	M 18x1.50	20.5	15.5	4.8
TR1515.66370	M 14x2.00	Coarse	M 20x1.50	Fine	20	.W0700	18.8	20.3	M 20x1.50	22.5	17.5	4.8
TR1515.66570	M 14x1.50	Fine	M 20x1.50	Fine	20	.W0700	18.8	20.3	M 20x1.50	22.5	17.5	4.8
TR1515.66371	M 16x2.00	Coarse	M 22x1.50	Fine	22	.W0710	20.5	22.3	M 22x1.50	24.5	17.8	6.4
TR1515.66571	M 16x1.50	Fine	M 22x1.50	Fine	22	.W0710	20.5	22.3	M 22x1.50	24.5	17.8	6.4
TR1515.66572	M 18x1.50	Fine	M 24x1.50	Fine	24	.W0720	22.5	24.3	M 24x1.50	26.5	19.8	6.4
TR1515.66373	M 20x2.50	Coarse	M 30x2.00	Non-Std	30	.W0730	28.0	30.3	M 30x2.00	34.5	25.8	6.4
TR1515.66573	M 20x1.50	Fine	M 30x2.00	Non-Std	30	.W0730	28.0	30.3	M 30x2.00	34.5	25.8	6.4
TR1515.66574	M 22x1.50	Fine	M 32x2.00	Non-Std	32	.W0740	30.0	32.3	M 32x2.00	36.5	27.8	6.4
TR1515.66375	M 24x3.00	Coarse	M 33x2.00	Non-Std	33	.W0750	31.0	33.3	M 33x2.00	37.5	28.8	6.4
TR1515.66575	M 24x2.00	Fine	M 33x2.00	Non-Std	33	.W0750	31.0	33.3	M 33x2.00	37.5	28.8	6.4



Material

Pin: stainless steel 1.4305 (AISI 303).
Ball: stainless steel 1.3541
Handle: aluminium, black (similar to RAL 9005)
Spring: stainless Steel.

Technical Notes

Pressing = unlocking.
Releasing = locking.

Temperature range -30°C to +150°C.

For quick fastening and locking frequently repeated connections.

Tips

For lanyards & retaining cables see part no.LA1066-LA1092. Easy install locating

bushes available see part no.LA1310 + .

Important Notes

*Shearing resistance similar to DIN 50141.

Additional sizes available on our website.

Order No.	d ₁	l ₁	d ₂	d ₃	l ₂	l ₃	l ₄	l ₅	l ₆	Location hole dia.	Shearing resistance, double kN	Weight g
QR1004.M05-010-S	5	10	5.5	11.8	6.0	31.6	24.1	45.2	12.7	5	14	19
QR1004.M05-015-S	5	15	5.5	11.8	6.0	31.6	24.1	45.2	12.7	5	14	20
QR1004.M05-020-S	5	20	5.5	11.8	6.0	31.6	24.1	45.2	12.7	5	14	20
QR1004.M05-025-S	5	25	5.5	11.8	6.0	31.6	24.1	45.2	12.7	5	14	21
QR1004.M05-030-S	5	30	5.5	11.8	6.0	31.6	24.1	45.2	12.7	5	14	22
QR1004.M06-010-S	6	10	7.0	11.8	7.0	31.6	24.1	45.2	12.7	6	21	20
QR1004.M06-015-S	6	15	7.0	11.8	7.0	31.6	24.1	45.2	12.7	6	21	21
QR1004.M06-020-S	6	20	7.0	11.8	7.0	31.6	24.1	45.2	12.7	6	21	22
QR1004.M06-025-S	6	25	7.0	11.8	7.0	31.6	24.1	45.2	12.7	6	21	23
QR1004.M06-030-S	6	30	7.0	11.8	7.0	31.6	24.1	45.2	12.7	6	21	24
QR1004.M06-035-S	6	35	7.0	11.8	7.0	31.6	24.1	45.2	12.7	6	21	25
QR1004.M06-040-S	6	40	7.0	11.8	7.0	31.6	24.1	45.2	12.7	6	21	26
QR1004.M06-045-S	6	45	7.0	11.8	7.0	31.6	24.1	45.2	12.7	6	21	27
QR1004.M06-050-S	6	50	7.0	11.8	7.0	31.6	24.1	45.2	12.7	6	21	28
QR1004.M08-020-S	8	20	9.5	14.7	8.2	35.8	26.9	51.5	15.8	8	38	37
QR1004.M08-025-S	8	25	9.5	14.7	8.2	35.8	26.9	51.5	15.8	8	38	39
QR1004.M08-030-S	8	30	9.5	14.7	8.2	35.8	26.9	51.5	15.8	8	38	41
QR1004.M08-035-S	8	35	9.5	14.7	8.2	35.8	26.9	51.5	15.8	8	38	43
QR1004.M08-040-S	8	40	9.5	14.7	8.2	35.8	26.9	51.5	15.8	8	38	44
QR1004.M08-045-S	8	45	9.5	14.7	8.2	35.8	26.9	51.5	15.8	8	38	46
QR1004.M08-050-S	8	50	9.5	14.7	8.2	35.8	26.9	51.5	15.8	8	38	48
QR1004.M10-020-S	10	20	12.0	14.7	9.6	35.8	26.9	51.5	15.8	10	60	44
QR1004.M10-025-S	10	25	12.0	14.7	9.6	35.8	26.9	51.5	15.8	10	60	47
QR1004.M10-030-S	10	30	12.0	14.7	9.6	35.8	26.9	51.5	15.8	10	60	49
QR1004.M10-035-S	10	35	12.0	14.7	9.6	35.8	26.9	51.5	15.8	10	60	52
QR1004.M10-040-S	10	40	12.0	14.7	9.6	35.8	26.9	51.5	15.8	10	60	55



Medical & Scientific Equipment

Medical and scientific equipment demands exceptional accuracy, reliability and ease of use. Whether supporting diagnostic equipment, laboratory automation or analytical systems, mechanical components must provide precise movement while maintaining smooth operation and long service life.

The Wixroyd Group products help engineers develop equipment where repeatability, adjustment and dependable performance are essential.



Position & Guide

Precision movement is fundamental to laboratory and medical equipment. Linear guides, positioning tables, slides and carriages provide accurate adjustment for imaging systems, inspection equipment and automated sample handling.



Drive & Index

Controlled mechanical movement supports accurate testing, measurement and automated processes. Lead screws, couplings and precision drive components deliver smooth, repeatable positioning where accuracy is critical.



Clamp & Hold

Sensitive equipment requires secure positioning without compromising accuracy. Fixture elements, spring plungers, workholding components and adjustable clamps provide reliable location for instruments, sensors and test fixtures.



Access & Protection

Equipment design often requires secure yet accessible enclosures. Handles, hinges, latches and locking components provide professional access solutions while supporting clean, user-friendly equipment design.



Adjust & Set

Fine adjustment is essential for calibration and repeatable operation. Position indicators, handwheels, fine adjustment mechanisms and levelling feet allow accurate setup and precise equipment alignment.



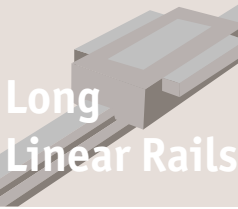
Convey & Transfer

Automated laboratory workflows depend on controlled sample movement. Guide components, transfer systems and handling accessories support reliable movement of trays, samples and components through automated processes.



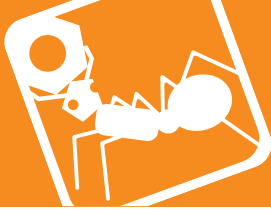
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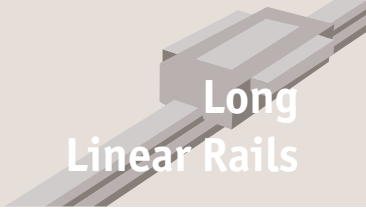


Long
Linear Rails

Low Profile Stainless Sliders
T rail (master)



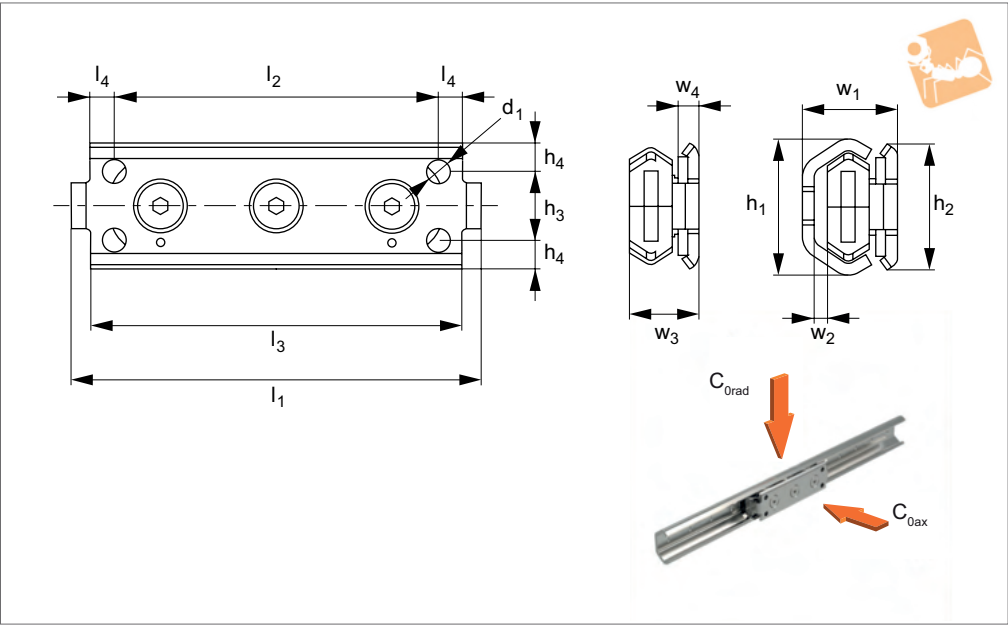
Stainless X Rail
T rail (master)



Long
Linear Rails



L1971.LP



Material
Body stainless steel (316L), stainless steel (AISI 440) rollers with 2RS, water resistant rubber seals.

Technical Notes
The three sizes of sliders are suited to the

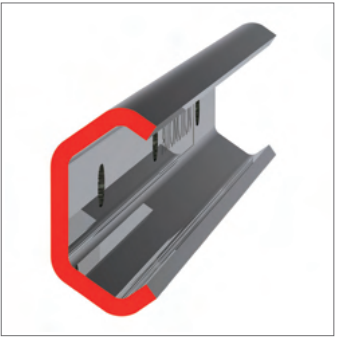
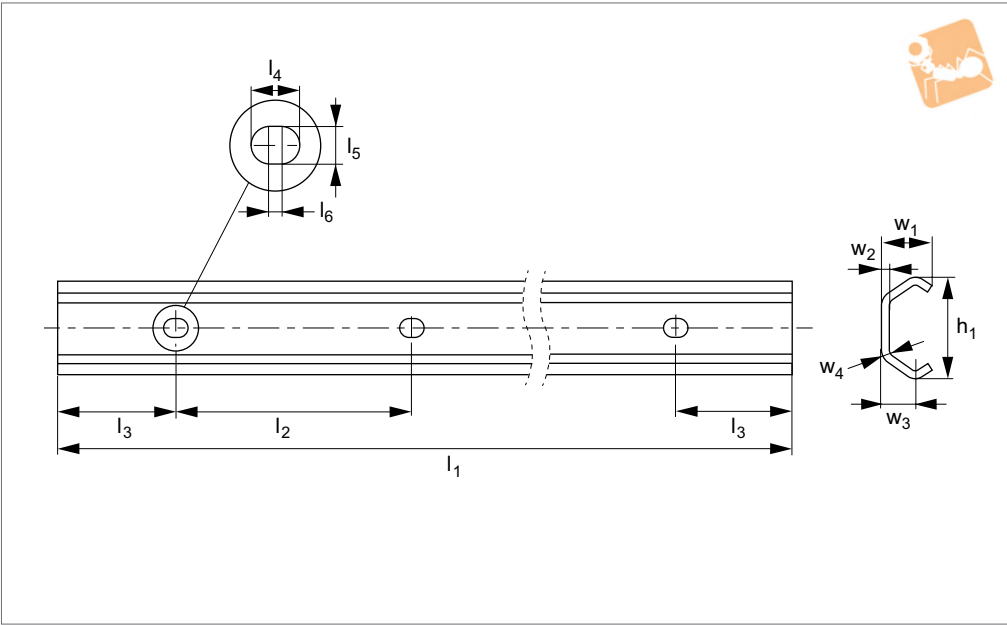
relevant L1971.TEX rail size.
Select the size and quantity to suit the required load.

Tips
The punched dot marked on the slider body indicates the orientation for the loading of

the fixed rollers.
The middle roller is eccentric, allowing the preload to be easily adjusted when mounted inside the rail.
Coefficient of friction (without seals) 0.01.

Order No.	Size	d ₁	l ₁	h ₁	h ₂	h ₃	h ₄	l ₂	Weight kg
L1971.20T-080	20	M 5	80	19.2	18	-	9.0	60	0.05
L1971.30T-088	30	M 5	88	29.5	27	15	6.0	70	0.12
L1971.45T-150	45	M 6	150	46.4	40	23	8.5	120	0.47

Order No.	l ₃	l ₄	w ₁	w ₂	w ₃	w ₄	Load C _{0 rad} N max.	Load C _{0 ax} N max.
L1971.20T-080	20	M 5	80	19.2	18	-	9.0	60
L1971.30T-088	30	M 5	88	29.5	27	15	6.0	70
L1971.45T-150	45	M 6	150	46.4	40	23	8.5	120



L1971.T

Material
Corrosion resistant stainless steel body (440C), with hardened stainless steel ball bearings.
Black plastic end plates and ball bearing retainers.

Technical Notes
Max.speed 3 m/s. max. acceleration 40m/s².

Temperature range -40°C to +80°C.
Select the size and number of carriages to suit the required load then select the required rail length, (see part nos. L1010.07 through to L1010.15).

Tips
Carriages are supplied with a dummy plastic rail. When mounting carriages onto rail, slide directly from the dummy rail

onto the steel rail. Do not simply remove the carriage from the dummy rail - the balls will become loose making the carriage unusable.

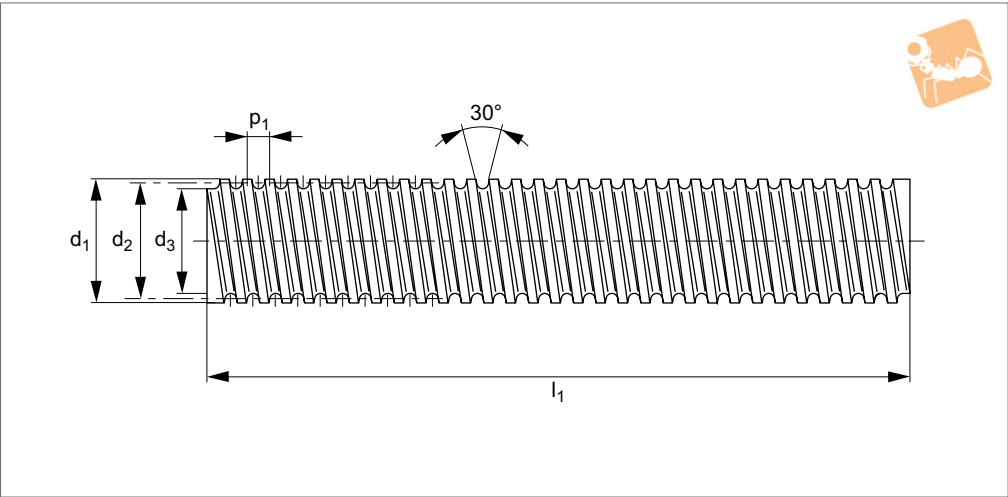
Important Notes
*Size 3 and Size 5 carriage must be ordered with rails.

Order No.	For rail	l ₁	l ₂	l ₃	l ₄	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	d ₂	d ₃	d ₄	For screws d ₁	Weight g
L1010.C03	3*	11.9	6.7	3.5	10	4	3.2	1.1	2.6	-	0.7	-	M 1.6	0.3	M 1.6	0.9
L1010.C03L	3*	16.1	11.0	5.5	10	4	3.2	1.1	2.6	-	0.7	-	M 1.6	0.3	M 2	1.2
L1010.C05	5*	16.3	10.0	-	15	6	4.7	1.5	3.5	1.0	1.3	2.4	3.5	0.7	M 2	3.5
L1010.C05L	5*	19.7	13.5	7	15	6	4.6	2.0	3.5	1.0	1.3	2.4	3.5	0.7	M 2.6	4.0
L1010.C07	7	24.1	14.3	8	15	8	6.6	2.5	4.7	2.3	1.6	2.4	4.2	1.1	M 2	8.0
L1010.C07L	7	31.5	21.8	13	15	8	6.7	2.5	4.7	2.3	1.6	2.4	4.2	1.1	M 2	14.0
L1010.C09	9	30.9	20.5	10	20	10	7.9	3.0	5.5	3.5	2.2	3.5	6.0	1.3	M 3	18.0
L1010.C09L	9	41.1	30.8	16	20	10	8.0	3.0	5.5	3.5	2.2	3.5	6.0	1.3	M 3	28.0
L1010.C12	12	35.8	22.0	15	25	13	10.1	3.5	7.5	4.5	3.2	3.5	6.0	1.3	M 3	34.0
L1010.C12L	12	47.8	34.0	20	25	13	10.2	3.5	7.5	4.5	3.2	3.5	6.0	1.3	M 3	51.0
L1010.C15	15	43.4	27.0	20	40	16	12.2	5.5	9.5	4.5	3.3	3.5	6.0	1.8	M 3	61.0
L1010.C15L	15	60.2	44.0	25	40	16	12.2	5.5	9.5	4.5	3.3	3.5	6.0	1.8	M 3	90.0

Order No.	Static load C _{0 rad & ax} N	w ₁	w ₂	w ₃	w ₄	Dyn. load C _{rad & ax} N	M _x Nm	M _y Nm	M _z Nm
L1010.C03	310	8	-	3	2.5	190	0.6	0.4	0.4
L1010.C03L	575	8	-	3	2.5	295	0.9	1.1	1.1
L1010.C05	550	12	8	5	3.5	335	1.7	1.0	1.0
L1010.C05L	900	12	-	5	3.5	470	2.4	2.1	2.1
L1010.C07	1440	17	12	7	5.0	890	5.2	3.3	3.3
L1010.C07L	2440	17	12	7	5.0	1310	9.0	7.7	7.7
L1010.C09	2495	20	15	9	5.5	1570	11.7	6.4	6.4
L1010.C09L	3880	20	15	9	5.5	2135	18.2	12.4	12.4
L1010.C12	3465	27	20	12	7.5	2308	21.5	12.9	12.9
L1010.C12L	5630	27	20	12	7.5	3240	34.9	30.2	30.2
L1010.C15	5590	32	25	15	8.5	3810	43.6	27.0	27.0
L1010.C15L	9080	32	25	15	8.5	5350	70.0	63.3	63.3



L1322



Material
Rolled trapezoidal thread, stainless steel (AISI 316L, A4). Resistant to nearly all types of corrosion (can be used in a wet or corrosive environment). Manufactured to ISO 2901/2093, DIN103. Surface hardness approx. 280HB.

Technical Notes
„Lead“ refers to the distance that a nut will

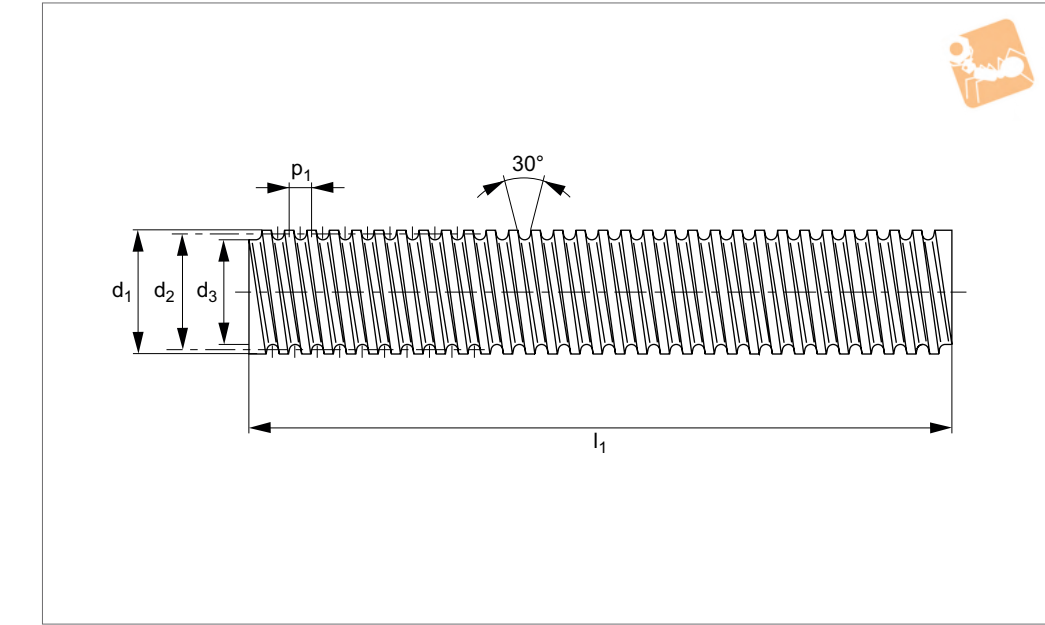
travel for a complete revolution of the screw.
Select a suitable lead screw nut (part nos. L1330 to L1343) to suit the lead screw - the most popular nuts are the flanged, bronze nuts part no. L1331.

Tips
Right hand thread lead screws are standard.

For left hand stainless steel threads see part no. L1323.
Cutting to required length and machining of ends - on request.
Lead screw lengths of up to 6 metres can be provided for a diameter >30mm.

Additional sizes up to TR70x10 available on our website.

Order No.	Size	No. of starts	d ₁	Lead	p ₁	d ₂	d ₂	d ₃	d ₃	l ₁	Lead angle	Pitch accuracy mm/300mm	Straightness mm/300mm	Weight kg
L1322.R10-02-1.0	TR10x2	1	10	2	2	8.739	8.929	6.891	7.500	1000	4°07'	0.3	1.5	0.48
L1322.R10-02-1.5	TR10x2	1	10	2	2	8.739	8.929	6.891	7.500	1500	4°07'	0.3	1.5	0.72
L1322.R10-02-2.0	TR10x2	1	10	2	2	8.739	8.929	6.891	7.500	2000	4°07'	0.3	1.5	0.96
L1322.R10-02-3.0	TR10x2	1	10	2	2	8.739	8.929	6.891	7.500	3000	4°07'	0.3	1.5	1.44
L1322.R12-03-1.0	TR12x3	1	12	3	3	10.191	10.415	7.685	8.500	1000	5°17'	0.3	1.5	0.65
L1322.R12-03-1.5	TR12x3	1	12	3	3	10.191	10.415	7.685	8.500	1500	5°17'	0.3	1.5	0.97
L1322.R12-03-2.0	TR12x3	1	12	3	3	10.191	10.415	7.685	8.500	2000	5°17'	0.3	1.5	1.30
L1322.R12-03-3.0	TR12x3	1	12	3	3	10.191	10.415	7.685	8.500	3000	5°17'	0.3	1.5	1.95
L1322.R14-03-1.0	TR14x3	1	14	3	3	12.191	12.415	9.685	10.500	1000	4°26'	0.3	1.5	0.93
L1322.R14-03-1.5	TR14x3	1	14	3	3	12.191	12.415	9.685	10.500	1500	4°26'	0.3	1.5	1.39
L1322.R14-03-2.0	TR14x3	1	14	3	3	12.191	12.415	9.685	10.500	2000	4°26'	0.3	1.5	1.86
L1322.R14-03-3.0	TR14x3	1	14	3	3	12.191	12.415	9.685	10.500	3000	4°26'	0.3	1.5	2.79
L1322.R16-04-1.0	TR16x4	1	16	4	4	13.640	13.905	10.474	11.500	1000	5°16'	0.1	1.5	1.17
L1322.R16-04-1.5	TR16x4	1	16	4	4	13.640	13.905	10.474	11.500	1500	5°16'	0.1	1.5	1.75
L1322.R16-04-2.0	TR16x4	1	16	4	4	13.640	13.905	10.474	11.500	2000	5°16'	0.1	1.5	2.34
L1322.R16-04-3.0	TR16x4	1	16	4	4	13.640	13.905	10.474	11.500	3000	5°16'	0.1	1.5	3.51
L1322.R18-04-1.0	TR18x4	1	18	4	4	15.640	15.905	12.474	13.500	1000	4°36'	0.1	1.5	1.52
L1322.R18-04-1.5	TR18x4	1	18	4	4	15.640	15.905	12.474	13.500	1500	4°36'	0.1	1.5	2.28
L1322.R18-04-2.0	TR18x4	1	18	4	4	15.640	15.905	12.474	13.500	2000	4°36'	0.1	1.5	3.04
L1322.R18-04-3.0	TR18x4	1	18	4	4	15.640	15.905	12.474	13.500	3000	4°36'	0.1	1.5	4.56
L1322.R20-04-1.0	TR20x4	1	20	4	4	17.640	17.905	14.474	15.500	1000	4°05'	0.1	1.5	1.94
L1322.R20-04-1.5	TR20x4	1	20	4	4	17.640	17.905	14.474	15.500	1500	4°05'	0.1	1.5	2.91
L1322.R20-04-2.0	TR20x4	1	20	4	4	17.640	17.905	14.474	15.500	2000	4°05'	0.1	1.5	3.88
L1322.R20-04-3.0	TR20x4	1	20	4	4	17.640	17.905	14.474	15.500	3000	4°05'	0.1	1.5	5.82
L1322.R22-05-1.0	TR22x5	1	22	5	5	19.114	19.393	15.294	16.500	1000	4°43'	0.1	1.5	2.29
L1322.R22-05-1.5	TR22x5	1	22	5	5	19.114	19.393	15.294	16.500	1500	4°43'	0.1	1.5	3.43
L1322.R22-05-2.0	TR22x5	1	22	5	5	19.114	19.393	15.294	16.500	2000	4°43'	0.1	1.5	4.58
L1322.R22-05-3.0	TR22x5	1	22	5	5	19.114	19.393	15.294	16.500	3000	4°43'	0.1	1.5	6.84
L1322.R24-05-1.0	TR24x5	1	24	5	5	21.094	21.394	17.269	18.500	1000	4°17'	0.1	1.5	2.78



L1325

Material
Rolled trapezoidal thread, stainless steel (AISI 304, A2). Manufactured to ISO 2901/2093, DIN103.

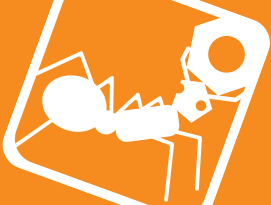
Technical Notes
„Lead“ refers to the distance that a nut will travel for a complete revolution of the

screw. Select a suitable lead screw nut (part nos. L1330 to L1343) to suit the lead screw - the most popular nuts are the flanged, bronze nuts part no. L1331.

Tips
Right hand thread lead screws are standard. For left hand stainless steel threads

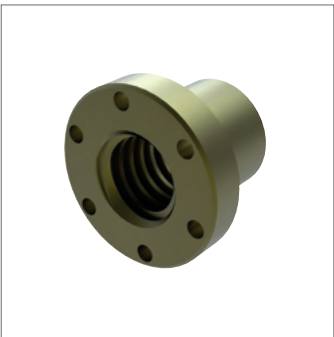
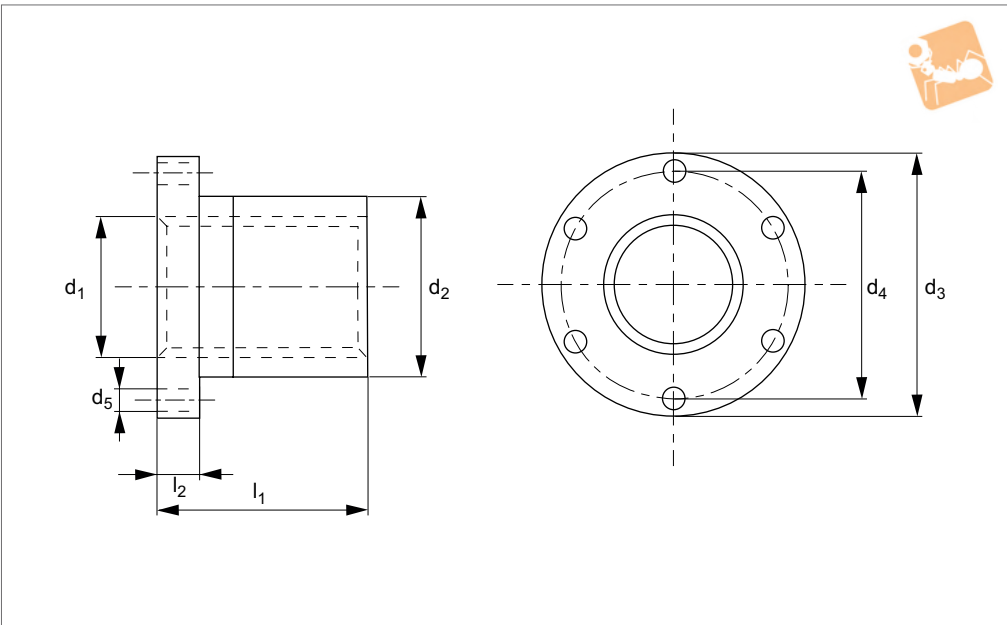
see part no. L1326. Cutting to required length and machining of ends - on request.
Lead screw lengths of up to 6 metres can be provided for a diameter >30mm.

Order No.	Size	No. of starts	d ₁ tol, 7e	Lead	p ₁	d ₂ tol, 7e min	d ₂ tol, 7e max	d ₃ tol, 7h min	d ₃ tol, 7h max	Weight kg
L1325.R08-015-1.0	TR08x1.5	1	8	1.5	1.5	7.013	7.183	5.763	7.200	0.31
L1325.R08-015-1.5	TR08x1.5	1	8	1.5	1.5	7.013	7.183	5.763	7.200	0.46
L1325.R08-015-2.0	TR08x1.5	1	8	1.5	1.5	7.013	7.183	5.763	7.200	0.64
L1325.R08-015-3.0	TR08x1.5	1	8	1.5	1.5	7.013	7.183	5.763	7.200	0.93
L1325.R10-02-1.0	TR10x2.0	1	10	2.0	2.0	8.739	8.929	6.891	7.500	0.48
L1325.R10-02-1.5	TR10x2.0	1	10	2.0	2.0	8.739	8.929	6.891	7.500	0.72
L1325.R10-02-2.0	TR10x2.0	1	10	2.0	2.0	8.739	8.929	6.891	7.500	0.96
L1325.R10-02-3.0	TR10x2.0	1	10	2.0	2.0	8.739	8.929	6.891	7.500	1.44
L1325.R12-03-1.0	TR12x3.0	1	12	3.0	3.0	10.191	10.415	7.685	8.500	0.65
L1325.R12-03-1.5	TR12x3.0	1	12	3.0	3.0	10.191	10.415	7.685	8.500	0.97
L1325.R12-03-2.0	TR12x3.0	1	12	3.0	3.0	10.191	10.415	7.685	8.500	1.30
L1325.R12-03-3.0	TR12x3.0	1	12	3.0	3.0	10.191	12.415	7.685	8.500	1.95
L1325.R14-03-3.0	TR14x3.0	1	14	3.0	3.0	13.640	13.905	9.685	10.500	2.79
L1325.R16-04-1.0	TR16x4.0	1	16	4.0	4.0	13.640	13.905	10.474	11.500	1.17
L1325.R16-04-1.5	TR16x4.0	1	16	4.0	4.0	13.640	13.905	10.474	11.500	1.75
L1325.R16-04-2.0	TR16x4.0	1	16	4.0	4.0	13.640	13.905	10.474	11.500	2.34
L1325.R16-04-3.0	TR16x4.0	1	16	4.0	4.0	13.640	13.905	10.474	11.500	3.51
L1325.R18-04-1.0	TR18x4.0	1	18	4.0	4.0	15.640	15.905	12.474	13.500	1.52
L1325.R18-04-1.5	TR18x4.0	1	18	4.0	4.0	15.640	15.905	12.474	13.500	2.28
L1325.R18-04-2.0	TR18x4.0	1	18	4.0	4.0	15.640	15.905	12.474	13.500	3.04
L1325.R18-04-3.0	TR18x4.0	1	18	4.0	4.0	15.640	15.905	12.474	13.500	4.56
L1325.R20-04-1.0	TR20x4.0	1	20	4.0	4.0	17.640	17.905	14.474	15.500	1.94
L1325.R20-04-1.5	TR20x4.0	1	20	4.0	4.0	17.640	17.905	14.474	15.500	2.91
L1325.R20-04-2.0	TR20x4.0	1	20	4.0	4.0	17.640	17.905	14.474	15.500	3.88
L1325.R20-04-3.0	TR20x4.0	1	20	4.0	4.0	17.640	17.905	14.474	15.500	5.82
L1325.R24-05-1.0	TR24x5.0	1	24	5.0	5.0	21.094	21.394	17.269	18.500	2.78
L1325.R24-05-1.5	TR24x5.0	1	24	5.0	5.0	21.094	21.394	17.269	18.500	4.17
L1325.R24-05-2.0	TR24x5.0	1	24	5.0	5.0	21.094	21.394	17.269	18.500	5.56
L1325.R24-05-3.0	TR24x5.0	1	24	5.0	5.0	21.094	21.394	17.269	18.500	8.34
L1325.R28-05-1.0	TR28x5.0	1	28	5.0	5.0	25.094	25.394	21.269	22.500	3.90



Order No.	Size	No. of starts	d ₁ tol. 7e	Lead	P ₁	d ₂ tol. 7e min	d ₂ tol. 7e max	d ₃ tol. 7h min	d ₃ tol. 7h max	Weight kg
L1325.R28-05-1.5	TR28x5.0	1	28	5.0	5.0	25.094	25.394	21.269	22.500	5.85
L1325.R28-05-2.0	TR28x5.0	1	28	5.0	5.0	25.094	25.394	21.269	22.500	7.80
L1325.R28-05-3.0	TR28x5.0	1	28	5.0	5.0	25.094	25.394	21.269	22.500	11.7
L1325.R30-06-1.0	TR30x6.0	1	30	6.0	6.0	26.547	26.882	21.563	23.000	4.35
L1325.R30-06-1.5	TR30x6.0	1	30	6.0	6.0	26.547	26.882	21.563	23.000	6.52
L1325.R30-06-2.0	TR30x6.0	1	30	6.0	6.0	26.547	26.882	21.563	23.000	8.70
L1325.R30-06-3.0	TR30x6.0	1	30	6.0	6.0	26.547	26.882	21.563	23.000	13.05
L1325.R36-06-1.0	TR36x6.0	1	36	6.0	6.0	32.547	32.882	27.563	29.000	6.54
L1325.R36-06-1.5	TR36x6.0	1	36	6.0	6.0	32.547	32.882	27.563	29.000	9.81
L1325.R36-06-2.0	TR36x6.0	1	36	6.0	6.0	32.547	32.882	27.563	29.000	13.08
L1325.R36-06-3.0	TR36x6.0	1	36	6.0	6.0	32.547	32.882	27.563	29.000	19.62
L1325.R40-07-1.0	TR40x7.0	1	40	7.0	7.0	36.020	36.375	30.381	32.000	7.98
L1325.R40-07-1.5	TR40x7.0	1	40	7.0	7.0	36.020	36.375	30.381	32.000	11.97
L1325.R40-07-2.0	TR40x7.0	1	40	7.0	7.0	36.020	36.375	30.381	32.000	15.96
L1325.R40-07-3.0	TR40x7.0	1	40	7.0	7.0	36.020	36.375	30.381	32.000	23.94

Order No.	l ₁	Lead angle	Pitch accuracy mm/300mm	Straightness mm/300mm
L1325.R08-015-1.0	1000	3°50'	0.300	1.5
L1325.R08-015-1.5	1500	3°50'	0.300	1.5
L1325.R08-015-2.0	2000	3°50'	0.300	1.5
L1325.R08-015-3.0	3000	3°50'	0.300	1.5
L1325.R10-02-1.0	1000	4°07'	0.300	1.5
L1325.R10-02-1.5	1500	4°07'	0.300	1.5
L1325.R10-02-2.0	2000	4°07'	0.300	1.5
L1325.R10-02-3.0	3000	4°07'	0.300	1.5
L1325.R12-03-1.0	1000	5°17'	0.300	1.5
L1325.R12-03-1.5	1500	5°17'	0.300	1.5
L1325.R12-03-2.0	2000	5°17'	0.300	1.5
L1325.R12-03-3.0	3000	5°17'	0.300	1.5
L1325.R14-03-3.0	3000	4°26'	0.300	1.5
L1325.R16-04-1.0	1000	5°16'	0.100	1.5
L1325.R16-04-1.5	1500	5°16'	0.100	1.5
L1325.R16-04-2.0	2000	5°16'	0.100	1.5
L1325.R16-04-3.0	3000	5°16'	0.100	1.5
L1325.R18-04-1.0	1000	4°36'	0.100	1.5
L1325.R18-04-1.5	1500	4°36'	0.100	1.5
L1325.R18-04-2.0	2000	4°36'	0.100	1.5
L1325.R18-04-3.0	3000	4°36'	0.100	1.5
L1325.R20-04-1.0	1000	4°05'	0.100	1.5
L1325.R20-04-1.5	1500	4°05'	0.100	1.5
L1325.R20-04-2.0	2000	4°05'	0.100	1.5
L1325.R20-04-3.0	3000	4°05'	0.100	1.5
L1325.R24-05-1.0	1000	4°17'	0.100	1.5
L1325.R24-05-1.5	1500	4°17'	0.100	1.5
L1325.R24-05-2.0	2000	4°17'	0.100	1.5
L1325.R24-05-3.0	3000	4°17'	0.100	1.5
L1325.R28-05-1.0	1000	3°36'	0.100	1.5
L1325.R28-05-1.5	1500	3°36'	0.100	1.5
L1325.R28-05-2.0	2000	3°36'	0.100	1.5
L1325.R28-05-3.0	3000	3°36'	0.100	1.5
L1325.R30-06-1.0	1000	4°05'	0.100	1.5
L1325.R30-06-1.5	1500	4°05'	0.100	1.5
L1325.R30-06-2.0	2000	4°05'	0.100	1.5
L1325.R30-06-3.0	3000	4°05'	0.100	1.5
L1325.R36-06-1.0	1000	3°20'	0.100	1.5
L1325.R36-06-1.5	1500	3°20'	0.100	1.5
L1325.R36-06-2.0	2000	3°20'	0.100	1.5
L1325.R36-06-3.0	3000	3°20'	0.100	1.5
L1325.R40-07-1.0	1000	3°31'	0.015	1.5
L1325.R40-07-1.5	1500	3°31'	0.015	1.5
L1325.R40-07-2.0	2000	3°31'	0.015	1.5
L1325.R40-07-3.0	3000	3°31'	0.015	1.5



L1331

Material
Bronze (CuSn7ZnPb).

Technical Notes
For manual or powered applications at

medium/low rotation speeds under load.

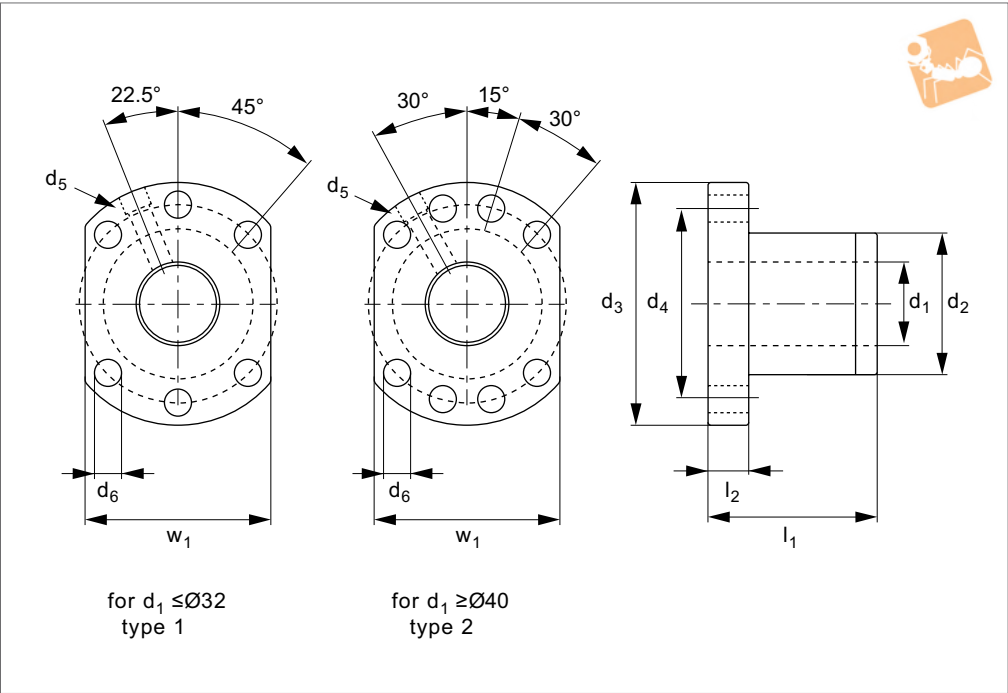
Tips
Standard nuts are right hand thread, single starts.

For use with steel or stainless steel lead screws, L1320, L1321, L1322, and L1323.
Left hand thread available on our website.

Order No.	Size	No. of starts	d ₁ tol. 7H	Lead	Thread hand	Contact surface mm ²	d ₂ tol. h9	d ₃ tol. h11	d ₄	d ₅	l ₁ ±0.2	l ₂ +0.15 -0.0	Weight kg
L1331.R08-015	TR8x1.5	1	8	1.5	Right	170	18	35	26	6	20	7	0.135
L1331.R10-02	TR10x 2	1	10	2	Right	250	25	42	34	5	25	10	0.164
L1331.R10-04	TR10x 4	2	10	4	Right	250	25	42	34	5	25	10	0.164
L1331.R12-03	TR12x 3	1	12	3	Right	400	28	48	38	6	35	12	0.266
L1331.R12-06	TR12x 6	2	12	6	Right	400	28	48	38	6	35	12	0.266
L1331.R14-03	TR14x 3	1	14	3	Right	460	28	48	38	6	35	12	0.258
L1331.R14-06	TR14x 6	2	14	6	Right	460	28	48	38	6	35	12	0.258
L1331.R16-04	TR16x 4	1	16	4	Right	530	28	48	38	6	35	12	0.244
L1331.R16-08	TR16x 8	2	16	8	Right	530	28	48	38	6	35	12	0.244
L1331.R18-04	TR18x 4	1	18	4	Right	610	28	48	38	6	35	12	0.228
L1331.R18-08	TR18x 8	2	18	8	Right	610	28	48	38	6	35	12	0.228
L1331.R20-04	TR20x 4	1	20	4	Right	870	32	55	45	7	44	12	0.346
L1331.R20-08	TR20x 8	2	20	8	Right	870	32	55	45	7	44	12	0.346
L1331.R22-05	TR22x 5	1	22	5	Right	1030	32	55	45	7	44	12	0.322
L1331.R22-10	TR22x10	2	22	10	Right	1030	32	55	45	7	44	12	0.322
L1331.R24-05	TR24x 5	1	24	5	Right	1040	32	55	45	7	44	12	0.304
L1331.R24-10	TR24x10	2	24	10	Right	1040	32	55	45	7	44	12	0.304
L1331.R26-05	TR26x 5	1	26	5	Right	1280	38	62	50	7	46	14	0.474
L1331.R26-10	TR26x10	2	26	10	Right	1280	38	62	50	7	46	14	0.474
L1331.R28-05	TR28x 5	1	28	5	Right	1200	38	62	50	7	46	14	0.442
L1331.R28-10	TR28x10	2	28	10	Right	1200	38	62	50	7	46	14	0.442
L1331.R30-06	TR30x 6	1	30	6	Right	1370	38	62	50	7	46	14	0.408
L1331.R30-12	TR30x12	2	30	12	Right	1370	38	62	50	7	46	14	0.408
L1331.R32-06	TR32x 6	1	32	6	Right	1710	45	70	58	7	54	16	0.706
L1331.R32-12	TR32x12	2	32	12	Right	1710	45	70	58	7	54	16	0.706
L1331.R36-06	TR36x 6	1	36	6	Right	1950	45	70	58	7	54	16	0.606
L1331.R36-12	TR36x12	2	36	12	Right	1950	45	70	58	7	54	16	0.606
L1331.R40-07	TR40x 7	1	40	7	Right	2650	63	95	78	9	66	16	1.700
L1331.R40-14	TR40x14	2	40	14	Right	2650	63	95	78	9	66	16	1.700
L1331.R44-07	TR44x 7	1	44	7	Right	2940	63	95	78	9	66	16	1.524
L1331.R50-08	TR50x 8	1	50	8	Right	4540	72	110	90	11	75	18	2.324
L1331.R60-09	TR60x 9	1	60	9	Right	5490	88	130	110	13	90	20	3.942
L1331.R70-10	TR70x10	1	70	10	Right	7500	95	140	120	13	105	22	4.465



L1370



Material
Steel (16MnCr5 or 100Cr6), with Vulkollan seals.

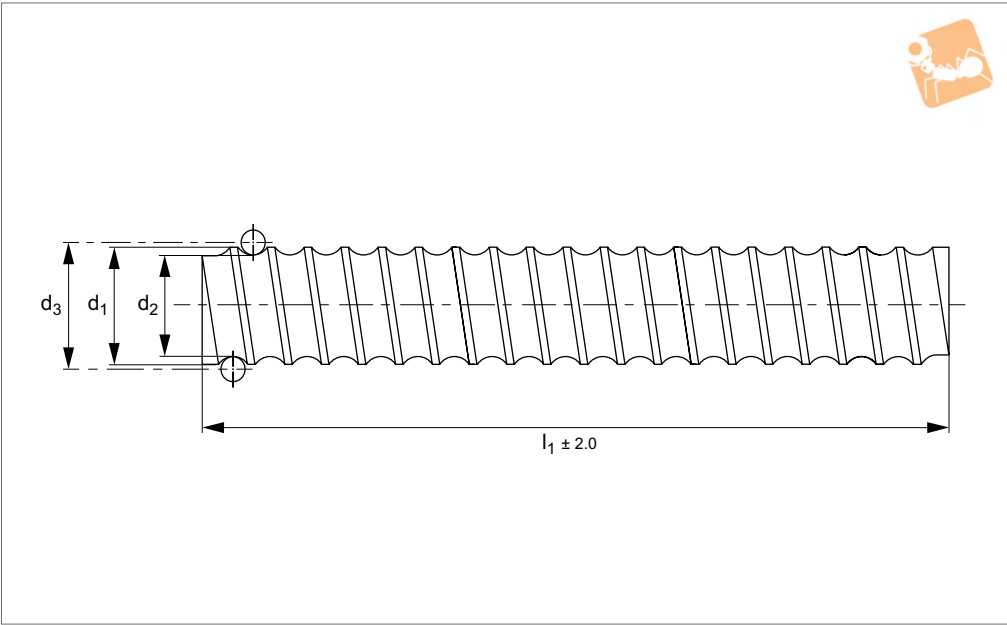
Technical Notes
To DIN 69051 form B.
Axial play for 5mm pitch = 0,05mm; for 10mm pitch = 0,10mm; for multi-starts = 0,20mm.
Preload max. 5% of max. dynamic load.

For axial run-out, concentricity and parallelism figures see technical pages.
With lubrication and fixing holes.
For use with ball screws no. L1375.

Tips
For easy mounting of the ball screw nuts see the nut bracket - part L1377.
For miniature ball screws Ø6 to Ø14 see part no. L1379.

Important Notes
Fit ball nut to screw using the sleeve provided. Offer up the ball nut to the screw and slide carefully on. Do not remove the ball nut from the sleeve provided - the ball bearings can come loose rendering the ball nut unusable.

Order No.	d ₁ for screw	Pitch	Type	d ₂	d ₃	d ₄	d ₅ for	d ₆	l ₁	l ₂	w ₁	Ball dia.	Dyn. load C kN	Static load C ₀ kN	Stiffness N/µm
L1370.16-05	16	5	Type 1	28	48	38	M 6	5.5	45	10	40	3.175	13.53	29.92	314
L1370.16-10	16	10	Type 1	28	48	38	M 6	5.5	57	10	40	3.175	10.82	23.55	255
L1370.20-05	20	5	Type 1	36	58	47	M 6	6.6	51	10	44	3.175	15.21	38.00	382
L1370.25-05	25	5	Type 1	40	62	51	M 6	6.6	51	10	48	3.175	16.91	48.09	441
L1370.25-10	25	10	Type 1	40	62	51	M 6	6.6	80	12	48	4.762	28.96	71.54	490
L1370.32-05	32	5	Type 1	50	80	65	M 6	9.0	52	12	62	3.175	18.85	62.21	529
L1370.32-10	32	10	Type 1	50	80	65	M 6	9.0	85	12	62	6.350	47.12	119.72	598
L1370.40-05	40	5	Type 2	63	93	78	M 8	9.0	55	14	70	3.175	20.69	78.34	617
L1370.40-10	40	10	Type 2	63	93	78	M 8	9.0	88	14	70	6.340	52.95	152.00	715
L1370.50-10	50	10	Type 2	75	110	93	M 8	11.0	88	16	85	6.350	58.88	192.35	833
L1370.63-10	63	10	Type 2	90	125	108	M 8	11.0	93	18	95	6.350	65.89	248.68	970
L1370.80-10	80	10	Type 2	105	145	125	M 8	13.5	93	20	110	6.350	72.04	313.36	1068



L1375

Material
Steel (CF53 or C55R), induction hardened to 60 HRC ±2, polished.

Technical Notes
Gothic profile with a 5,20 or 50mm lead.
Tolerance T7 - 50µ/300mm. Shorter lengths or longer lengths up to a maximum of 3000mm available.

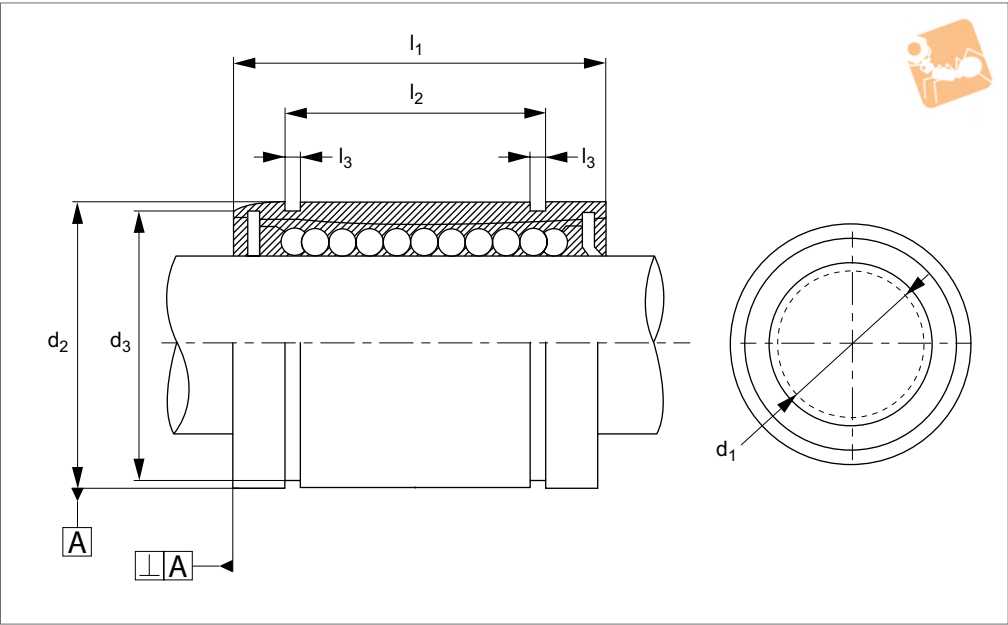
For ball screw nuts see parts L1370-L1374 & L1377.
For end screw machining to suit ball screw support units see relevant ball screw supports (L1388-L1406). End machining on request.
Replace xxxx with desired rail length eg.L1375.16-05-1000 is 1000mm long.

Important Notes
Ensure the ball nut can be fitted to the ball screw after machining.
Do not remove the ball nut from the sleeve prior to installation - the balls come free rendering the ball nut unusable.
d3 = pitch diameter.

Order No.	Screw dia. x lead	Lead w ₁	d ₁	d ₂	d ₃	l ₁	Mass moment of inertia kg·m ²	Weight kg
L1375.16-05-xxxx	16x5	5	17.08	16	13.9	500	4.45x10 ⁻⁵	0.71
L1375.16L05-xxxx	16x5	5	17.08	16	13.9	600	4.45x10 ⁻⁵	0.71
L1375.20-05-xxxx	20x5	5	21.08	20	17.9	800	1.12x10 ⁻⁴	1.18
L1375.20L-05-xxxx	20x5	5	21.08	20	17.9	1000	1.12x10 ⁻⁴	1.18
L1375.25-05-xxxx	25x5	5	26.08	25	22.9	1500	2.62x10 ⁻⁴	1.80
L1375.25L-05-xxxx	25x5	5	26.08	25	22.9	2000	2.62x10 ⁻⁴	1.80
L1375.32-05-xxxx	32x5	5	33.08	32	29.9	2500	7.25x10 ⁻⁴	2.99
L1375.32L-05-xxxx	32x5	5	33.08	32	29.9	3000	7.25x10 ⁻⁴	2.99
L1375.40-10-xxxx	40x10	5	41.08	40	37.9	500	1.18x10 ⁻⁴	4.72
L1375.40L-10-xxxx	40x10	5	41.08	40	37.9	600	1.18x10 ⁻³	4.72
L1375.50-10-xxxx	50x10	5	52.15	50	45.8	800	4.19x10 ⁻³	7.18
L1375.63-10-xxxx	63x10	10	65.15	63	58.8	1000	1.09x10 ⁻²	11.56
L1375.80-10-xxxx	80x10	10	82.15	80	75.8	1500	2.89x10 ⁻²	18.88



L1709

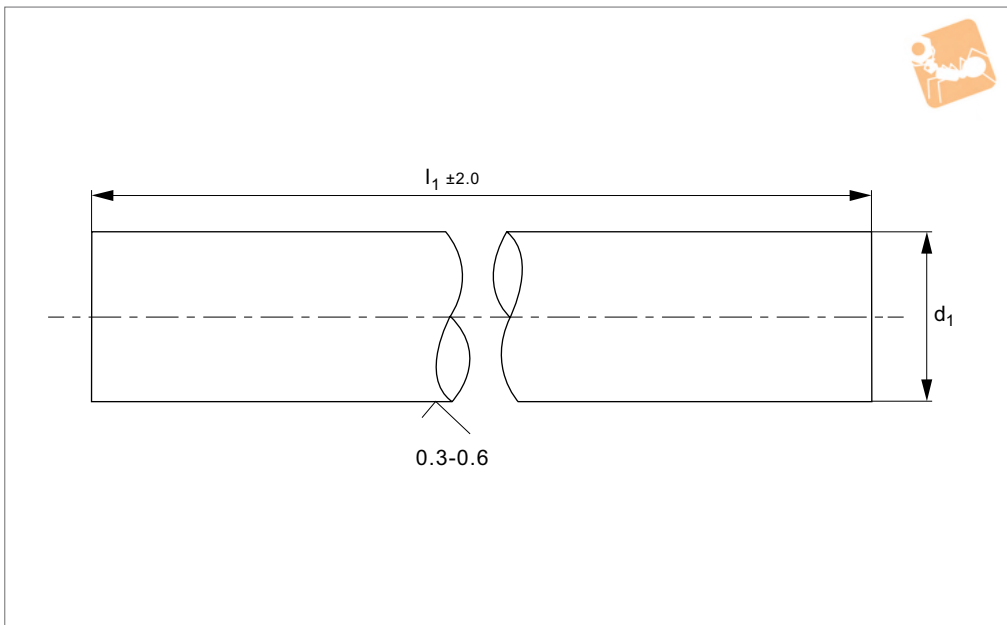


Material
Stainless steel body (440C) with a resin (POM) retainer.
Stainless steel balls (440C).
Supplied with nitrile rubber (NBR) end seals.

Technical Notes
For use with corrosion resistant hardened shafts (see part no.) - tolerance h6.
Perpendicularity A is better than 15µ.
For part numbers with ⁻¹ shaft tolerance required is g6.

Temperature range: For resin ball cage
-20°C to +80°C.

Order No.	Ball cage	d ₁ tol. h6	d ₂ tol. h6	l ₁	l ₂	l ₃	d ₃	Dyn. load C N max.	No. of ball circuits	Static load C ₀ N max.	Weight g
L1709.005-RS	Resin	5	12	22	14.5	1.10	11.5	200	4	260	12
L1709.006-RS-1	Resin	6	12	19	13.5	1.10	11.5	200	4	260	8
L1709.008-RS	Resin	8	16	25	16.5	1.10	15.2	260	4	400	20
L1709.010-RS-1	Resin	10	19	29	22.0	1.30	18.0	370	4	540	30
L1709.012-RS	Resin	12	22	32	22.9	1.30	21.0	410	4	590	41
L1709.016-RS	Resin	16	26	36	24.9	1.30	24.9	770	5	1170	57
L1709.020-RS	Resin	20	32	45	31.5	1.60	30.3	860	5	1370	91
L1709.025-RS	Resin	25	40	58	44.1	1.85	37.5	980	6	1560	215
L1709.030-RS	Resin	30	47	68	52.1	1.85	44.5	1584	6	2740	360
L1709.040-RS	Resin	40	62	80	60.6	2.15	59.0	2357	6	4020	770
L1709.050-RS	Resin	50	75	100	77.6	2.65	72.0	4702	6	7940	1250
L1709.060-RS	Resin	60	90	125	101.7	3.15	86.5	6085	6	9800	2220



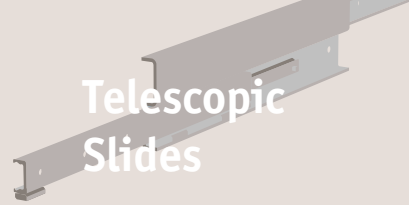
L1772

Material
Corrosion resistant stainless steel (440C, DIN 1.4112, X90 CrMo18) hardened.
Surface hardness 53-56 HRC, Rht 450Hv2.
Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.
Yield stress: >420 N/mm².
Tensile strength: >785 N/mm².

Technical Notes
Suitable for use with linear bearings.
Tolerance, h6 standard, special tolerances on request.
Straightness 0.1mm/m.
Replace xxxx with desired shaft length
eg.L1772.06-1000 is 1000mm long.

Tips
Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available.
Shaft lengths are cut to typically ± 2mm, ends are not hardened.

Order No.	d ₁ tol. h6	l ₁ max.	Depth of hardness min.
L1772.06-xxxx	6	6000	0.4
L1772.08-xxxx	8	6000	0.4
L1772.10-xxxx	10	6000	0.4
L1772.12-xxxx	12	6000	0.6
L1772.16-xxxx	16	6000	0.6
L1772.20-xxxx	20	6000	0.9
L1772.25-xxxx	25	6000	0.9
L1772.30-xxxx	30	6000	1.5
L1772.40-xxxx	40	6000	1.5
L1772.50-xxxx	50	6000	1.5
L1772.60-xxxx	60	6000	1.5



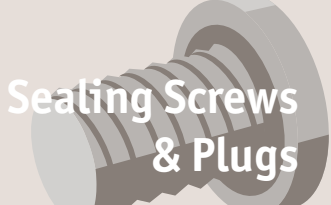
Telescopic Slides

Stainless AISI 316 Slides
fully telescopic, size 50

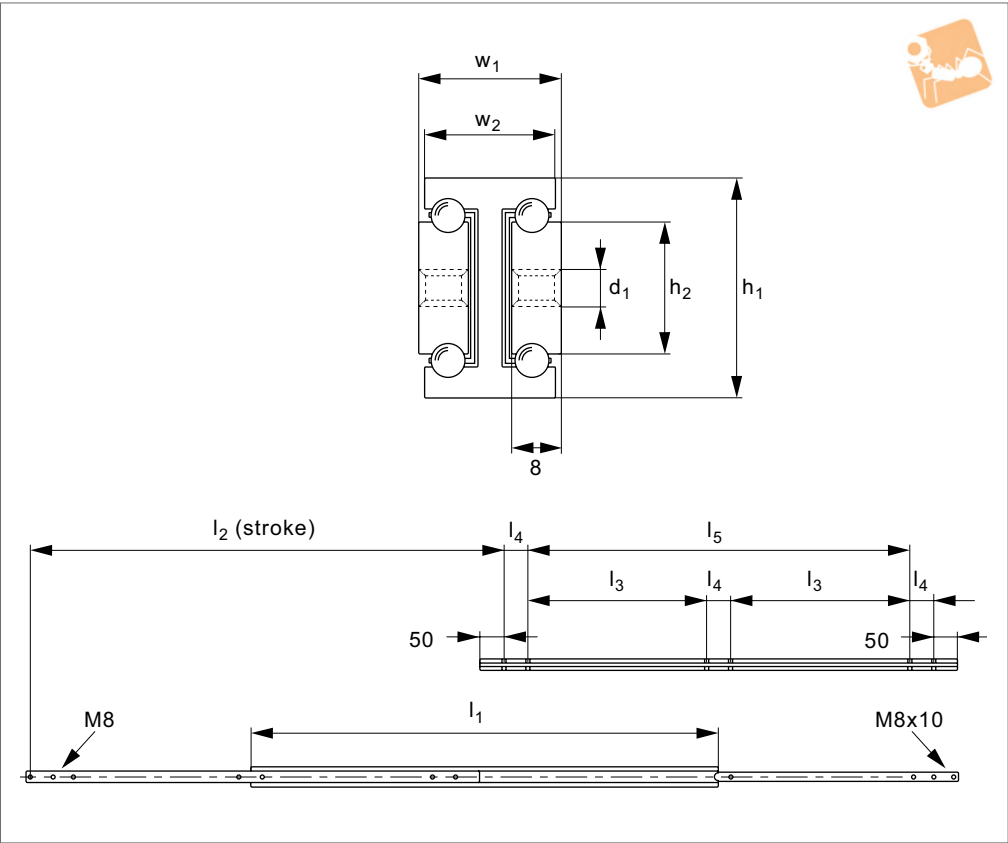


Button Head Seal Screws
hex. socket

Sealing Screws & Plugs



L2052

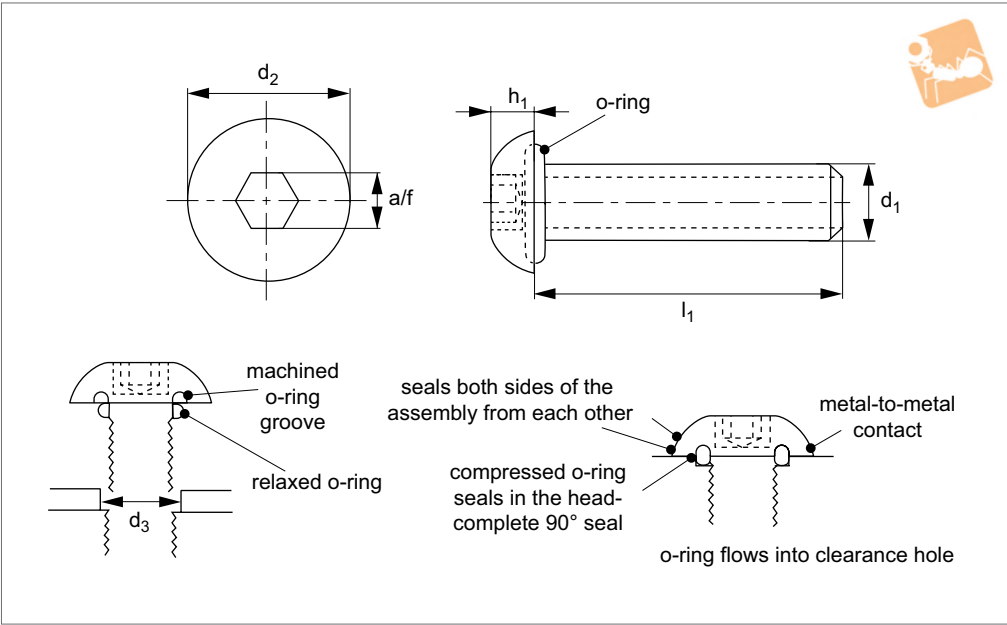


Material
Stainless steel (A4, AISI 316) - rail, balls and ball cage.

Technical Notes
Full extension. Load ratings are based on an evenly distributed load centred around the mid extension point of the slide. Other

sizes on request.
Ideal for applications requiring a high degree of corrosion resistance.

Order No.	l ₁	l ₂ stroke	h ₁	h ₂	d ₁	l ₃	l ₄	l ₅	w ₁	w ₂	Load/pair kg max.
L2052.0200	200	200	50	30	M 8	-	-	50	30	25	390
L2052.0250	250	250	50	30	M 8	-	50	50	30	25	380
L2052.0350	350	350	50	30	M 8	-	150	50	30	25	360
L2052.0400	400	400	50	30	M 8	-	200	50	30	25	350
L2052.0450	450	450	50	30	M 8	-	250	50	30	25	340
L2052.0500	500	500	50	30	M 8	-	300	50	30	25	330
L2052.0550	550	550	50	30	M 8	150	-	50	30	25	320
L2052.0600	600	600	50	30	M 8	175	-	50	30	25	310
L2052.0650	650	650	50	30	M 8	200	-	50	30	25	300
L2052.0700	700	700	50	30	M 8	225	-	50	30	25	290
L2052.0750	750	750	50	30	M 8	250	-	50	30	25	280
L2052.0800	800	800	50	30	M 8	275	-	50	30	25	270
L2052.0850	850	850	50	30	M 8	300	-	50	30	25	260
L2052.0900	900	900	50	30	M 8	325	-	50	30	25	250
L2052.0950	950	950	50	30	M 8	350	-	50	30	25	240
L2052.1000	1000	1000	50	30	M 8	375	-	50	30	25	230
L2052.1050	1050	1050	50	30	M 8	400	-	50	30	25	220
L2052.1100	1100	1100	50	30	M 8	425	-	50	30	25	210
L2052.1150	1150	1150	50	30	M 8	450	-	50	30	25	205
L2052.1200	1200	1200	50	30	M 8	475	-	50	30	25	200
L2052.1250	1250	1250	50	30	M 8	500	-	50	30	25	195
L2052.1300	1300	1300	50	30	M 8	525	-	50	30	25	190
L2052.1350	1350	1350	50	30	M 8	550	-	50	30	25	185
L2052.1400	1400	1400	50	30	M 8	575	-	50	30	25	180

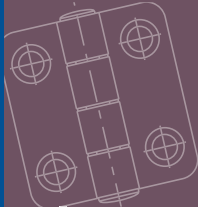
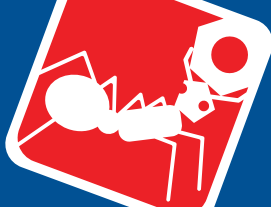
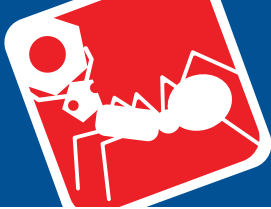


Material
Stainless steel (AISI 303 1.4305 tensile strength 550 N/mm² or AISI 316 1.440 tensile strength 480 N/mm²), with silicone „O“ ring as standard.
For other „O“ ring materials see technical data pages on our website.
(-FS = fluorosilicone, -EP = EPDM, -VI = viton, -NI = nitrile, -BN = Buna etc.).
Other thread lengths on request.

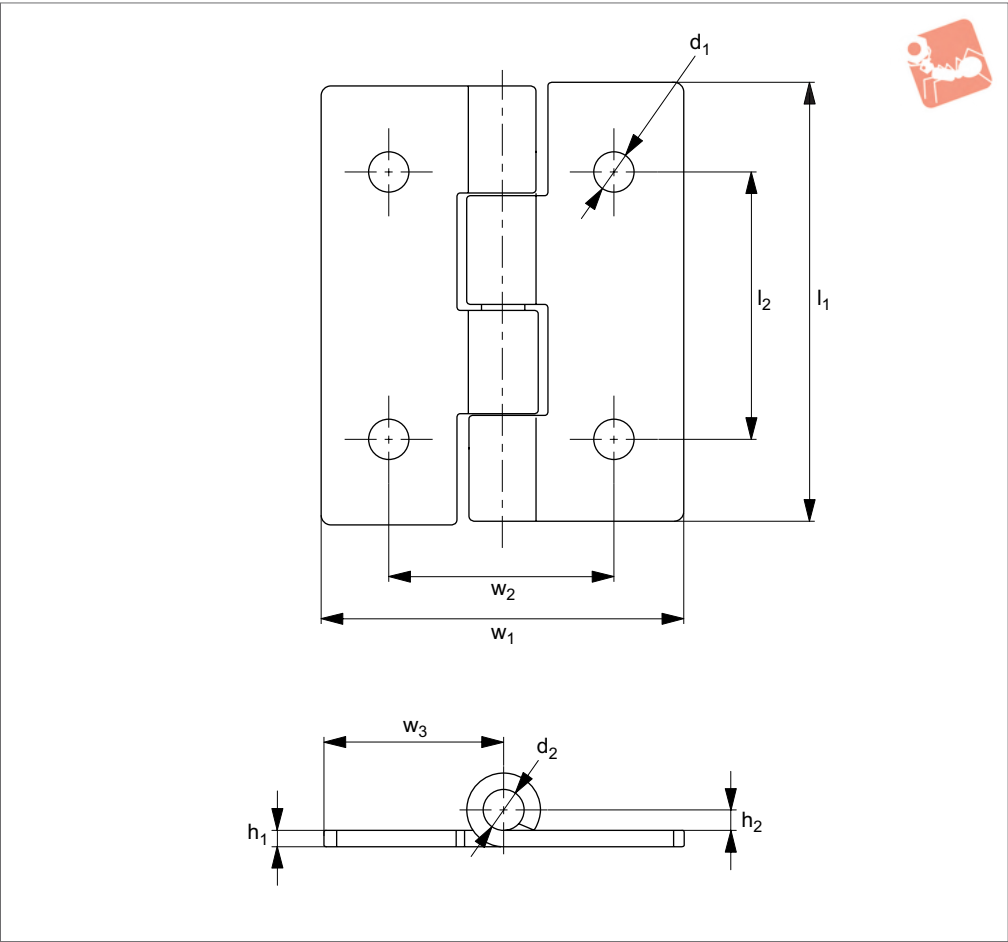
Replace XX with -2S for AISI 303 and -4S for AISI 316.
Technical Notes
Screws generally as ISO 7380, seals substances in and contaminants out.
Re-useable. Clearance holes recommended for maximum sealing.
Max temperature range: -100°C to +260°C, pressure range - up to 410 bar (6000 psi).

Also available (on request) with thread-locking.
Tips
Clearance holes recommended for maximum sealing performance (see dimensions below).
Clearance hole depth 2-3 x thread pitch, threads are metric coarse pitch.
Additional sizes available on our website.

Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	A/F	d ₃ ±0.05	Material
P0174.030-006-XX	M 3	6	1.7	5.7	2.0	3.6	A2 s/s
P0174.030-008-XX	M 3	8	1.7	5.7	2.0	3.6	A2 s/s
P0174.030-010-XX	M 3	10	1.7	5.7	2.0	3.6	A2 s/s
P0174.030-012-XX	M 3	12	1.7	5.7	2.0	3.6	A2 s/s
P0174.030-020-XX	M 3	20	1.7	5.7	2.0	3.6	A2 s/s
P0174.040-006-XX	M 4	6	2.2	7.6	2.5	4.5	A2 s/s
P0174.040-008-XX	M 4	8	2.2	7.6	2.5	4.5	A2 s/s
P0174.040-010-XX	M 4	10	2.2	7.6	2.5	4.5	A2 s/s
P0174.040-012-XX	M 4	12	2.2	7.6	2.5	4.5	A2 s/s
P0174.040-016-XX	M 4	16	2.2	7.6	2.5	4.5	A2 s/s
P0174.040-020-XX	M 4	20	2.2	7.6	2.5	4.5	A2 s/s
P0174.050-008-XX	M 5	8	2.8	9.5	3.0	5.6	A2 s/s
P0174.050-010-XX	M 5	10	2.8	9.5	3.0	5.6	A2 s/s
P0174.050-012-XX	M 5	12	2.8	9.5	3.0	5.6	A2 s/s
P0174.050-016-XX	M 5	16	2.8	9.5	3.0	5.6	A2 s/s
P0174.050-020-XX	M 5	20	2.8	9.5	3.0	5.6	A2 s/s
P0174.060-012-XX	M 6	12	3.3	10.5	4.0	6.8	A2 s/s
P0174.060-016-XX	M 6	16	3.3	10.5	4.0	6.8	A2 s/s
P0174.060-020-XX	M 6	20	3.3	10.5	4.0	6.8	A2 s/s
P0174.060-025-XX	M 6	25	3.3	10.5	4.0	6.8	A2 s/s
P0174.060-030-XX	M 6	30	3.3	10.5	4.0	6.8	A2 s/s
P0174.080-012-XX	M 8	12	4.4	14.0	5.0	8.5	A2 s/s
P0174.080-016-XX	M 8	16	4.4	14.0	5.0	8.5	A2 s/s
P0174.080-020-XX	M 8	20	4.4	14.0	5.0	8.5	A2 s/s
P0174.080-025-XX	M 8	25	4.4	14.0	5.0	8.5	A2 s/s
P0174.080-030-XX	M 8	30	4.4	14.0	5.0	8.5	A2 s/s
P0174.100-016-XX	M 10	16	5.5	17.5	6.0	10.6	A2 s/s
P0174.100-020-XX	M 10	20	5.5	17.5	6.0	10.6	A2 s/s



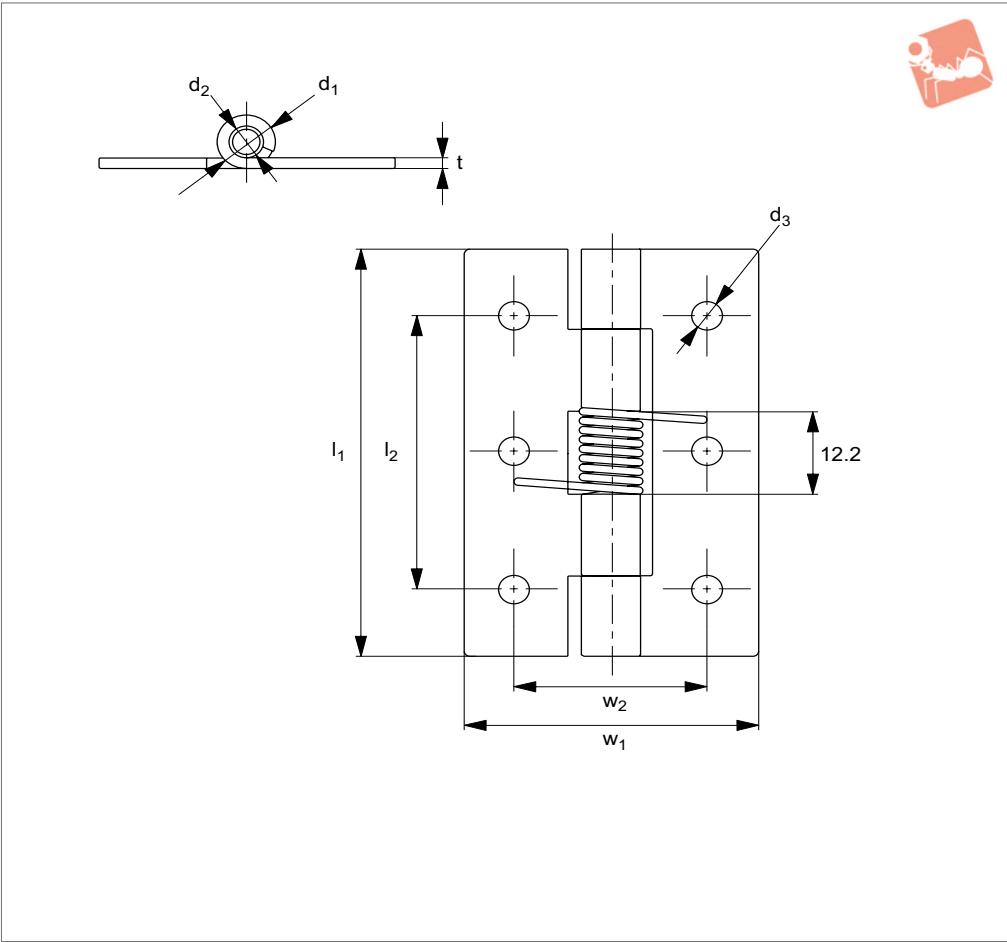
S0741



Material
304 stainless steel.

Technical Notes
Opening angle 180°.

Order No.	h_1	h_2	l_1	l_2	w_1	w_2	w_3	F_x N	F_y N	d_1	d_2
S0741.AW0040	1.2	1.8	40	24	32	20	16	340	600	3.2	3.5

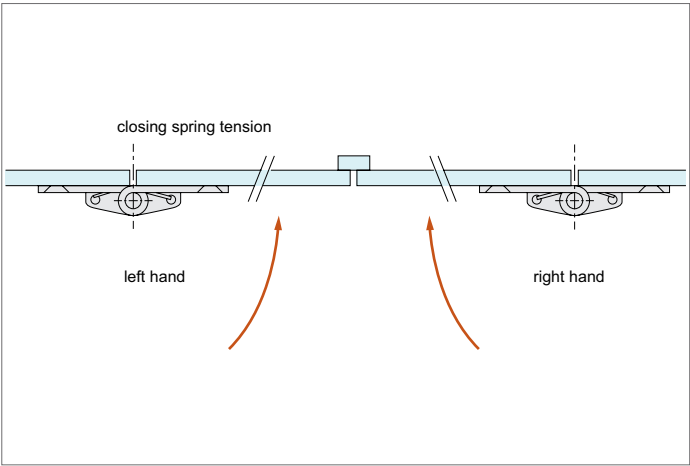


Material
Stainless steel, AISI 304, plain finish.

Technical Notes
Spring tension in this hinge is designed to

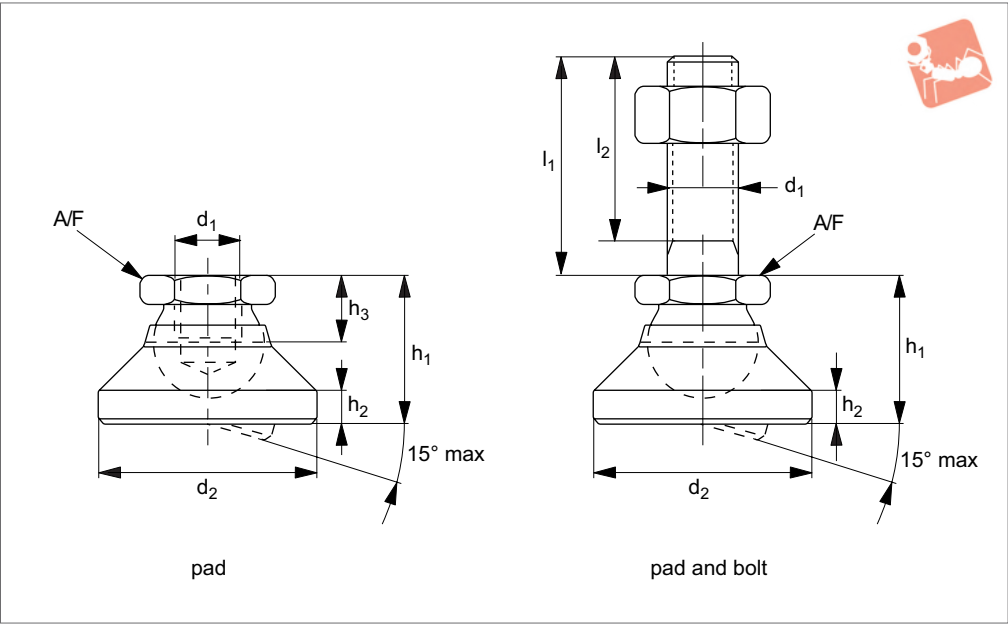
keep doors closed.

Order No.	Spring load kg	Spring tension	l_1	l_2	t	w_1	w_2	d_1	d_2	d_3	Weight g
S4202.AC0020	0.50	Closing	20	-	0.5	14	-	2.2	1	-	5
S4202.AC0025	0.55	Closing	25	14	1.2	32	20	5.8	3	3.2	10
S4202.AC0038	1.20	Closing	38	26	1.5	32	20	6.5	3	3.2	20
S4202.AC0051	0.80	Closing	51	32	1.5	38	25	6.5	3	3.2	35





34701



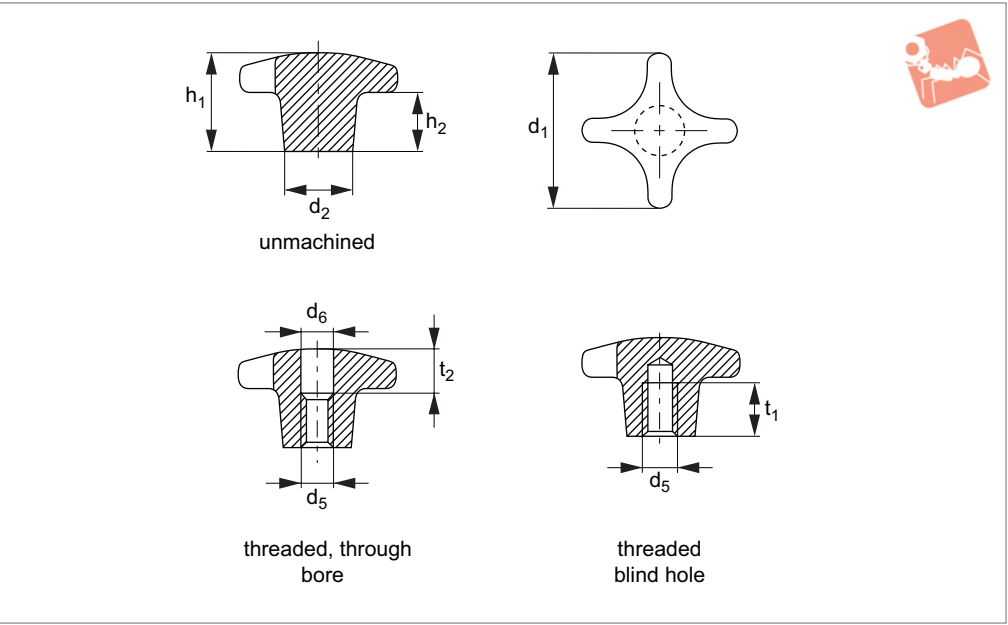
Material
Steel type-
Pad: heat-treated, C35Pbk (ETG100) tempered (800-1000 N/mm²), blackened.
Ball: free cutting steel, 11SMnPn30k (1.0718) - ball hardened (550±50HV10), blackened.
Ball with bolt: heat-treated steel, blackened.
Lock nut: Steel blackened, DIN 934/ISO 4032.

Stainless type-
Pad: stainless steel 1.4305 (AISI 303).
Ball: stainless steel 1.4305 (AISI 303).
Ball with bolt: stainless steel 1.4305 (AISI 303).
Lock nut: Stainless steel A2, DIN 934/ISO 4032.

Tips
To be used as feet and thrust pads.

Additional sizes available on our website.

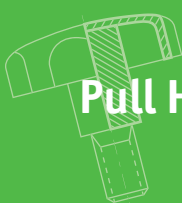
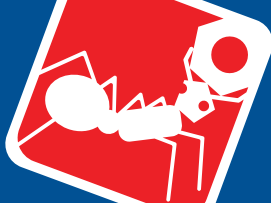
Order No.	Material	Type	d ₁	d ₂	h ₁ ≈	h ₂	h ₃	l ₁	l ₂	A/F	Static load steel kN max.	Static load stainless kN max.	Weight g
34701.W0006	Steel	Pad	M 6	20	14	2.5	5.0	-	-	10	10	8	15
34701.W0008	Steel	Pad	M 8	25	18	4.0	7.0	-	-	13	18	14	33
34701.W0010	Steel	Pad	M 10	32	22	5.0	9.0	-	-	17	20	16	66
34701.W0012	Steel	Pad	M 12	40	26	6.0	11.0	-	-	19	35	28	112
34701.W0016	Steel	Pad	M 16	50	32	7.0	13.5	-	-	24	45	36	220
34701.W0020	Steel	Pad	M 20	60	42	8.0	17.0	-	-	30	55	44	413
34701.W0024	Steel	Pad	M 24	60	45	9.5	19.0	-	-	36	65	52	462
34701.W0206	Stainless	Pad	M 6	20	14	2.5	5.0	-	-	10	10	8	15
34701.W0208	Stainless	Pad	M 8	25	18	4.0	7.0	-	-	13	18	14	33
34701.W0210	Stainless	Pad	M 10	32	22	5.0	9.0	-	-	17	20	16	66
34701.W0212	Stainless	Pad	M 12	40	26	6.0	11.0	-	-	19	35	28	112
34701.W0216	Stainless	Pad	M 16	50	32	7.0	13.5	-	-	24	45	36	220
34701.W0220	Stainless	Pad	M 20	60	42	8.0	17.0	-	-	30	55	44	413
34701.W0224	Stainless	Pad	M 24	60	45	9.5	19.0	-	-	36	65	52	462
34701.W0410	Steel	Pad and Bolt	M 6	20	14	2.5	-	60	57.0	10	10	8	29
34701.W0422	Steel	Pad and Bolt	M 8	25	18	4.0	-	80	76.0	13	18	14	66
34701.W0438	Steel	Pad and Bolt	M 10	32	22	5.0	-	100	95.5	17	20	16	133
34701.W0442	Steel	Pad and Bolt	M 10	32	22	5.0	-	150	145.5	17	20	16	159
34701.W0452	Steel	Pad and Bolt	M 12	40	26	6.0	-	100	94.5	19	35	28	211
34701.W0456	Steel	Pad and Bolt	M 12	40	26	6.0	-	150	144.5	19	35	28	247
34701.W0468	Steel	Pad and Bolt	M 16	50	32	7.0	-	100	94.0	24	45	36	407
34701.W0472	Steel	Pad and Bolt	M 16	50	32	7.0	-	200	194.0	24	45	36	540
34701.W0482	Steel	Pad and Bolt	M 20	60	42	8.0	-	100	92.5	30	55	44	722
34701.W0488	Steel	Pad and Bolt	M 20	60	42	8.0	-	200	192.5	30	55	44	924
34701.W0495	Steel	Pad and Bolt	M 24	60	45	9.5	-	100	91.0	36	65	52	935
34701.W0498	Steel	Pad and Bolt	M 24	60	45	9.5	-	200	191.0	36	65	52	1231
34701.W0610	Stainless	Pad and Bolt	M 6	20	14	2.5	-	60	57.0	10	10	8	29
34701.W0622	Stainless	Pad and Bolt	M 8	25	18	4.0	-	80	76.0	13	18	14	66



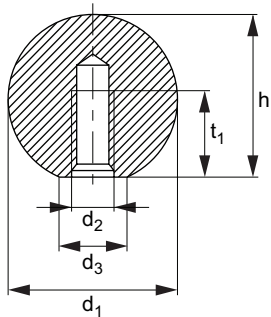
70042

Material
Stainless steel A2 (AISI 304), dull blasted.

Order No.	Finish	d ₁	d ₂	d ₅	d ₆	h ₁	h ₂	t ₁	t ₂	Weight g
70042.W0032	Unmachined	32	12	-	-	21	10	-	-	41
70042.W0040	Unmachined	40	14	-	-	26	14	-	-	70
70042.W0050	Unmachined	50	18	-	-	34	20	-	-	128
70042.W0063	Unmachined	63	20	-	-	42	25	-	-	227
70042.W0332	Threaded, Through	32	12	M 6	6.4	20	-	-	10	36
70042.W0340	Threaded, Through	40	14	M 8	8.4	25	-	-	12	60
70042.W0350	Threaded, Through	50	18	M 10	10.5	32	-	-	16	107
70042.W0363	Threaded, Through	63	20	M 12	13.0	40	-	-	20	192
70042.W0432	Threaded, Blind	32	12	M 6	-	20	-	12	-	38
70042.W0440	Threaded, Blind	40	14	M 8	-	25	-	15	-	62
70042.W0450	Threaded, Blind	50	18	M 10	-	32	-	18	-	114
70042.W0463	Threaded, Blind	63	20	M 12	-	40	-	22	-	205

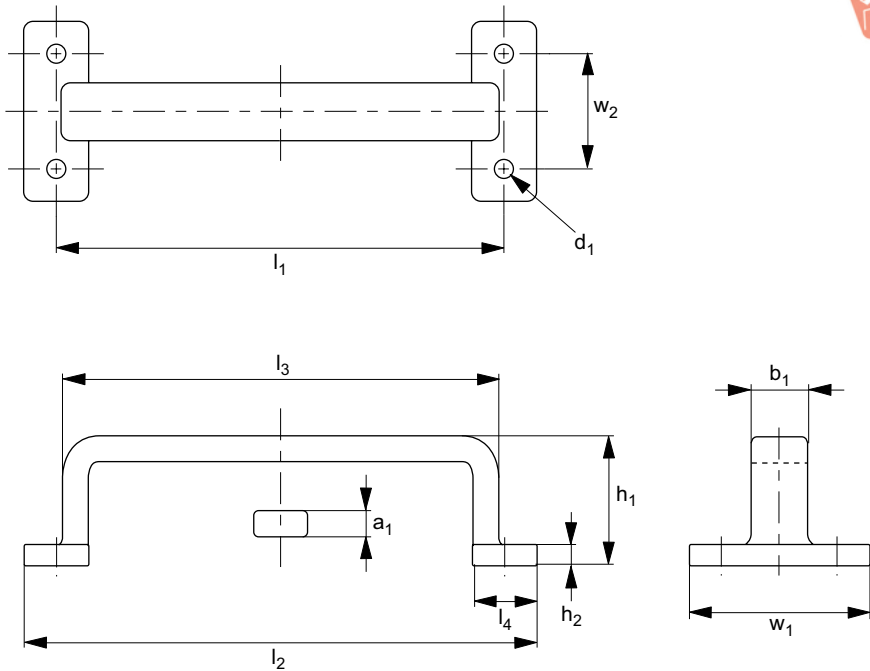


73004



Material
Stainless steel 1.4305, dull blasted

Order No.	d ₁	d ₂	d ₃ ≈	h ≈	t ₁ min.	Weight g
73004.W0216	16	M 4	8	15.0	7.0	16
73004.W0220	20	M 5	12	18.0	9.0	31
73004.W0225	25	M 6	15	22.5	11.0	59
73004.W0232	32	M 8	18	29.0	14.5	122
73004.W0240	40	M 10	22	37.0	18.0	242



78950

Material
AISI 316 stainless steel, mirror finish.

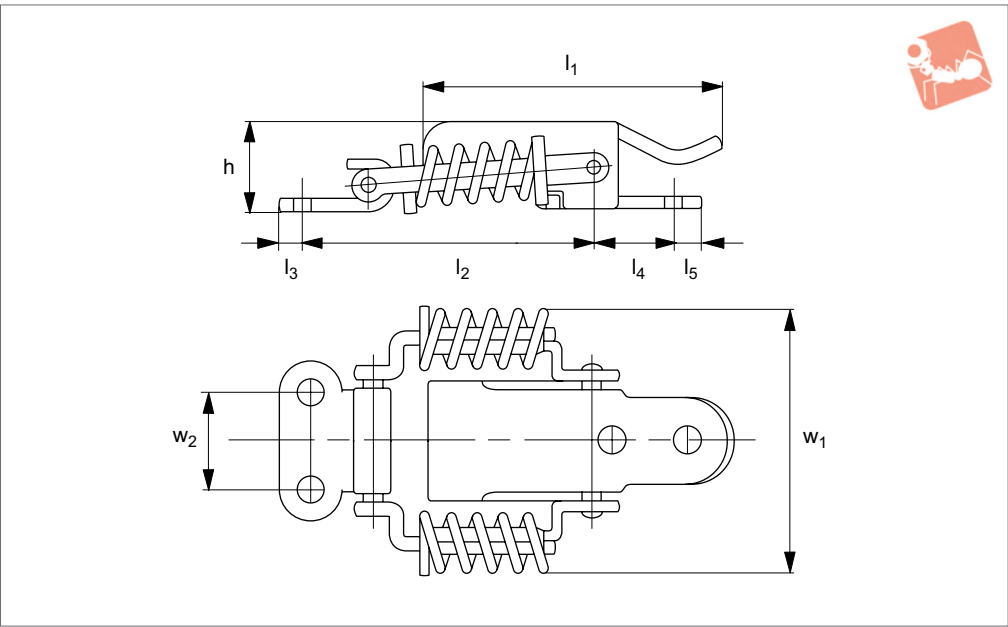
Technical Notes
Supplied with stainless steel screws.

Important Notes
Ideal for harsh and high corrosive environments. Higher profile allows for easy gripping with gloved hand.

Order No.	l ₁	l ₂	l ₃	l ₄	a ₁	b ₁	h ₁	h ₂	w ₁	w ₂	Weight g
78950.W0200	175	200	170	25	10	22	50	8	70	45	586
78950.W0280	253	280	250	27	12	26	62	10	80	55	1088



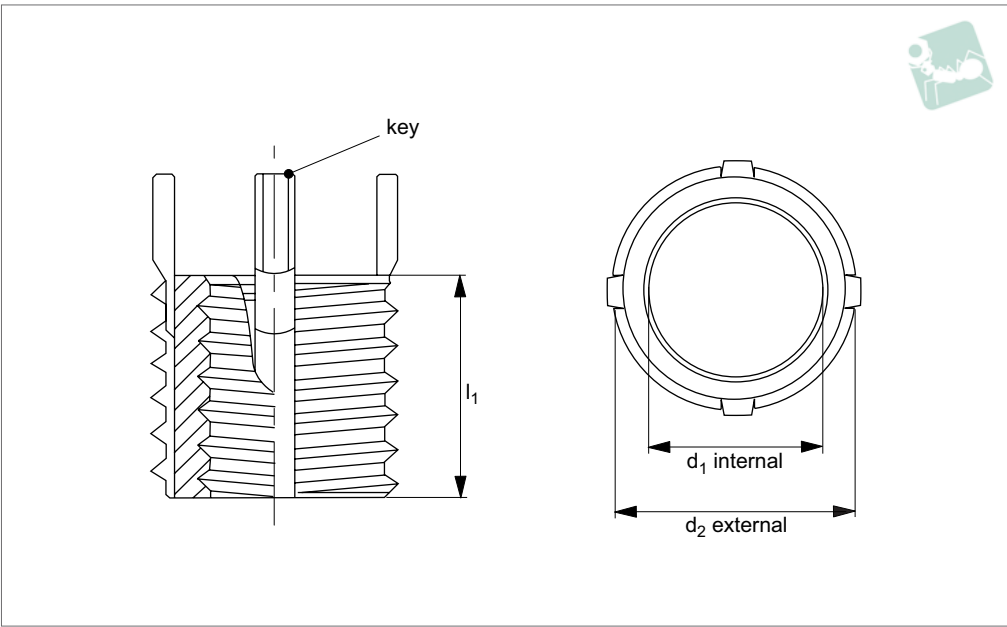
J0620



Material
Steel, Fe P02 + P12, UNI5866, zinc plated.
Or stainless steel AISI304, UNI x5crNi.

Technical Notes
Supplied with counter strike.

Order No.	Finish	l_1	w_1	h	$\varnothing d_1$	l_2	l_3	l_4	l_5	w_2	w_3	Load N max.	Tension N max.	Weight g
J0620.AC0008	Zinc Plated	60 to 63	37	12.5	3.2	38 to 41	4	10	5.5	14	15	500	1500	35
J0620.AC0030	Stainless Steel	60 to 63	37	12.5	3.2	38 to 41	4	10	5.5	14	15	500	1500	35



TR1515

Material
Inserts: stainless steel (AISI 303) or equivalent. Passivated.
Keys: stainless steel (302 CRES) or equivalent. Passivated.

Technical Notes
General tolerances:
 ± 0.25 , unless specified.
Tap drill hole tolerances:

6.9 to 10.8 = $+0.10/-0.025$.
12.8 and over = $+0.13/-0.025$.

Tips
Order installation tool separately, as identified by „Inst. tool ref.“ in table.

Important Notes
Four locking keys on internal threads M 8 and over. Two locking keys on internal

threads smaller than M 8.
Installation (Inst.) drill size, countersink, thread tap and thread depth as specified in table.
Removal drill size and drill depth as specified in table.

Order No.	Int. d_1	Int. thread type d_1	Ext. d_2	Ext. thread type d_2	l_1	Inst. tool ref. 22062	Inst. tap drill size	Inst. c'sink dia.	Inst. thread tap	Inst. thread depth	Removal drill size	Removal drill depth
TR1515.66363	M 4x0.70	Coarse	M 8x1.25	Coarse	8	.W0630	6.9	8.3	M 8x1.25	9.5	5.5	4.0
TR1515.66364	M 5x0.80	Coarse	M 10x1.25	Fine	10	.W0640	8.8	10.3	M 10x1.25	12.5	7.5	4.8
TR1515.66365	M 6x1.00	Coarse	M 12x1.25	Fine	12	.W0650	10.8	12.3	M 12x1.25	14.5	9.5	4.8
TR1515.66366	M 8x1.25	Coarse	M 14x1.50	Fine	14	.W0660	12.8	14.3	M 14x1.50	16.5	11.5	4.8
TR1515.66566	M 8x1.00	Fine	M 14x1.50	Fine	14	.W0660	12.8	14.3	M 14x1.50	16.5	11.5	4.8
TR1515.66367	M 10x1.50	Coarse	M 16x1.50	Fine	16	.W0670	14.8	16.3	M 16x1.50	18.5	13.5	4.8
TR1515.66567	M 10x1.25	Fine	M 16x1.50	Fine	16	.W0670	14.8	16.3	M 16x1.50	18.5	13.5	4.8
TR1515.66369	M 12x1.75	Coarse	M 18x1.50	Fine	18	.W0690	16.8	18.3	M 18x1.50	20.5	15.5	4.8
TR1515.66569	M 12x1.25	Fine	M 18x1.50	Fine	18	.W0690	16.8	18.3	M 18x1.50	20.5	15.5	4.8
TR1515.66370	M 14x2.00	Coarse	M 20x1.50	Fine	20	.W0700	18.8	20.3	M 20x1.50	22.5	17.5	4.8
TR1515.66570	M 14x1.50	Fine	M 20x1.50	Fine	20	.W0700	18.8	20.3	M 20x1.50	22.5	17.5	4.8
TR1515.66371	M 16x2.00	Coarse	M 22x1.50	Fine	22	.W0710	20.5	22.3	M 22x1.50	24.5	17.8	6.4
TR1515.66571	M 16x1.50	Fine	M 22x1.50	Fine	22	.W0710	20.5	22.3	M 22x1.50	24.5	17.8	6.4
TR1515.66572	M 18x1.50	Fine	M 24x1.50	Fine	24	.W0720	22.5	24.3	M 24x1.50	26.5	19.8	6.4
TR1515.66373	M 20x2.50	Coarse	M 30x2.00	Non-Std	30	.W0730	28.0	30.3	M 30x2.00	34.5	25.8	6.4
TR1515.66573	M 20x1.50	Fine	M 30x2.00	Non-Std	30	.W0730	28.0	30.3	M 30x2.00	34.5	25.8	6.4
TR1515.66574	M 22x1.50	Fine	M 32x2.00	Non-Std	32	.W0740	30.0	32.3	M 32x2.00	36.5	27.8	6.4
TR1515.66375	M 24x3.00	Coarse	M 33x2.00	Non-Std	33	.W0750	31.0	33.3	M 33x2.00	37.5	28.8	6.4
TR1515.66575	M 24x2.00	Fine	M 33x2.00	Non-Std	33	.W0750	31.0	33.3	M 33x2.00	37.5	28.8	6.4



Labelling Machines

Modern labelling machinery combines high-speed production with the need for accurate product handling and consistent label placement. From positioning products and controlling label application to enabling rapid format changes, every mechanical element contributes to reliable machine performance. Robust adjustment, positioning and motion control solutions enable operators to optimise machine settings while

maintaining production efficiency. The Wixroyd Group components support the design of efficient, flexible labelling systems.

Position & Guide

Accurate alignment ensures labels are applied consistently. Linear slides, guides, carriages and positioning components provide controlled movement for print heads, sensors, applicators and product guides.

Drive & Index

Synchronised movement is essential for accurate label application. Timing pulleys, couplings, lead screws and indexing components coordinate product movement with dispensing and printing operations.

Clamp & Hold

Adjustable components must remain securely positioned during continuous operation. Toggle clamps, fixture elements and spring plungers provide reliable retention of guides, tooling and adjustment assemblies.

Access & Protection

Efficient maintenance and product changeovers require easy machine access. Handles, hinges, latches and guarding accessories provide secure and convenient access to machine covers and service areas.

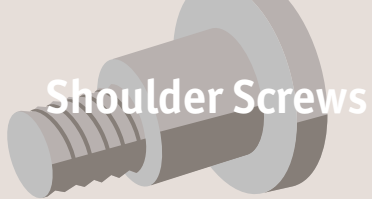
Adjust & Set

Labelling equipment frequently handles multiple product formats. Position indicators, adjustable handles and fine adjustment mechanisms enable fast, repeatable setup for different container sizes and label positions.

Convey & Transfer

Consistent product movement is essential for accurate labelling. Rollers, guide rails, conveyor components and support brackets ensure products remain correctly aligned throughout the labelling process.

► For technical product information **turn the page**



Shoulder Screws

Pan Head Shoulder Screws



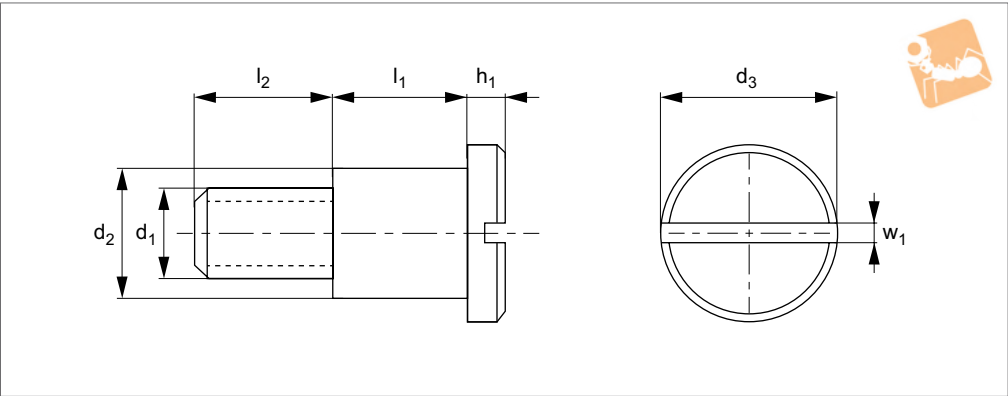
Position Counters
4 digit display



Lead Screws
& Nuts



P0144



Material

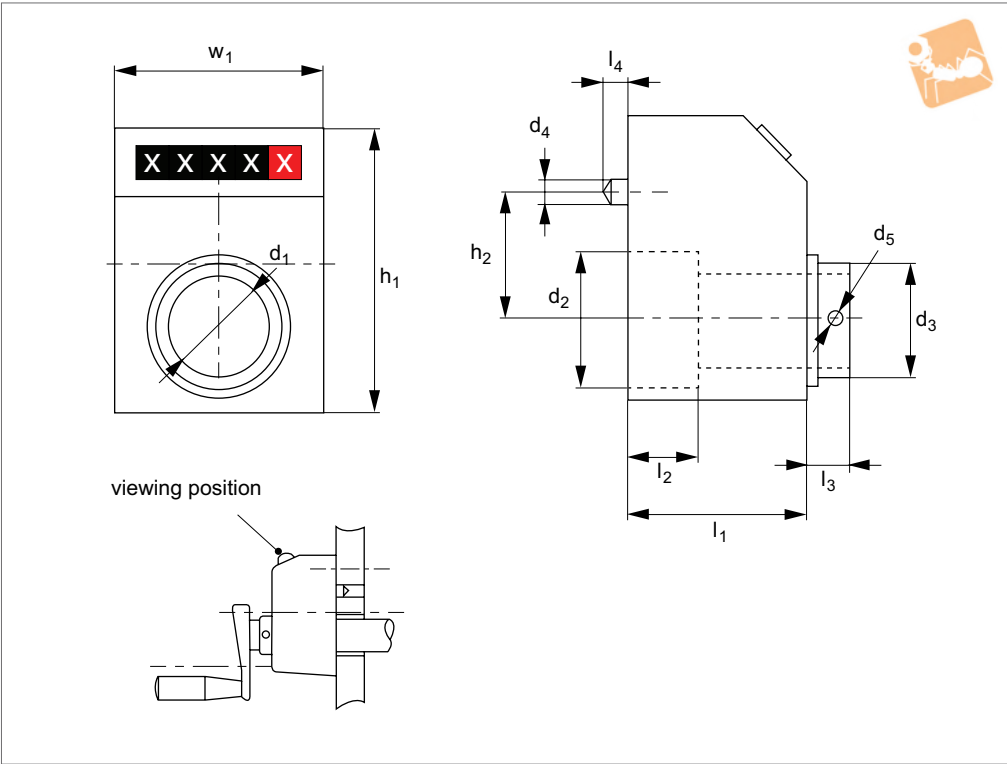
Available in stainless steel (A2, AISI 303) and zinc-plated steel, up to M 10 and l₂=25. For zinc-plated steel version, replace -A2 with -ZP.

Technical Notes

DIN 923. Mildly magnetic. Available on request in A4 stainless steel.

More sizes available on our website for our zinc-plated version.

Order No.	d ₁	l ₁	d ₂ tol. h9	d ₃	l ₂	h ₁	w ₁
P0144.030-003-A2	M 3	3	4.0	7.0	4.5	1.8	0.8
P0144.030-004-A2	M 3	4	4.0	7.0	4.5	1.8	0.8
P0144.030-005-A2	M 3	5	4.0	7.0	4.5	1.8	0.8
P0144.030-006-A2	M 3	6	4.0	7.0	4.5	1.8	0.8
P0144.030-008-A2	M 3	8	4.0	7.0	4.5	1.8	0.8
P0144.030-010-A2	M 3	10	4.0	7.0	4.5	1.8	0.8
P0144.030-012-A2	M 3	12	4.0	7.0	4.5	1.8	0.8
P0144.040-002-A2	M 4	2	5.5	8.5	6.0	2.4	1.0
P0144.040-003-A2	M 4	3	5.5	8.5	6.0	2.4	1.0
P0144.040-004-A2	M 4	4	5.5	8.5	6.0	2.4	1.0
P0144.040-005-A2	M 4	5	5.5	8.5	6.0	2.4	1.0
P0144.040-006-A2	M 4	6	5.5	8.5	6.0	2.4	1.0
P0144.040-008-A2	M 4	8	5.5	8.5	6.0	2.4	1.0
P0144.040-010-A2	M 4	10	5.5	8.5	6.0	2.4	1.0
P0144.040-012-A2	M 4	12	5.5	8.5	6.0	2.4	1.0
P0144.040-016-A2	M 4	16	5.5	8.5	6.0	2.4	1.0
P0144.040-020-A2	M 4	20	5.5	8.5	6.0	2.4	1.0
P0144.050-003-A2	M 5	3	7.0	11.0	7.0	2.7	1.2
P0144.050-004-A2	M 5	4	7.0	11.0	7.0	2.7	1.2
P0144.050-005-A2	M 5	5	7.0	11.0	7.0	2.7	1.2
P0144.050-006-A2	M 5	6	7.0	11.0	7.0	2.7	1.2
P0144.050-008-A2	M 5	8	7.0	11.0	7.0	2.7	1.2
P0144.050-010-A2	M 5	10	7.0	11.0	7.0	2.7	1.2
P0144.050-012-A2	M 5	12	7.0	11.0	7.0	2.7	1.2
P0144.050-016-A2	M 5	16	7.0	11.0	7.0	2.7	1.2
P0144.050-020-A2	M 5	20	7.0	11.0	7.0	2.7	1.2
P0144.060-003-A2	M 6	3	8.0	13.0	9.0	3.1	1.6
P0144.060-004-A2	M 6	4	8.0	13.0	9.0	3.1	1.6
P0144.060-005-A2	M 6	5	8.0	13.0	9.0	3.1	1.6
P0144.060-006-A2	M 6	6	8.0	13.0	9.0	3.1	1.6
P0144.060-008-A2	M 6	8	8.0	13.0	9.0	3.1	1.6
P0144.060-010-A2	M 6	10	8.0	13.0	9.0	3.1	1.6
P0144.060-012-A2	M 6	12	8.0	13.0	9.0	3.1	1.6
P0144.060-016-A2	M 6	16	8.0	13.0	9.0	3.1	1.6
P0144.060-020-A2	M 6	20	8.0	13.0	9.0	3.1	1.6
P0144.080-006-A2	M 8	6	10.0	16.0	11.0	3.8	2.0
P0144.080-008-A2	M 8	8	10.0	16.0	11.0	3.8	2.0
P0144.080-010-A2	M 8	10	10.0	16.0	11.0	3.8	2.0
P0144.080-012-A2	M 8	12	10.0	16.0	11.0	3.8	2.0
P0144.080-016-A2	M 8	16	10.0	16.0	11.0	3.8	2.0
P0144.080-020-A2	M 8	20	10.0	16.0	11.0	3.8	2.0



Material

Black thermoplastic, burnished steel bushing.

Technical Notes

Max. temperature +70°C. Other ratios and spacers available on request. Different location of position indicator on counter available on request. Four digit readout, red indicates decimals.

Tips

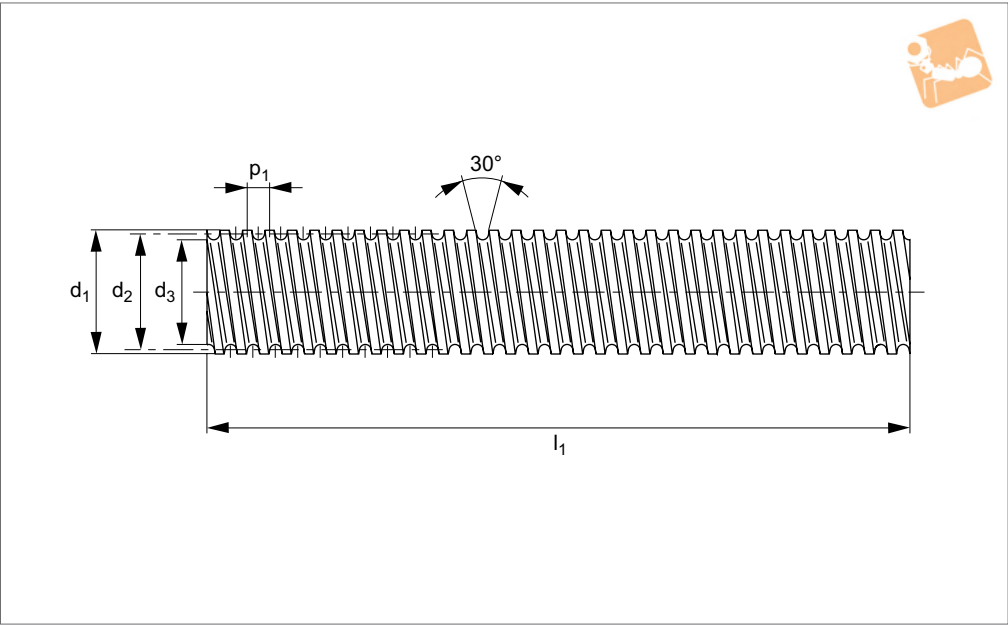
Clockwise rotation: part numbers end with -C. Anti-Clockwise rotation: part numbers end with -A. Additional sizes available on our website.

Order No.	Ratio	Pitch	Counter after one revolution	d ₁ tol. H7	d ₂	d ₃	d ₄	d ₅	l ₁
L1470.005-C	1:05	0.5	0005	14	26	20	6	M 4	24
L1470.010-C	1:10	1.0	0010	14	26	20	6	M 4	24
L1470.015-C	1:15	1.5	0015	14	26	20	6	M 4	24
L1470.020-C	1:20	2.0	0020	14	26	20	6	M 4	24
L1470.025-C	1:25	2.5	0025	14	26	20	6	M 4	24
L1470.030-C	1:30	3.0	0030	14	26	20	6	M 4	24
L1470.005-A	1:05	0.5	0005	14	26	20	6	M 4	24
L1470.010-A	1:10	1.0	0010	14	26	20	6	M 4	24
L1470.015-A	1:15	1.5	0015	14	26	20	6	M 4	24
L1470.020-A	1:20	2.0	0020	14	26	20	6	M 4	24
L1470.025-A	1:25	2.5	0025	14	26	20	6	M 4	24
L1470.030-A	1:30	3.0	0030	14	26	20	6	M 4	24

Order No.	l ₂	l ₃	w ₁	h ₁	h ₂	h ₃	Speed rpm max.	Revolution
L1470.005-C	7.5	6.5	33	45	16.5	22	500	Clockwise
L1470.010-C	7.5	6.5	33	45	16.5	22	300	Clockwise
L1470.015-C	7.5	6.5	33	45	16.5	22	300	Clockwise
L1470.020-C	7.5	6.5	33	45	16.5	22	300	Clockwise
L1470.025-C	7.5	6.5	33	45	16.5	22	300	Clockwise
L1470.030-C	7.5	6.5	33	45	16.5	22	300	Clockwise
L1470.005-A	7.5	6.5	33	45	16.5	22	500	Anti-clockwise
L1470.010-A	7.5	6.5	33	45	16.5	22	300	Anti-clockwise
L1470.015-A	7.5	6.5	33	45	16.5	22	300	Anti-clockwise
L1470.020-A	7.5	6.5	33	45	16.5	22	300	Anti-clockwise
L1470.025-A	7.5	6.5	33	45	16.5	22	300	Anti-clockwise
L1470.030-A	7.5	6.5	33	45	16.5	22	300	Anti-clockwise



L1320



Material
Rolled trapezoidal thread, steel EN 10083-2 (C35, DIN 1.0501) or (C45, DIN 1.0503). Manufactured to ISO 2901/2903 (DIN 103).
Surface hardness approx. 250HB.

Technical Notes
,Lead' refers to the distance that a nut will travel for a complete revolution of the screw.

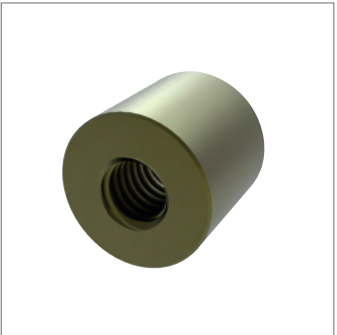
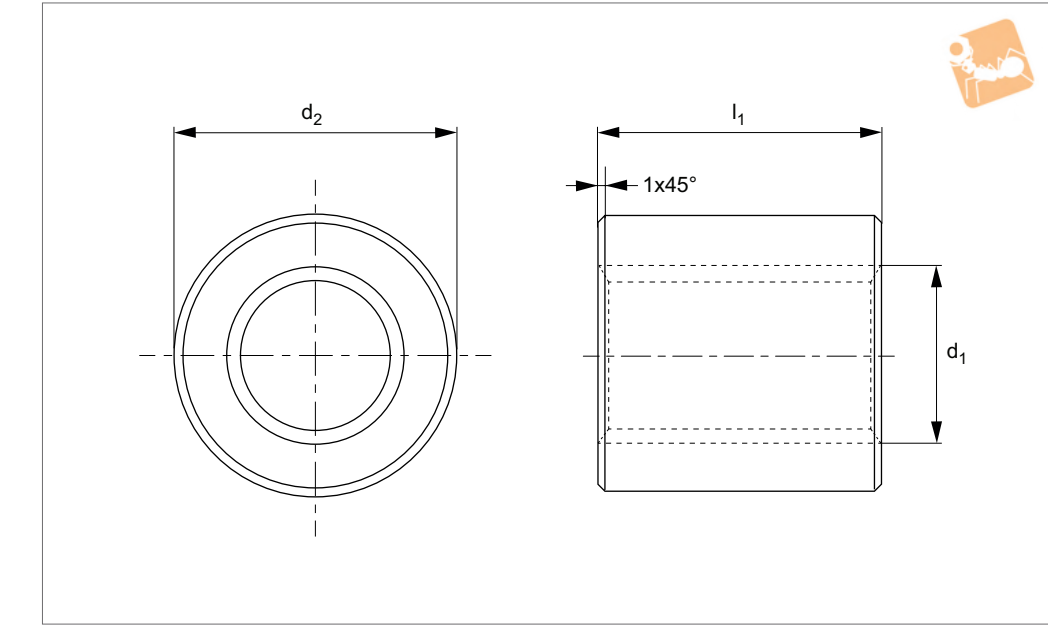
Select a suitable lead screw nut (part nos. L1330 to L1343) to suit the lead screw - the most popular nuts are the flanged, bronze nuts part no. L1331.
Single start lead screws are less expensive than twin start lead screws.

Tips
These are the standard right hand thread lead screws - for left hand thread versions

see part no. L1321.
For stainless steel right hand lead screws see part no. L1322.
Cutting to required length and machining of ends - on request.
Lead screw lengths of up to 6 metres can be provided for a diameter >30mm.

Additional sizes up to TR120x16 are available on our website.

Order No.	Size	No. of starts	d ₁ tol. 7e	Lead	p ₁	d ₂ tol. 7e min.	d ₂ tol. 7e max.	d ₃ tol. 7h min.	d ₃ tol. 7h max.	l ₁	Lead angle	Pitch accuracy mm/300mm	Straightness mm/300mm	Weight kg
L1320.R08-015-1.0	TR8x1.5	1	8	1.5	1.5	7.013	7.183	5.763	7.200	1000	3°50'	0.20	0.5	0.311
L1320.R08-015-1.5	TR8x1.5	1	8	1.5	1.5	7.013	7.183	5.763	7.200	1500	3°50'	0.20	0.5	0.466
L1320.R08-015-2.0	TR8x1.5	1	8	1.5	1.5	7.013	7.183	5.763	7.200	2000	3°50'	0.20	0.5	0.622
L1320.R08-015-3.0	TR8x1.5	1	8	1.5	1.5	7.013	7.183	5.763	7.200	3000	3°50'	0.20	0.5	0.933
L1320.R10-02-1.0	TR10x2	1	10	2.0	2.0	8.739	8.929	6.891	7.500	1000	4°07'	0.20	0.5	0.480
L1320.R10-02-1.5	TR10x2	1	10	2.0	2.0	8.739	8.929	6.891	7.500	1500	4°07'	0.20	0.5	0.720
L1320.R10-02-2.0	TR10x2	1	10	2.0	2.0	8.739	8.929	6.891	7.500	2000	4°07'	0.20	0.5	0.960
L1320.R10-02-3.0	TR10x2	1	10	2.0	2.0	8.739	8.929	6.891	7.500	3000	4°07'	0.20	0.5	1.440
L1320.R10-04-1.0	TR10x4	2	10	4.0	2.0	8.716	8.929	6.891	7.500	1000	8°12'	0.30	0.5	0.480
L1320.R10-04-1.5	TR10x4	2	10	4.0	2.0	8.716	8.929	6.891	7.500	1500	8°12'	0.30	0.5	0.720
L1320.R10-04-2.0	TR10x4	2	10	4.0	2.0	8.716	8.929	6.891	7.500	2000	8°12'	0.30	0.5	0.960
L1320.R10-04-3.0	TR10x4	2	10	4.0	2.0	8.716	8.929	6.891	7.500	3000	8°12'	0.30	0.5	1.440
L1320.R12-03-1.0	TR12x3	1	12	3.0	3.0	10.191	10.415	7.685	8.500	1000	5°17'	0.20	0.5	0.650
L1320.R12-03-1.5	TR12x3	1	12	3.0	3.0	10.191	10.415	7.685	8.500	1500	5°17'	0.20	0.5	0.970
L1320.R12-03-2.0	TR12x3	1	12	3.0	3.0	10.191	10.415	7.685	8.500	2000	5°17'	0.20	0.5	1.300
L1320.R12-03-3.0	TR12x3	1	12	3.0	3.0	10.191	10.415	7.685	8.500	3000	5°17'	0.20	0.5	1.950
L1320.R12-06-1.0	TR12x6	2	12	6.0	3.0	10.164	10.415	7.685	8.500	1000	10°30'	0.30	0.5	0.650
L1320.R12-06-1.5	TR12x6	2	12	6.0	3.0	10.164	10.415	7.685	8.500	1500	10°30'	0.30	0.5	0.970
L1320.R12-06-2.0	TR12x6	2	12	6.0	3.0	10.164	10.415	7.685	8.500	2000	10°30'	0.30	0.5	1.300
L1320.R12-06-3.0	TR12x6	2	12	6.0	3.0	10.164	10.415	7.685	8.500	3000	10°30'	0.30	0.5	1.950
L1320.R14-03-1.0	TR14x3	1	14	3.0	3.0	12.191	12.415	9.685	10.500	1000	4°26'	0.20	0.5	0.930
L1320.R14-03-1.5	TR14x3	1	14	3.0	3.0	12.191	12.415	9.685	10.500	1500	4°26'	0.20	0.5	1.390
L1320.R14-03-2.0	TR14x3	1	14	3.0	3.0	12.191	12.415	9.685	10.500	2000	4°26'	0.20	0.5	1.860
L1320.R14-03-3.0	TR14x3	1	14	3.0	3.0	12.191	12.415	9.685	10.500	3000	4°26'	0.20	0.5	2.790
L1320.R14-06-1.0	TR14x6	2	14	6.0	3.0	12.164	12.415	9.685	10.500	1000	8°49'	0.30	0.5	0.930



L1330

Material
Bronze (CuSn7ZnPb). To ISO 2901/2903 and DIN 103.

Technical Notes
For manual or powered applications at low

and medium rotation and under loads.

Tips
Standard nuts are right hand thread, single starts.
For use with steel or stainless steel lead

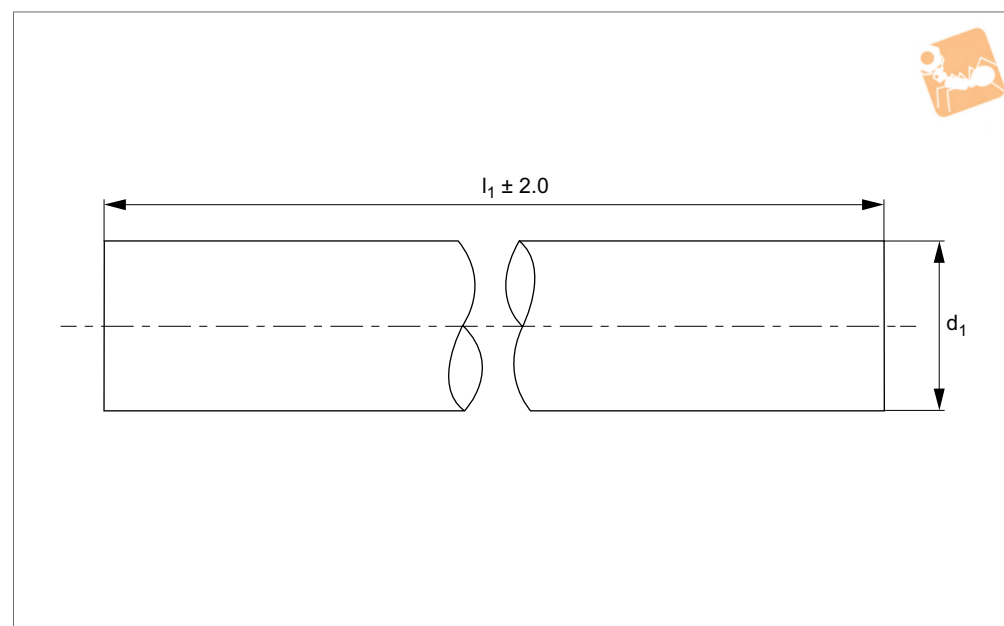
screws, L1320, L1321, L1322, and L1323.

See our website for version with left thread direction.

Order No.	Size	No. of starts	d ₁ tol. 7H	Lead	Thread direction	Contact surface mm ²	d ₂ tol. h10	l ₁	Weight kg
L1330.R08-015	TR8x1.5	1	8	1.5	Right	150	18	16	0.029
L1330.R10-02	TR10x 2	1	10	2.0	Right	200	22	20	0.053
L1330.R10-04	TR10x 4	2	10	4.0	Right	200	22	20	0.053
L1330.R12-03	TR12x 3	1	12	3.0	Right	280	26	24	0.083
L1330.R12-06	TR12x 6	2	12	6.0	Right	280	26	24	0.083
L1330.R14-03	TR14x 3	1	14	3.0	Right	380	30	28	0.135
L1330.R14-06	TR14x 6	2	14	6.0	Right	380	30	28	0.135
L1330.R16-04	TR16x 4	1	16	4.0	Right	490	36	32	0.232
L1330.R16-08	TR16x 8	2	16	8.0	Right	490	36	32	0.232
L1330.R18-04	TR18x 4	1	18	4.0	Right	630	40	36	0.320
L1330.R18-08	TR18x 8	2	18	8.0	Right	630	40	36	0.320
L1330.R20-04	TR20x 4	1	20	4.0	Right	790	45	40	0.455
L1330.R20-08	TR20x 8	2	20	8.0	Right	790	45	40	0.455
L1330.R22-05	TR22x 5	1	22	5.0	Right	940	45	44	0.480
L1330.R22-10	TR22x10	2	22	10.0	Right	940	45	44	0.480
L1330.R24-05	TR24x 5	1	24	5.0	Right	1130	50	48	0.656
L1330.R24-10	TR24x10	2	24	10.0	Right	1130	50	48	0.656
L1330.R26-05	TR26x 5	1	26	5.0	Right	1340	50	52	0.670
L1330.R28-05	TR28x 5	1	28	5.0	Right	2400	60	56	1.102
L1330.R28-10	TR28x10	2	28	10.0	Right	1570	60	56	1.102
L1330.R30-06	TR30x 6	1	30	6.0	Right	1780	60	60	1.140
L1330.R30-12	TR30x12	2	30	12.0	Right	1780	60	60	1.140
L1330.R32-06	TR32x 6	1	32	6.0	Right	1910	60	64	1.177
L1330.R32-12	TR32x12	2	32	12.0	Right	1910	60	64	1.177
L1330.R36-06	TR36x 6	1	36	6.0	Right	2610	75	72	2.189
L1330.R36-12	TR36x12	2	36	12.0	Right	2610	75	72	2.189
L1330.R40-07	TR40x 7	1	40	7.0	Right	3210	80	80	2.725
L1330.R40-14	TR40x14	2	40	14.0	Right	3210	80	80	2.725
L1330.R44-07	TR44x 7	1	44	7.0	Right	3920	80	88	2.815
L1330.R50-08	TR50x 8	1	50	8.0	Right	5060	90	100	4.014
L1330.R60-09	TR60x 9	1	60	9.0	Right	7320	100	120	5.150
L1330.R70-10	TR70x10	1	70	10.0	Right	10000	110	140	7.805
L1330.R80-10	TR80x10	1	80	10.0	Right	12950	120	160	9.800



L1770



Material

Carbon steel (070M55, Cf53 - DIN 1.1213), Surface hardness 60-66 HRC. Surface finish 0.3-0.6μ Ra, ground and polished to 8-12 cla. Yield stress: >325 N/mm², tensile strength: >630 N/mm².

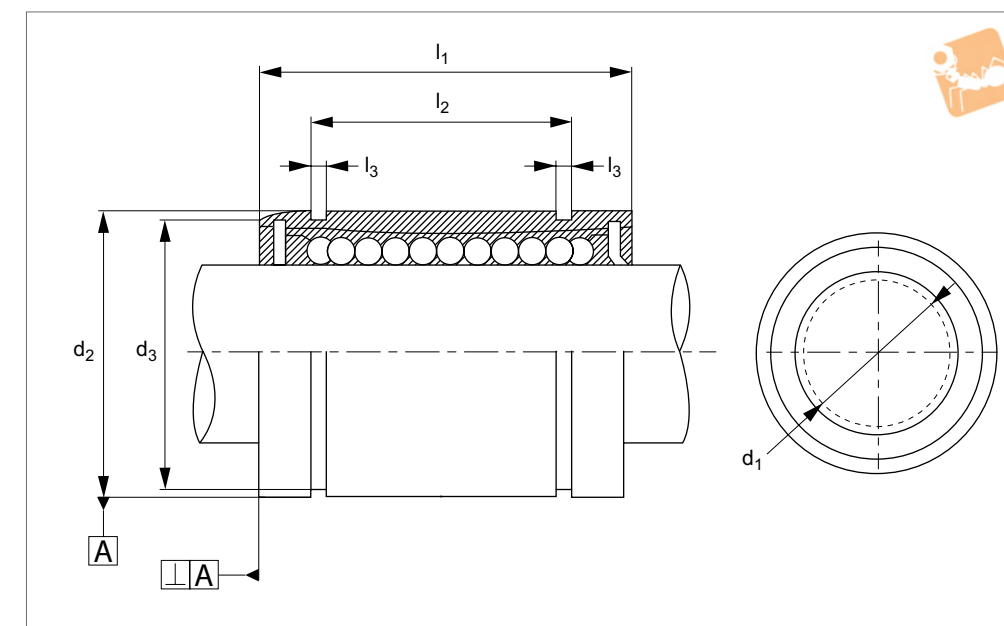
Technical Notes

Tolerance, h6 standard, special tolerances upon request. Suitable for use with linear bearings. Straightness 0.3mm/m. **Replace xxxx with desired shaft length eg. L1770.05-1000 is 1000mm long.**

Tips

Modifications, drilled and tapped holes, retainer grooves, special coatings etc. are available. Shaft lengths are cut to typically ± 2mm, ends are not hardened.

Order No.	d ₁ tol. h6	l ₁ max.	Depth of hardness min.
L1770.05-xxxx	5	6000	0.4
L1770.06-xxxx	6	6000	0.4
L1770.08-xxxx	8	6000	0.4
L1770.10-xxxx	10	6000	0.4
L1770.12-xxxx	12	6000	0.6
L1770.16-xxxx	16	6000	0.6
L1770.20-xxxx	20	6000	0.9
L1770.25-xxxx	25	6000	0.9
L1770.30-xxxx	30	6000	1.5
L1770.40-xxxx	40	6000	1.5
L1770.50-xxxx	50	6000	1.5
L1770.60-xxxx	60	6000	1.5



L1706

Material

Hardened and ground body from bearing steel. Single body resin retainer (POM). Supplied with nitrile rubber (NBR) end-seals -UU as standard.

Technical Notes

For use with hardened shafts only (see part nos. L1770 - L1772) - tolerance h6.

Perpendicularity .A is better than 15μ.

For part numbers with ⁻¹ shaft tolerance required is g6. Temperature range: -20°C to +80°C.

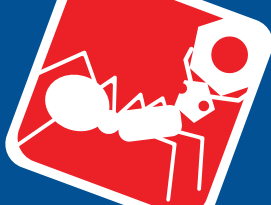
Steel ball retainers can be supplied for higher temperature applications up to 120°C - with no end seals. Please advise at time of ordering if this is required.

Tips

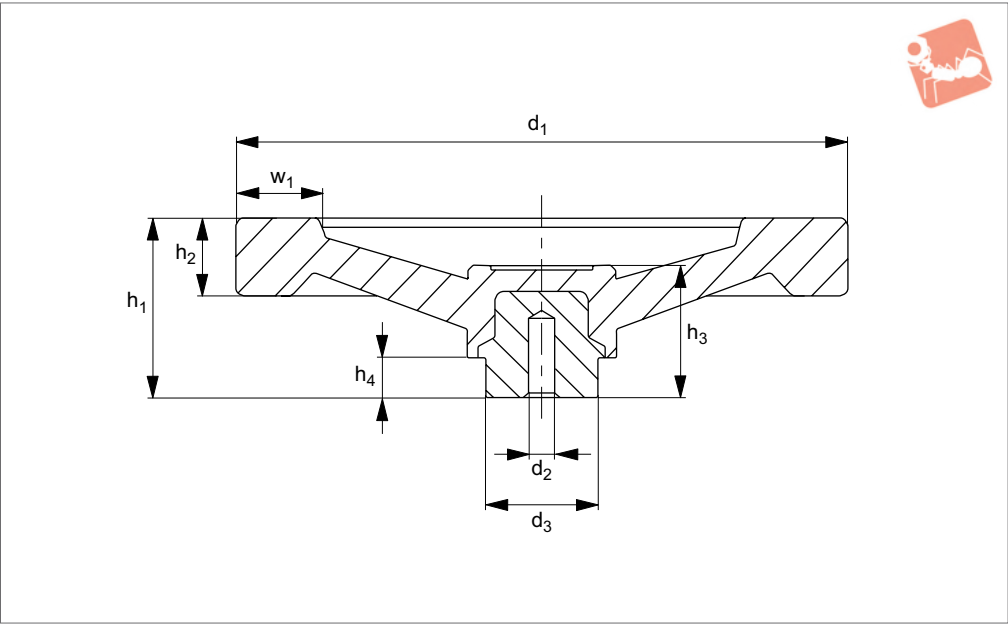
Superball linear bearings are also available (3 x load rating of standard bushings and 27 x travel life see part nos. L1740 and L1742.)

Nickel plated version with stainless steel balls (for corrosion resistance) on request - or stainless steel version no. L1709.

Order No.	d ₁ tol. h6	d ₂ tol. h6	l ₁ +0 -0.3	d ₃	l ₂ +0 -0.3	l ₃	No. of ball circuits	Dyn. load C N max.	Static load C ₀ N max.	Weight g
L1706.005	5	12	22	11.5	14.5	1.10	4	200	260	12
L1706.006-1	6	12	19	11.5	13.5	1.10	4	200	260	8
L1706.008	8	16	25	15.2	16.5	1.10	4	260	400	20
L1706.010-1	10	19	29	18.0	22.0	1.30	4	370	540	30
L1706.012	12	22	32	21.0	22.9	1.30	4	410	590	41
L1706.016	16	26	36	24.9	24.9	1.30	5	770	1170	57
L1706.020	20	32	45	30.3	31.5	1.60	5	860	1370	91
L1706.025	25	40	58	37.5	44.1	1.85	6	980	1560	215
L1706.030	30	47	68	44.5	52.1	1.85	6	1560	2740	325
L1706.040	40	62	80	59.0	60.6	2.15	6	2150	4010	705
L1706.050	50	75	100	72.0	77.6	2.65	6	3820	7930	1130
L1706.060	60	90	125	86.5	101.7	3.15	6	4700	9990	2220



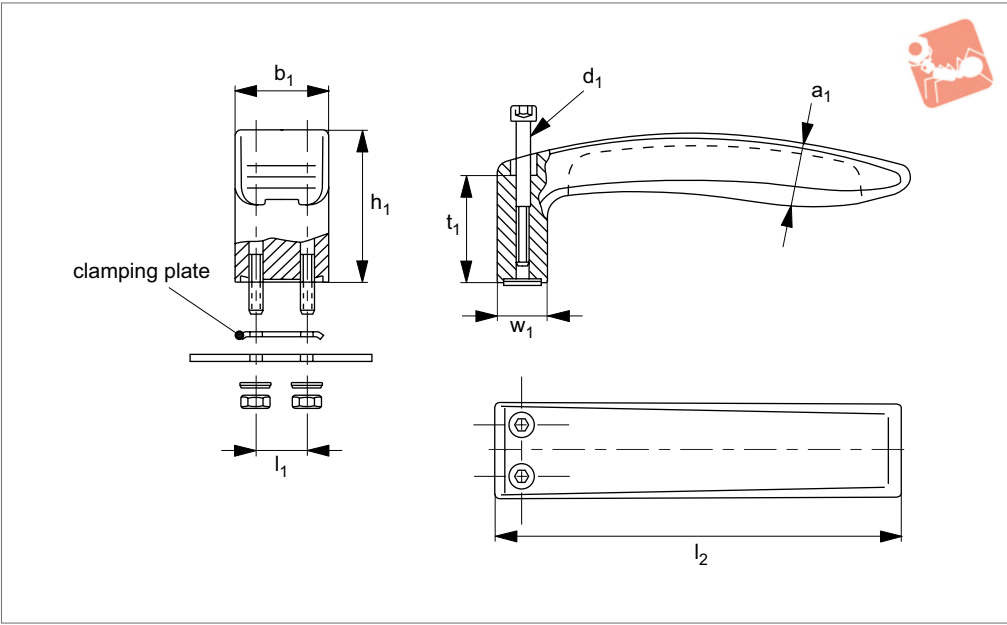
77340



Material
Duroplast, black, matt. Zinc plated steel hub.

Technical Notes
The pilot hole allows various sizes of holes, keyways etc. to be machined into the hub upon request.

Order No.	d ₁	d ₂	d ₃	h ₁	h ₂	h ₃	h ₄	w ₁	Weight g
77340.W0125	125	4	24	41	16	34	11	18	253



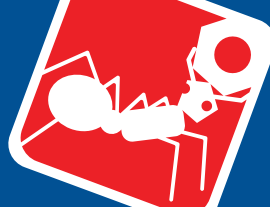
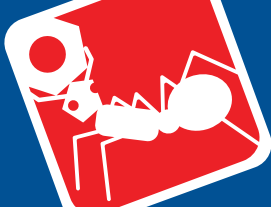
Material
Thermoplastic PA 6, glass ball reinforced, matt black.

Technical Notes
Ideal for applications where one-sided fastening required. Minimum stress resistance 800N per handle.

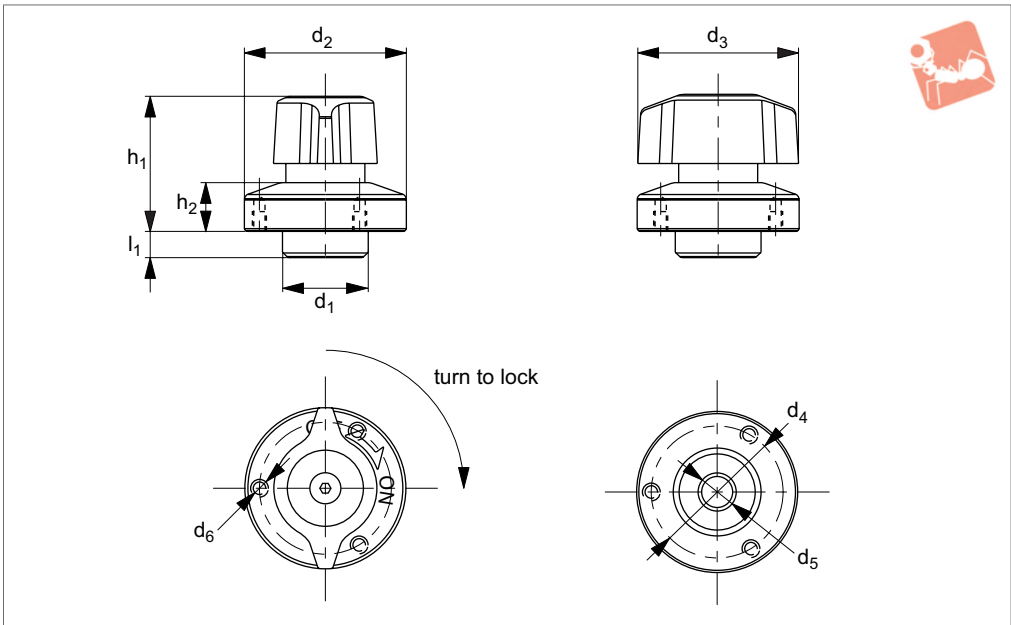
Order No.	l ₁	l ₂	a ₁	b ₁	d ₁	h ₁	t ₁	w ₁
78190.W0017	17	128	20	30	M 5x45	48	33	18
78190.W0020	20	154	24	36	M 6x55	58	40	22



78190



33927



Material

Body & Shank: steel, nickel plated.
Knob: polyamide, black.
Ball & Spring: Stainless steel.

Technical Notes

One-touch fasteners are the ideal solution for applications requiring rapid and recurring change over of tooling or set ups. Use in applications as diverse as bottling processes, machine covers, changing of

cogs and drive belts. One-touch fasteners provide a quick, simple and secure change over solution - no time wasted in unfastening screws or other permanent fixings, and no opportunity for lost fixings in your machinery.

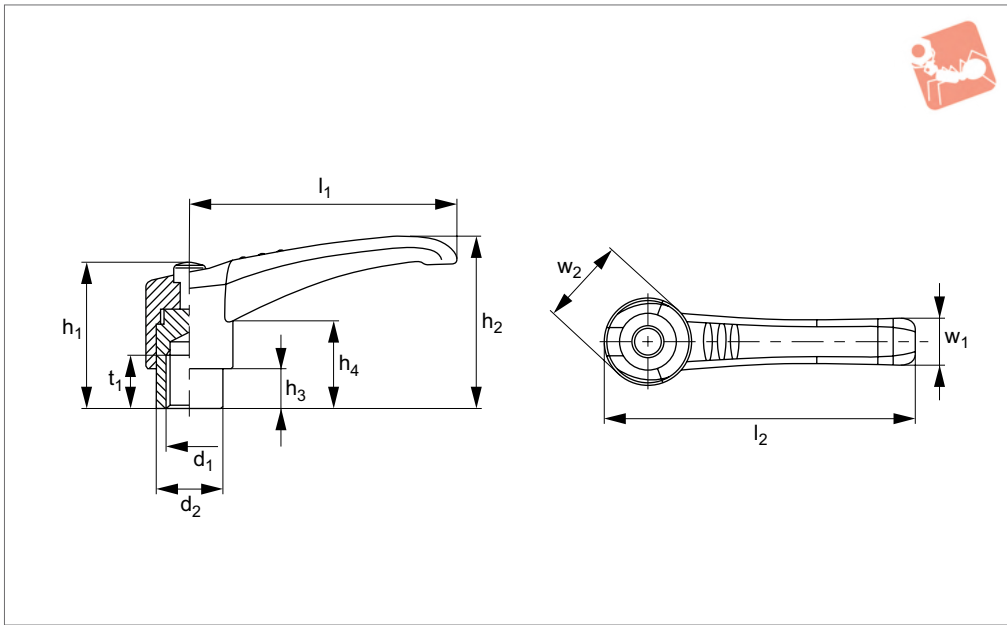
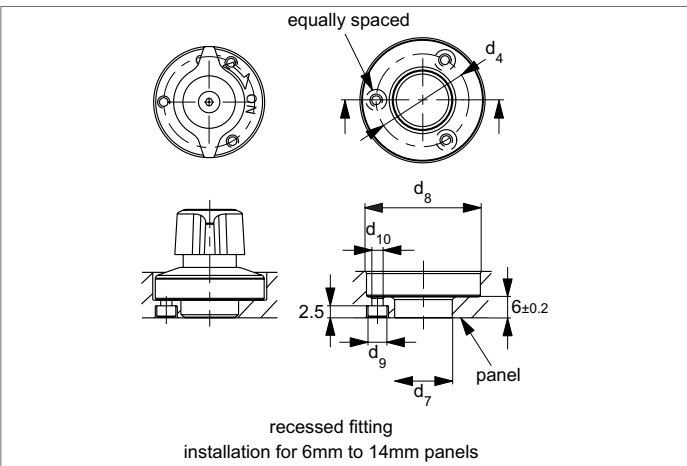
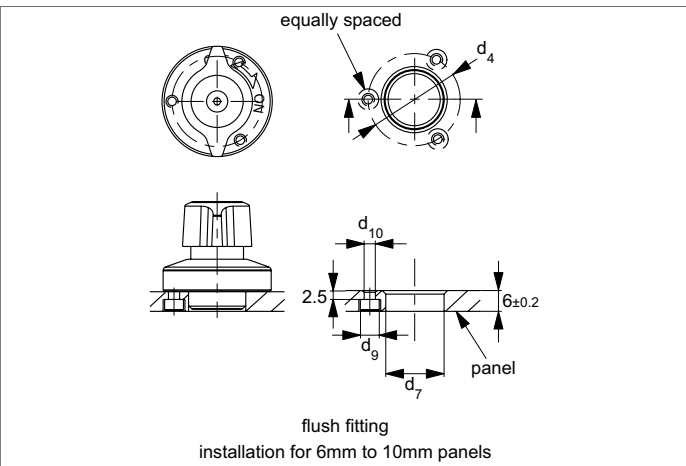
Tips

Used in conjunction with pin 33923. For highly accurate locating, use locating pins 36340 & 36341.

Actuation

-Turn handle to off position, clamping balls are retracted. Engage panel and clamp over clamping pin. Turn handle on to position to clamp.
-To unclamp, reverse steps above.

Order No.	For single panel thickness	For pin dia.	d ₁	d ₂	d ₃	d ₄	d ₅	d ₆	h ₁	h ₂	l ₁	Clamping force N	Shear strength N	Tensile strength N	Weight g
33927.W1006	6-10	6	14	25	25	21	6	M 2x0.4	23	6.5	5.5	7	1100	250	35
33927.W1408	6-14	8	18	34	34	28	8	M 3x0.5	28	10.0	5.5	9	1800	400	85



74760

Material

Black, matt thermoplast, reinforced.
Insert: zinc plated steel.
Button: black.

Important Notes

Other button colours available on request subject to minimum quantities.

Order No.	l ₁	d ₁	l ₂	d ₂	h ₁	h ₂	h ₃	h ₄	t ₁	w ₁	w ₂	Weight g
74760.W0452	45	M 5	53	12	30	33.5	7.5	18	8	10.5	16	22
74760.W0453	45	M 6	53	12	30	33.5	7.5	18	8	10.5	16	24
74760.W0652	65	M 6	75	15	35	41.0	7.5	19	11	13.5	20	26
74760.W0653	65	M 8	75	15	35	41.0	7.5	19	11	13.5	20	24
74760.W0801	80	M 8	92	20	45	53.0	12.0	26	16	16.5	24	55
74760.W0802	80	M 10	92	20	45	53.0	12.0	26	16	16.5	24	56
74760.W0803	80	M 12	92	20	45	53.0	12.0	26	16	16.5	24	57
74760.W0951	95	M 12	108	21	50	61.0	13.0	30	22	19.0	27	83
74760.W0952	95	M 14	108	21	50	61.0	13.0	30	22	19.0	27	94
74760.W0953	95	M 16	108	21	50	61.0	13.0	30	22	19.0	27	89

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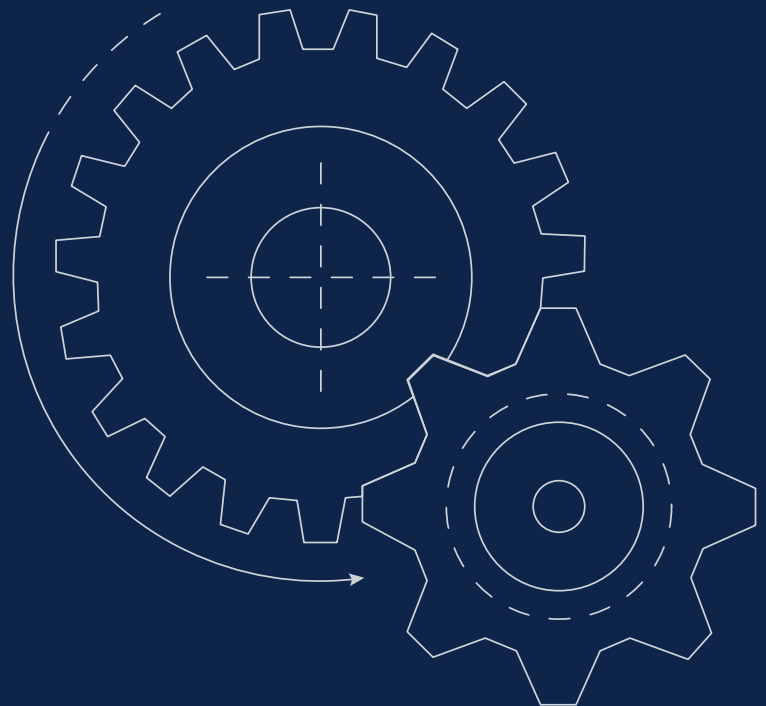
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