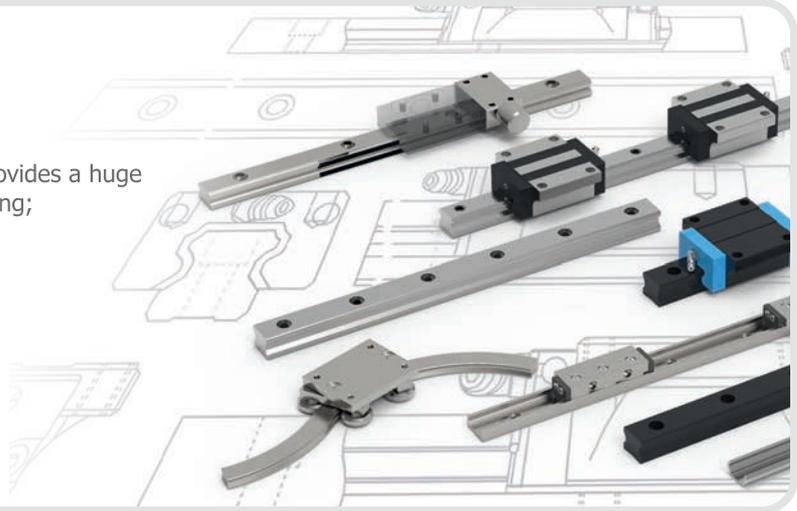


Automation Components have a wide product range supplying design engineers with linear, rotary, linkages and mechanical components. With **large stock holdings** and **free CAD models** available to download from our website, automationcomponents.co.uk.

Linear Components

Our linear motion range is extensive and provides a huge variety of linear motion components, including;

- Linear Guideways & Rails
- Linear Bearings & Shafts
- Telescopic Rails
- Lead Screws & Ball Screws
- Linear Tables, Positioning Stages & Crossed Roller Sets



Mechanical Components

Automation Components are leading UK manufacturers of specialist fasteners. Including a range of mechanical components;

- Shoulder Screws, Captive Screws & Sealing Screws
- Lifting Pins, Lifting Bolts & Swing Bolts
- Blanking Plugs and Spring & Tolerance Rings
- Standard Fasteners
- Pins & Spacers
- Anti-Vibration, Levelling Feet & Materials Handling
- Thread Inserts & Specialist Screws



Linkages & Rotary Components

With over 50 years' experience and large volumes of high quality linkage components in stock, Automation Components is ready to help you find the perfect linkage for your application today. Our range includes;

- Universal Joints & Rod Ends
- Couplings
- Pivot Bearings, Air Motors & Cylinders
- Clevis Joints, Turnbuckles & Ball & Socket Joints
- Gears, Gear Boxes & Belts



Who are

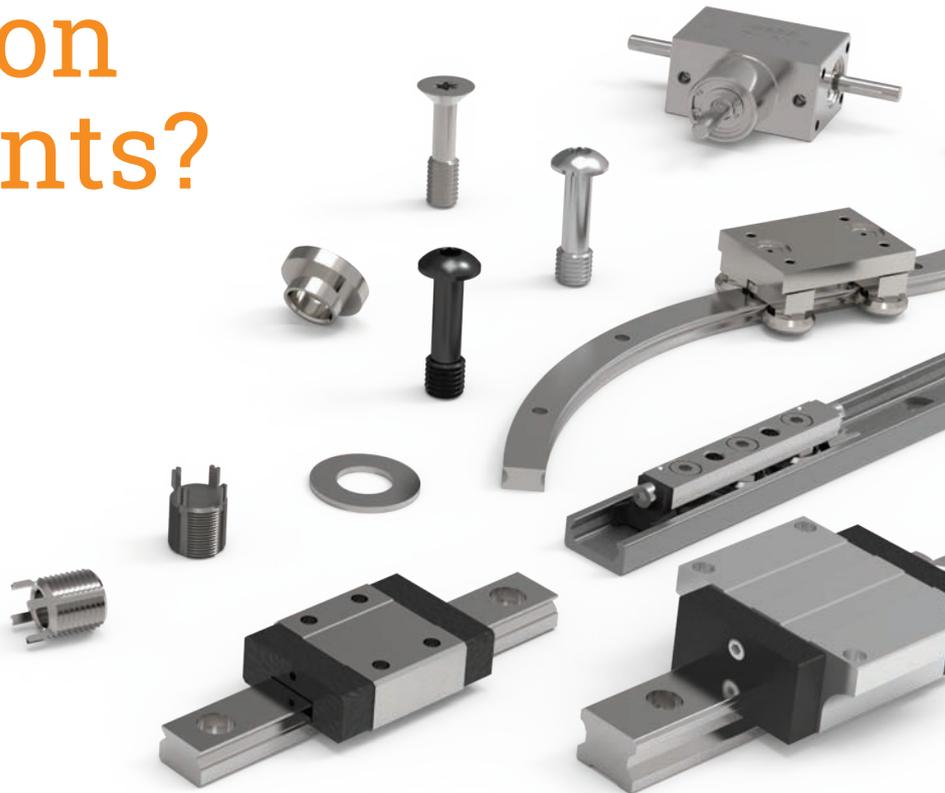
Automotion Components?

Automotion Components, part of the Wixroyd Group, is your trusted partner in supplying precision-engineered solutions to power the world's most demanding industrial applications.

With in-house manufacturing capabilities, deep stock availability, and an expanding CAD library, we simplify sourcing and speed up your design process.

Trusted across many industries including:

- Material handling & conveyor systems
- Packaging & labelling machinery
- Automated assembly machines
- Special purpose machinery
- Premium aircraft seating
- Oil, gas & energy sectors
- Defence & aerospace projects
- Robotics & motion control systems
- Semiconductor & electronic equipment
- Medical



Automotion's website and dedication to the continual expansion of our free 3D CAD library means we are always focusing on delivering the latest information in easy-to-use formats.

Available directly from our website, we offer a wide range of CAD models in popular formats: **SolidWorks, ProE, Sat, Step, Parasolid and Iges.**



Why choose us?



SIMPLIFIED PROCUREMENT PROCESS

Streamline your operations & boost performance by consolidating your purchases to a single trusted supplier (us!).



EXPERT TECHNICAL SUPPORT

Available via telephone, email or our live web chat service, we work to find a solution for your application.



ENVIRONMENTALLY RESPONSIBLE OPERATIONS

We strive for earth-conscious operations and have put numerous greener solutions in place. Find out more ▼



HIGH QUALITY PRODUCTION

Trusted by some of the best known design & manufacturing companies, we pride ourselves on producing the highest quality components at the best value.



BESPOKE CAPABILITIES

Our in-house manufacturing can make your idea a reality. Call our technical team to discuss.

GET IN TOUCH

automotioncomponents.co.uk
sales@automotioncomponents.co.uk
0333 207 4498

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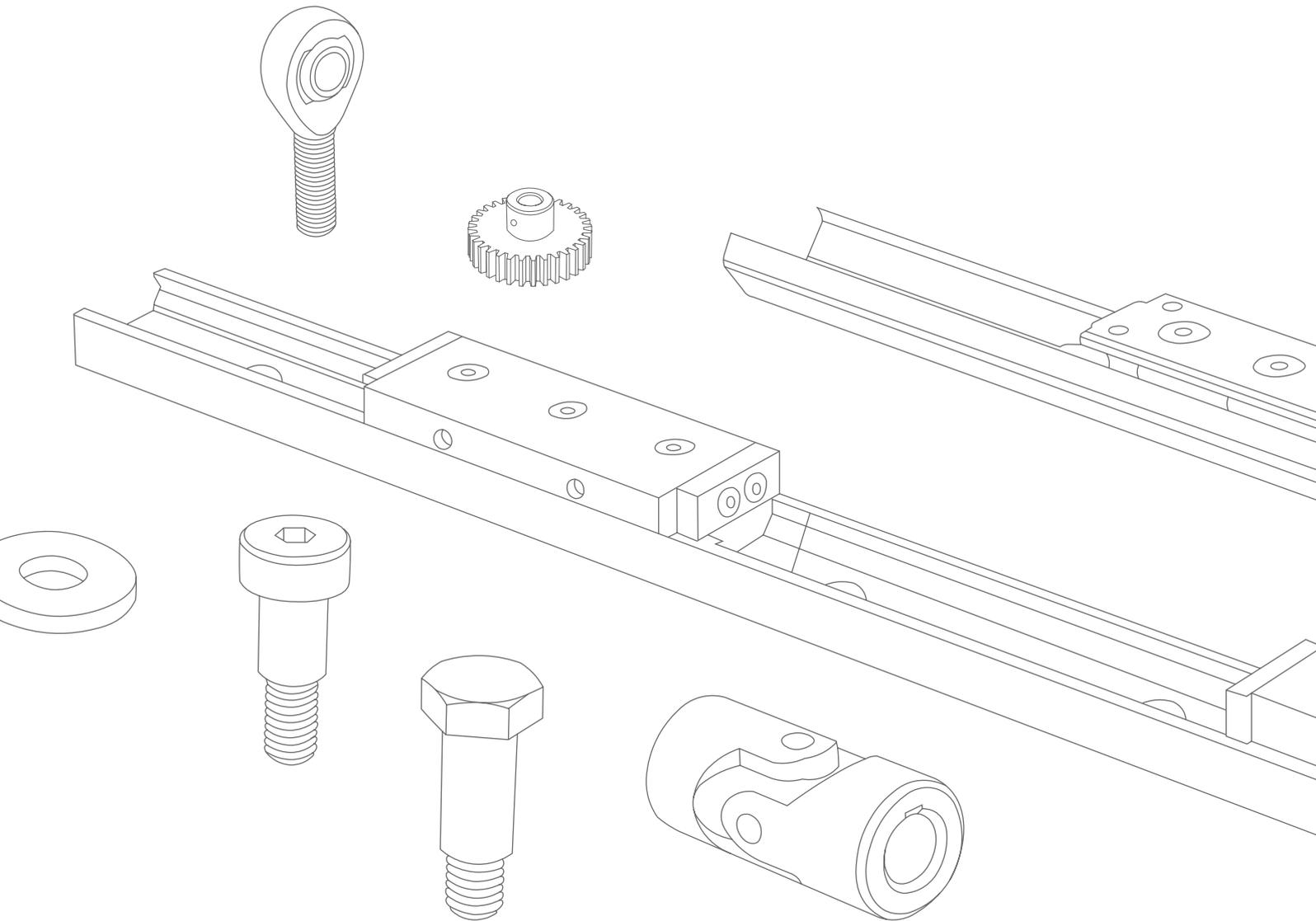
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VIEW THE FULL RANGE

Linear Components ▶ Linear Guideways & Rails

Linear Rails

A linear rail is a system which facilitates linear movement and supporting of the load of a piece of equipment, either vertically or horizontally. As specialists in linear motion systems, we offer you a choice of materials and sizes. Whether your application requires lightweight aluminium rails for aviation purposes or stainless steel components

for resistance against water and corrosive chemicals, our range caters to diverse needs. Our knowledgeable technical engineers are always on hand to provide assistance.



 **Automation**
AN ESSENTRA COMPANY



L1010.C - Miniature Rail Carriages

Standard rail width. Miniature linear guideways are for precise, repeatable linear positioning. Space saving and cost efficient

 **Automation**
AN ESSENTRA COMPANY



L1016.U-BC - Unflanged Carriages - Standard

Blackened. Ball chain linear guideways. Very accurate and can handle high load capacities, providing smooth, consistent linear motion

 **Automation**
AN ESSENTRA COMPANY



L1016.UL - Unflanged Carriages - Low

With retained ball cage. Ball chain linear guideways. Very accurate and can handle high load capacities, providing smooth, consistent linear motion

An overview of Linear Guides



VIEW THE FULL RANGE

Why use this product?

For their rigidity, precision and high load capacity.

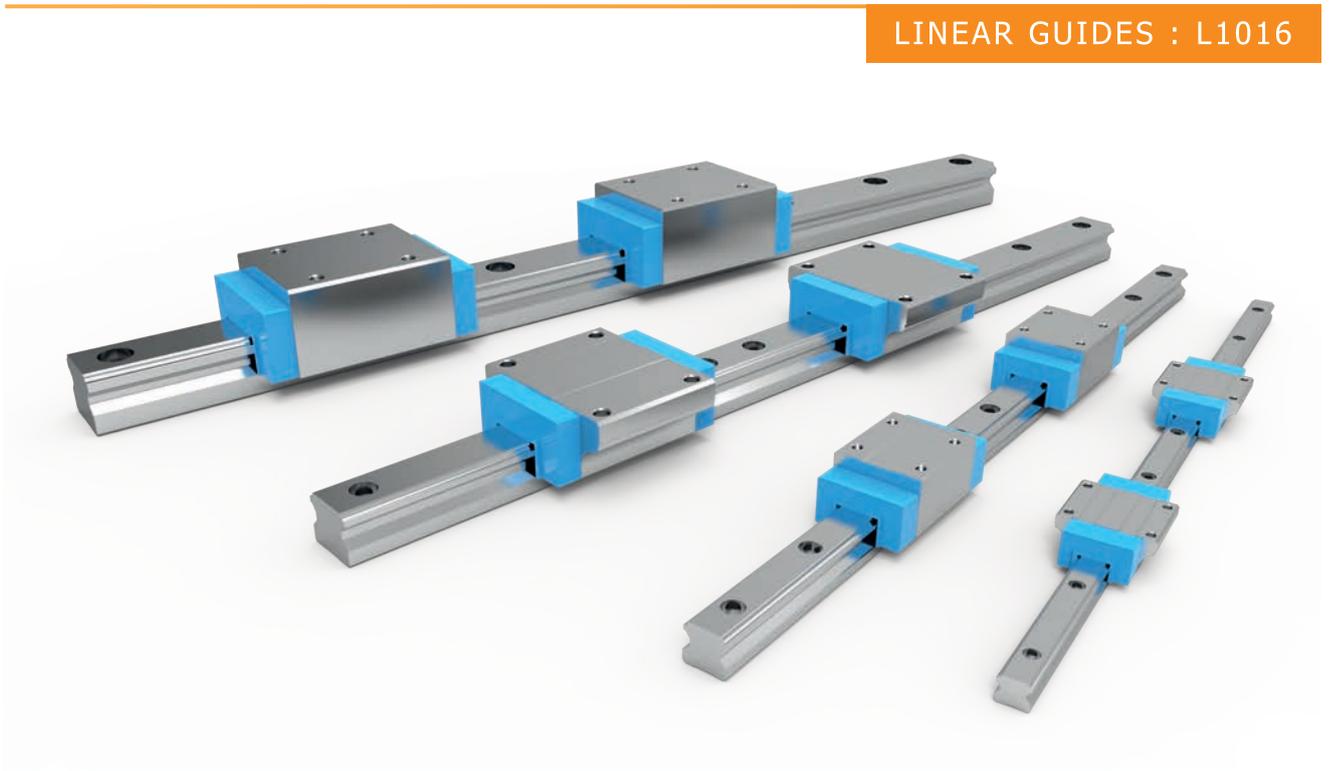
We stock seven rail profiles of up to 4 metres length with multiple slider options.

Same day despatch available.

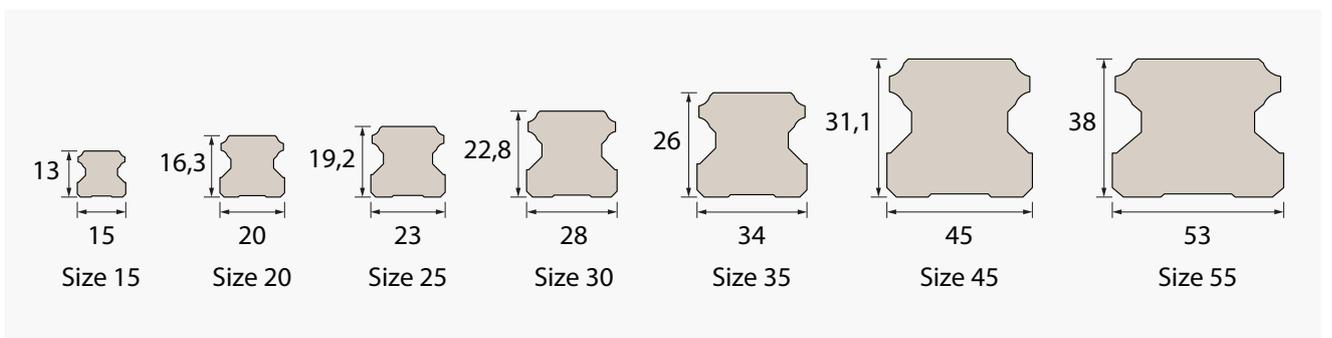
Cost effective solution compared to other linear guides.

The system is interchangeable with other manufacturers such as THK, HIWIN, INA, Bosch etc.

LINEAR GUIDES : L1016



Rail sizes



An overview of Miniature Linear Guides



VIEW THE FULL RANGE

Why use this product?

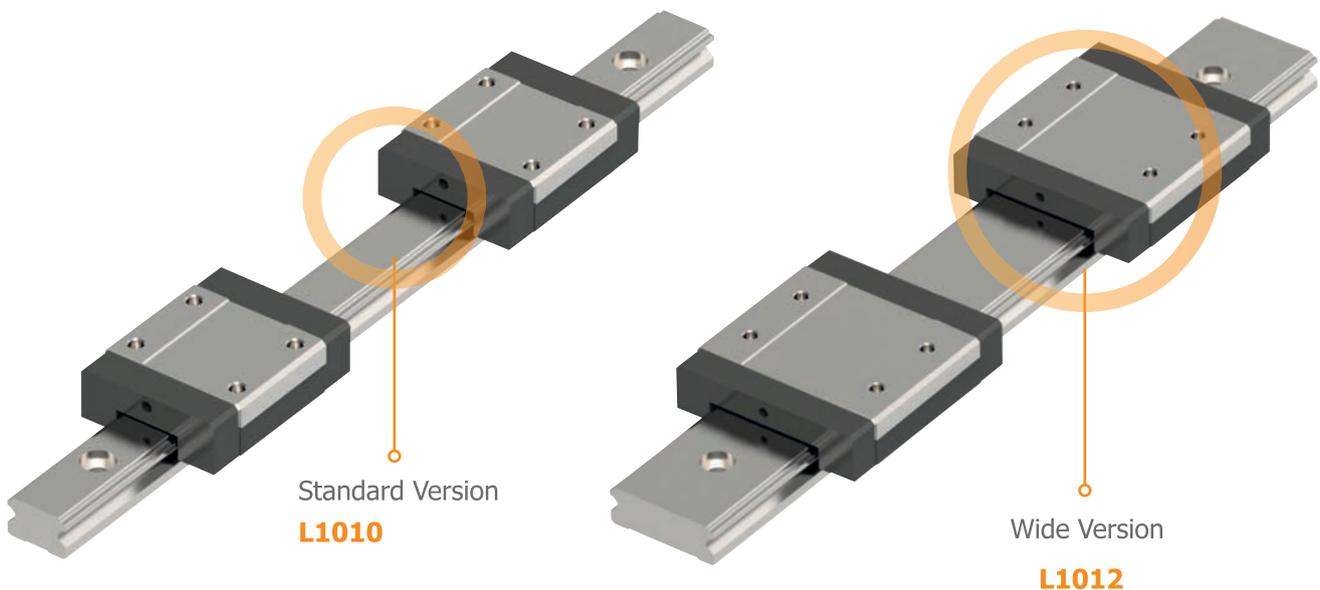
Higher load ratings and precision for the size of the product.

Ideal product for applications requiring a small or low profile linear guide.

High level of corrosion resistance as manufactured for 440c stainless steel.

Same day despatch available.

LINEAR GUIDES : L1010 - L1012

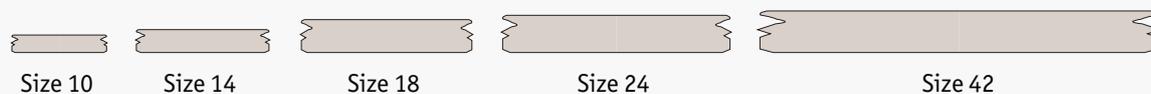


Rail sizes

L1010 STANDARD VERSION



L1012 WIDE VERSION



An overview of Aluminium Linear Guides

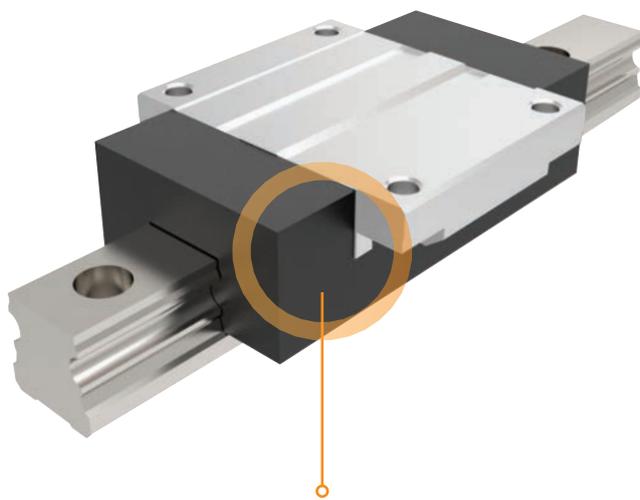


Why use this product?

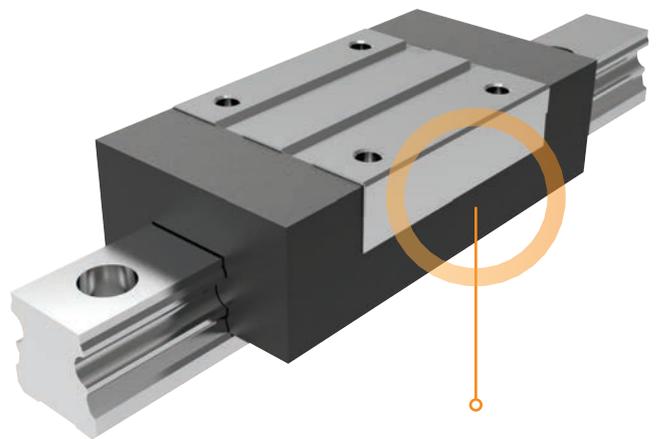
Compact and lightweight. These weigh approximately 60% less than comparatively sized steel rails.

Corrosion resistant material. Hardened stainless balls and rail strips to prevent wear.

LINEAR GUIDES : L1018

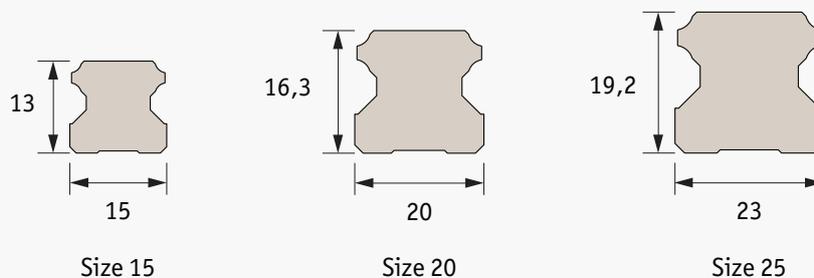


Flanged Carriages



Unflanged Carriages

Rail sizes



An overview of Needle Roller Linear Guides



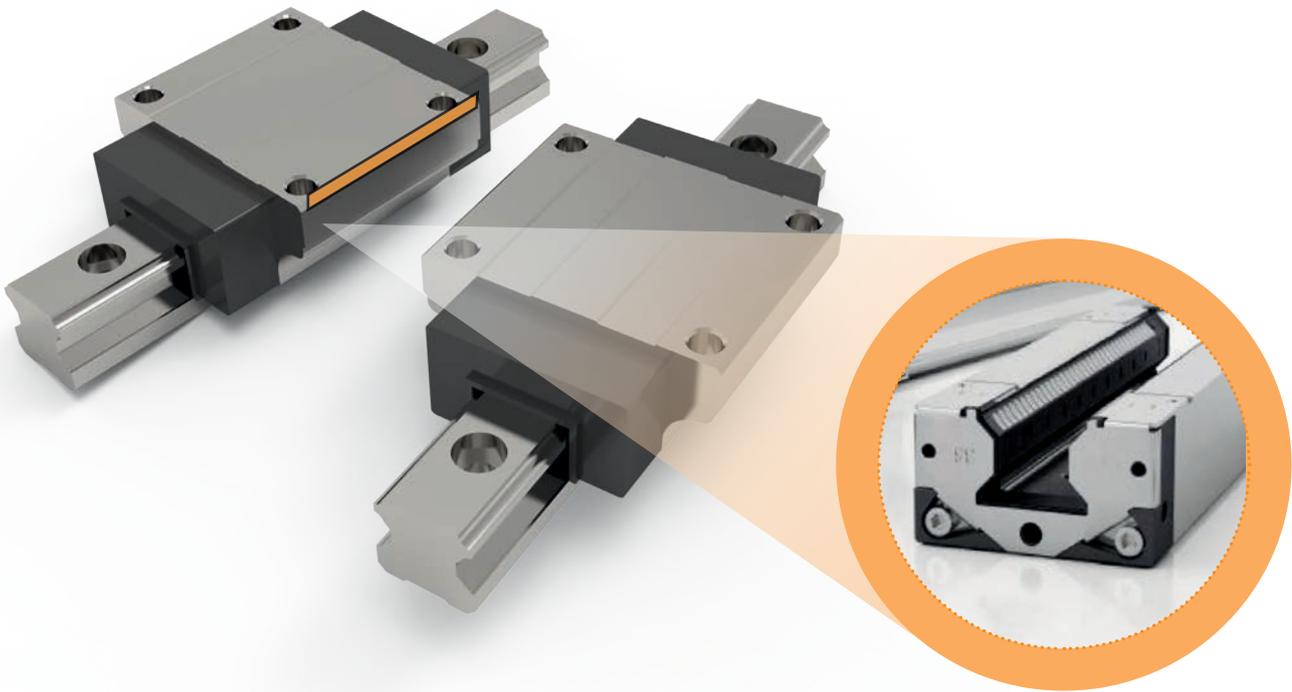
VIEW THE FULL RANGE

Why use this product?

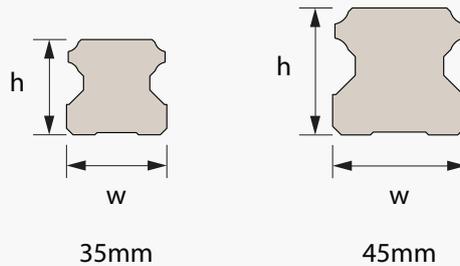
Ideal for applications with very high load ratings (where space restrictions prevent larger standard linear guides from being an option).

Higher load ratings and greater rigidity than standard linear guides.

LINEAR GUIDES : L1017



Rail sizes





☰ Products



Linear Guideways & Rails >

Linear Rails



L1010 - Miniature Linear Rails

Standard width. 3mm to 15mm. Hardened, corrosion resistant stainless steel



L1010.CL - Manual Clamp for Miniature Rails

Manual Clamps for Miniature Rail for L1010 & L1012. Stainless steel. Corrosion resistant



L1012 - Miniature Linear Rails

Wide version. 10mm to 42mm. Hardened, corrosion resistant stainless steel



L1012.C - Miniature Rail Carriages

Wide version. Corrosion resistant stainless steel body, with hardened stainless steel ball bearings



L1013 - Miniature Rail Assembly

Miniature Rail Assembly. Rail and carriage. Hardened stainless steel. Max temperature +150°C



L1016 - Linear Guide Rails

Standard. 15mm to 55mm. Hardened and ground steel



L1016.F - Flanged Carriages - Standard

Blackened. Hardened and ground steel. Matt black oxide ceramic layer. Resistant to acids, alkalis and solvents



L1016.U - Unflanged Carriages

Unflanged Carriages - Standard. With retained ball cage. Steel



L1016.U-NC - Unflanged Carriages

Carriages - Standard. No ball cage. Steel. Flanged L1016.F-NC. Unflanged L1016.U-NC



L1016.F-NC - Flanged Carriages

Flanged Carriages - Standard. No ball cage. Steel



L1016.F-BC - Flanged Carriages

Blackened Carriages. Standard. Black chrome coating. Flanged L1016.F-BC. Unflanged L1016.U-BC



L1016.BL - Linear Guide Rails

Standard. Blackened. 15mm to 25mm. Hardened and ground steel. Black oxide



☰ Products



Linear Guideways & Rails >

Linear Rails



L1016.CL - Rail Clamps

Manual. Aluminium body, steel contact faces. Used in conjunction with the rail carriages, flanged and unflanged



L1018 - Aluminium Linear Guide Rails

With stainless raceways for added durability. Lightweight and compact. Used with aluminium carriages



L1018.CL - Rail Clamps

Rail clamp for aluminium rail L1018. Aluminium body, plastic contact faces



L1018.U - Unflanged Carriages

Carriages. Aluminium, with retained ball cage



L1018.F - Flanged Aluminium Carriages

Flanged Aluminium Carriages. with retained ball cage. Aluminium block, stainless ball & slider



L1017 - Needle Roller Linear Rails

Needle roller linear rail. Steel. Heavy duty. Sizes 25-55mm



L1017.U - Unflanged Carriages

Needle roller carriages. Steel. Flanged L1017.F, unflanged L1017.U



L1017.F - Needle Roller Flanged Carriages

Needle Roller - Flanged Carriages. Steel



Crossed Roller Rails & Tables

Crossed roller rails and tables represent low-profile, high-precision solutions for linear support and guidance, ensuring elevated accuracy, repeatability, and minimal friction. Crossed roller tables, in particular, excel in handling higher loads compared to their ball bearing counterparts of similar dimensions. Whether you need lightweight aluminium rails for use in

aviation applications or stainless steel components for when exposure to water or corrosive chemicals is a factor, we have a range of options to a variety of requirements.



L1000 - Crossed Roller Rail Sets

Supplied in sets of 4 rails - with 2 roller cages and 8 end screws as standard. Can be cut to length, but this affects load rating



L1006.V - Anti-Friction Coated V Rail

High load capacity. Primarily used as dirt-proof units, to reduce system vibration and improve rigidity



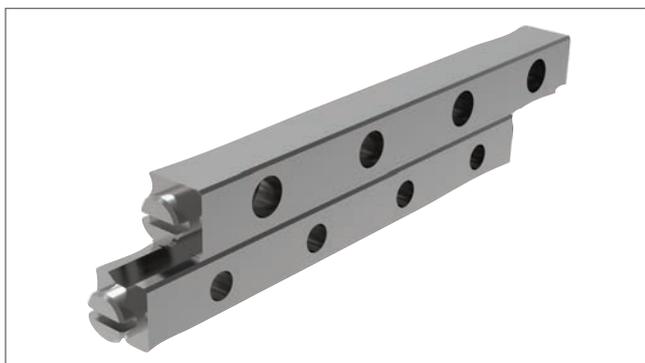
L1020 - Crossed Roller Tables

Base and carriage with standard hole pattern. Top can be machined as required

An overview of Crossed Slides



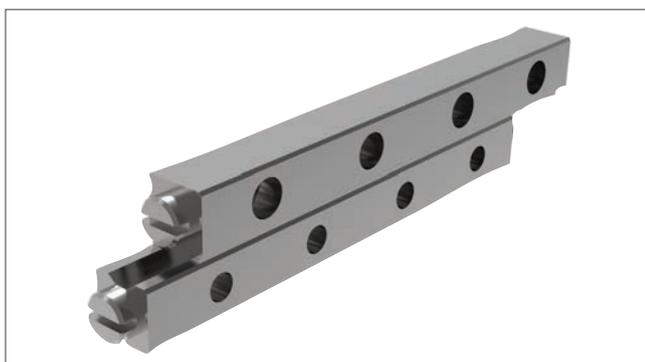
VIEW THE FULL RANGE



Standard cross roller rail sets

L1000 & L1001

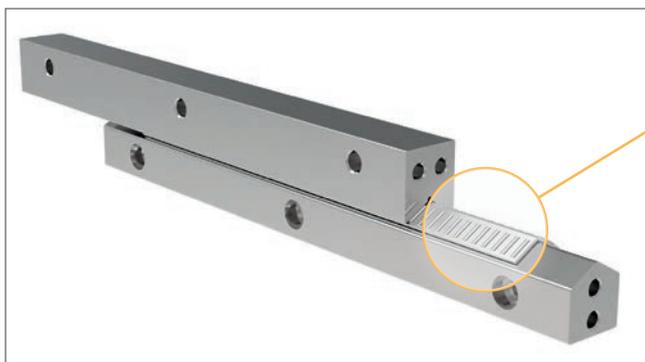
- Seven rail profiles (Sizes 1-12)
- Lengths: 20mm to 1 metre
- L1000 standard rail set
- L1001 corrosion resistant rail sets



Deep groove and anti-creep rail sets

L1002 + L1003

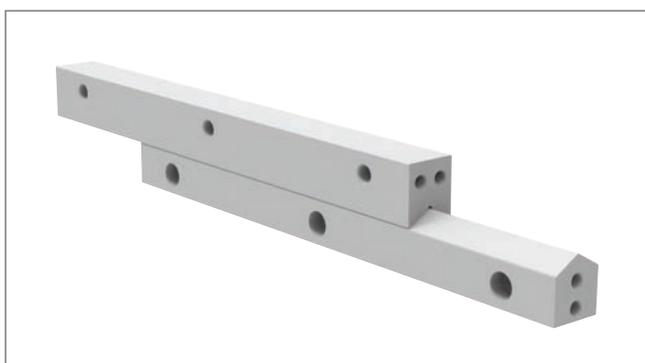
- 3 x load capacity of standard rail sets (due to deep V groove)
- Two rail profiles (Sizes 4 & 6)
- Lengths 50mm to 400mm
- Anti-creep versions for high acceleration applications



Needle roller rail sets

L1004.HW

- Heavy load ratings and needle rollers are used
- Five rail profile size
- Lengths: 200mm to 1.2 metres



Anti-friction coated rail sets

L1005 & L1006

- Same profile as needle roller rails but contact face Teflon coated.
- Ideal for harsh, dirty conditions
- Vibration damping characteristics



☰ Products



Linear Tables, Positioning Stages & Crossed Roller Sets >

Crossed Roller Rails & Tables



L1001 - Stainless Crossed Roller Rail Sets

Supplied in sets of 4 rails - with 2 roller cages and 8 end screws as standard



L1002 - Crossed Roller Rail Sets

Crossed roller rail sets. Deep groove version. Steel. Supplied in sets of 4 rails



L1004.HW - Needle Roller Linear Cages

Needle roller linear cages. Steel. Sizes range from 10-30 and from 100-1000mm in length



L1004.M - Needle Roller Rail Sets - M Rail

High load capacity. Usually supplied in a set of 4, with needle rollers in aluminium cage, GM end stops



L1004.V - Needle Roller Rail Sets - V Rail

High load capacity. Usually supplied in a set of 4, with needle rollers in aluminium cage, GM end stops



L1005.M - Anti-Friction Coated M Rail

Anti-friction Coated M Rail. Medium load capacity. Steel.



L1005.V - Anti-Friction Coated Rail Set

Anti-friction Coated Rail Set. V rail. Steel.



L1007 - Linear Cage - Ball

Linear Cage - Ball. Steel. Sizes 20-160



L1008 - Linear Cage - Crossed Roller

Linear Cage - crossed roller. Plastic or stainless steel. Size 20-90



L1009 - Linear Cage - Needle Roller

Linear cage - needle roller. Steel. Sizes 25-60



L1021 - Crossed Roller Tables

Crossed roller tables, aluminium



L1022 - Stainless Crossed Roller Slides

Stainless cross roller slides



Products



Linear Tables, Positioning Stages & Crossed Roller Sets



Crossed Roller Rails & Tables



L1023 - Stainless Cross Roller Slides

Stainless cross roller slides. Flanged. Stainless steel



L1027 - Low Profile Crossed Roller Table

Low profile crossed roller table. Aluminium or Steel



L1024 - Ball Slide Assemblies

Standard precision. Stroke is centred on the mid-point of the slides. Aluminium



L1026 - Crossed Roller Slides

Standard precision. Stroke is centred on the mid-point of the slides. Aluminium



L1028 - Ball Slide Assemblies

Precision. Stroke is centred on the mid-point of the slides. Aluminium



L1029 - Crossed Roller Slides

Precision. Stroke is centred on the mid-point of the slides



L1030 - Low Profile Ball Slide Assemblies

High precision. Stroke is centred on the mid-point of the slides



L1032 - Low Profile Crossed Roller Table

Low profile crossed roller table. High precision. Aluminium



L1034 - Flanged Ball Slide Assemblies

Flanged ball slide assemblies. High precision. Aluminium



L1036 - Flanged Crossed Roller Slides

Flanged crossed roller slides, wide base, high precision. Aluminium



L1038 - Anti-Creep Ball Slide Assemblies

The anti-creep retainer used in these units, prevent ball retainer misalignment.



L1039 - Non Magnetic Ball Slide Assemblies

No lubrication required due to self-cleaning ball bearing design.



Linear Components ▶ Linear Guideways & Rails

Compact Rails

The compact rail system is a unique linear rail, or linear guide system that is very easy to install and allows for some misalignment of the structure in which it is being used. With the pre-load, or stiffness of the system also being adjustable by the user during set up.

Induction hardened raceways on all rails and a precision 'master' rail ensure this is still a high precision system but with minimal set up time.



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L1918.18 - Light Duty T Rails

Light duty, compact rails with counterbored fixing holes. Usually used with a U slave rail to allow for system misalignment

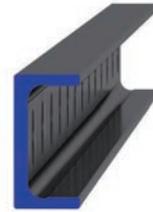
 **Automation**
AN ESSENTRA COMPANY



L1918.CS - Light Duty Sliders - Size 18

Light duty, compact rail sliders with rubber seals. No side seal. Front fixing. Easy to install. Quiet and fast. The U rail sliders cannot accept axial loads

 **Automation**
AN ESSENTRA COMPANY



L1918.18 - Light Duty U Rails

Light duty, compact U-rails with counterbored fixing holes. Usually used with a T master rail and a corresponding T-C rail

An overview of Compact Rails

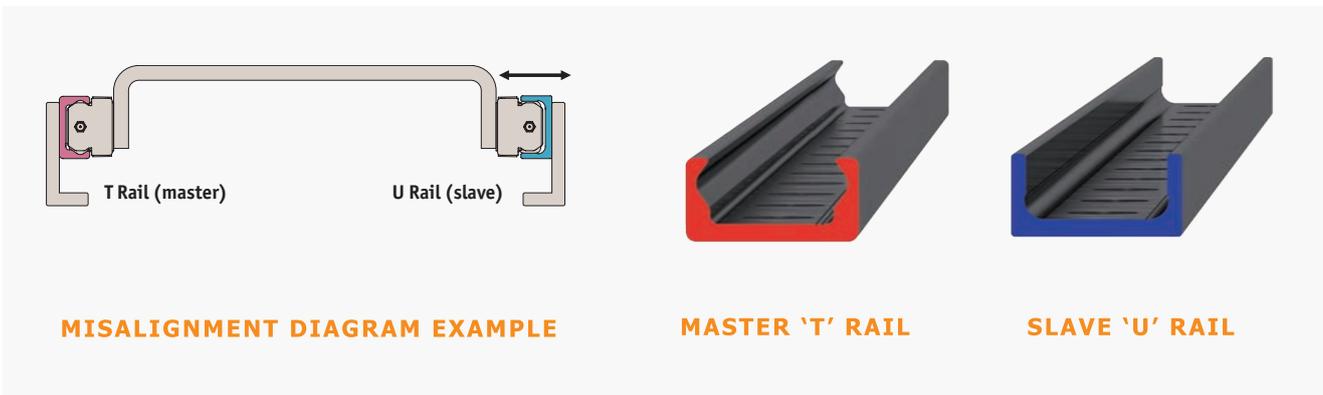


VIEW THE FULL RANGE

Why use this product?

Misalignment compensation system. Unique master and slave rails allow the system to operate effectively even when a pair of rails are not perfectly parallel.
Manually adjustable pre-load.

Ideal product when mounting surfaces are not precision ground, which is a requirement for standard linear guides.



MISALIGNMENT DIAGRAM EXAMPLE

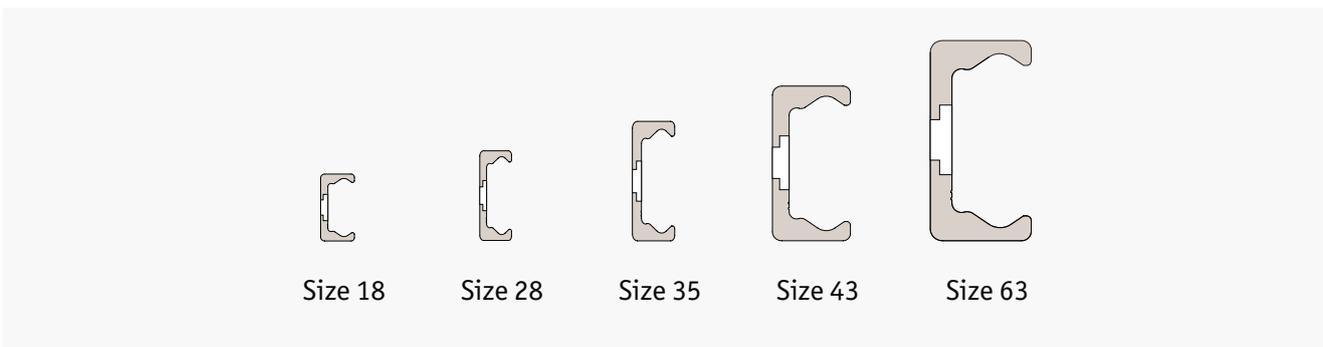
MASTER 'T' RAIL

SLAVE 'U' RAIL

Slider options



Rail sizes





☰ Products



Linear Guideways & Rails



Compact Rails



L1900.CB - Individual Rollers

Individual rollers, steel, with 2RS seals (splashproof). Lubricated for life



L1900.CL - Slider Clamps

Manual slider clamps for use with our compact rail systems. Aluminium clamp body with steel clamping face



L19xx.CL - Sliders

Sliders. L1918.CL - light duty, L1928.CL & L1935.CL - medium duty, L1943.CL - heavy duty. Side seal, front fixing with wiper



L1900.CPN - Individual Rollers

Individual rollers, steel, with either 2Z seals (for dust protection) or 2RS (splashproof)



L1900.CPNX - Individual Rollers

Individual rollers, stainless steel, with 2RS seals (splashproof)



L1900.S - Low Profile Screws

Special low head torx screws for compact rails. Zinc or nickel plated



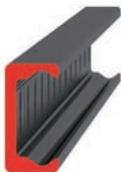
L19xx.CSW - Sliders

Sliders, ranging from light duty to very heavy duty. Replace xx with either 18, 28, 35, 43, 63. Front fixing. No side seal



L19xx.NSWxx - Sliders

Sliders - no side seal, front fixing. Sizes 18-63. Light through to heavy duty. Replace 'xx' with required size



L19xx.TLCxx - T-Rails

T Rail. Counterbored holes. Steel. Light duty size 18 through to heavy duty size 63. 28, 43 & 35 also available. Replace 'xx' with required size



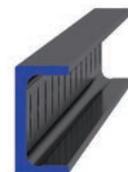
L19xx.TLVxx - T-Rails

T Rail. Countersunk holes. Steel. Light duty size 18 through to heavy duty size 63. 28, 43 & 35 also available. Replace 'xx' with required size



L19xx.ULCxx - U-Rails

U Rail. Counterbore holes. Steel. Light duty size 18 through to heavy duty size 63. 28, 43 & 35 also available. Replace 'xx' with required size



L19xx.ULVxx - V-Rails

V Rail. Countersunk holes. Steel. Light duty size 18 through to heavy duty size 63. 28, 43 & 35 also available. Replace 'xx' with required size



☰ Products



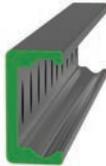
Linear Guideways & Rails >

Compact Rails



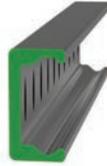
L19xx.CDW - Sliders

Sliders. No side seal. Top fixing. Steel.
Sizes 28 & 43.
Replace 'xx' with required size



L19xx.KLCxx - Heavy Duty K-Rails

Heavy duty K rail. Counterbored holes.
Steel. Sizes 43, heavy duty or 63, very heavy duty.
Replace 'xx' with required size



L19xx.KLVxx - Heavy Duty K-Rails

Heavy duty K rail. Countersunk holes.
Steel. Sizes 43, heavy duty or 63, very heavy duty.
Replace 'xx' with required size



L1972.xx - Easy Slide Rails

Easy slide, high load rail. Sizes 28, 35, 43 & 63. Steel.
Replace 'xx' with required size



Linear Components ▶ Linear Guideways & Rails

X-Rails

X rails are highly cost-effective systems for linear motion and are excellent for applications such as drawers, protective screens, battery casings etc. They come with a rolled-formed steel section, accommodating structural misalignment and providing durability for diverse applications. Available in zinc-plated steel but also available in stainless

steel for added corrosion resistance, suitable for outside and marine environments.



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L1970.T - Steel X Rails - T Rails (Master)

The X rail system is a cold rolled rail system offering an economical solution to simple linear movement applications. Low-profile and very effective

 **Automation**
AN ESSENTRA COMPANY



L1970.U - Steel X Rails - U Rails (Slave)

The X rail system is a cold rolled rail system offering an economical solution to simple linear movement applications. Low-profile and very effective

 **Automation**
AN ESSENTRA COMPANY



L1971.LP - Low Profile Stainless Sliders

For T rail (master). The X rail system is a cold rolled rail system offering an economical solution to simple linear movement applications. Low-profile and very effective

An overview of X Rails

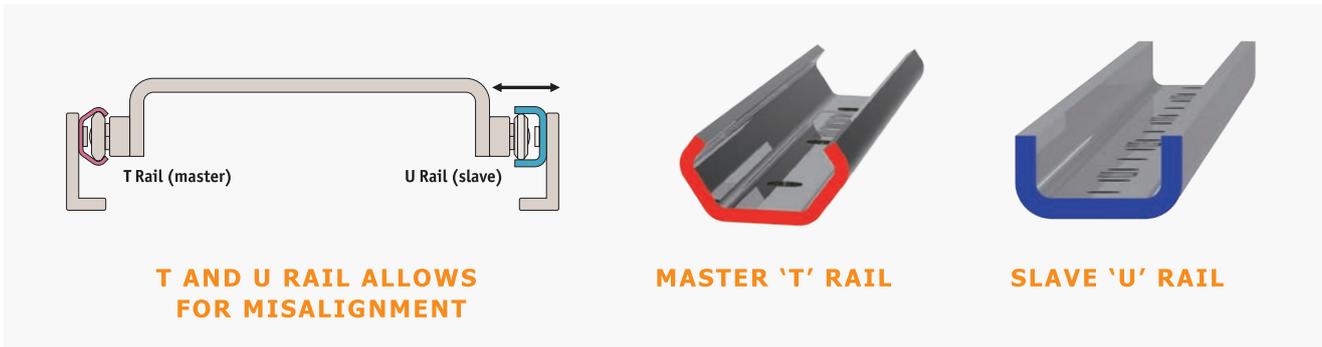


VIEW THE FULL RANGE

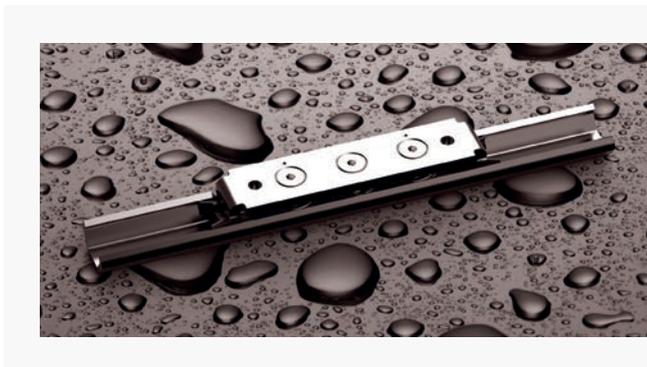
Why use this product?

Cost effective, low precision solution.
Misalignment compensation system.
Manually adjustable pre-load.

Zinc steel or AISI 316 Stainless Steel. Ideal
for marine, food or outside applications.
Same day despatch available.

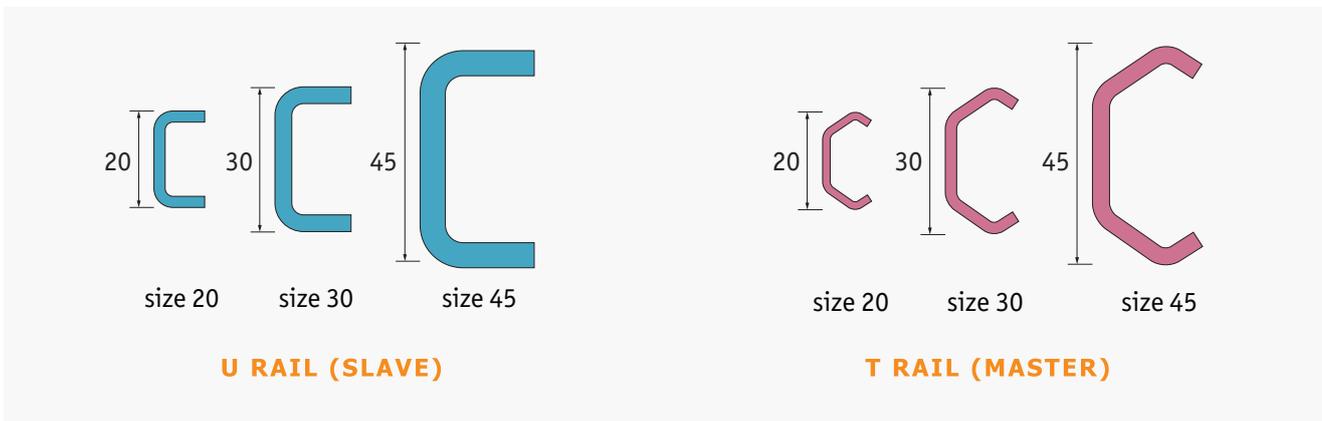


AISI 316 Stainless version



High grade stainless (316L).
For wet applications.
2RS (splash-proof) seals.

Rail sizes





☰ Products



Linear Guideways & Rails >

X Rails



L1970.CRT - Steel Replacement Rollers

For T version steel X rails and U version steel X rails. (L1970.CRU)



L1970.CR2640 - Steel Replacement Rollers

Steel replacement rollers for T version steel x-rails



L1970.LP - Low Profile Steel Sliders

For T rail (master). Rollers with metal seals. The punched dot mark, indicates the orientation for the loading of the fixed rollers



L1970.S - Fixing Screws

For steel X rails. Strength class 10.9. Hex. socket oval head and Torx screws



L1970.SBT - Solid Body Stainless Sliders

For T rails (master) and U rails (slave) (L1970.SBU). The "V" marks on the slider body indicate the orientation for the loading of the fixed rollers



L1971.T - Stainless X-Rails

T rail (master), U rail (slave). X rails for light duty loads. Corrosion resistant



L1971.U - Stainless X Rails

Stainless X Rail, U (slave). Stainless steel



L1971.S - Fixing Screws

For stainless steel X rails



L1971.CR2640 - Stainless Replacement Rollers

Stainless steel replacement rollers for T version stainless x-rails



L1971.CRT - Stainless Replacement Rollers

For T version stainless X rails and U version stainless X rails (L1971.CRU). With water resistant rubber seals



L1971.SBT - Solid Body Steel Sliders

For T rails (master) and U rails (slave) (L1971.SBU). The "V" marks on the slider body indicate the orientation for the loading of the fixed rollers



Manual Positioning Stages

At Automation Components, we offer a comprehensive selection of manual positioning stages, available in X, Y, and Z axis configurations. Our range includes precision-engineered styles such as cross roller, dovetail, and needle roller guides - ideal for applications requiring fine, repeatable adjustments without the need for automation. These stages are

available in various sizes and materials, including lightweight aluminium for weight-sensitive environments and corrosion-resistant stainless steel for more demanding conditions.



L3100 - Positioning Stages - Front Micrometer

Positioning Stages - Front Micrometer, X Stage, main dimensions. Aluminium



L3182 - Manual Lead Screw Stages

Manual Lead Screw Stages, dovetail. Iron



L3141 - Lead Screw Driven Stages

Lead Screw Driven Stages, size 1 light duty, prepared for motor. Aluminium



Products



Linear Tables, Positioning Stages & Crossed Roller Sets



Manual Positioning Stages



L3100.FH - Front Micrometer Stages

Front Micrometer Stages, further fixing holes detail. Aluminium



L3102 - Positioning Stages - Side Micrometer

Positioning Stages - Side Micrometer, X stage, main dimensions. Aluminium



L3102.FH - Side Micrometer Stages

Side Micrometer Stages, further fixing holes detail. Aluminium



L3103 - Positioning Stages - Plain

Positioning Stages - Plain, X Stage, main dimensions. Aluminium



L3120 - Stainless Micrometer X Stages

Stainless Micrometer X Stages, front drive. Stainless steel



L3122 - Stainless Micrometer X Stages

Stainless Micrometer X Stages, side drive. Stainless steel



L3104 - Plain Positioning XY Stages

Plain Positioning XY Stages, XY Stage, main dimensions. Aluminium



L3105 - Micrometer Positioning XY, XYZ Stages

Micrometer Positioning XY, XYZ Stages, front drive, small sizes. Aluminium



L3106 - Micrometer Positioning XY, XYZ Stages

Micrometer Positioning XY, XYZ Stages, front drive, medium sizes. Aluminium



L3107 - Micrometer Positioning XY, XYZ Stages

Micrometer Positioning XY, XYZ Stages, front drive, medium sizes. Aluminium



L3108 - Micrometer Positioning XY, XYZ Stages

Micrometer Positioning XY, XYZ Stages, front drive, large sizes. Aluminium



L3110 - Micrometer Positioning XY, XYZ Stages

Micrometer Positioning XY, XYZ Stages, side drive, small sizes. Aluminium



Products



Linear Tables, Positioning Stages & Crossed Roller Sets



Manual Positioning Stages



L3111 - Micrometer Positioning XY, XYZ Stages

Micrometer Positioning XY, XYZ Stages, side drive, medium sizes. Aluminium



L3112 - Micrometer Positioning XY, XYZ Stages

Micrometer Positioning XY, XYZ Stages, side drive, medium sizes. Aluminium



L3113 - Micrometer Positioning XY, XYZ Stages

Micrometer Positioning XY, XYZ Stages, side drive, large sizes. Aluminium



L3121 - Stainless Micrometer XY Stages

Stainless Micrometer XY Stages, front drive. Stainless steel



L3123 - Stainless Micrometer XY Stages

Stainless Micrometer XY Stages, side drive. Stainless steel



L3141.XY - Lead Screw Driven XY & XYZ Stages

Lead Screw Driven XY & XYZ Stages, size 1 light duty, prepared for motor. Aluminium



L3142 - Lead Screw Driven Stages

Lead Screw Driven Stages, size 2 medium duty, prepared for motor. Aluminium



L3142.XY - Lead Screw Driven XY & XYZ Stages

Lead Screw Driven XY & XYZ Stages, size 2 medium duty, prepared for motor. Aluminium



L3143 - Lead Screw Driven Stages

Lead Screw Driven Stages, size 3 medium duty, prepared for motor. Aluminium



L3143.XY - Lead Screw Driven XY & XYZ Stages

Lead Screw Driven XY & XYZ Stages, size 3 medium duty, prepared for motor. Aluminium



L3170 - Plain Positioning Stages

Plain Positioning Stages, cross roller. Iron



L3171 - Plain Compact Positioning Stages

Plain Compact Positioning Stages, cross roller. Iron



☰ Products



Linear Tables, Positioning Stages & Crossed Roller Sets



Manual Positioning Stages



L3172 - Manual Lead Screw Stages

Manual Lead Screw Stages, cross roller. Iron



L3173 - Manual Lead Screw Stages

Manual Lead Screw Stages, compact, cross roller. Iron



L3174 - Motor Lead Screw X Stages

Motor Lead Screw X Stages, cross roller. Iron



L3175 - Motor Lead Screw XY Stages

Motor Lead Screw XY Stages, cross roller. Iron



L3177 - Miniature XY Stages

Miniature XY stages, cross roller. Iron



L3179 - XY Stages with Through Hole

XY stages with through hole, cross roller. Iron



L3199 - Angle Brackets

Angle Brackets, for linear stages. Iron or aluminium



L3180 - Plain Positioning Stages

Plain Positioning Stages, dovetail. Iron



L3181 - Plain Compact Stages

Plain Compact Stages, dovetail. Iron



L3184 - Motor Lead Screw X Stages

Motor Lead Screw X Stages, dovetail. Iron



L3185 - Motor Lead Screw XY Stages

Motor Lead Screw XY Stages, dovetail. Iron



L3188 - Miniature XY Stages

Miniature XY Stages, dovetail. Iron



☰ Products



Linear Tables, Positioning Stages & Crossed Roller Sets >

Manual Positioning Stages



L3190 - Plain Positioning Stages

Plain Positioning Stages, needle roller. Iron



L3191 - Plain Compact Positioning Stages

Plain Compact Positioning Stages, needle roller. Iron



L3192 - Manual Lead Screw Positioning Stages

Manual Lead Screw Positioning Stages, needle roller. Iron



L3194 - Motor Lead Screw X Stages

Motor Lead Screw X Stages, needle roller. Iron



L3195 - Motor Lead Screw XY Stages

Motor Lead Screw XY Stages, needle roller. Iron



L3300.X - Miniature Dovetail Stages

Miniature Dovetail Stages, X axis. Brass



L3300.XY - Miniature Dovetail Stages

Miniature Dovetail Stages, XY axis. Brass



L3303.X - Dovetail Stages - Rack & Pinion

Dovetail Stages - Rack & Pinion, X axis. Aluminium



L3303.XY - Dovetail Stages - Rack & Pinion

Dovetail Stages - Rack & Pinion, XY axis. Aluminium



L3305 - Dovetail Stages - Rack & Pinion

Dovetail Stages - Rack & Pinion, long stroke, X axis. Aluminium



L3320 - Manual Laboratory Jacks

Manual Laboratory Jacks, Z axis. Aluminium



L3149 - Ball Screw Linear Tables

Ball screw linear tables. Steel. Shafts sizes 12, 20 & 30



☰ Products



Linear Tables, Positioning Stages & Crossed Roller Sets >

Manual Positioning Stages



L3147.S - Lead Screw Linear Stages

Lead Screw Linear Stages, single carriage. Aluminium



L3147.D - Linear Screw Linear Stages

Lead Screw Linear Stages, double carriage. Aluminium



Motorised Linear Stages

Motorised linear translation stages are engineered for high-precision applications across a variety of industries, including research, scientific instrumentation, automation, fibre optics, and semiconductors. Designed for accuracy and reliability, each stage is driven by Acme lead screws, offering repeatability in the micron range. Our motion controllers are

supplied with dedicated control software and are also broadly compatible with popular platforms such as LabVIEW, allowing seamless integration into existing systems.



L3500 - Medium-Duty Motorised Stages

Medium-Duty Motorised Stages, high precision. Aluminium



L3521 - Single Axis Stepper Controllers

Single Axis Stepper Controllers



L3510 - Motorised Linear Stages

Motorised Linear Stages, economy. Aluminium



☰ Products



Linear Tables, Positioning Stages & Crossed Roller Sets >

Motorised Linear Stages



L3506 - Miniature Motorised Stages

Miniature Motorised Stages, high precision. Aluminium



L3508 - Motorised Linear Stages

Motorised Linear Stages, high precision. Aluminium



L3502 - Vacuum Compatible Motorised Stages

Vacuum Compatible Motorised Stages, high precision. Aluminium



L3504 - Heavy Duty Motorised Stages

Heavy-Duty Motorised Stages, high precision. Aluminium



L3505 - Motorised Linear Stages

Motorised Linear Stages, high precision. Aluminium



L3522 - Two Axis Stepper Controllers

Two Axis Stepper Controllers. Steel



L3524 - Multi-Axis Stepper Controllers

Multi-Axis Stepper Controllers. Aluminium



L3525 - Single Axis Servo Controllers

Single Axis Servo Controllers. Steel



VIEW THE FULL RANGE

Rotary Stages

A range of manual and motorised rotary positioning stages offer precise angular adjustment. Our motorised stages are compatible with stepper and servo motors, providing smooth, fully controllable rotation for automation, optics, and metrology applications.

Manual versions offer stable, backlash-minimised positioning—ideal for lab setups or low-power environments.

- High-precision control
- Motor compatibility (stepper & servo)
- Compact & durable design



L3550 - Motorised Rotary Stages Ø50

Motorised Rotary Stages Ø50, high precision, medium duty. Aluminium



L3558 - Motorised Rotary Stages Ø125

Motorised Rotary Stage Ø125, high precision, heavy duty. Aluminium



L3560 - Motorised Rotary Stages Ø125

Motorised Rotary Stage Ø125, high precision, submersible. Aluminium



☰ Products



Linear Tables, Positioning Stages & Crossed Roller Sets >

Rotary Stages



L3552 - Motorised Rotary Stages Ø75

Motorised Rotary Stages Ø75, high precision, medium duty. Aluminium



L3554 - Motorised Rotary Stages Ø75

Motorised Rotary Stages Ø75, high precision, heavy duty. Aluminium



L3556 - Motorised Rotary Stages Ø125

Motorised Rotary Stage Ø125, high precision, medium duty. Aluminium



L3559 - Manual Rotary Stages Ø125

Manual Rotary Stage Ø125, with digital read out. Aluminium



L3562 - Motorised Rotary Stages Ø200

Motorised Rotary Stage Ø200, high precision, heavy duty. Aluminium



L3569 - High Speed Rotary Tables

High Speed Rotary Tables. Aluminium



VIEW THE FULL RANGE

Linear Components ▶ Telescopic Slides

Telescopic Slides

Telescopic slides, also known as telescopic rails or drawer runners, are most commonly used in pairs. Primarily designed for sliding drawers, doors, and platforms, they find application in scenarios where linear movement is necessary, but standard linear guides are impractical due to length constraints. Whether facilitating horizontal or vertical linear

travel, these telescopic slides offer a practical alternative, allowing for smooth and controlled motion without the need for extended guides spanning the entire travel length.



L1986 - Fully Telescopic Slides

Strong and rigid with high load capacities. Only to be used for horizontal movements. Sizes 22-63



L1994 - Partially Telescopic Slides

Semi-telescopic rails with high load capacities. Size 22-63. Steel



L1984 - Fully Telescopic Slides - Size 28

Extremely strong and rigid slides with high load capacities. Single or double direction stroke. Steel

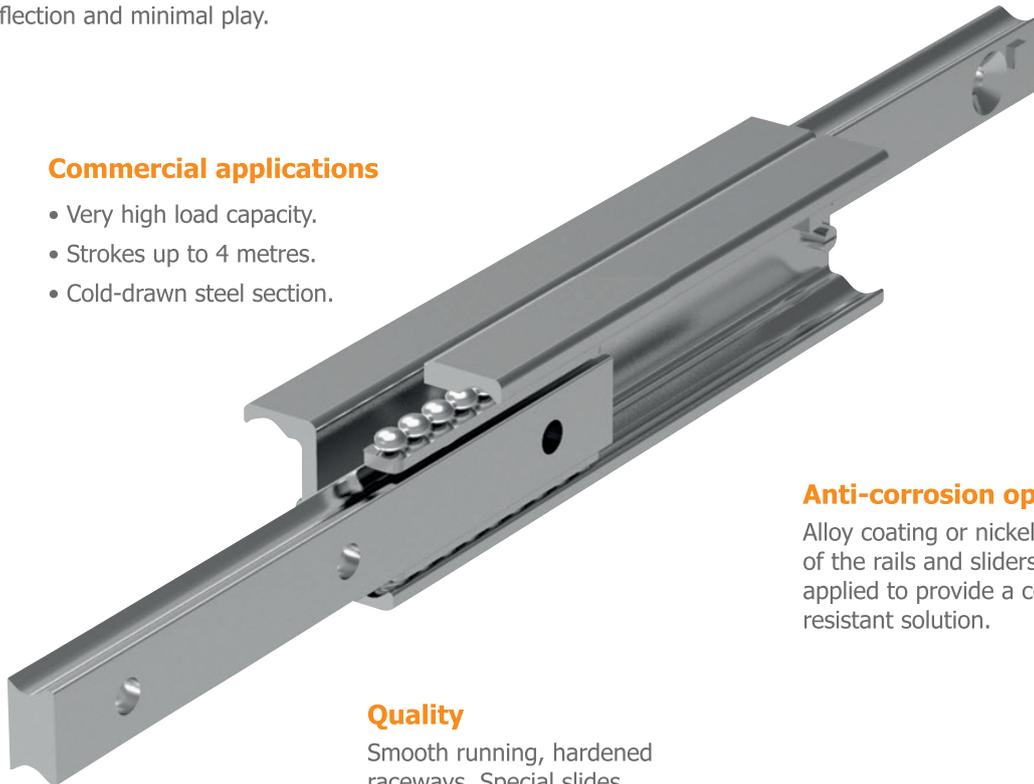
An overview of Telescopic Slides



If you are looking for heavy duty, quality telescopic slides for industrial or commercial applications then these are the slides for you!

The best heavy duty telescopic slides on the market

These are unique slides that are not made from pressed steel but from cold-drawn steel section. The slides can take high loads, with very long strokes, with repeated use, low deflection and minimal play.



Commercial applications

- Very high load capacity.
- Strokes up to 4 metres.
- Cold-drawn steel section.

Anti-corrosion option

Alloy coating or nickel plating of the rails and sliders can be applied to provide a corrosion resistant solution.

Quality

Smooth running, hardened raceways. Special slides available.

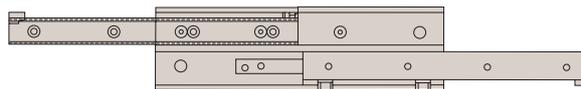
Rail types

Our range of telescopic rails covers partial, full stroke and over-extension.

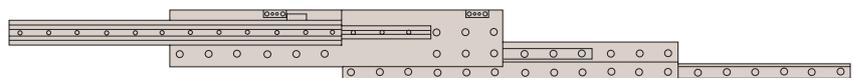
For more information refer to our product specifications pages or call our technical department.



Partial Stroke (~60%)



Full Stroke (~100%)



Over-extension (150%)



Products



Telescopic Slides



Telescopic Slides



L1988 - Fully Telescopic Slides

This slide is compact, low profile and square shaped



L1992 - Fully Telescopic Slides LTF

Our lightest duty telescopic slides. Still from cold-drawn steel, both with unhardened raceways



L2041 - Aluminium Telescopic Slides

High quality grade aluminium with steel ball bearings and cage. Full Extension



L2042 - Aluminium Telescopic Slides

Aluminium Telescopic Slides, fully telescopic, size 50. Aluminium



L2044 - Aluminium Telescopic Slides

Aluminium Telescopic Slides, fully telescopic, size 70. Aluminium



L2051 - Stainless AISI 316 Slides

Ideal for applications requiring a high degree of corrosion resistance



L2052 - Stainless AISI 316 Slides

Stainless AISI 316 Slides. Fully telescopic, size 50. Stainless steel



L2054 - Stainless AISI 316 Slides

Stainless AISI 316 Slides. Fully telescopic, size 70. Stainless steel



L2000 - Semi-Telescopic Drawer Slides

Semi-Telescopic Drawer Slides. Steel



L2010 - Fully Telescopic Drawer Slides

Fully Telescopic Drawer Slides. Steel



L2011 - Soft Close Drawer Slides

Soft-Close Drawer Slide. Steel



L2012 - Fully Telescopic Drawer Slides

Fully Telescopic Drawer Slide. Steel



Products



Telescopic Slides



Telescopic Slides



L2013 - Fully Telescopic Drawer Slides

Fully Telescopic Drawer Slide. Steel



L2060 - Drawer Slides - Full Extension

Drawer Slide - Full Extension, 200 Kg load per pair. Steel



L2062 - Drawer Slides - Full Extension

Drawer Slide - Full Extension, 80 Kg load per pair. Steel



L2064 - Drawer Slides - Full Extension

Drawer Slide - Full Extension, 60 Kg load per pair. Steel



L2066 - Drawer Slides - Full Extension

Drawer Slide - Full Extension, 45 Kg load per pair. Steel



L2068 - Drawer Slides - Full Extension

Drawer Slide - Full Extension, 30 Kg load per pair. Steel



L2070 - Drawer Slides - Full Extension

Drawer Slide - Full Extension, 60 Kg load per pair. Steel



L2072 - Drawer Slides - Full Extension

Drawer Slide - Full Extension, lever disconnect - 20 Kg load per pair. Steel



L2080 - Drawer Slides - Full Extension

Drawer Slide - Full Extension, 30 Kg load per pair. Stainless steel



L2082 - Drawer Slides - Full Extension

Drawer Slide - Full Extension, lever disconnect - 45 Kg load per pair. Stainless steel



L1995 - Fully Telescopic Slides

Fully Telescopic Slides, ultra heavy-duty. Steel



L1996 - Fully Telescopic Slides

Able to support heavy loads up to nearly 2000kg



☰ Products



Telescopic Slides



Telescopic Slides



**L1997 - Extended Stroke
Telescopic Slides**

These are extended stroke (150%), heavy duty telescopic rails, with high load capacity and stiffness



**L1998 - Extended Stroke
Telescopic Slides**

These are extended stroke (150%), heavy duty telescopic rails



Linear Components ▶ Linear Guideways & Rails

Curved Rails

Curved rails are unique linear guides that offer a solution for applications where the equipment requires movement along curves, corners, or circular paths.

With a minimum radius of 120mm, these rails can be precisely machined into full circles, fractional

arcs, straight sections with bends in, or customised shapes according to specific requirements.



 **Automation**
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L1978.CR - Curviline Sliders

Where moment loads are present, use two or more sliders. With lubricated for life roller pins. Stainless steel available. Steel sizes 16+23

 **Automation**
AN ESSENTRA COMPANY



L1978.CRX - Constant Radius Rails

Not to be used in high-cycle applications. Advise angle required and fixing option type. Steel sizes 16+23. Also available in stainless steel

 **Automation**
AN ESSENTRA COMPANY



L1978.VRX - Variable Radius Rails

Not to be used in high-cycle applications. Advise angle required and fixing option type. All stainless steel on request. Steel sizes 16+23

An overview of Curved Rails



VIEW THE FULL RANGE

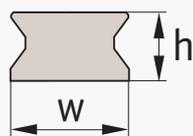
Why use this product?

In any application where a bend or curve is required in the linear guide such as a door, sliding table or oval track.

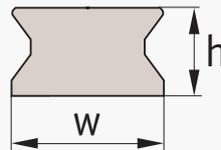
Manufactured to your specifications.
Can also be manufactured in aluminium and stainless steel.



Rail sizes



16mm



23mm

An introduction to Curviline Rails

The Curviline rail system offers a cost-effective solution to curvilinear applications.



VIEW THE FULL RANGE

Flexibility when you need it

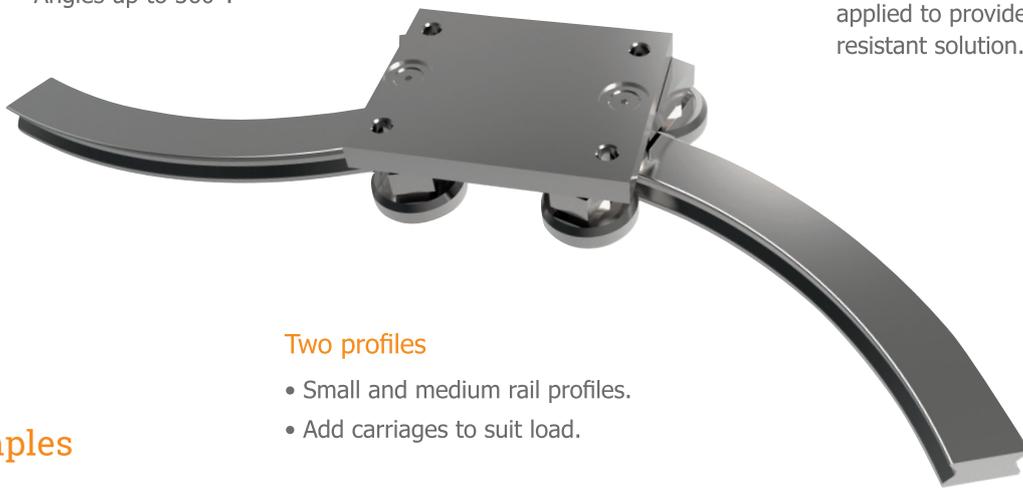
Constant radius, variable radius are available in standard radii, non-standard radii to your drawings are also possible. Straight and curved sections in a single length can be supplied.

Any radius

- From 120mm radius upwards.
- Standard and special radii.
- Angles up to 360°.

Anti-corrosion

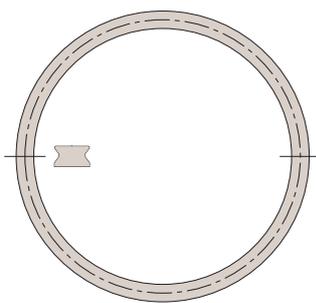
Alloy coating or nickel plating of the rails and sliders can be applied to provide a corrosion resistant solution.



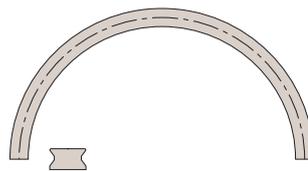
Two profiles

- Small and medium rail profiles.
- Add carriages to suit load.

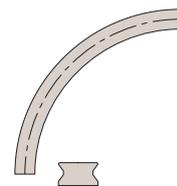
Examples



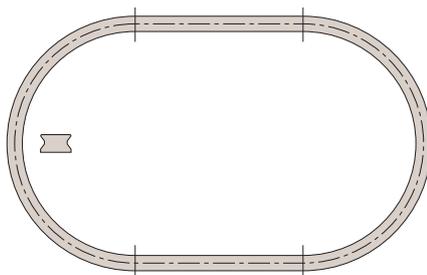
Circle



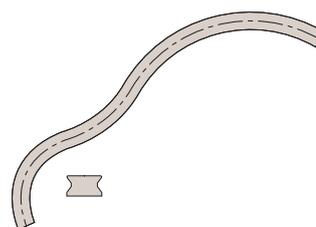
Semi-circle



Arcs



Ovals



Complex rails with varied radii and angles



VIEW THE FULL RANGE

Linear Components ▶ Lead Screws & Ball Screws

Lead Screws

Lead screws are fundamental in translating rotary motion to linear movement and are commonly used in conjunction with parallel linear guides. Lead screws are typically used in applications where movements required are at low speed or with low accuracy and they can be quieter and better in vertical running applications compared

with ball screws. They also perform at their best in corrosive or dirty environments.



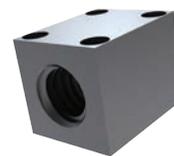
L1320 - Steel Lead Screws

Rolled trapezoidal C45 steel lead screws, right hand thread. Lengths of up to 6 metres can be provided. Tr 10 to Tr 120



L1331 - Flanged Bronze Nuts

Flanged bronze lead screw nuts - for trapezoidal threads. For manual or powered applications at medium/low rotation speeds under load



L1337 - Square Steel Nut with Holes

Square steel nut with holes for right handed thread screws. Useful for fixing additional elements onto the lead screw carriage

An overview of Lead Screws

Automation Components offers a large range of trapezoidal lead screws, typically held in stock in large volumes. Machining or custom lead screws regularly manufactured to customer drawing.



L1320

Steel lead screws - right hand thread



Steel C45 Trapezoidal lead screws from Tr10x2 up to Tr120x16. Standard lengths up to 3 metres with specials available up to 6 metres.

L1322

Stainless lead screws - right hand thread



AISI 316 stainless steel Trapezoidal lead screws from Tr10x2 up to Tr70x10. Standard lengths up to 3 metres with specials available up to 6 metres.

MACHINED LEAD SCREW



We can machine the ends of lead screws to customer drawings on request. We also manufacture special lead screws to drawing.

L1321

Steel lead screws - left hand thread



Left Hand thread steel C45 trapezoidal lead screws from Tr10x2 up to Tr120x16. Standard lengths up to 3 metres. Also available in AISI 316 stainless, part number L1323.

L1350

Flanged high helix lead screw nuts



Precision high helix lead screws available in diameters from 4x1 up to 20x10. The ideal product when more accuracy is required that trapezoidal lead screws cannot offer, but the application doesn't warrant the cost of a ball screw.



Products



Lead Screws & Ball Screws



Lead Screws



L1321 - Steel Lead Screws

Rolled trapezoidal C45 steel lead screws, left hand thread. Lengths of up to 6 metres can be provided. Tr10 to Tr 120



L1322 - Stainless Lead Screws

Rolled trapezoidal AISI 316 grade (A4) stainless lead screws, right hand thread. Surface hardness 280HB. Lengths of up to 6 metres. Tr 10 to Tr 120



L1323 - Stainless Lead Screws

Rolled trapezoidal AISI 316 grade (A4) stainless steel lead screws, left hand thread. Lengths of up to 6 metres can be provided



L1325 - Stainless 304 Lead Screws

Stainless 304 Lead screws. Right hand thread. Manufactured to ISO 2901/2093, DIN103



L1326 - Stainless 304 Lead Screws

Stainless 304 Lead screws. Left hand thread. Manufactured to ISO 2901/2093, DIN103



L1330 - Cylindrical Bronze Nuts

Cylindrical bronze lead screw nuts - for trapezoidal threads. For manual or powered applications at low and medium rotation and under loads



L1332 - Plain Flanged Bronze Nuts

Plain flanged bronze nuts for lead screws



L1334 - Square Bronze Nut with Through Holes

Square bronze lead screws nuts - for trapezoidal threads. Suitable for movements with medium duty loads



L1335 - Square Brass Nuts

Square brass nuts for lead screws



L1336 - Square Steel Nuts

Steel square nuts for lead screws. Standard nuts are right hand thread, single starts



L1338 - Hexagon Steel Nuts

Steel hexagonal lead screw nuts - for trapezoidal threads. For low rotation speeds, manual control, locking functions or receiving dead weights



L1339 - Cylindrical Steel Nuts

Steel cylindrical lead screw nuts - for trapezoidal threads. For low rotation speeds, manual control, locking functions or receiving dead weights



☰ Products



Lead Screws & Ball Screws >

Lead Screws



L1340 - Long Cylindrical Steel Nuts

To ISO 2901/2903 (DIN 103). Used for clamping and locking applications, and for slow rotational speeds with manual control



L1341 - Cylindrical Stainless Steel Nuts

Stainless steel lead screw nuts for trapezoidal thread. Stainless steel offers excellent corrosion resistance



L1342 - Flanged Self-Lubricating Plastic Nut

Plastic, flanged lead screw nuts with long thread to reduce wear and enhance service lifetime



L1343 - Cylindrical Nylon Nuts

Can be used without lubrication for manual or powered control and medium/high speeds under moderate loads. Low noise



L1458 - Disk Type Handwheels

Aluminium disc handwheels with duroplast handles. Rim turned and polished. Ideal for use with our lead screws



L1459 - Three Spoked Handwheels

Three Spoked Handwheels. Duroplast



L1470 - Position Counter

Four digit read out position counter, with red indicator for decimals. Clockwise (-C) and anti-clockwise (-A) versions available



L1472 - Position Counter

Position counters, 5 digit display. Thermoplastic. Max temperature +70°C



L1480 - Sliding Clamps - for Solid Round Bar

Sliding clamps for solid round bar, quarter turn lock, I-handle grip. Polyamide



L1349 - High Helix Lead Screws - Stainless

Stainless SUS 304, high helix lead screw. High precision. See L1350 for corresponding nut



L1350 - Flanged High Helix Lead Screw Nuts

Resin nut (PPS), to suit lead screw L1349. High precision. Tight axial clearance



L1351 - Anti-Backlash High Helix Lead Screws

Anodized aluminium or 416 stainless steel screw with round acetal resin nut. High precision. Nut fitted to screw to ensure anti-backlash



☰ Products



Lead Screws & Ball Screws >

Lead Screws



L1353 - Miniature Fixed Support Units

Miniature fixed support unit for miniature lead screws. Steel. End machining of lead screws on request



L1354 - Mixed Flanged Fixed Support Units

Miniature flanged fixed support unit for miniature lead screws. Steel. End machining of lead screws on request



L1355 - Miniature Floating Support Units

Miniature floating support unit for miniature lead screws. Steel. End machining of lead screws on request



L1356 - Miniature Flanged Floating Support Units

Miniature flanged floating support unit for miniature lead screws. Steel. End machining of lead screws on request

An introduction to Lead and Ball Screws



VIEW THE FULL RANGE

At **Automotion Components**, we are very proud of the vast range of products we are able to offer, which includes our range of **Lead & Ball Screws**.



Lead Screws & Precision Screws

Our commercial and precision are available in steel and 316L stainless. The commercial range has trapezoidal threads in single and twin start. The precision range provides a more accurate fit and higher "leads" - is distance travelled per revolution, offering good solutions to your application needs. The lead screw nuts are provided in brass, steel, plastic resin and stainless steel.

Thread sizes are from Ø8 with a 1mm lead up to Ø120 with a 18mm lead.

Thread types - right hand is of course standard but we offer left hand as well as "combi" lead screws (right hand thread one end and left hand on the other).

Precision lead Screws

Available in smaller diameters (down to 4mm) and up to 20mm with 40mm lead.

We also provide a range of nuts and bearing supports to complement all sizes of lead and ball screws.



End Machining

We can also machine the ends of our lead screws to your requirements or particularly to suit our range of fixed and floating lead screw support units.



Ball Screws

We offer highly accurate and reliable ball screws with left and right hand threads. Miniature ball screws from 6 to Ø14mm with cylindrical or flanged nuts. Standard ball screws from 12 to Ø80mm along with a range of anti-corrosion ball screws.



Accessories

All of the above are supported by a range of accessories including ball screw support units, motor brackets, spindle locks, position counters and handwheels.



VIEW THE FULL RANGE

Linear Components ▶ Lead Screws & Ball Screws

Ball Screws

A ball screw is a screw which translates rotary motion into linear motion. Normally used as the driving mechanism in horizontal or vertically driven applications aided by linear guides for supports. They are described by diameter and pitch or lead. The pitch or lead is the amount of travel you get, or distance the nuts travel along the screw for every

complete revolution. They can be operated manually or motorised. They differ from lead screws in that they offer greater precision, speeds, efficiency and accuracy. They are a precision screw which cost considerably more than a lead screw of comparable size so it is important to determine if your application really requires a ball screw.



 **Automation**
AN ESSENTRA COMPANY



L1375 - Ball Screws

Highly efficient due to the recirculating ball mechanism which helps the ball nuts minimise friction against the ball screw. From 16 to 80mm diameter, a range of leads - stocked lengths up to 3 metres

 **Automation**
AN ESSENTRA COMPANY



L1370 - Flanged Ball Nuts

To DIN 69051 form B.
To compliment our rolled ball screw range.
With lubrication and fixing holes

 **Automation**
AN ESSENTRA COMPANY



L1377 - Flanged Ball Nuts - Anti-Corrosion

DIN 69051 form B. Anti corrosion finish consists of a thin layer of black chrome and produces good resistance to wear, and a protective effect against corrosion. Layer thickness 2-10µm



Products



Lead Screws & Ball Screws



Ball Screws



L1379 - Miniature Rolled Ball Screws

Miniature rolled ball screws and nuts come in 6-14 mm diameter sizes and with lengths up to 1 metre



L1371 - Flanged Double Ball Nuts

Can be used with ball screw nut brackets to make mounting carriages etc easier. With lubrication and fixing holes



L1372 - Centre Flanged Ball Nuts

Produced to DIN 69051 form B. With lubrication and fixing holes. Can be used with ball screw nut brackets to make mounting carriages etc easier



L1373 - Cylindrical Ball Nuts

Compatible with our wide range of ball screws with diametres 16-40 mm. With lubrication and fixing holes



L1374 - Cylindrical Ball Nuts

With thread. Compatible with our wide range of ball screws with diametres 16-40 mm. With lubrication and fixing holes



L1377 - Anti-Corrosion Ball Screws

Ball Screws- Anti Corrosion. Rolled. Steel. Sizes 16-40



L1379.C - Miniature Cylindrical Ball Nuts

Miniature cylindrical ball nut. Steel



L1379.F - Miniature Flanged Ball Nuts

For use with miniature ball screws. Fit the ball nut screw with the sleeve provided



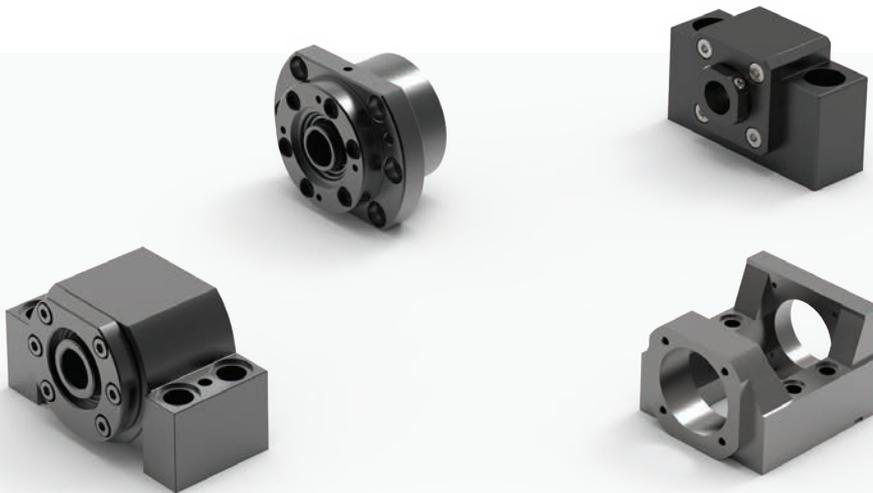
VIEW THE FULL RANGE

Linear Components ▶ Lead Screws & Ball Screws

Bearing Supports

Our fixed and floating bearing support units are designed for use with lead and ball screws, accommodating screw diameters ranging from 4mm to 80mm. For custom applications, we also offer machining services to fit your specific ball or lead screw requirements.

Additionally, we provide a variety of bearing mounts in cast iron, stainless steel, and thermoplastic materials, ideal for lead screws and ball screws.



L1388 - Fixed Rectangular Support Units (AK)

Fixed rectangular support unit (AK) for ball & lead screws. Steel



L1390 - Fixed Round Support Units

Fixed round support unit (FK) for ball & lead screws. Steel



L1395 - Floating Rectangular Support Units (EF)

Floating rectangular support unit (EF) for ball & lead screws. Steel



Products



Lead Screws & Ball Screws



Bearing Supports



L1389 - Floating Rectangular Support Units (AF)

Floating rectangular support unit (AF) for ball & lead screws. Steel



L1391 - Floating Round Support Units

Floating round support unit (FF) for ball & lead screws. Steel



L1392 - Fixed Rectangular Support Units (BK)

Fixed rectangular support unit (BK) for ball & lead screws. Steel



L1393 - Floating Rectangular Support Units (BF)

Floating rectangular support unit (BF) for ball & lead screws. Steel



L1394 - Fixed Rectangular Support Units (EK)

Fixed rectangular support unit (EK) for ball & lead screws. Steel



L1400 - Fixed Round Support Units (FKA)

Fixed round support unit (FKA) for ball & lead screws. Steel



L1402 - Fixed Rectangular Support Units (LK)

Fixed rectangular support unit (LK) for ball & lead screws. Steel



L1403 - Floating Low Profile Support Units (LF)

Floating low profile support unit (LF) for ball & lead screws. Steel



L1405 - Heavy Load Support Units (WBK)

Heavy load support units (WBK), for ball & lead screws. Steel



L1406 - Heavy Load Support Units (SBK)

Heavy load supports units (SBK), for ball & lead screws. Steel



L1408 - Motor Bracket (MBA)

Motor bracket (MBA), for ball & lead screws. Steel



Shafts

A linear shaft is a straight, precision machined bar on which linear bearings run to create a linear guide system to support or guide the movement of equipment in a linear fashion. Available in hardened steel, hardened stainless, 303 and 316 stainless, and aluminium. We can also manufacture on short lead times linear shafts to your drawing with custom

machining, keyways, circlips grooves, drilled and tapped holes and more.



L1772 - Hardened Stainless Shafts

From the hardest type of stainless steel (AISI 440C) with a ground and polished surface. Ideal for use in applications in which there may be some corrosive materials demand high wear resistance



L1780 - Shaft Support Rails

Hardened steel shafting or corrosion resistant linear shaft rods mounted on aluminium alloy support rails, for use with open flanged or unflanged carriages. Length up to 6 metres



L1770 - Hardened Steel Shafts

Hardened steel linear shafting generally for use with linear bearings. The load capacity of each shaft rod depends on the length of the shaft and how it is supported

An overview of Linear Shafts

Our large range of linear shafting includes hardened steel shaft bars, corrosion resistant shaft bars and hollow shaft bars. We can also modify these standard shafts (drilling, tapping etc) to your requirements.



L1771
Hardened carbon steel
hollow shaft

Used in applications where weight reduction is important. Available diametres of between 12Ø to 50Ø h6 tolerance. Use with our linear bearings.



L1772
Corrosion resistant
440C shaft

This hardened shaft is the one to use if you require corrosion resistance but also need to use linear bearings. Available diametres 06Ø to 60Ø. Use with our stainless steel linear bearings.



**L1770 : HARDENED CARBON
STEEL LINEAR SHAFT**

L1770

Our most popular shaft! Available in diametres of between 05Ø to 60Ø with a surface hardness of 60-66 HRC. Use with our linear bearings. All our linear shafts are made to a standard h6 tolerance. Special tolerances available upon request.

We can offer a wide range of modifications and special product requests, across our complete range of linear shaft bars, including through holes and end machining. Our linear shafts can be cut down to any length required.



L1773 / L1774
303/316 Stainless
steel shaft

Superior corrosion resistance compared to 440C shafts. These offer ultimate protection when looking for corrosion resistance. Available diametres 06Ø to 60Ø.



L1778
Aluminium shaft

Hard anodized to 450-550 HV where weight saving is a priority. This is also non-magnetic with a surface hardness of >80 HRC. Designed to be used with self-lubricating ceramic bearings (L1764 to L1769).



Products



Linear Bearings & Shafts



Linear Shaft Bars



L1771 - Hardened Hollow Shafts

Used in linear bearing and guideway systems where weight reduction is important. Hollowed for lighter weight. Ø12 to Ø50.



L1773 - Stainless AISI 303 Shafts

To be used with ceramic or other bearings not containing hardened ball bearings. Soft stainless. High anti-corrosion. Ø6 to Ø60.



L1774 - Stainless AISI 316 Shafts

Marine grade. Soft stainless, very high anti-corrosion. Not for ball bushing linear bearings, but with sleeve type linear bearings & ceramic bearings. Ø6 to Ø60.



L1778 - Aluminium Shafts

Lightweight aluminium linear shafts, coated with hard aluminium oxide, to increase durability. Non-magnetic. Used with self-lubricating ceramic linear bushes. Ø8 to Ø50.



L1779.AL - Shaft End Supports

Shaft end supports. Aluminium. For mounting of standard shaft diameters



L1779.A4 - Shaft End Supports

Shaft end supports. 316 stainless steel. For mounting of standard shaft diameters. Tolerance h6



L1781 - Shaft Support Rails

Complete shaft and rail. For open linear bushings. Ensures a very rigid and stiff system. The shaft is pre-mounted to the shaft support rail.



L1783 - Shaft Support Rail

Shaft support rail. Aluminium. For open linear bushings



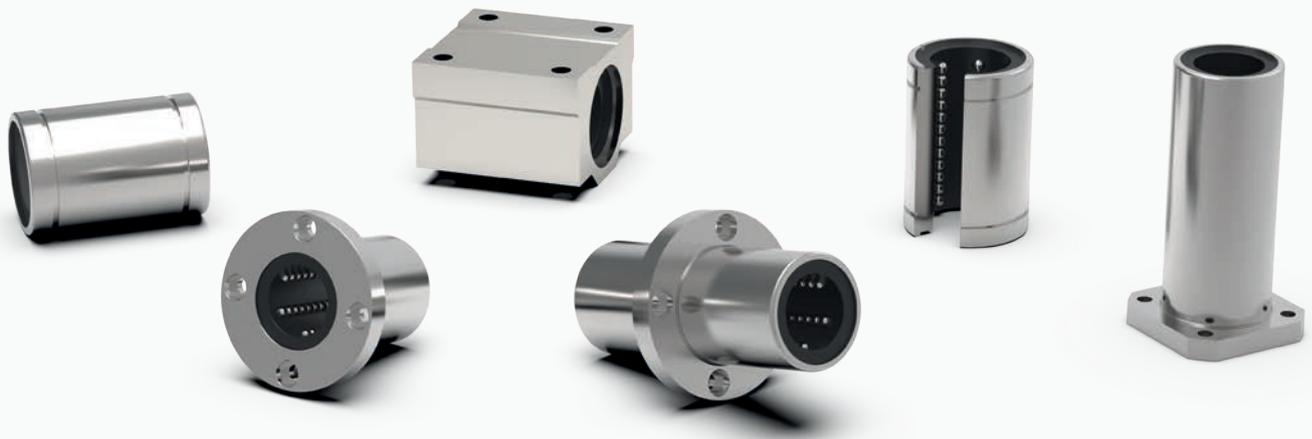
VIEW THE FULL RANGE

Linear Components ▶ Linear Bearings & Shafts

Bearings

A Linear Bearing, also known as a linear ball bush or bushing, is a bearing that runs on a hardened linear shaft to help guide or support the movement of a component in a linear fashion. A cost effective method of achieving linear motion where the loads are light enough to not need conventional linear

guides or where the guide can only be supported at the ends and not over the entire length.



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L1706 - Closed Linear Ball Bushings

Closed linear ball bearings - 5mm to 60mm. For use with hardened shafts only

Automation
AN ESSENTRA COMPANY



L1750 - Linear Carriages

Aluminium body, with linear bearing. For use with hardened shafts only

Automation
AN ESSENTRA COMPANY



L1718 - Flanged Linear Ball Bushings

Circular ball bushing for shafts from 6mm to 60mm diameter. Used with hardened shafts only

An overview of Support Rails & Bearings

Automation Components offer a range of support rails and bearings to suit.



VIEW THE FULL RANGE



L1781

Stainless steel shaft

Hardened and ground stainless steel shaft (440C), pre-mounted aluminium alloy support rail. Surface hardness of shaft 60-65 HRC. For open linear bushings.

L1707 : OPEN LINEAR BALL BEARINGS



L1707

A hardened ground and steel open linear bearing is a bearing typically used with shaft support rails. For use in applications with downward acting loads. Not suitable for use with loads hanging from it as load would be pulling an open slot.

TIP – The L1707 range can only be used with the hardened shafts (L1770 – L1772).



L1784

Manual shaft clamp

Aluminium body, with hardened steel contact faces. Activating the clamping lever presses the contact faces into contact with the shaft bar to clamp it in place. Can be used for clamping from above and below. Pneumatic shaft clamps are also available on request.



L1752

Open linear ball bearing carriages

Unflanged open linear bearing carriages. An aluminium body with a steel linear bearing, used with the L1780 support rail.

TIP – Effective for high loads in combination with the hardened shafts.

An overview of Standard Linear Bearings

Standard closed, open and adjustable linear bearings.
For shafts from 5mm to 60mm.



L1706 & L1712

Closed linear bearings



These closed linear bearings are manufactured in hardened steel. Used with hardened shafts (L1770-L1772). L1712 is the longer version of the standard L1706 linear bearing.

L1718 & L1719

Flanged linear ball bearings



Hardened and ground body from bearing steel. Available with either circular flange (L1718) or square flange (L1719). Single body resin retainer (POM). Supplied with nitrile rubber (NBR) end-seals - UU as standard.

L1740 & L1742 : SUPERBALL LINEAR BALL BEARINGS



L1740 & L1742

Hardened and ground steel ball plate from bearing steel. The floating plate feature offers a self-alignment and clearance adjustment. The Superball series has three times the load rating and twenty-seven times the travel life of conventional linear bearings. Available closed (L1740) and open (L1742).

L1730 & L1731

Linear ball bearings



Extended / double complement bearings, with a central flange, to deal with higher load applications. Available in circular flanged (L1730) or square flanged (L1731). Use with hardened shafts only (L1770-L1772).

L1750 & L1750-L

Linear carriages



Aluminium body with linear bearing L1706 installed. Bearing has a resin retainer (POM). Supplied with nitrile rubber (NBR) end seals - UU as standard. Also available in longer lengths (L1750-L).

An overview of Stainless Steel Linear Bearings



VIEW THE FULL RANGE

Stainless steel linear bearings - standard, flanged and pre-mounted aluminium carriages. Stainless linear bearings have either resin ball retainers or stainless steel ball retainers.

L1709 & L1713

Closed ball bearings



Manufactured with a stainless steel body (440C) and either resin or stainless steel (316) retainer. L1713 is the longer version of the standard L1709 bearing. Use with corrosion resistant hardened shafts (L1772).

L1720 & L1721

Ball bearings



Stainless steel body (440C) with either a resin (POM) or stainless steel (316) retainer. Available with either circular flange (L1720) or square flange (L1721).

L1732 & L1733 : STAINLESS BALL BEARINGS



L1732 & L1733

Extended / double compliment bearings, with a central flange, to deal with higher load applications. Stainless steel body (440C) with either a resin (POM) or stainless steel (316) retainer. Available in circular flanged (L1732) or square flanged (L1733). For use with corrosion resistant hardened shafts (L1772).

L1724 & L1725

Flanged ball bearings



Extended / double compliment bearings, with a central flange, to deal with higher load applications. Available in circular flanged (L1730) or square flanged (L1731). Use with hardened shafts only (L1770-L1772).

L1751 & L1756

Linear carriages



Aluminium carriage housing with stainless steel (440C) linear bearing installed. Available closed (L1751) or open (L1756), longer lengths are also available.

An overview of Ceramic Linear Bearings

Ceramic bearings are designed to run in "dirty" environments. They can also run on soft shafting (reduces cost) and also allows them to run on 303 and 316 stainless shafting. Many of our bearings are self-aligning. We also offer self-lubricating options.



VIEW THE FULL RANGE

L1764

Ceramic closed linear bearing



Aluminium with aluminium-oxide ceramic coating (4-7 μ). Hardness >80 HRC. Can be run on hardened or soft steel shafts. Tolerance h6, all part no. L1770-L1778. These bearings have a self-aligning feature.

L1765

Self-lubricating ceramic closed linear bearing



Aluminium with aluminium-oxide ceramic coating (4-7 μ). Hardness >80 HRC. PTFE insert. Can be run on hardened or soft steel shafts. Tolerance h6, all part no. L1770-L1778.

L1767 : CERAMIC OPEN LINEAR BEARINGS



L1767

Aluminium with aluminium-oxide ceramic coating (4-7 μ). Hardness >80 HRC. PTFE insert. Can be run on hardened or soft steel shafts, tolerance h6, all part no. L1770-L1778. Self-lubricating versions can also be run on ceramic coated aluminium shafts (L1778). These bearings have a self-aligning feature available.

L1766

Ceramic open linear bearing



Aluminium with aluminium-oxide ceramic coating (4-7 μ). Hardness >80 HRC. Can be run on hardened or soft steel shafts. Tolerance h6, all part no. L1770-L1778. These bearings have a self-aligning feature available.

L1769

Thin wall self-lubricating ceramic linear bearing



Aluminium with aluminium-oxide ceramic coating (4-7 μ). Hardness >80 HRC. PTFE insert. Can be run on hardened or soft steel shafts. Tolerance h6, all part no. L1770-L1778. Self-lubricating versions can also be run on ceramic coated aluminium shafts (L1788.)



Products



Linear Bearings & Shafts



Linear Bearings



L1707 - Open Linear Ball Bushings

Linear ball bushings for use on hardened shafts.



L1708 - Adjustable Linear Ball Bushings

Adjustable Linear Ball Bushings. Steel shafts.



L1709 - Ball Bushings

Stainless steel closed ball bushings. For use with corrosion resistant hardened shafts.



L1710 - Stainless Ball Bushings

Stainless Ball Bushings, open. Stainless steel



L1711 - Stainless Ball Bushings

Stainless Ball Bushings, adjustable. Stainless steel



L1712 - Long Linear Ball Bushings

For use with hardened shafts only, steel ball retainers can be supplied for higher temperature applications up to 120 °C



L1713 - Stainless Ball Bushings

Stainless Ball Bushings, long version. Stainless steel



L1715 - Compact Linear Ball Bushings

Low cost, compact. Durable plastic body with corrosion resistant hardened steel raceway segments



L1719 - Flanged Linear Ball Bushings

Square flanged ball bushing for shafts from 6mm to 60mm diameter. Used with hardened shafts only



L1720 - Stainless Ball Bushings

Circular flange ball bushings to use with corrosion resistant hardened shafts



L1721 - Stainless Ball Bushings

Stainless Ball Bushings, square flange. Stainless steel



L1722 - Long Flanged Linear Ball Bushings

Long, circular flanged linear ball bushings - 6mm to 60mm. Double complement bearings



Products



Linear Bearings & Shafts



Linear Bearings



L1723 - Long Flanged Linear Ball Bushings

Long, square flanged linear ball bushings - 6mm to 60mm. Double complement bearings.



L1724 - Stainless Ball Bushings

Stainless Ball Bushings, long version, circular flange. Stainless steel



L1725 - Stainless Ball Bushings

Double complement. For use with corrosion resistant hardened shafts.



L1730 - Long Centre Flange Linear Ball Bushing

Circular flange. For use with hardened shaft only.



L1731 - Linear Ball Bushings

Double length. Linear ball bushings for use on hardened shafts.



L1732 - Stainless Ball Bushings

Long version. Circular centre flange. For use with hardened shaft only.



L1733 - Stainless Ball Bushings

Long version. Square centre flange. For use with corrosion resistant hardened shafts.



L1740 - Superball Closed Linear Ball Bushings

Superball, linear ball bearings. 10mm to 50mm. Floating plate feature offers self-alignment and clearance adjustment.



L1741 - Nickel-Plated Superball Closed Bushings

Nickel-plated Superball Closed Bushings. Steel



L1742 - Superball Open Linear Ball Bushings

Superball Open Linear Ball Bushings. Steel



L1743 - Nickel-Plated Superball Open Bushings

Nickel-plated Superball Open Bushings. Steel



L1751 - Stainless Linear Carriages

Nickel-plated Superball Open Bushings. Steel



Products



Linear Bearings & Shafts



Linear Bearings



L1752 - Open Linear Ball Bushing Carriages

Open linear ball bushing carriages. Particularly effective for high loads and long stroke applications



L1753 - Stainless Unflanged Carriages

Open stainless unflanged carriages. Aluminium carriage housing. For use with shaft support rails



L1755 - Flanged Linear Carriages

Open. For use with shaft support rails. Particularly effective for high loads and long stroke applications



L1756 - Stainless Flanged Carriages

Stainless Flanged Carriages, open. Aluminium



L1758 - Quadro Carriages

Quadro Carriages, closed type bearings. Aluminium



L1759 - Quadro Carriages

Quadro Carriages, open type bearings. Aluminium



L1760 - End Blocks for Twin Shafts

End Blocks for Twin Shafts, clearance and tapped hole fixing. Aluminium



L1764 - Ceramic Closed Linear Bearings

Ceramic closed linear bearings. Made with aluminium-oxide ceramic coating.



L1765 - Ceramic Closed Linear Bearings

Self-lubricating. Ceramic bearings are ideal for use on all shaft bar materials.



L1766 - Ceramic Open Linear Bearings

Ceramic bearings are ideal for use on all shaft bar materials, hardened or soft.



L1767 - Ceramic Open Linear Bearings

Self-lubricating. Ceramic bearings are ideal for use on all shaft bar materials, hardened or soft.



L1768 - Thin Wall Ceramic Linear Bearings

Thin Wall Ceramic Linear Bearings. Aluminium



☰ Products



Linear Bearings & Shafts >

Linear Bearings



L1769 - Thin Wall Ceramic Linear Bearings

Thin Wall Ceramic Linear Bearings, self-lubricating. Aluminium



L1784 - Manual Shaft Clamps

Manual Shaft Clamps. Aluminium

Technical information

Load Rating



VIEW THE FULL RANGE

Basic dynamic load rating C

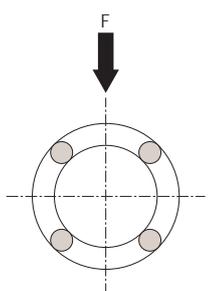
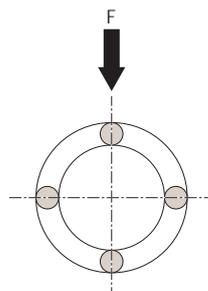
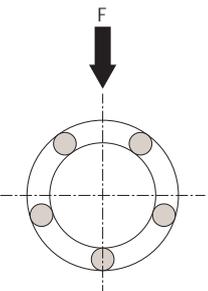
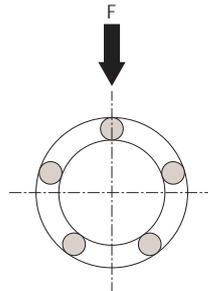
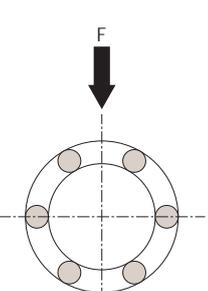
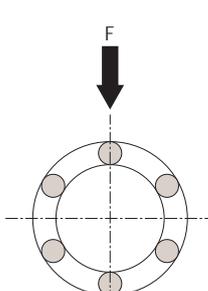
The basic dynamic load rating is defined as the constant load both in direction and magnitude under which a group of identical linear bushings are individually operated. 90% of the units can travel 50Km without failing due to rolling contact fatigue.

Basic static load rating C_0

If a linear bushing is subject to an excessive load or impact, a permanent deformation occurs between the raceway and the rolling element. The basic static load rating is defined as the static load that gives a prescribed constant contact stress at the centre of the contact area between the rolling element and raceway receiving the maximum load.

Relationships between load ratings and the position of ball circuits

Load ratings of linear bushing are affected by the position of the ball circuits as shown below.

No of ball rows	Orientation of balls	
	Maximum load rating	Minimum load rating
4		
	$F = 1.41 \times C$	$F = C$
5		
	$F = 1.46 \times C$	$F = C$
6		

Load ratings and orientation of balls.



Linear Components ▶ Linear Bearings & Shafts

Pillow Blocks

Pillow blocks, also known as plummer blocks and bearing supports range in sizes from 12mm to 90mm inner diameter. These blocks house bearing inserts equipped with two set screws to secure the shaft in place after installation, providing stability and support. As specialists in linear motion systems, we offer a choice of materials and sizes to accommodate

wet or chemical environments such as bottling lines, food or pharmaceutical production lines, outdoor applications and more.



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L1860 - Pillow Block Bearing Units

Pillow Block Bearing Units, cast iron. cast iron (FG20 or FG25)

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L1862 - Square Flanged Bearing Units

Square Flanged Bearing Units, cast iron. Iron

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L1864 - Oval Flanged Bearing Units

Oval Flanged Bearing Unit, cast iron. Iron

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L1865 - Take-Up Units & Frame

Take-up Units & Frame, with stretcher frame. Iron

An overview of Bearing Supports

Automation Components offer a range of bearing supports with a variety of mounting options (front, side and top), for use with our wide range of linear shafts. Also known as plummer blocks or pillow blocks.



VIEW THE FULL RANGE

L1872

Stainless steel bearing units



Stainless steel (AISI 304) self-aligning bearing units (440C), with smooth surfaces. Resistant to moisture and a wide range of aggressive chemicals.

L1878

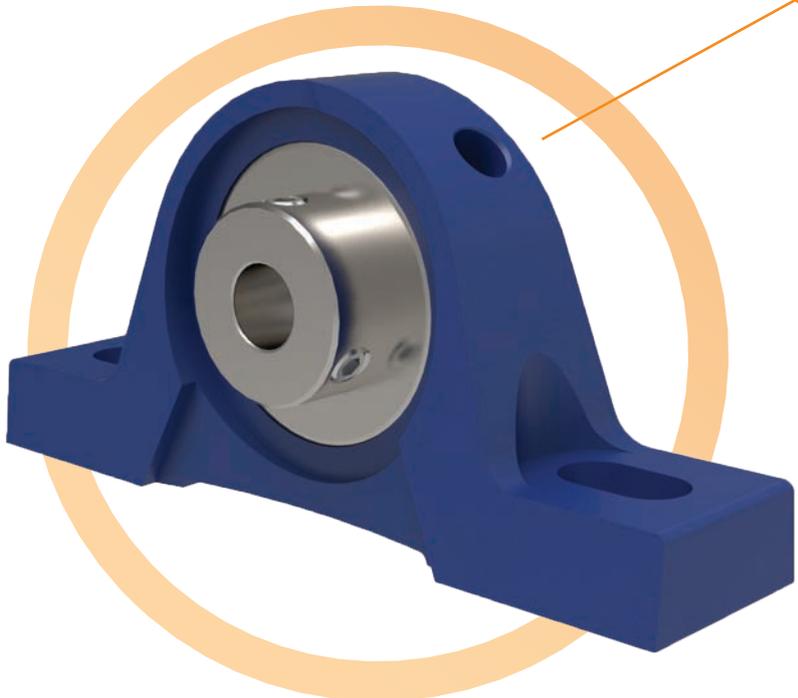
Thermoplastic bearing units



Thermoplastic (PBT) housing, with smooth surfaces. Stainless steel self-aligning bearings (440C) with 2RS seals. Bearing lubricated with food grade grease.

L1860 : PILLOW BLOCK BEARING UNITS

L1860



Steel, self-aligning bearing units with double seals, lubricated for life. Cast iron (FG20 or FG25), passivated and painted blue (RAL 5010). Used with h6 tolerance shafts (L1770-L1776). The housings are rated to take the maximum bearing loads. Available in multiple mounting options/shapes - part no's L1862-L1869.



☰ Products



Linear Bearings & Shafts >

Bearing Mounts 



L1866 - Take-Up Units

Take-up Units, set screw type. Iron



L1867 - Conveyor Belt Tensioners

Conveyor Belt Tensioners, cast iron. Steel



L1868 - Stretcher Units

Stretcher Units, for conveyor belt tensioner. Iron



L1869 - Take-Up Units

Take-up Units, cast iron. Iron



L1870 - Stainless Pillow Block Bearing Units

Stainless Pillow Block Bearing Units, . Stainless steel



L1871 - Stainless Pillow Block Bearing Units

Stainless Pillow Block Bearing Units, blind holes. Stainless steel



L1872 - Stainless Square Flanged Bearing Units

Stainless Square Flanged Bearing Units, four point flange. Stainless steel



L1873 - Stainless Oval Flanged Bearing Units

Stainless Oval Flanged Bearing Units. Stainless steel



L1876 - Thermoplastic Pillow Block Unit

Thermoplastic Pillow Block Unit. Thermoplastic



L1877 - Thermoplastic Square Flanged Units

Thermoplastic Square Flanged Units, four point flange. Thermoplastic



L1878 - Thermoplastic Oval Flanged Unit

Thermoplastic Oval Flanged Unit, two point flange. Thermoplastic



L1879 - Thermoplastic End Caps

Thermoplastic End Caps, open & closed. Polypropene

Manufacturing capabilities

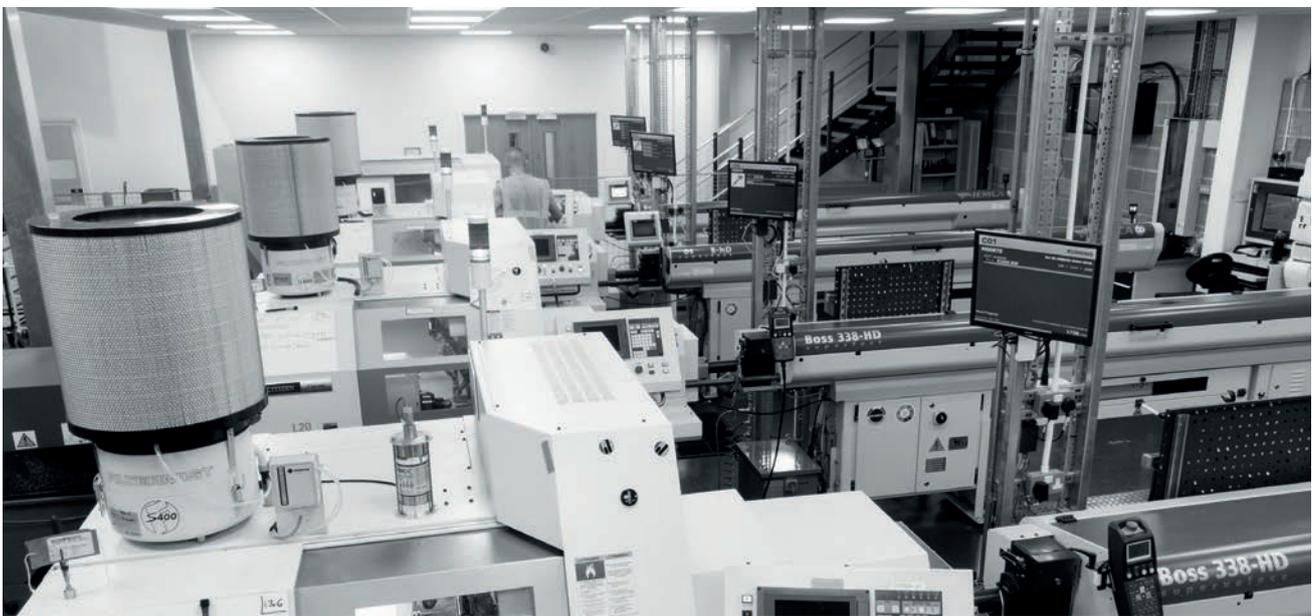
In-House



VIEW THE FULL RANGE

Since moving to our Chichester site in 2019, we have brought the manufacture of our range of precision fasteners in-house. Our CNC lathes are working day and night to produce our wide selection of shoulder screws, captive screws, vented screws and more in many different sizes and materials! To ensure we are running as efficiently as possible, we have written

custom software that works with our warehouse and ordering system to reduce the average lead time significantly. Our system means that we can offer bespoke variations on our existing products with no hassle, and at lower minimum quantities.



Sealing Screws

We are the only manufacturers in Europe for Integral O-Ring Sealing Screws.



Captive Screws

Our popular range of captive screws and mounting fittings are ideal for panel applications.



Vented Screws

The highest quality vented fasteners, made in Chichester for your vacuum system.



Shoulder Screws

A massive line-up of shoulder screws in different materials and head styles.



Shoulder Screws

Shoulder screws, also known as shoulder bolts or sometimes referred to as stripper bolts, distinguish themselves by featuring a head, a threaded portion, and an additional unthreaded "shoulder" in between. This shoulder, with a larger diameter than the thread and high precision tolerance, serves a dual purpose as both a fastener

and a precise guide for moving parts, such as pulleys and gears. Available in various materials, including stainless steel and titanium, shoulder screws offer versatility and reliability in applications requiring precise alignment and support for moving components.



P0130 - Cap Head Shoulder Screws

Available in the following materials: 303 stainless steel, 316 stainless steel, blackened 303 stainless steel, blackened 316 stainless steel, grade 2 titanium or grade 5 titanium



P0133 - Slot Head Shoulder Screws

Available in 416 stainless steel



P0128 - Countersunk Shoulder Screws

Available in the following materials: 303 stainless steel, 316 stainless steel, blackened 303 stainless steel, blackened 316 stainless steel



☰ Products



Shoulder Screws, Captive Screws & Sealing Screws >

Shoulder Screws



P0126 - Headless Shoulder Screws

Slot drive. Stainless AISI 303



P0127 - Cap Head Shoulder Nuts

Hex. drive. Available in stainless AISI 303/316, and blackened AISI 303/316



P0130.P2 - Cap Head Shoulder Screws

With locking patch, Hex. drive Stainless AISI 303



P0131 - Cap Head Shoulder Screws

Hex. drive. Stainless AISI 416



P0132 - Cap Head Shoulder Screws

Slot drive. Available in stainless AISI 303, AISI 316 and imperial



P0134 - Ultra Low Head Shoulder Screws

Hex. drive. Available in stainless AISI 303/316 and blackened AISI 303/316



P0135 - Stainless Shoulder Bolts

Hex. head, Stainless AISI 303 Small sizes



P0136 - Hex. Socket Head Shoulder Screws

Blackened alloy steel. High grade strength 12.9



P0137 - Hex. Socket Head Shoulder Screws

Stainless AISI 303. Large sizes



P0138 - Stainless Shoulder Bolts

Hex. head, Stainless AISI 303 Long thread



P0139 - Steel Shoulder Bolts

Hex. head. Blackened alloy steel - strength 10.9. Std. thread



P0140 - Steel Shoulder Bolts

Hex. head. Blackened alloy steel - strength 8.8. Short thread



☰ Products



Shoulder Screws, Captive Screws & Sealing Screws >

Shoulder Screws



P0141 - Steel Shoulder Bolts

Hex. head. Blackened alloy steel - strength 10.9. Short thread



P0142 - Steel Shoulder Bolts

Hex. head. Blackened alloy steel - strength 8.8. Construction grade



P0144 - Pan Head Shoulder Screws

Slot drive. Available in zinc-plated steel and stainless AISI 303



P0145 - Cap Head Shoulder Screws

TX drive. Available in stainless AISI 303/316 and blackened AISI 303/316



Captive Screws

Captive screws, designed for permanent hold or "captive," offer enhanced safety by significantly reducing the likelihood of accidental removal once installed. The reduced diameter section of the screw helps keep the screw captivated in the panel once the panel has been removed, hence the name. This captivation is crucial for compliance with safety

regulations, such as the EU Machine Safety Directive (2006/42/EC) and/or ISO 14583, where certain equipment, like safety covers or panels, require permanent fastenings.



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P0154 - Cap Head Captive Screws

Available in the following materials: 303 stainless & 316 stainless, blackened 303 & 316 stainless, titanium, zinc-plated and blackened

MADE IN BRITAIN

Automotion
AN ESSENTRA COMPANY



P0153 - Countersunk Captive Screws

Available in the following materials: 303 stainless & 316 stainless, blackened 303 & 316 stainless and titanium

MADE IN BRITAIN

Automotion
AN ESSENTRA COMPANY



P0158 - Captive Hex Bolts

Available in the following materials: 303 stainless & 316 stainless, blackened 303 & 316 stainless and titanium

MADE IN BRITAIN



Products



Shoulder Screws, Captive Screws & Sealing Screws



Captive Screws



P0149 - Button Head Captive Screws

TX drive. Available in titanium grade 2/5, stainless AISI 303/316 and blackened AISI 303/316



P0150 - Pan Head Captive Screws

TX drive. Available in titanium grade 2/5, stainless AISI 303/316 and blackened AISI 303/316



P0151 - Button Head Captive Screws

Hex. drive. Available in titanium grade 2/5, stainless AISI 303/316 and blackened AISI 303/316



P0152 - Cheese Head Captive Screws

Hex. drive. Available in stainless AISI 303/316 and blackened AISI 303/316



P0154.P2 - Cap Head Captive Screws

With locking patch. Hex. drive
Stainless AISI 303



P0155 - Cheese Head Captive Screws

Slot drive. Available in titanium grade 2/5, stainless AISI 303/316 and blackened AISI 303/316



P0156 - Cap Head Captive Screws

TX drive. Available in titanium grade 2/5, stainless AISI 303/316 and blackened AISI 303/316



P0157 - Pan Head Captive Screws

Phillips drive. Stainless AISI 303



P0159 - Captive Panel Thumb Screws

Slot drive. Available in titanium grade 2/5, stainless AISI 303/316 and blackened AISI 303/316



P0160 - Captive Thumb Screws

Available in titanium grade 2/5, stainless AISI 303/316 and blackened AISI 303/316



P0161 - Captive Thumb Screws

Available in titanium grade 2/5, stainless AISI 303/316 and blackened AISI 303/316



P0163 - Captive Screws with Washers

Hex. drive. Stainless AISI 303



☰ Products



Shoulder Screws, Captive Screws & Sealing Screws >

Captive Screws



Automotion AN ESSENTRA COMPANY



MADE IN BRITAIN

P0168 - Threaded Captive Washers

Threaded Captive Washers, for captive screws. Stainless steel

Automotion AN ESSENTRA COMPANY



MADE IN BRITAIN

P0169 - Captive Screws Retainer Flange

Captive screw retainer flange. Aluminium or 303 stainless steel

Automotion AN ESSENTRA COMPANY



MADE IN BRITAIN

P0169.TL - Installation Tools

Installation Tools, for retainer flanges. Steel

Automotion AN ESSENTRA COMPANY



P0340 - Threaded Washers

Threaded Washers, 303 stainless. Stainless steel



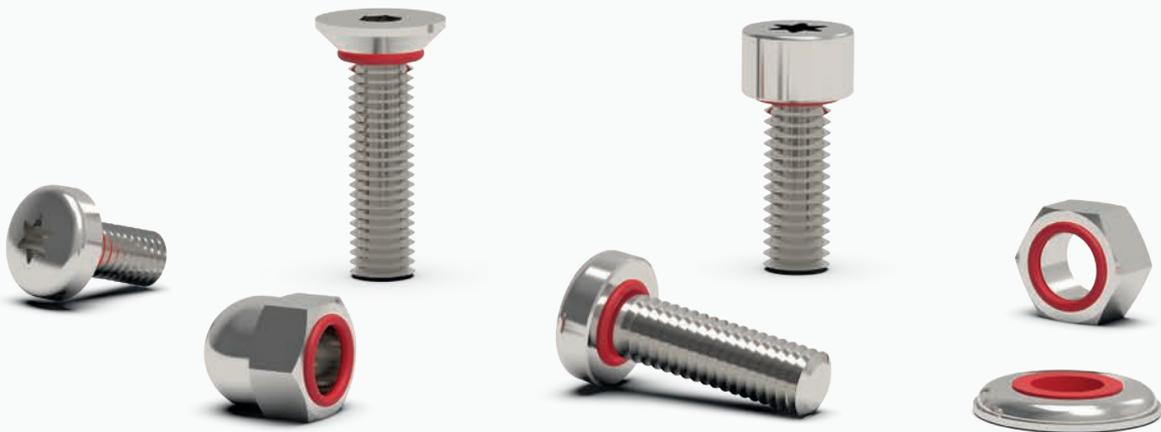
VIEW THE FULL RANGE

Mechanical Components ▶ Shoulder Screws, Captive Screws & Sealing Screws

Sealing Screws

Sealing screws offer crucial bi-directional protection against contaminants, preventing potential damage to sensitive devices. Featuring an O-ring beneath the screw or bolt, these screws create a reliable seal as they are tightened, controlled by a precision-engineered groove. This design ensures consistent O-ring compression, making the screws reusable. Various O-ring materials resist diverse chemical

and environmental conditions. Sealing screws, available to military specifications (MILSPEC) on request, are user-friendly, requiring no special preparation or re-tightening. With silicone "O" ring as standard. Other "O" ring materials available on request -FS = fluorosilicone, -EP = EPDM, -VI = viton, -NI = nitrile, -BN = Buna etc.



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P0171 - Pan Head Seal Screws

Slot drive
Available in 303 and 316 stainless steel

Automation
AN ESSENTRA COMPANY



P0173 - Cap Head Seal Screws

TX drive
Available in 303 and 316 stainless steel

Automation
AN ESSENTRA COMPANY



P0174 - Button Head Seal Screws

Hex drive
Available in 303 and 316 stainless steel



☰ Products



Shoulder Screws, Captive Screws & Sealing Screws >

Sealing Screws



P0170 - Pan Head Seal Screws

Seal screw. Pan head. Phillips drive. 303 stainless steel. 316 available on request



P0171.i - Pan Head Seal Screws - Inch

Pan Head Seal Screws - Inch. Slotted. 303 Stainless steel. 316 available on request



P0172 - Pan Head Seal Screws

Seal screw. Pan head. Torx drive. 303 stainless steel. 316 available on request



P0173.P2 - Seal Screws - Cap Head

Seal screw. Cap head, with locking patch. Hex drive. 303 stainless steel. 316 available on request



P0175 - Countersunk Seal Screws

Countersunk Seal Screws. Hex socket. 303 stainless steel. 316 available on request



P0176 - Integral Seal Bolts

Integral Seal Bolts. Hexagon head. 303 or 316 stainless steel



P0178 - Integral Seal Hex. Nuts

Integral Seal Hex. Nuts. 303 or 316 Stainless steel



P0179 - Integral Seal Domed Nuts

Integral Seal Domed Nuts. 303 or 316 Stainless steel



P0180 - Seal Washers

Seal Washers. 316 stainless steel



P0181 - Waterproof Seal Washers

Waterproof Seal Washers. 304 stainless steel



Vented Screws

Vented screws are purpose-built for applications where trapped air bubbles pose challenges, such as in vacuum systems and clean rooms. The vent allows trapped air under the screw to be released quickly. Therefore, systems that are subjected to vacuum conditions can reach low pressures more quickly and remain at low pressures more effectively.

All products are ultrasonically cleaned to meet the cleanliness requirements of vacuum environments. Additionally, coatings are offered to reduce seizing or galling in vented screws.



P0090 - Cap Head Vented Screws

Available in 303 and 316 stainless steel



P0091 - Hex Head Vented Screws

Available in 303 and 316 stainless steel



P0094 - Socket Button Head Vented Screws

Available in 303 and 316 stainless steel



☰ Products



Thread Inserts & Specialist Screws >

Vented Screws



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MADE IN BRITAIN

P0093 - Vented Machine Screws

Countersunk. Hex. drive. Available in stainless AISI 304 and 316

Automotion AN ESSENTRA COMPANY



P0097 - Stainless Vented Washers

Available in stainless AISI 304 and 316
Ultrasonically cleaned. Available with coating

Automotion AN ESSENTRA COMPANY



MADE IN BRITAIN

P0098 - Vented Shoulder Screws

Cap head. Hex. drive. Available in stainless AISI 304 and 316



Low Head Screws

Low head screws, crucial in weight-sensitive applications like aerospace, provide minimal weight and reduced drag. Unlike traditional countersunk screws requiring a minimum metal depth for head recess, our innovative low head profile screws allow for the use of thinner panels, saving weight and ensuring a flush fit with the surface, with thicknesses as

minimal as 0.5mm. Available in hex or TX versions, these screws provide a streamlined solution for applications requiring both lightweight design and reduced aerodynamic resistance.



MADE IN BRITAIN

P0207 - Extra Low Head Cap Screws

Available in the following materials:
303 stainless & 316 stainless, blackened 303 & 316 stainless and titanium



MADE IN BRITAIN

P0208 - Ultra Low Head Cap Screws

Hex drive. Available in the following materials: 303 stainless & 316 stainless, blackened 303 & 316 stainless and titanium



MADE IN BRITAIN

P0209 - Ultra Low Head Cap Screws

TX drive. Available in the following materials:
303 stainless & 316 stainless and blackened 303 & 316 stainless



Thumb Screws

A thumb screw or nut is designed to be easily tightened and loosened by hand, for quick and easy fixturing. Because of this they are characterised by different heads depending on their use. Knurled nuts for example provide ridges for extra grip, whereas winged nuts are designed with wing-like protrusions where space allows for more leverage. Our thumb

screws are available in steel and with the thread all the way up to the head.



P0400 - Knurled Thumb Screws

Knurled Thumbs screws. Steel, brass, zinc-plated, A4 & A2 stainless steel & blackened. To DIN 464



P0405 - Flat Knurled Thumb Screws

Flat Knurled Thumbs screws. Steel, brass, zinc-plated, A4 & A2 stainless steel & blackened. To DIN 653



P0406 - Flat Knurled Nuts

Flat knurled nuts. Steel, brass, zinc-plated, A2 stainless steel & blackened. To DIN 467



P0403 - Knurled Thumb Nuts

Knurled Nuts. Brass, zinc-plated, A4 & A2 stainless steel & Blackened. To DIN 466



P0404 - Knurled Thumb Screws - with Slot

Knurled Thumb Screws with slot. A2 Stainless steel. To DIN 465



P0409 - Knurled Nuts

Knurled nuts. A2 stainless steel and blackened. To DIN 6303



P0435 - Thin Head Thumb Screws

Thin head thumb screws. A2 and A4 stainless steel & blackened



P0437 - Narrow Head Thumb Screws

Narrow head thumb screws. A2 and A4 stainless steel & blackened



P0438 - Thumb Screws - with Collar

Thumb screws with collar. A2 and A4 stainless steel & blackened



P0440 - Knurled Thumb Screws

Knurled thumb screws. Plastic with a steel or stainless grub screw



P0441 - Plastic Knurled Nuts

Plastic knurled nuts. Thermoplastic



P0443 - Thin Head Thumb Screws

Thin head thumbscrews. Steel, zinc-plated. Male or female version



P0444 - Plastic Head Thumb Screws

Plastic head thumbscrews. Fluted body, steel, zinc-plated. Male or female version



P0445 - Plastic Head Thumb Screws

Plastic head thumbscrews. Duroplast. Male or female version (blind or through)



P0480.A4 - Plastic Head Thumb Screws

Plastic Head Thumb Screws. A4 stainless steel thread. Other colours available on request



☰ Products



Thread Inserts & Specialist Screws >

Thumb Screws



P0481 - Wing Nuts

Wing Nut. Plastic, with grub screw and colour insert. Thermoplastic



P0490 - Hygienic Screws - Male

Hygienic Screws - Male. 304 stainless steel



P0491 - Hygienic Nuts - Female

Hygienic Nuts - Female. 304 stainless steel



Threaded Inserts

Threaded inserts are inserted into objects to add a threaded hole. They provide durable threaded holes, ideal for soft materials, or for transitioning between unified and metric threads. Predominantly used to repair damaged threads and enhance parent material strength, our threaded inserts feature a locking key design. Easy to install and remove, we

offer standard options for commercial or military grade use, manufactured in steel or stainless steel, with floating thin-walled versions also available.



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Stainless Steel

Automation AN ESSENTRA COMPANY



Steel

Automation AN ESSENTRA COMPANY



Solid Wall

Automation AN ESSENTRA COMPANY



Installation Tools



Products



Thread Inserts & Specialist Screws



Thread Inserts



P0080 - Wire Thread Inserts - Free Running

Wire Thread Inserts - Free Running, Stainless steel A2



P0081 - Wire Thread Inserts - Screw Lock

Wire Thread Inserts - Screw Lock, A2 stainless steel



P0083.1 - Thread Inserts - Metric

Threaded Insert - Metric, heavy duty - stainless steel



P0083.2 - Thread Inserts - Metric

Threaded Insert - Metric, heavy duty - carbon steel



P0084.1 - Thread Inserts - Metric

Threaded Insert - Metric, thinwall - stainless steel



P0084.2 - Thread Inserts - Metric

Threaded Insert - Metric, thinwall - carbon steel



P0087.1 - Thread Inserts - Solid - Metric

Threaded Insert - Solid - Metric, carbon steel



P0087.2 - Thread Inserts - Solid - Metric

Threaded Insert - Solid - Metric, stainless steel



P0088.1 - Installation Tool - Metric - Thinwall

Installation Tool - Metric - Thinwall, for threaded inserts P0084.1 & P0084.2. Steel



P0088.2 - Installation Tool - Metric - Heavy Duty

Installation Tool - Metric - Heavy Duty, for threaded inserts P0083.1 & P0083.2. Steel



Mechanical Components ▶ Thread Inserts & Specialist Screws

Titanium Screws

Titanium screws are essential for industries like aerospace, robotics, and marine, where a high strength-to-weight ratio and exceptional corrosion resistance are critical. Our range of titanium fasteners is designed to meet these demanding requirements, and we offer bespoke manufacturing services for custom screws. Additionally, we provide

titanium shoulder screws and captive screws for specialised applications.



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P0100 - Socket Cap Screws

Socket Cap Screw. DIN 912 Grade 2 Titanium. Size M2 - M20

 **Automotion**
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P0101 - Hex Head Bolts

Titanium Hex Head Bolts. Grade 2. Grade 5 available on request

 **Automotion**
AN ESSENTRA COMPANY



P0102 - Socket Button Screws

Titanium Socket Button Screws. Grade 2. Grade 5 available on request



☰ Products



Thread Inserts & Specialist Screws >

Titanium Screws



P0108 - Titanium Hex Nuts

Titanium Hex Nuts, Grade 2. Titanium G2



P0109 - Titanium Washers

Titanium Washers, flat & spring lock.
Titanium G2



Tipped Screws

Automation Tipped Screws are engineered for applications that demand precision and reusability. The self-locking mechanism ensures a secure fit while the brass, solder, or nylon tips protect delicate surfaces, making them a dependable choice for sensitive positioning tasks.



P0121 - Thrust Screws - Brass Pad

Thrust screws - brass pad. Steel



P0125 - Thrust Screws - Plastic Pad

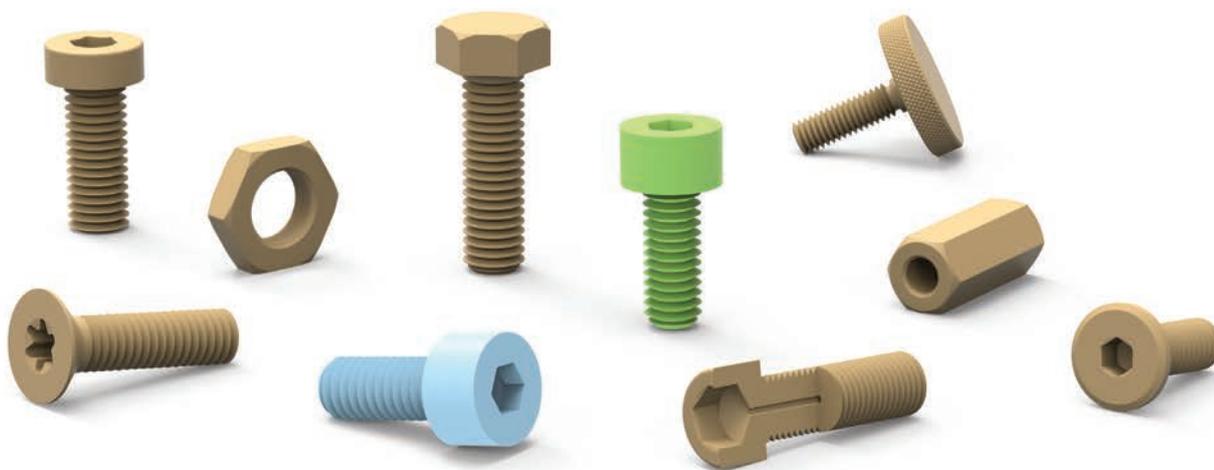
Thrust screws - plastic pad. Heat treated steel



P0124 - Thrust Screws - Plastic Pad

Thrust screws - plastic pad. Stainless steel

An introduction to PEEK (Polyether ether ketone)



What is PEEK?

PEEK (Polyether Ether Ketone) fasteners are lightweight, high-strength alternatives to metal fasteners, offering exceptional chemical resistance, thermal stability, and mechanical properties. PEEK fasteners are ideal for applications requiring high purity, low outgassing, and resistance to harsh environments. We stock a wide range of PEEK fasteners, including cap head screws, spacers, set screws, ultra-low head cap screws, and countersunk

screws. Known for their high strength, corrosion resistance, and lightweight properties, these fasteners are ideal for demanding industries such as aerospace, automotive, food processing electronics, and medical. PEEK fasteners withstand extreme temperatures, aggressive chemicals, and high-stress environments, making them a superior alternative to traditional metal fasteners in specialised applications.



☰ Products



Thread Inserts & Specialist Screws >

PEEK Fasteners



P0500.HP - Cap Head Hexagon Socket

Cap Head Hexagon Socket, Hygienic



P0500.MP - Cap Head Hexagon Socket

Cap Head Hexagon Socket, Medical



P0500.NP - Cap Head Hexagon Socket

Cap Head Hexagon Socket, Natural PEEK



P0501.NP - Hexagonal Head Set Screw

Hexagonal Head Set Screw, Natural PEEK



P0502.NP - Hexagon Nuts

Hexagon Nuts, Natural PEEK



P0503.NP - Female - Female Hexagon Spacers

Female-Female Hexagon Spacers, Natural PEEK



P0504.NP - Male - Female Hexagonal Spacers

Male-Female Hexagonal Spacers, Natural PEEK



P0507.NP - Set Screws

Set Screws, Natural PEEK



P0508.NP - Ultra Low Head Cap Screws

Ultra Low Head Cap Screws, Natural PEEK



P0509.NP - Torx Low Cap Head Screws

Torx Low Cap Head Screws, Natural PEEK



P0510.NP - Washers

Washers, Natural PEEK



P0511.NP - Low Cap Head Hex Socket Screws

Low Cap Head Hex Socket Screws, Natural PEEK



☰ Products



Thread Inserts & Specialist Screws >

PEEK Fasteners



P0512.NP - Slotted Cheese Head Screws

Slotted Cheese Head Screw, Natural PEEK



P0513.NP - Torx Ultra Low Head Screws

Torx Ultra Low Head Screws, Natural PEEK



P0514.NP - Countersunk Hexagon Head Screws

Countersunk Hexagon Head Screws, Natural PEEK



P0515.NP - Torx Countersunk Head Screws

Torx Countersunk Head Screws, Natural PEEK



P0520.NP - Torx Pan Head Screws

Torx Pan Head Screws, Natural PEEK



P0530.NP - Cap Head Vented Screws

Cap Head Vented Screws. Natural PEEK



Mechanical Components ▶ Standard Fasteners

Standard Screws

Our standard screws range is designed to meet a wide spectrum of fastening needs across industries. We offer an extensive selection of options including socket cap, hex head, set screws, and countersunk and more, all available in both standard and bespoke sizes. Screws are manufactured in a variety of durable materials such as stainless steel, steel,

titanium, and blackened stainless steel to suit diverse applications. Whether you're sourcing for general engineering or a specialized project, our screw range delivers precision, strength and reliability.



Automation AN ESSENTRA COMPANY



Socket Cap

Automation AN ESSENTRA COMPANY



Hex Head Bolts

Automation AN ESSENTRA COMPANY



Set Screws

Automation AN ESSENTRA COMPANY



Countersunk Screws



VIEW THE FULL RANGE

Mechanical Components ▶ Standard Fasteners

Standard Nuts & Washers

Our nuts and washers range complements our fastener offering with reliable, high-performance components suitable for a wide variety of applications. The selection includes coarse & fine thread nuts, lock nuts, dome nuts, flat washers, spring washers, and more. Manufactured from high-quality materials including stainless steel,

brass, steel, and nylon, these components ensure secure fastening and load distribution across all types of assemblies. Whether for industrial, construction, or bespoke engineering use, our nuts and washers provide the strength and versatility your project demands.





Pins & Spacers

Pins and spacers are integral components in a range of applications, providing precise alignment and spacing for diverse needs. Complying with DIN/ISO standards, our collection includes pins and spacers in various materials such as steel, stainless steel (AISI 303 and 316) and more. Designed to meet specific requirements, we offer flexibility in

dimensions and can manufacture special sizes on demand. Whether you need standardised options or custom solutions, our comprehensive range ensures reliability and adherence to industry standards.



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Dowel Pins

Automation
AN ESSENTRA COMPANY

Spring Pins

Automation
AN ESSENTRA COMPANY

Pillars

MADE IN BRITAIN

Automation
AN ESSENTRA COMPANY

Spacers

MADE IN BRITAIN



Products



Mechanical Components



Pins & Spacers



P1204 - Steel Dowel Pins

Steel Dowel Pins. Steel



P1206 - Stainless Dowel Pins

Stainless Dowel Pins A2 stainless.
Stainless steel A2



P1207 - Stainless Dowel Pins

Stainless Dowel Pins, A4 stainless.
Stainless steel A4



P1230 - Steel Slotted Pins

Steel Slotted Pins. Steel



P1231 - Stainless Slotted Spring Pins

Stainless Slotted Spring Pins. Stainless steel A2



P1232 - Steel Spiral Spring Pins

Steel Spiral Spring Pins. Steel



P1234 - Stainless Spiral Spring Pins

Stainless Spiral Spring Pins. Stainless A2



P1240 - Steel Cotter Pins

Steel Cotter Pins. Zinc-plated



P1241 - Stainless Cotter Pins

Stainless Cotter Pins. Stainless steel A2



P1242 - Clevis Pins

Clevis Pins. Zinc-plated



P1243 - Retaining Pins (R Clips)

Retaining Pins (R Clips), R clips.
Zinc-plated or stainless A2



P1244 - Locking Rings

Locking Rings. Steel, galvanised or stainless A4



☰ Products



Mechanical Components >

Pins & Spacers



P1248 - Shaft Locking Pins

Shaft Locking Pins. Steel silver or zinc-plated



P1247 - Linch Pins

Linch Pins. Steel



P1249 - Locking Pins

Locking Pins, for square tubes. Steel



P0060 - Brass Hexagonal Spacers

Hexagonal spacers. Brass, steel zinc-plated, or 303 stainless



P0061 - Brass Hexagonal Pillars

Hexagonal pillars. Brass, steel zinc-plated, or 303 stainless



P0065 - Brass Clearance Spacers

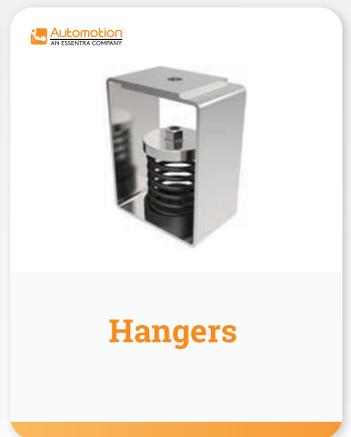
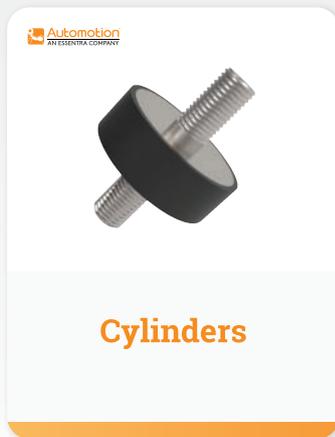
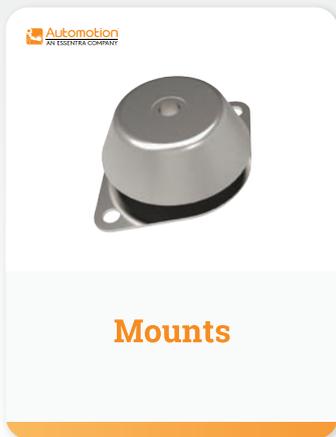
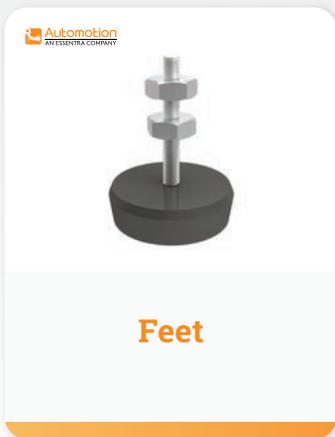
Clearance spacers. Brass, steel zinc-plated or 303 stainless



Anti-Vibration

Anti-vibration products are essential in minimising the impact of vibrations on machinery and equipment, ensuring stable and efficient operation and reducing noise. Our comprehensive range adheres to industry standards and includes various solutions such as mounts, feet, pads, and bushes. Available in different materials and sizes, these products are

designed to absorb and dampen vibrations, providing enhanced stability in diverse applications.





☰ Products



Mechanical Components >

Anti-Vibration, Levelling Feet & Materials Handling



P2004 - Anti-Vibration Cylinders

Anti-vibration Cylinders, male:male. Steel



P2005 - Anti-Vibration Cylinders

Anti-vibration Cylinders, male:male. Stainless steel



P2010 - Anti-Vibration Cylinders - Waisted

Anti-vibration Cylinders Waisted, male. Steel



P2017 - Anti-Vibration Cylinders

Anti-vibration Cylinders, spherical. Steel



P2006 - Anti-Vibration Cylinders

Anti-vibration Cylinders, male:female. Steel



P2014 - Anti-Vibration Cylinders - Waisted

Anti-vibration Cylinders Waisted, male:female. Steel



P2008 - Anti-Vibration Cylinders

Anti-vibration Cylinders, female:female. Steel



P2013 - Anti-Vibration Cylinders - Waisted

Anti-vibration Cylinders Waisted, female:female. Stainless steel



P2012 - Anti-Vibration Cylinders - Waisted

Anti-vibration Cylinders Waisted, female:female. Steel



P2016 - Anti-Vibration Cylinders - Waisted

Anti-vibration Cylinders Waisted, male. Steel



P2019 - Anti-Vibration Feet

Anti-vibration Feet, light duty. Steel



P2020 - Anti-Vibration Feet

Anti-vibration Feet, male. Steel



☰ Products



Mechanical Components >

Anti-Vibration, Levelling Feet & Materials Handling



P2021 - Anti-Vibration Feet

Anti-vibration Feet, female. Steel



P2022 - Anti-Vibration Bumpers

Anti-vibration Bumpers, male. Steel



P2023 - Anti-Vibration Bumpers

Anti-vibration Bumpers, flanged. Steel



P2024 - Anti-Vibration Cones - Male

Anti-vibration Cones male, male. Steel



P2025 - Anti-Vibration Cones - Female

Anti-vibration Cones female, female. Steel



P2100.AV - Anti-Vibration Failsafe Mounts - Steel

Anti-vibration Fail-Safe Mounts. Steel



P2101 - Anti-Vibration Failsafe Mounts

Anti-vibration Fail-Safe Mounts, A2 stainless steel



P2102 - Anti-Vibration Failsafe Mounts

Anti-vibration Fail-Safe Mounts, 316 stainless steel



P2110 - Anti-Vibration Mounts

Anti-vibration Mounts, fz sylomer mounts. Aluminium



P2103 - Anti-Vibration Mounts

Anti-vibration Mounts. Steel



P2104 - Marine Engine Mounts

Marine Engine Mounts, v-shaped. Steel



P2105 - Anti-Vibration Dome Mounts

Anti-vibration Dome Mounts. Steel



☰ Products



Mechanical Components >

Anti-Vibration, Levelling Feet & Materials Handling



P2106 - Anti-Vibration Dome Mounts

Anti-vibration Dome Mounts, dome mounts. Steel



P2107 - Anti-Vibration Mounts - V Shaped

Anti vibration Mounts v shaped. Steel



P2108 - Anti-Vibration Mounts

Anti-vibration Mounts, silicone gel. Steel



P2109 - Anti-Vibration Mounts

Anti-vibration Mounts, silicone gel. Steel or stainless steel



P2040 - Anti-Vibration Mounts

Anti-vibration Mounts, engine. Steel



P2041 - Anti-Vibration Mounts

Anti-vibration Mounts, ribbed pads. Steel



P2042 - Anti-Vibration Mounts

Anti-vibration Mounts, rectangular. Steel



P2043 - Anti-Vibration Mounts

Anti-vibration Mounts, rectangular. Steel



P2044 - Anti-Vibration Mounts

Anti-vibration Mounts, with through holes. Steel



P2045 - Anti-Vibration Mounts

Anti-vibration Mounts, rectangular. Steel



P2050 - Anti-Vibration Pads

Anti-vibration Pads. Rubber



P2051 - Rubber Pads

Rubber Pads, rectangular. Rubber



☰ Products



Mechanical Components >

Anti-Vibration, Levelling Feet & Materials Handling



P2052 - Rubber Pads

Rubber Pads, round. Rubber



P2053 - Rubber Pads with Holes

Rubber Pads with holes, with holes. Rubber



P2054 - Anti-Vibration Pads

Anti-vibration Pads, flanged. Steel



P2056 - Anti-Vibration Pads

Anti-vibration Pads, silicone gel



P2150 - Machine Mounts

Machine Mounts, with silver zinc-plated thread. Steel



P2151 - Machine Mounts

Machine Mounts, with zinc-plated thread. Steel



P2152 - Heavy Duty Machine Mounts

Heavy Duty Machine Mounts, polyurethane base. Steel



P2153 - Heavy Duty Machine Mounts

Heavy Duty Machine Mounts. Steel



P2154 - Heavy Duty Machine Mounts - Levelling

Heavy Duty Machine Mounts levelling. Steel



P2160 - Stainless Machine Mounts - Rubber Base

Stainless Machine Mounts rubber base, rubber base. Stainless steel



P2161 - Stainless Machine Mounts

Stainless Machine Mounts, polyurethane base. Stainless steel



P2180 - Precision Adjuster

Precision Adjuster. Steel



☰ Products



Mechanical Components >

Anti-Vibration, Levelling Feet & Materials Handling



P2181 - Tilt Head Precision Adjuster

Tilt Head Precision Adjuster. Zinc plated steel



P2182 - Precision Adjuster

Precision Adjuster. Zinc plated steel



P2183 - Precision Adjuster

Precision Adjuster, with locking nut. Steel



P2184 - Tilt Head Precision Adjuster

Tilt Head Precision Adjuster. Steel



P2185 - Tilt Head Precision Adjuster

Tilt Head Precision Adjuster, tall with locking nut. Zinc plated steel



P2186 - Ball Shim Leveller

Ball Shim Leveller. Zinc plated steel



P2187 - Spacers

Spacers, for part nos. P2180 to P2186. Zinc plated steel



P2200.AV1 - Mini Levelling Feet

Mini Levelling Feet, articulated. Stainless steel



P2200.AV2 - Levelling Feet

Levelling Feet, swivel. Stainless steel



P2201 - Stainless Levelling Feet

Stainless Levelling Feet, fixed feet



P2202 - Machine Mount - Bolt Down

Machine Mount - Bolt Down, pad and bolt - stainless steel



P2203.1 - Levelling Feet

Levelling Feet, bolt. Plastic and stainless steel



Products



Mechanical Components >

Anti-Vibration, Levelling Feet & Materials Handling



P2203.2 - Levelling Feet

Levelling Feet, bolt down option, bolt. Plastic and stainless steel



P2203.3 - Levelling Feet - Heavy Duty

Levelling Feet - Heavy Duty, bolt down option, bolt. Plastic and stainless steel



P2204.2 - Machine Mount

Machine Mount, plastic pad, bolt black polyamide bolt down option



P2205.1 - Levelling Feet

Levelling Feet, plastic pad, bolt steel. Plastic and steel



P2205.2 - Levelling Feet

Levelling Feet, plastic pad, bolt steel. Plastic and steel



P2206 - Plastic Levelling Feet

Plastic Levelling Feet, steel stud



P2207 - Steel Levelling Feet

Steel Levelling Feet. Steel



P2208 - Steel Levelling Feet

Steel Levelling Feet steel. Steel



P2209 - Steel Levelling Feet

Steel Levelling Feet steel. Steel



P2217 - Elastomer Levelling Feet

Elastomer Levelling Feet, A2 stainless steel thread. Thermoplastic



P2700.AV - Push-Fit Ball Transfer Units

Push-Fit Ball Transfer Units, light duty, push fit. Steel



P2701 - Acetal Body Ball Transfer Units

Acetal Body Ball Transfer Units, light duty, acetal body. Acetal



☰ Products



Mechanical Components >

Anti-Vibration, Levelling Feet & Materials Handling



P2702 - Saturn Type Ball Transfer Units

Saturn Type Ball Transfer Units, light duty, saturn type. Steel or stainless steel



P2705 - Miniature Ball Transfer Units

Miniature Ball Transfer Units. Steel



P2710 - Push-Fit Ball Transfer Units

Push-Fit Ball Transfer Units, medium duty. Steel or stainless steel



P2711 - Plain-Fit Ball Transfer Units

Push-Fit Ball Transfer Units, medium duty. Steel or stainless steel



P2712 - Threaded Ball Transfer Units

Threaded Ball Transfer Units, medium duty, female. Steel or stainless steel



P2713 - Threaded Ball Transfer Units

Threaded Ball Transfer Units, medium duty, male. Steel



P2500.AV - Acoustic Ceiling Hanger

Acoustic ceiling hangers. Zinc plated steel (anti-corrosive treatment) with Sylomer® pad and steel spring



P2501 - Acoustic Ceiling Hanger

Acoustic ceiling hangers flanged. Zinc plated steel (anti-corrosive treatment) with Sylomer® pad



P2502 - Acoustic Ceiling Hanger

Acoustic ceiling hangers without nut. Zinc plated steel (anti-corrosive treatment) with Sylomer® pad



P2503 - Acoustic Ceiling Hanger - With Nut

Acoustic ceiling hangers with nut. Zinc plated steel (anti-corrosive treatment) with Sylomer® pad



P2504 - Acoustic Ceiling Hanger

Acoustic ceiling hangers. Zinc plated steel (anti-corrosive treatment) with Sylomer® pad



P2551 - Acoustic Suspension Hanger

Acoustic suspension hanger spring. Zinc plated steel (anti-corrosive treatment)



☰ Products



Mechanical Components >

Anti-Vibration, Levelling Feet & Materials Handling



P2552 - Acoustic Suspension Hanger

Acoustic suspension hanger top mount. Zinc plated steel and rubber



P2553 - Acoustic Suspension Hanger

Acoustic suspension hanger without nut. Steel anti-corrosive zinc plated, with rubber (50 shore A) cylinder



P2554 - Acoustic Suspension Hanger

Acoustic suspension hanger with nut. Steel anti-corrosive zinc plated, with rubber (50 shore A) cylinder



P2555 - Acoustic Suspension Hanger

Acoustic suspension hanger u-shape. Steel anti-corrosive zinc plated, with rubber (50 shore A) cylinder



P2556 - Acoustic Wall Damper

Acoustic wall damper right angle fixing. Rubber on steel (zinc plated)



Blanking Plugs & Tolerance Rings

Our range of Mechanical Components includes, among others, Tolerance Rings — corrugated metal strips designed to securely fasten one mechanical component to another — and Blanking Plugs, ideal for applications that require pressure relief. Explore our full catalog to discover all the Mechanical Components we offer.



P0395 - Tolerance Rings - Shaft Variable - SV Type

Tolerance Rings - Shaft Variable- SV type.
A2 stainless steel



P0396 - Tolerance Rings - Hole Variable - HV Type

Tolerance Rings - Hole Variable- HV type.
A2 stainless steel



P0182 - Blanking Plugs - Heavy Duty

Blanking Plugs Heavy Duty. Metric & BSPP.
Steel, stainless steel or brass



☰ Products



Mechanical Components >

Blanking Plugs, Springs & Tolerance Rings



P0397 - Bearing Tolerance Rings

Bearing Tolerance Rings. Stainless steel



P0183 - Blanking Plugs with Collar

Blanking Plugs with Collar, metric & BSPP. Steel, stainless steel or brass



P0184 - Blanking Plugs

Blanking Plugs, Metric & BSPT. Steel SC & ZP, stainless A2 & A4, brass



P0184.NL - Blanking Plugs - Level Seal

Blanking Plugs - Level Seal, NPTF. Steel, A4 stainless or brass



P0184.NPT - Blanking Plugs - Dry Seal

Blanking Plugs - Dry Seal, NPT and NPTF. Stainless, A2 and A4 or brass



P0187 - Hexagon Blanking Plugs

Hexagon Blanking Plugs. Steel ZP and SC, stainless A4 or brass



Mechanical Components ▶ Lifting Pins, Lifting Bolts & Swing Bolts

Lifting Pins, Lifting Bolts & Swing Bolts

Lifting rings, bolts & swing bolts pins are essential tools for heavy lifting, efficiently hoisting and repositioning heavy loads. They easily secure in place, providing reliable support during lifting operations. Their user-friendly design outperform traditional options in installation and removal speed, reliability and durability. Ideal for routine hoisting in

warehouses and construction sites where regular lifting is required.



Automation AN ESSENTRA COMPANY



Swivel Lifting Pins

Automation AN ESSENTRA COMPANY



Quick Lift Pins

Automation AN ESSENTRA COMPANY



Swing Bolts

Automation AN ESSENTRA COMPANY



Eye Bolts



Products



Lifting Pins, Lifting Bolts & Swing Bolts



Lifting Pins, Lifting Bolts & Swing Bolts



P4074 - Quick Lift Pins - Self Locking

Quick Lift Pins - Self Locking. Heat treated steel



P4075 - Quick Lift Pins - Self Locking

Quick Lift Pins - Self Locking, stainless steel



P4002 - Swivel Eye Bolts - Male

Swivel Eye Bolts Male. Steel



P4004 - Swivel Eye Nuts - Female

Swivel Eye Nuts Female, female. Steel



P4003 - Swivel Eye Bolts - Male

Swivel Eye Bolts Male, male: stainless steel 316L



P4005 - Double Swivel Rings - Male

Double Swivel Rings Male. Steel



P4006 - Double Swivel Nuts - Female

Double Swivel Nuts Female. Steel



P4008 - Double Swivel Shackles - Male

Double Swivel Shackles Male. Steel



P4010 - Double Swivel Shackle Nuts - Female

Double Swivel Shackle Nuts Female. Steel



P4011 - Mega Double Swivel Shackles - Male

Mega Double Swivel Shackles Male. Steel



P4012 - Double Swivel Lifting Points

Double Swivel Lifting Points, for wire rope. Steel



P4017 - Double Swivel Hooks - Male

Double Swivel Hooks Male. Steel



Products



Lifting Pins, Lifting Bolts & Swing Bolts



Lifting Pins, Lifting Bolts & Swing Bolts



P4015 - Triple Swivel Rings - Male

Triple Swivel Rings Male. Steel



P4020 - Stainless Double Swivel Rings

Stainless Double Swivel Rings



P4021 - Stainless Double Swivel Nuts

Stainless Double Swivel Nuts



P4022 - Stainless Double Swivel Rings

Stainless Double Swivel Rings



P4023 - Stainless Double Swivel Nuts

Stainless Double Swivel Nuts



P4030 - Fall Arrest Swivel Rings

Fall Arrest Swivel Rings. Steel



P4040 - Steel Male Lifting Eye Bolts

Steel Male Lifting Eye Bolts, metric sizes. Steel



P4041 - Steel Female Lifting Eye Bolts

Steel Female Lifting Eye Bolts, metric sizes. Steel



P4043 - Stainless Male Lifting Eye Bolts

Stainless Male Lifting Eye Bolts, metric sizes. Stainless steel



P4044 - Stainless Female Lifting Eye Bolts

Stainless Female Lifting Eye Bolts, metric sizes. Stainless steel



P4046 - Steel Male Lifting Eye Bolts

Steel Male Lifting Eye Bolts, inch sizes. Steel



P4048 - Steel Female Lifting Eye Bolts

Steel Female Lifting Eye Bolts, inch sizes. Steel



☰ Products



Lifting Pins, Lifting Bolts & Swing Bolts



Lifting Pins, Lifting Bolts & Swing Bolts



P4180 - Clamping Nuts

Clamping Nuts. Steel or stainless steel



P0070 - Swing Bolts

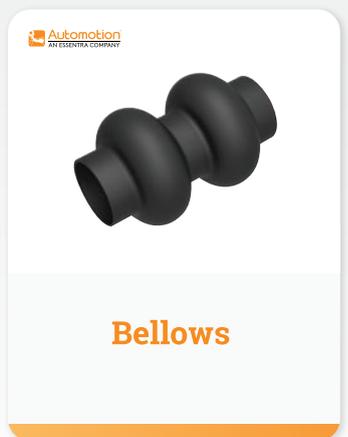
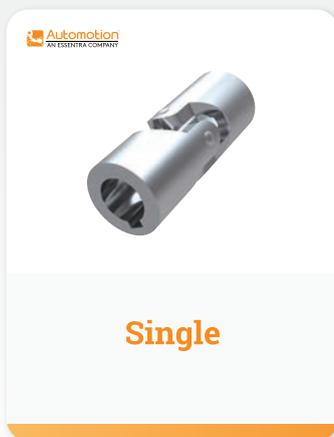
Swing Bolts. A2 or A4 stainless steel, brass, self-colour or zinc-plated steel



Universal Joints

A universal joint is a solid coupling enabling the connection of two rotating shafts. These joints feature bearings allowing the transmission of torque and rotary motion between non-aligned shafts, with a maximum operational bending angle per bearing of 45 degrees. Available in steel and stainless steel, with protective bellows against dirt

ingress, our extensive range includes plain and needle roller bearing variants, pre-bored or unbored options, single and double universal joints, as well as telescopic variants in steel and stainless steel.



An overview of Universal Joints

A universal joint is a solid coupling that allows two rotating shafts to be connected together. The bearing in the universal joints allow the transmission.



R3685
Double universal joint

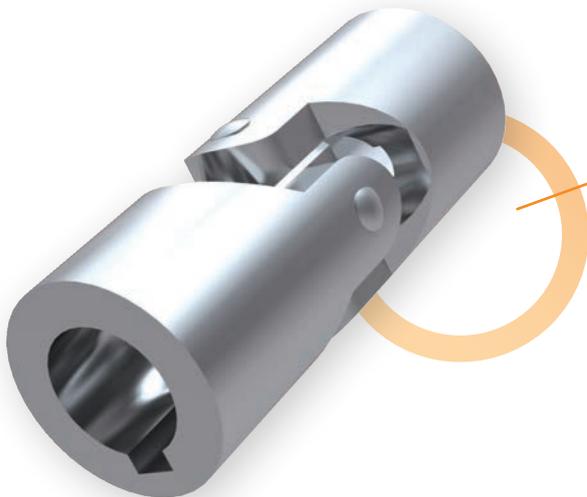
Double universal joints to DIN 808 with plain bearings. Also available in stainless steel (R3696) and needle roller bearings (R3686).



R3680
Telescopic universal joints

Telescopic universal joints are used when two shafts that need connecting are positioned as such that a standard universal joint is too small to reach.

R3689 : SINGLE UNIVERSAL JOINT



R3689

Single universal joints to DIN 808 with plain bearings. Also available in stainless steel (R3694) and needle roller bearings (R3690).



R3687
Single universal joint

Solid end single universal joints allow the end user to either weld to existing shafts or bore out to their own exact requirements.



R3683
Double universal joint

Solid end double universal joints allow the end user to either weld to existing shafts or bore out to their own exact requirements.



Products



Universal Joints & Rod Ends



Universal Joints



R3680 - Telescopic Universal Joints

Telescopic Universal Joint. Steel. Plain bearing. To DIN 808



R3681 - Stainless Telescopic Universal Joints

Stainless Telescopic Universal Joint. Plain bearing. To DIN 808



R3683 - Double Universal Joint

Double Universal Joint - unbored, solid ends. Steel. Plain bearing. To DIN 808



R3684 - Double Universal Joint

Double Universal Joint - round bored or keyway. Steel. Plain bearing. To DIN 808/7551



R3685 - Double Universal Joint

Double Universal Joint - round bored or keyway. Steel. Plain bearing. To DIN 808



R3686 - Double Universal Joint

Double Universal Joint. Needle roller bearing. Steel. Plain bearing. To DIN 808



R3696 - Stainless Double Universal Joint

Stainless Double Universal Joint - round bore or keyway. AISI 304. To DIN 808



R3697 - Stainless Double Universal Joint

Stainless Double Universal Joint - unbored, solid ends. AISI 304. Plain bearing. To DIN 808



R3687 - Single Universal Joint

Single Universal Joint - unbored, solid ends. Steel. Plain bearing. To DIN 808



R3688 - Single Universal Joint

Single Universal Joint - round bored or keyway. Steel. Plain bearing. To DIN 808/7551



R3689 - Single Universal Joint

Single Universal Joint - round bored or keyway. Steel. Plain bearing. To DIN 808



R3690 - Single Universal Joint

Single Universal Joint. Needle roller bearing. Steel. Round, Hex, Square bored or with keyway. To DIN 808



Products



Universal Joints & Rod Ends



Universal Joints



R3694 - Stainless Single Universal Joint

Stainless Single Universal Joint - round bored or keyway. AISI 304. Plain bearing. To DIN 808



R3695 - Stainless 304 Single Universal Joint

Stainless Single Universal Joint - unbored, solid ends. AISI 304. Plain bearing. To DIN 808



R3698 - Stainless 316 Single Universal Joint

Stainless AISI 316 Single Universal Joint - unbored, solid ends. Plain bearing. To DIN 808



R3691 - Bellows

Bellows for single universal joints. Rubber



R3692 - Bellows

Bellows for double universal joints. Rubber



R3693 - Universal Joint

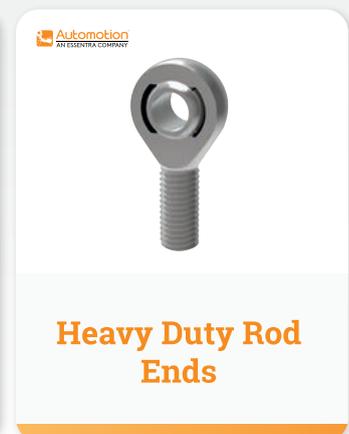
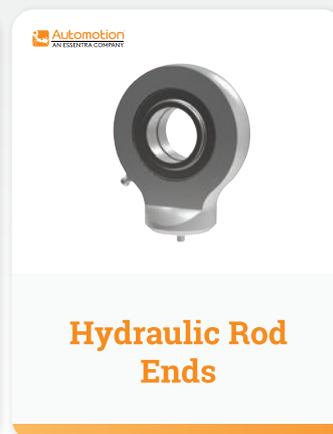
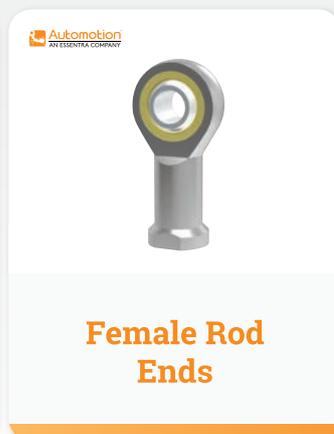
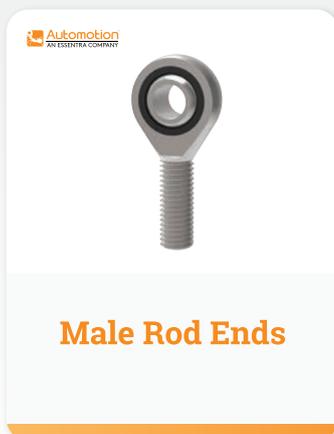
Universal joint with quick change coupling. Steel. Plain bearing. To DIN 808



Rod Ends

Rod ends, also known as heim joints or rose joints, are articulating joints used on the ends of control and tie rods, offering precision and robust load-bearing capabilities. It comprises a spherical bearing located in a housing with either a male or female thread to enable easy installation. A connecting bolt or shaft is located through the spherical bearing

which allows for some angular misalignment. Ideal for applications where standard clevis or ball joints may lack precision, our rod ends ensure versatility and reliability.



An overview of Rod Ends

A rod end is an articulating joint typically used on the ends of control rods or tie rods where a clevis joint or ball joint is not precise enough or not capable of taking the loads involved in the application.



R3550
Heavy duty rod ends - male

Heavy duty male rod end with plain bearing. This K series rod end is maintenance free, ideal for applications with vibrating or shock loads. Also available in stainless steel (R3565).



R3576
Stainless rod end - female

Stainless steel female rod end from our economy range. Also available in zinc plated steel (R3570).

R3551 : HEAVY DUTY ROD ENDS - FEMALE



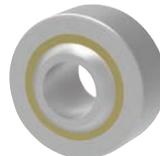
R3551

Heavy duty female rod end with plain bearing. This K series rod end is maintenance free and ideal for applications with vibrating or shock loads. Also available in stainless steel (R3566).



R3577
Stainless rod end - male

Stainless steel male rod end from our economy range. Also available in zinc plated steel (R3571).



R3640
Spherical plain bearing

Spherical plain bearings are used when the articulating joint needs to be held within a housing and the threaded portion of a standard rod end is not required.



Products



Universal Joints & Rod Ends >

Rod Ends



R3550 - Heavy Duty Rod Ends - Male

Male. K series. Steel. Heavy duty rod end, with integral spherical plain bearing. Maintenance free



R3550.i - Heavy Duty Rod Ends - Male

Male. K series. Imperial. Steel. Heavy duty rod end. Maintenance free



R3551 - Heavy Duty Rod Ends - Female

Female. K series. Steel. Heavy duty rod end, with integral spherical plain bearing. Maintenance free



R3551.i - Imperial Heavy Duty Rod End

Female. K series. Imperial. Steel. Heavy duty rod end. Maintenance free



R3553 - Heavy Duty Rod Ends - Male

Male. E series. Steel. Heavy duty rod end, with integral spherical plain bearing. Maintenance free



R3554 - Heavy Duty Rod Ends - Female

Female. E series. Steel. Heavy duty rod end, with integral spherical plain bearing. Maintenance free



R3556 - Heavy Duty Rod Ends - Male

Heavy-Duty Rod Ends - Male, with integral ball bearing. Steel



R3557 - Heavy Duty Rod Ends - Female

Heavy-Duty Rod Ends - Female, with integral ball bearing. Steel



R3559 - Heavy Duty Rod Ends - Male

Heavy-Duty Rod Ends - Male, with integral ball bearing. Steel



R3560 - Heavy Duty Rod Ends - Female

Heavy-Duty Rod Ends - Female, with integral ball bearing. Steel



R3561 - Heavy Duty Rod Ends - Male

Heavy-Duty Rod Ends - Male, with integral roller bearing. Steel



R3562 - Heavy Duty Rod Ends - Female

Heavy-Duty Rod Ends - Female, with integral roller bearing. Steel



Products



Universal Joints & Rod Ends >

Rod Ends



R3563 - Stainless Heavy Duty Rod Ends - Male

Stainless Heavy-Duty Rod Ends - Male, with integral ball bearing. Stainless steel



R3564 - Stainless Heavy Duty Rod Ends - Female

Stainless Heavy-Duty Rod Ends - Female, with integral self-aligning ball bearing. Steel



R3565 - Stainless Heavy Duty Rod Ends - Male

Male. A2 stainless steel. Heavy duty rod ends, with integral spherical plain bearing. Maintenance free



R3566 - Stainless Heavy Duty Rod Ends - Female

Female. A2 stainless steel. Heavy duty rod ends, with integral spherical plain bearing. Maintenance free



R3567 - Stainless Heavy Duty Rod Ends - Male

Stainless Heavy-Duty Rod Ends - Male, with integral spherical plain bearing. Stainless steel



R3568 - Stainless Heavy Duty Rod Ends - Female

Stainless Heavy-Duty Rod Ends - Female, with integral spherical plain bearing. Stainless steel



R3570 - Low Cost Rod End - Female

Female, low cost rod end, with teflon bearing race. Steel



R3571 - Low Cost Rod End - Male

Male, low cost rod end, with teflon bearing race. Steel



R3573 - Low Cost Rod End - Male

Low Cost Rod End - Male, with integral spherical plain bearing. Steel



R3574 - Low Cost Rod End - Female

Low Cost Rod End - Female, with integral spherical plain bearings. Steel



R3576.A2 - Stainless Low Cost Rod Ends

Female, A2 stainless steel, low cost rod end. Series K. Maintenance free



R3576.A4 - Stainless Low Cost Rod Ends

Female, A4 stainless steel, low cost rod end. Series K. Maintenance free



Products



Universal Joints & Rod Ends



Rod Ends



R3577.A2 - Stainless Low Cost Rod Ends

Male, A2 stainless steel, low cost rod end



R3577.A4 - Stainless Low Cost Rod Ends

Male, A4 stainless steel, low cost rod end



R3620 - Hydraulic Rod Ends

Hydraulic Rod Ends, weld-on base. Steel



R3621 - Hydraulic Rod Ends

Hydraulic Rod Ends, stainless steel.



R3622 - Hydraulic Rod Ends

Hydraulic Rod Ends, weld-on base. Steel



R3623 - Hydraulic Rod Ends

Hydraulic Rod Ends, stainless steel.



R3624 - Hydraulic Rod Ends

Hydraulic Rod Ends, with female thread. Steel



R3625 - Hydraulic Rod Ends

Hydraulic Rod Ends, stainless steel.



R3626 - Hydraulic Rod Ends

Hydraulic Rod Ends, with female thread and locking nuts. Steel



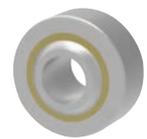
R3627 - Hydraulic Rod Ends

Hydraulic Rod Ends, stainless steel.



R3628 - Hydraulic Rod Ends

Hydraulic Rod Ends, with female thread and locking nuts. Steel



R3640 - Spherical Plain Bearings

Spherical plain bearing. Steel. To DIN 12240-1

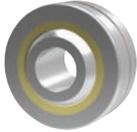


☰ Products



Universal Joints & Rod Ends >

Rod Ends



R3642 - Stainless Spherical Plain Bearings

Spherical plain bearing. Stainless steel. Maintenance free, series K. Similar to DIN 12240-1 (DIN 648)



Clevis Joints & Accessories

A clevis joint is a type of coupling where the mating component fits between the forks and is held in place via a clevis pin. Made to DIN 71752 and also known as a fork end or yoke, they are commonly used as a coupling on the end of air cylinders or at either end of a turnbuckle or wire rope for tensioning. As these are specialist parts, don't hesitate to

get in touch with our technical engineers who can help with calculations and choose the right products for your application.



An overview of Clevis Joints

A clevis joint is a type of coupling where the mating components fits between the forks and is held in place via a clevis pin. Made to DIN 71752 and also known as a fork end or yoke, they are commonly used as a coupling on the end of air cylinders or at either end of a turnbuckle or wire rope for tensioning.



R3435
Clevis retention clips

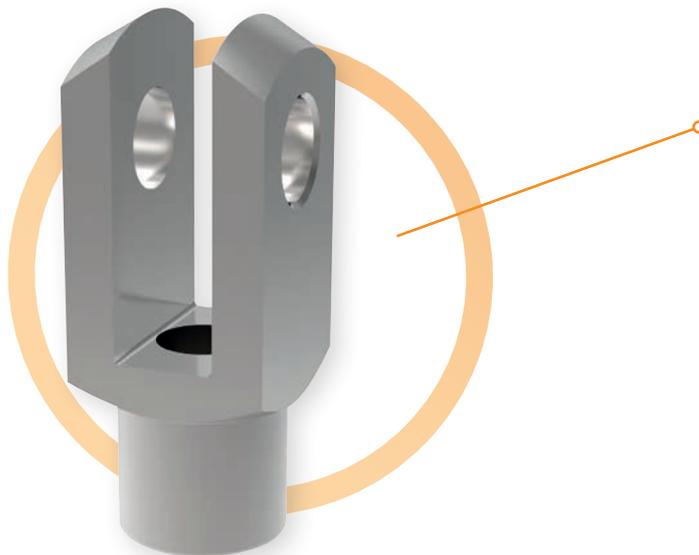
Clevis retention clips designed purposely to fit and work with our R3385 clevis joints are perfect for time saving quick assembly.



R3450
Clevis pin

Clevis pins designed for use with our clevis joints and R3440 safety fasteners.

R3385 : STEEL CLEVIS JOINTS



R3385

Steel clevis joint to DIN 71752. Also available in stainless steel (R3402) and left hand thread (R3386). We stock thousands of clevises in a wide range of sizes to enable quick delivery to our customers.



R3440
Safety fasteners

Safety fasteners for use with our R3450 clevis pins and R3385 clevis joints. These clips can be installed and removed without the need for additional hand tools making them the ideal solution instead of circlips.



R3420
Mating piece for clevis

Female clevis mating pieces designed specifically for use with our clevis joints, fitting perfectly between the forks of the clevis to create a flexible fastening assembly.



Products



Clevis Joints, Turnbuckles & Ball & Socket Joints



Clevis Joints & Clips



R3385 - Steel Clevis Joints

Steel Clevis Joint, silver zinc plated. Right hand. Coarse or fine thread



R3386 - Steel Clevis Joints

Steel Clevis Joint, silver zinc plated. Left hand. Coarse or fine thread



R3387 - Steel Clevis Joints with Retention Clips

Steel Clevis Joint with retention clip. Silver zinc plated. Right hand. Coarse or fine thread



R3388 - Steel Clevis Joints with Retention Clips

Steel Clevis Joint with retention clip. Silver zinc plated. Left hand. Coarse or fine thread



R3389 - Steel Clevis Joints with Pin

Steel Clevis Joint with pin. Silver zinc plated. Right hand. Coarse or fine thread



R3390 - Steel Clevis Joints with Pin

Steel Clevis Joint with pin. Silver zinc plated. Left hand. Coarse or fine thread



R3400 - RH Clevis Joints with Retention Clip S/S

Stainless steel Clevis Joint with retention clip. Right hand. Coarse or fine thread



R3401 - LH Clevis Joints with Retention Clip S/S

Stainless steel Clevis Joint with retention clip. Left hand. Coarse or fine thread



R3402 - Stainless Clevis Joints

Stainless steel A2 Clevis Joint. Right hand. Coarse or fine thread



R3402.A4 - Stainless Clevis Joints

Stainless steel A4 Clevis Joint. Right hand. Coarse or fine thread



R3403 - Stainless Clevis Joints

Stainless steel A2 Clevis Joint. Left hand. Coarse or fine thread



R3404 - Stainless Clevis Joints with Pin

Stainless steel A2 Clevis Joint with pin. Right hand. Coarse or fine thread



Products



Clevis Joints, Turnbuckles & Ball & Socket Joints



Clevis Joints & Clips



R3405 - Stainless Clevis Joints with Pin

Stainless steel A2 Clevis Joint with pin. Left hand. Coarse or fine thread



R3406 - Stainless Clevis Joints with Pin

Stainless steel A2 Clevis Joint with pin. Right hand. Coarse or fine thread



R3407 - Stainless Clevis Joints with Pin

Stainless steel A2 Clevis Joint with pin. Left hand. Coarse or fine thread



R3409 - Plastic Clevis Joints

Plastic Clevis Joint. Left or right hand. Coarse or fine thread



R3410 - Male Clevis Joints

Male Clevis Joint, steel, silver zinc plated. Right hand



R3411 - Male Clevis Joints

Male Clevis Joint, steel, silver zinc plated. Left hand



R3416 - Stainless Male Clevis Joints

Male Clevis Joint, stainless steel A2. Right hand



R3428 - Clevis Pin with Thread

Clevis Pin with thread. Stainless steel A2. To DIN 1445



R3417 - Stainless Male Clevis Joints

Male Clevis Joint, stainless steel A2. Left hand



R3420 - Mating Piece for Clevis Joints

Mating Piece for Clevis Joint. Right hand. Steel, silver zinc plated



R3421 - Mating Piece for Clevis Joints

Mating Piece for Clevis Joint. Left hand. Steel, silver zinc plated



R3426 - Stainless Mating Piece for Clevis Joints

Mating Piece for Clevis Joint. Right hand. Stainless steel A2



R3427 - Stainless Mating Piece for Clevis Joints

Mating Piece for Clevis Joint. Left hand. Stainless steel A2



R3435 - Clevis Retention Clips

Clevis Retention Clip. Steel, silver zinc plated



R3436.i - Clevis Retention Clips - Imperial

Imperial Clevis Retention Clip, Steel, yellow zinc plated



R3437 - Plastic Clevis Retention Clips

Plastic Clevis Retention Clip



R3438 - Clevis Retention Clips

Clevis Retention Clip. Stainless steel A2



R3440 - Safety Fastener (SLM)

Safety Fastener (SLM). Steel, silver zinc plated



R3441.i - Safety Fastener - Imperial (SLI)

Imperial Safety Fastener (SLI) for bolts & shafts. Steel, yellow zinc plated



R3444 - Safety Fastener (KLM)

Safety Fastener (KLM). Steel, silver zinc plated



R3446 - Plastic Circlips

Plastic Circlips. Black



R3447 - Stainless Circlips

Stainless steel Circlips. A2. To DIN 471



R3448 - Steel Cotter Pin

Steel Cotter Pin, silver zinc plated



R3449 - Stainless Cotter Pins

Stainless steel Cotter Pin. A2. To DIN 94 (equivalent to ISO 1234)



☰ Products



Clevis Joints, Turnbuckles & Ball & Socket Joints >

Clevis Joints & Clips



R3450 - Clevis Pins

Clevis Pin with groove, silver zinc plated



R3453 - Plastic Clevis Pins

Plastic Clevis Pin. Black



R3454 - Stainless Clevis Pins

Stainless steel Clevis Pin. A2



R3455 - Steel Clevis Pin with Hole

Steel Clevis Pin With Hole. Steel, zinc plated



R3456 - Stainless Clevis Pin with Hole

Stainless Steel Clevis Pin With Hole



Turnbuckles

Turnbuckles, also referred to as tensioners, are used to adjust the length or tension of cables, rods, and wires. By rotating the turnbuckle body, you can easily tighten or loosen the attached cable. We offer a wide selection of industrial-grade, heavy-duty turnbuckles in both steel and corrosion-resistant stainless steel. For full customization, explore our

range of tensioner end types available in the turnbuckle accessories section on our website.



R3800 - Pipe Body Turnbuckles

Pipe Body Turnbuckles. Steel, zinc-plated



R3804 - Stud End Pipe Body Turnbuckles

Stud End Pipe Body Turnbuckles. Steel, zinc-plated



R3816 - Hook End Pipe Body Turnbuckles

Hook End Pipe Body Turnbuckles. Steel, zinc-plated



Products



Clevis Joints, Turnbuckles & Ball & Socket Joints



Turnbuckles



R3808 - Eye End Pipe Body Turnbuckles

Eye End Pipe Body Turnbuckles, steel



R3812 - Hook & Eye Pipe Body Turnbuckles

Hook & Eye Pipe Body Turnbuckles, steel



R3820 - Jaw End Pipe Body Turnbuckles

Jaw End Pipe Body Turnbuckles, steel



R3802 - Pipe Body Turnbuckles

Pipe Body Turnbuckles, stainless steel



R3806 - Stud End Pipe Body Turnbuckles

Stud End Pipe Body Turnbuckles, stainless steel



R3810 - Eye End Pipe Body Turnbuckles

Eye End Pipe Body Turnbuckles, stainless steel



R3814 - Hook & Eye Pipe Body Turnbuckles

Hook & Eye Pipe Body Turnbuckles, stainless steel



R3818 - Hook End Pipe Body Turnbuckles

Hook End Pipe Body Turnbuckles, stainless steel



R3830 - Turnbuckles

Turnbuckles, steel. To DIN 1480



R3834 - Stub End Turnbuckles

Stub End Turnbuckles, steel. To DIN 1480, stub end



R3838 - Plain End Turnbuckles

Plain End Turnbuckles, steel. To DIN 1480, plain end



R3840 - Eye End Turnbuckles

Eye End Turnbuckles, steel. To DIN 1480, eye to eye



Products



Clevis Joints, Turnbuckles & Ball & Socket Joints



Turnbuckles



R3844 - Hook End Turnbuckles

Hook End Turnbuckles, steel. To DIN 1480, hook to hook



R3848 - Jaw End Turnbuckles

Jaw End Turnbuckle, steel. To DIN 1480, jaw to jaw



R3850 - Hook & Eye Turnbuckles

Hook & Eye Turnbuckles, steel. To DIN 1480, hook & eye



R3836 - Stub End Turnbuckles

Stub End Turnbuckles, stainless steel. To DIN 1480, stub end



R3842 - Eye End Turnbuckles

Eye End Turnbuckles, stainless steel. To DIN 1480, eye to eye



R3846 - Hook End Turnbuckles

Hook End Turnbuckles, stainless steel. To DIN 1480, hook to hook



R3832 - Turnbuckles

Turnbuckles, stainless steel. To DIN 1480



R3852 - Hook & Eye Turnbuckles

Hook & Eye Turnbuckles, stainless steel. To DIN 1480, hook & eye



R3825 - Hexagonal Body Turnbuckles

Hexagonal Body Turnbuckles, steel. To DIN 1479



R3826 - Hexagonal Body Turnbuckles

Hexagonal Body Turnbuckles, stainless steel. To DIN 1479



R3860 - Eye for Turnbuckles

Eyes for Turnbuckles. Steel, zinc plated



R3862 - Hooks for Turnbuckles

Hooks for Turnbuckles, steel



☰ Products



Clevis Joints, Turnbuckles & Ball & Socket Joints >

Turnbuckles



R3864 - Jaws for Turnbuckles

Jaws for Turnbuckles, steel. Right or left hand thread



R3866 - Welding Studs

Welding Studs, steel. Right or left hand thread. To DIN 34828



R3868 - Welding Studs

Welding Studs, stainless steel. Right or left hand thread. To DIN 34828



Ball & Socket Joints

Ball and socket joints, commonly a 90° joint, facilitate movement and rotation in various directions as a partial ball turns within a socket. Manufactured to DIN 71802 standards, our extensive stock includes right-angled, in-line, lockable, and quick-release ball and socket joints. Available in steel or stainless steel and with rubber gaitors

to protect against dirt. With such a wide range of options we are sure to have the right joint for your application.



Automotion AN ESSENTRA COMPANY



Ball & Socket

Automotion AN ESSENTRA COMPANY



Axial Ball & Socket

Automotion AN ESSENTRA COMPANY



Lockable

Automotion AN ESSENTRA COMPANY



Threaded Ball Stud

An overview of Ball & Socket Joints

A ball a socket joint is a 90 degree coupling or linkage that is typically used on the end of tie bars to connect two components together whilst allowing for some articulating movements.



R3460
Ball and socket joint

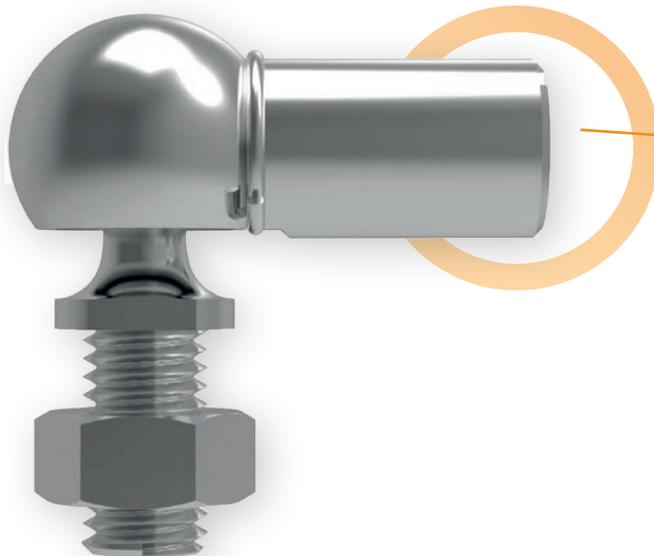
Ball and socket joint to DIN 71802 from CS. Also available in stainless steel (R3466) and left hand thread (R3461).



R3526
Threaded ball stud

Threaded ball studs to DIN 71803 are used in applications that require them to be regularly connected and disconnected from the mating socket piece.

R3468 : STAINLESS BALL AND SOCKET JOINTS



R3468

These ball and socket joints are new to our range and held in stock for immediate dispatch. They are manufactured from AISI 316 stainless steel making them perfect for use in outside or marine applications.



R3500
Axial ball and socket joint

Automation Components range of axial ball and socket joints perform the same function as a standard ball and socket joint but in a straight line rather than a 90 degree angle. Also available in stainless steel (R3506) and left hand thread (R3501).



R3490
Ball and socket joint

A ball a socket joint with a rubber cap to stop dirt ingress into the main joint, plus some spanner flats on the housing to aid installation. Also available in stainless steel (R3496) and left hand thread (R3491).



☰ Products



Clevis Joints, Turnbuckles & Ball & Socket Joints >

Ball & Socket Joints



R3460 - Ball and Socket Joints

Ball and Socket Joints. Steel



R3461 - Ball and Socket Joints

Ball and Socket Joints, left hand thread. Steel



R3466 - Stainless Ball and Socket Joints

Stainless Ball and Socket Joints. Stainless steel



R3467 - Stainless Ball and Socket Joints

Stainless Ball and Socket Joints, left hand thread. Stainless steel



R3468 - Stainless Ball and Socket Joints

Stainless Ball and Socket Joints, A4 stainless steel. Stainless steel



R3470 - Ball and Socket Joints

Ball and Socket Joints, with sealing cap. Steel



R3471 - Ball and Socket Joints

Ball and Socket Joints, with sealing cap - left hand thread. Steel



R3476 - Stainless Ball and Socket Joints

Stainless Ball and Socket Joint, with sealing cap. Stainless steel



R3477 - Stainless Ball and Socket Joints

Stainless Ball and Socket Joint, with sealing cap - left hand thread. Stainless steel



R3490 - Ball and Socket Joints

Ball and Socket Joint, with flats on housing. Steel



R3491 - Ball and Socket Joints

Ball and Socket Joint, left hand thread - with flats on housing. Steel



R3496 - Stainless Ball and Socket Joints

Stainless Ball and Socket Joint, with flats on housing. Stainless steel



☰ Products



Clevis Joints, Turnbuckles & Ball & Socket Joints >

Ball & Socket Joints



R3497 - Stainless Ball and Socket Joints

Stainless Ball and Socket Joint, left hand thread - with flats on housing. Stainless steel



R3520 - Plastic Ball and Socket Joints

Plastic Ball and Socket Joint. Plastic thread. Stainless steel



R3500 - Axial Ball and Socket Joints

Axial Ball and Socket Joints. Steel



R3501 - Axial Ball and Socket Joints

Axial Ball and Socket Joints, left hand thread. Steel



R3506 - Stainless Axial Ball and Socket Joints

Stainless Axial Ball and Socket Joints. Stainless steel



R3507 - Stainless Axial Ball and Socket Joints

Stainless Axial Ball and Socket Joints, left hand thread. Stainless steel



R3524 - Ball Joint - Housing Only

Ball Joint - Housing Only. Steel



R3526 - Threaded Ball Studs

Threaded Ball Studs. Steel



R3527 - Rivet Studs

Rivet Studs. Steel



R3528 - Stainless Threaded Ball Studs

Stainless Threaded Ball Studs. Stainless steel



R3530 - DMG Ball and Socket Joints

DMG Ball and Socket Joints. Steel



R3532 - Stainless DMG Ball and Socket Joints

Stainless DMG Ball and Socket Joint. Stainless steel



☰ Products



Clevis Joints, Turnbuckles & Ball & Socket Joints >

Ball & Socket Joints



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R3535 - Quick Release Ball Joints - Imperial

Quick Release Ball Joints, A2 stainless or steel, zinc-plated. Stainless steel

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R3540 - Lockable Ball Joints

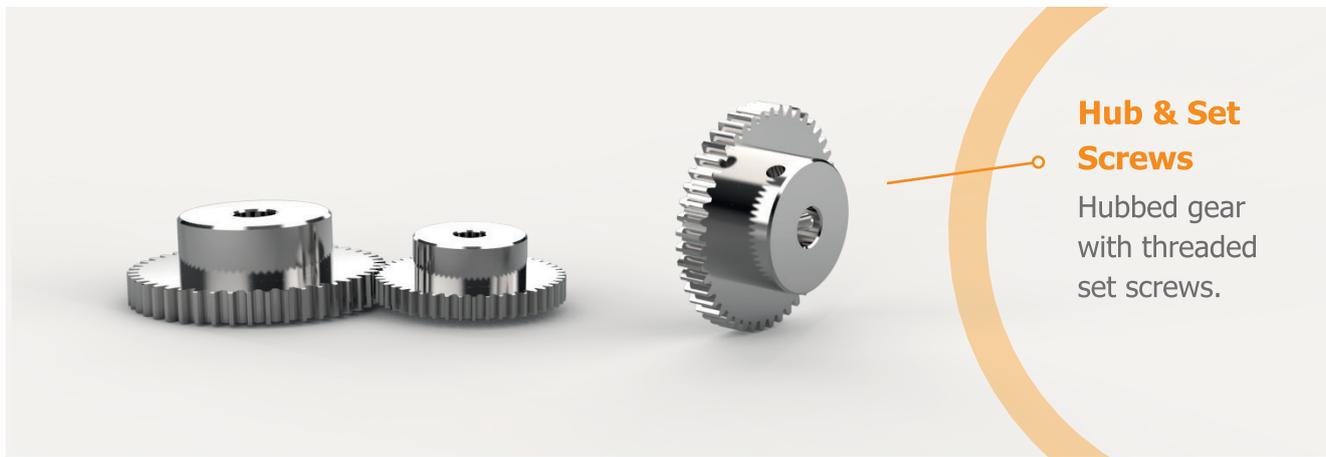
Lockable Ball joint. Steel

An overview of Standard Spur Gears

Our range of spur gears come in a variety of different styles making it easy to design them into your application.



VIEW THE FULL RANGE



Hub & Set Screws

Hubbed gear with threaded set screws.

Spur Gears with hub and set screws. The most user friendly option as no other machining is required. Put the gear onto the shaft and hold in place by tightening 2 grub screws.



PLAIN HUB

Spur gears with plain hub. These gears have a plain hub to allow users to machine further if required. Typically attached to a shaft by drilling and pinning or machining own desired grub screw size and location.



HUBLESS

Hubless spur gears, as the name suggests, these spur gears offer a solution where space is tight as they do not have a hub. To aid installation and to stop them spinning around the mating shaft in use, they come with a keyway.



TEETH CUT INTO HUB

Teeth cut into hub. In order to keep a reasonable sized hub and bore size, for smaller gears the full depth teeth are cut into the bar.



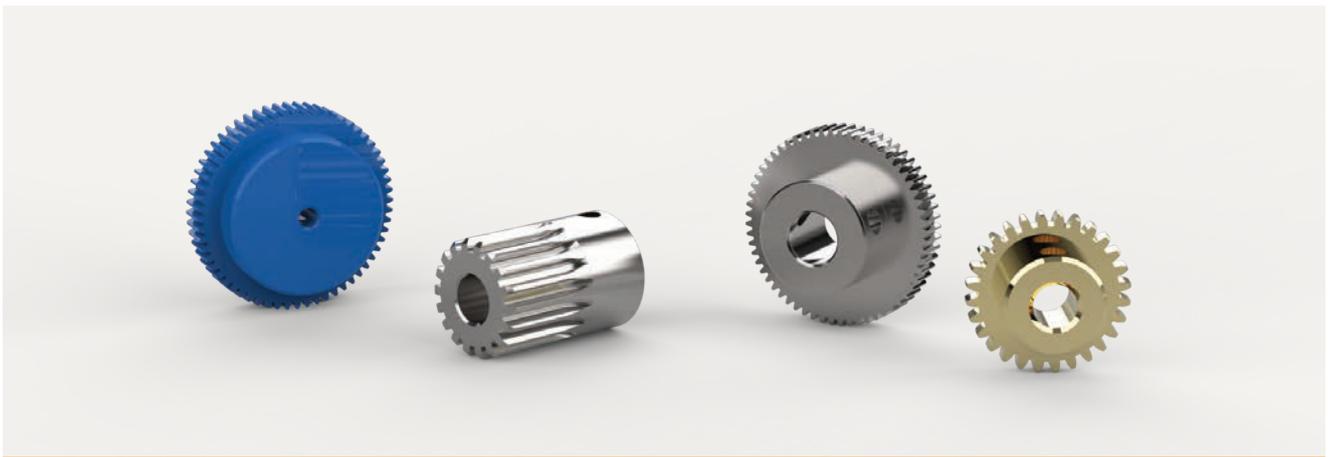
SPUR GEARS WITH SHAFTS

Spur gear with plain shafts. On gears with a very small number of teeth for applications that do not require a bore in order for them to be fitted onto a shaft. Small shafts either side allow them to be fitted into bearings, couplings etc.

Spur Gears Overview

Material Options

Our range of spur gears are available in a variety of different materials. This page gives you an overview as to the material options available.



CARBON STEEL

Carbon steel (ISO C45). Accuracy to JIS B 1702-1 (ISO) class 8, induction hardened class 9. A cost effective solution where corrosion is not an issue.



BRASS

Brass (C3604B). Accuracy to JIS B 1702-1 (ISO) class 9. Ideal for use in low load, non-magnetic environments.



STAINLESS STEEL

Stainless steel (SUS 304, JIS G 4303). Accuracy to JIS B 1702-1 (ISO) class 9. Ideal for use in environments where additional corrosion resistance is required.



PLASTIC

Blue polyacetal, suitable for use in food machinery applications. Accuracy to JIS B 1702-1 (ISO) class 9-10. Approved by the FDA (USA) and by regulators in the EU & Japan, where the food has an alcohol % of <15%.



☰ Products



Gears, Gear Boxes & Belts >

Standard Spur Gears



R5100 - Spur Gears - Module 0.3

Spur Gears - Module 0.3, brass - 14-18 teeth



R5101 - Spur Gears - Module 0.3

Spur Gears - Module 0.3, brass - 20-120 teeth



R5104 - Spur Gears - Module 0.5

Spur Gears - Module 0.5
, stainless steel - 10-15 teeth



R5105 - Spur Gears - Module 0.5

Spur Gears - Module 0.5, stainless steel - 16-30 teeth



R5106 - Spur Gears - Module 0.5

Spur Gears - Module 0.5, stainless steel - 16-20 teeth



R5108 - Spur Gears - Module 0.5

Spur Gears - Module 0.5, stainless steel - 32-120 teeth



R5117 - Spur Gears - Module 0.5 - Plastic

Spur Gears - Module 0.5 - Plastic, blue polyacetal - 14-18 teeth



R5120 - Spur Gears - Module 0.5 - Plastic

Spur Gears - Module 0.5 - Plastic, blue polyacetal - 20- 120 teeth



R5121 - Spur Gears - Module 0.5

Spur Gears - Module 0.5, carbon steel - 10-14 teeth. Steel



R5123 - Spur Gears - Module 0.5 - Steel

Spur Gears - Module 0.5, steel, carbon steel - 15-24 teeth



R5125 - Spur Gears - Module 0.5 - Steel

Spur Gears - Module 0.5, steel, carbon steel - 25-120 teeth



R5126 - Spur Gears - Module 0.75 - Stainless

Spur Gears - Module 0.75 - stainless steel - 10 teeth



☰ Products



Gears, Gear Boxes & Belts >

Standard Spur Gears



R5128 - Spur Gears - Module 0.75 - Steel

Spur Gears - Module 0.75, carbon steel - 14-15 teeth



R5129 - Spur Gears - Module 0.75 - Stainless

Spur Gears - Module 0.75, stainless steel - 16-120 teeth



R5130 - Spur Gears - Module 0.75 - Brass

Spur Gears - Module 0.75, brass - 10-12 teeth



R5132 - Spur Gears - Module 0.75 - Brass

Spur Gears - Module 0.75, brass - 14-20 teeth



R5133 - Spur Gears - Module 0.75 - Brass

Spur Gears - Module 0.75, brass - 16-48 teeth



R5135 - Spur Gears - Module 0.75 - Brass

Spur Gears - Module 0.75, brass - 50-120 teeth - hubless



R5136 - Spur Gears - Module 0.75 - Brass

Spur Gears - Module 0.75, brass - 50-120 teeth



R5137 - Spur Gears - Module 0.75 - Steel

Spur Gears - Module 0.75, steel, carbon steel - 10-12 teeth



R5138 - Spur Gears - Module 0.75 - Steel

Spur Gears - Module 0.75, carbon steel - 14-15 teeth. Steel



R5140 - Spur Gears - Module 0.75 - Steel

Spur Gears - Module 0.75, carbon steel - 16-120 teeth. Steel



R5141 - Spur Gears - Module 0.8 - Stainless

Spur Gears - Module 0.8, stainless steel - 10-12 teeth



R5142 - Spur Gears - Module 0.8 - Stainless

Spur Gears - Module 0.8, stainless steel - 14-15 teeth



Products



Gears, Gear Boxes & Belts



Standard Spur Gears



R5144 - Spur Gears - Module 0.8 - Stainless

Spur Gears - Module 0.8, stainless steel - 14-20 teeth - boreless



R5146 - Spur Gears - Module 0.8

Spur Gears - Module 0.8, stainless steel - 16-120 teeth



R5156 - Spur Gears - Module 0.8 - Plastic

Spur Gears - Module 0.8, plastic, blue polyacetal - 14-15 teeth



R5157 - Spur Gears - Module 0.8 - Plastic

Spur Gears - Module 0.8, plastic, blue polyacetal - 16-120 teeth



R5158 - Spur Gears - Module 0.8

Spur Gears - Module 0.8, brass - 14-15 teeth



R5160 - Spur Gears - Module 0.8

Spur Gears - Module 0.8, brass - 16-120 teeth



R5161 - Spur Gears - Module 0.8

Spur Gears - Module 0.8, carbon steel - 25-120 teeth. Steel



R5163 - Spur Gears - Module 1

Spur Gears - Module 1, stainless steel - 14-16 teeth



R5165 - Spur Gears - Module 1

Spur Gears - Module 1, stainless steel - 17-120 teeth



R5172 - Spur Gears - Module 1 - Plastic

Spur Gears - Module 1, plastic, blue polyacetal - 12-120 teeth



R5173 - Spur Gears - Module 1

Spur Gears - Module 1, carbon steel - 14-68 teeth. Steel



R5175 - Spur Gears - Module 1

Spur Gears - Module 1, carbon steel - 8-10 teeth. Steel



☰ Products



Gears, Gear Boxes & Belts >

Standard Spur Gears



R5176 - Spur Gears - Module 1

Spur Gears - Module 1, carbon steel - 8-10 teeth. Steel



R5177 - Spur Gears - Module 1

Spur Gears - Module 1, carbon steel - 12-18 teeth. Steel



R5179 - Spur Gears - Module 1

Spur Gears - Module 1, carbon steel - 14-120 teeth. Steel



R5190 - Spur Gears - Module 1.5

Spur Gears - Module 1.5, stainless steel - 15-100 teeth



R5191 - Spur Gears - Module 1.5 - Plastic

Spur Gears - Module 1.5, plastic, blue polyacetal - 14 teeth



R5193 - Spur Gears - Module 1.5 - Plastic

Spur Gears - Module 1.5, plastic, blue polyacetal - 15-60 teeth



R5194 - Spur Gears - Module 1.5

Spur Gears - Module 1.5, carbon steel - 15-100 teeth. Steel



R5199 - Spur Gears - Module 1.5

Spur Gears - Module 1.5, carbon steel - 8-10 teeth. Steel



VIEW THE FULL RANGE

Gear Boxes

Automotion Components supply a versatile range of high-quality gearboxes, including two, three, and four-shaft right-angle configurations, as well as compact miniature mitre and bevel gearboxes. Options include durable stainless steel models, ideal for demanding environments. Designed to efficiently reduce or increase speed and torque, all gearboxes

are lubricated for life to ensure long-term performance with minimal maintenance.



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**R2233 - Right Angle Drives
- Two Shafts**

Mitre Gear Box

 **Automotion**
AN ESSENTRA COMPANY



**R2300 - Right Angle Drives
- Two Shafts**

Right Angle Drives - 2 shafts. Ø8 shafts.
Aluminium. Sizes Ø14-25 also available

 **Automotion**
AN ESSENTRA COMPANY



**R2342 - Right Angle Drives
- Four Shafts**

Right Angle Drives - 4 Shafts. Ø24 shafts.
Aluminium



☰ Products



Gears, Gear Boxes & Belts >

Right Angle Gear Boxes



R2306 - Right Angle Drives - Two Shafts

Right Angle Drives - 2 Shafts, Ø15 shafts. Aluminium



R2308 - Right Angle Drives - Two Shafts

Right Angle Drives - 2 Shafts, Ø20 shafts. Aluminium



R2312 - Right Angle Drives - Two Shafts

Right Angle Drives - 2 Shafts, Ø25 shafts. Aluminium



R2320 - Right Angle Drives - Two Shafts

Right Angle Drives - 2 Shafts, Ø8 shafts. Aluminium



R2322 - Right Angle Drives - Two Shafts

Right Angle Drives - 2 Shafts, Ø14 shafts. Aluminium



R2330 - Right Angle Drives - Two Shafts

Right Angle Drives - 2 Shafts, Ø19 shafts. Aluminium



R2333 - Right Angle Drives - Two Shafts

Right Angle Drives - 2 Shafts, Ø24 shafts. Aluminium



R2336 - Right Angle Drives - Hollow Two Shafts

Right Angle Drives - Hollow 2 Shafts, Ø14 shafts. Aluminium



R2338 - Right Angle Drives - Hollow Two Shafts

Right Angle Drives - Hollow 2 Shafts, Ø19 shafts. Aluminium



R2302 - Right Angle Drives - Three Shafts

Right Angle Drives - 3 Shafts, Ø8 shafts. Aluminium



R2307 - Right Angle Drives - Three Shafts

Right Angle Drives - 3 Shafts, Ø15 shafts. Aluminium



R2310 - Right Angle Drives - Three Shafts

Right Angle Drives - 3 Shafts, Ø20 shafts. Aluminium



Products



Gears, Gear Boxes & Belts



Right Angle Gear Boxes



R2314 - Right Angle Drives - Three Shafts

Right Angle Drives - 3 Shafts, Ø25 shafts. Aluminium



R2321 - Right Angle Drives - Three Shafts

Right Angle Drives - 3 Shafts, Ø8 shafts. Aluminium



R2325 - Right Angle Drives - Three Shafts

Right Angle Drives - 3 Shafts, Ø14 shafts. Aluminium



R2328 - Right Angle Drives - Four Shafts

Right Angle Drives - 4 Shafts, Ø14 shafts. Aluminium



R2329 - Right Angle Drives - Three Shafts

Right Angle Drives - 3 Shafts, Ø14 shafts. Aluminium



R2332 - Right Angle Drives - Three Shafts

Right Angle Drives - 3 Shafts, Ø19 shafts. Aluminium



R2334 - Right Angle Drives - Three Shafts

Right Angle Drives - 3 Shafts, Ø24 shafts. Aluminium



R2340 - Right Angle Drives - Three Shafts

Right Angle Drives - 3 Shafts, Ø24 shafts. Aluminium



R2345 - Right Angle Drives - Four Shafts

Right Angle Drives - 4 Shafts, Ø24 shafts. Aluminium



R2350 - Stainless Right Angle Drives - Two Shafts

Stainless Right Angle Drives - 2 Shafts, Ø8 shafts. Stainless steel



R2352 - Stainless Right Angle Drives - Two Shafts

Stainless Right Angle Drives - 2 Shafts, Ø15 shafts. Stainless steel



R2354 - Stainless Right Angle Drives - Two Shafts

Stainless Right Angle Drives - 2 Shafts, Ø20 shafts. Stainless steel



☰ Products



Gears, Gear Boxes & Belts >

Right Angle Gear Boxes



R2358 - Stainless Right Angle Drives - Two Shafts

Stainless Right Angle Drives - 2 Shafts, Ø25 shafts. Stainless steel



R2351 - Stainless Right Angle Drives - Three Shafts

Stainless Right Angle Drives - 3 Shafts, Ø8 shafts. Aluminium



R2353 - Stainless Right Angle Drives - Three Shafts

Stainless Right Angle Drives - 3 Shafts, Ø15 shafts. Stainless steel



R2355 - Stainless Right Angle Drives - Three Shafts

Stainless Right Angle Drives - 3 shafts, Ø20 shafts. Stainless steel



R2359 - Stainless Right Angle Drives - Three Shafts

Stainless Right Angle Drives - 3 Shafts, Ø25 shafts. Stainless steel



R2347 - Two Way Reversing Gear Box

2 Way Reversing Gear Box, Ø19 shafts. Aluminium



R2348 - Two Way Reversing Gear Box

2 Way Reversing Gear Box, Ø19 shafts. Aluminium



Linkages & Rotary Components ▶ Gears, Gear Boxes & Belts

Flexure Pivot Bearings

A flexure pivot bearing is a type of bearing that allows precise rotational movement through the bending of flexible materials rather than using traditional rolling or sliding elements. It consists of thin, elastic elements - typically metal—that flex to permit angular motion about a single axis. These bearings are commonly used in precision

instruments, aerospace systems, and optical devices where minimal friction, zero backlash, and high repeatability are critical. Flexure pivots are preferred in applications requiring small-range motion and high reliability because they have no moving parts to wear out, generate no particulate contamination, and require no lubrication.



R4000 - Flexure Pivot Bearings

Flexure Pivot Bearings, single-ended.
Stainless steel



R4002 - Flexure Pivot Bearings

Flexure Pivot Bearings, double-ended.
Stainless steel

An overview of Flexure Pivot Bearings

Flexural pivot bearings are limited rotation bearings for applications that do not allow lubrication but also require precision, repeatability and infinite life.

Angle of rotations are graded into three series:

- Series 10 - $\pm 15^\circ$ (mainly for light loads)
- Series 20 - $\pm 7.5^\circ$ (mainly for medium-heavy loads)
- Series 30 - $\pm 3.7^\circ$ (mainly for heavy loads)

They have a range of torsional stiffness depending on the bearing diameter. The bearing consists of two stainless steel sleeves held in position by three leaf springs on two planes. There is no contact between the sleeves (eliminating friction) and the springs provide the pivotal action which is inherently self centring and requires no lubrication.

Material

The sleeves in a Flexure Pivot bearing are made from 416 Stainless Steel. The spring and core are made from Stainless Steel (410 and 420) with a braze alloy (AMS4765).

Special pivot bearings can be manufactured with angle of rotation up to $\pm 50^\circ$ and for heavy loads.

Single Ended Pivot Bearings

Here one end is fixed and the other end is free to rotate - this type is used most widely as they support overhung loads. Single Ended Pivot Bearings are frictionless with infinite life (see our technical graphs online for life cycle curves).



Double Ended Pivot Bearings

In these applications both ends are fixed and the centre of the bearing is free to rotate - this supports suspended loads. Double Ended Pivot Bearings are frictionless with infinite life (see our technical graphs online for life cycle curves).





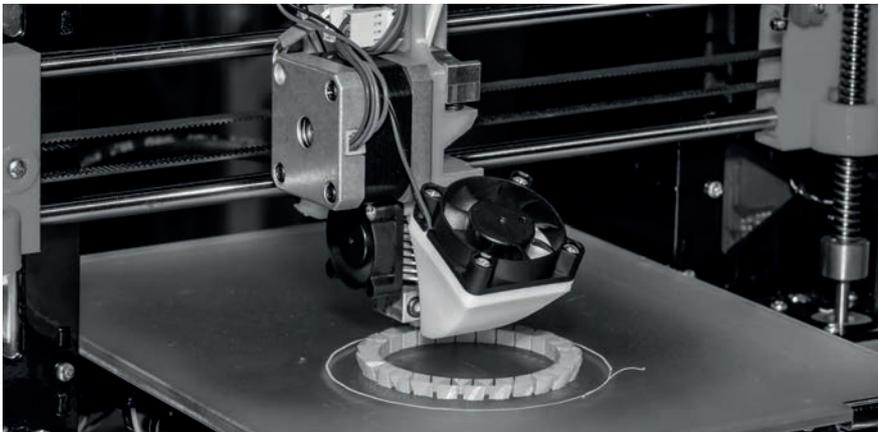
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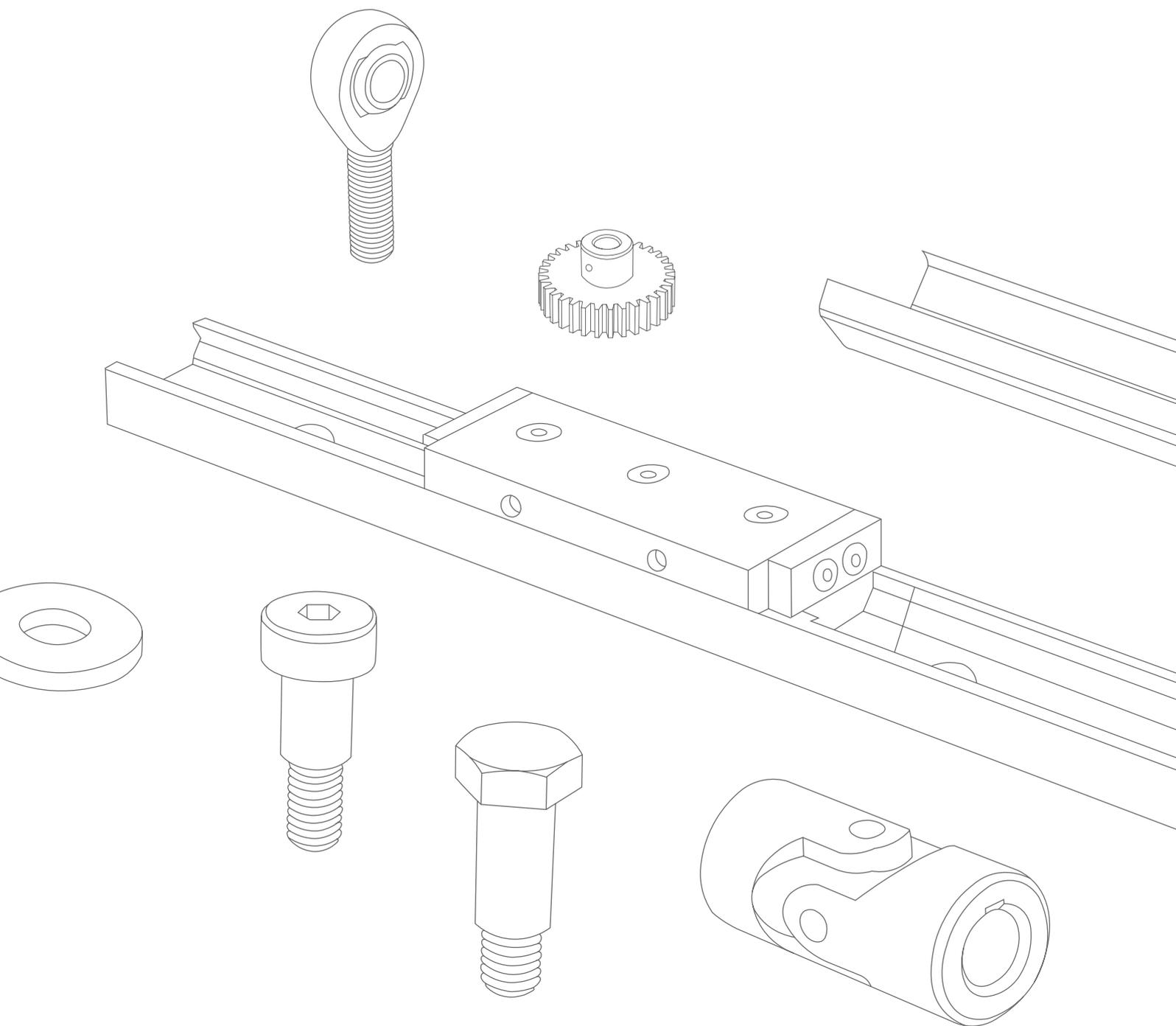
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