

Medical

igus® solutions for the medical industry



plastics for longer life... igus®

industry

www.igus.com/medical

Reduce cost ...



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Self-lubricating and maintenance-free plastic products for medical industry

Modern medical technology places high demands on systems and components – both through quality and cost. Time saving solutions in the design of components for mechanical motion systems immediately gain a cost advantage. igus® online tools provide the designer with service life specifications, CAD tools and design assistance. igus® components also exhibit a range of properties that are ideal for medical devices, including

- Resistant to cleaning processes including high-energy radiation due to the non-magnetic polymer material
- Low-noise operation and more comfort for the patients through "gliding instead of rolling" (e.g.: body scanners ► Page 6)
- Very good coefficients of friction and offering smooth movements, even at high loads (e.g. knee prosthesis ► Page 5)
- With the elimination of external lubrication, the risk of contamination is also eliminated (e.g. laboratory equipment ► Page 4)
- Tightest bending radii for cables under extreme loads and smallest installation sizes (e.g. CT/ MRI ► Page 7)
- Securely guided movements of supply media without damaging the "protected area" (e.g. large medical equipment ► Page 7)

igus® offers more than 100,000 products from stock, meaning every customer can find the right solution. Injection molding and mass production guarantee a cost-effective solution for all motion plastics applications, from rugged energy supply systems and highly flexible cables with lubrication and Maintenance free plain bearings.

Our online tools also enable you to reduce process costs. Most igus® products are shipped from stock in 24 hours. Also, see our industry website.

 www.igus.com/medical

I look forward to speaking to you.

improve technology ...



dry-tech bearing technology

- No external lubricants means no contamination
- Resistance against acidic, alkaline and alcoholic cleaning agents
- Easy to clean
- Highest quality stainless steels available for mating parts
- FDA and/or EU-compatible materials available
- Stability even at high temperatures 482°F (250°C)
- Lightweight construction with the use of aluminum and carbon materials

 www.igus.com/dry-tech

the-chain: e-chains® and chainflex® cables

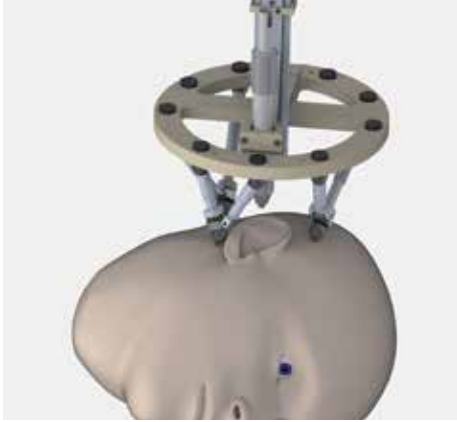
- Reduce downtimes, increase service life of cables and hoses
- For most types of movement and orientations
- Cleanroom suitable
- Guide sensitive bus, data and fiber optic cables, as well as air, fluids etc
- For all environments including cold, heat, humidity, etc.
- Space saving installation

 www.igus.com/the-chain

with motion plastics from igus®

Eliminate external lubrication ...

Self-lubricating, hygienic, maintenance free, space saving ...



Medical assistance system ...



iglide® T500 plain bearing

drylin® N linear guide

- Self-lubricating
- Quiet
- Low profile
- Resistant to disinfections



Laboratory technology ...



drylin® Q square guide and flange bearing

- Maintenance-free dry operation
- Low-noise
- Compact
- Long life
- High acceleration
- Suitable for short strokes



Fittings ...



iglide® T500 plain bearings

- No external lubrication
- Space-saving
- For high loads
- Light and compact
- Excellent media resistance
- Metric and inch dimensions
- Available from stock
- Wear resistant

withstand high pressures ...

FDA/EU-compliant, easy to clean, high temperatures ...

Prostheses ...



iglide® J plain bearing

- Thin-walled
- Low noise
- Vibration dampening
- Special solutions possible
- Excellent friction coefficients in dry operation
- Suitable for outdoor use



Physiotherapy ...



iglide® plain bearings

drylin® W linear guide

- Clean oil-free operation
- Long-lasting
- Rugged
- Vibration dampening
- Shock resistant
- Modular system
- Low driving forces



Medical practice and surgical furniture ...



Pretensioned iglide® JVFM plain bearings

- Pretensioned for almost no clearance
- Quiet operation
- Cost effective
- Tolerates edge loads
- High load capacity
- Maintenance free

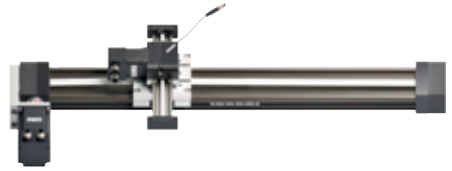


Eliminate maintenance ...

quiet, universal use, complete system ...



Body scanner ...



drylin® ZLW

- Self-lubricating
- Quiet
- Smooth movement
- Maintenance free
- Modular construction
- Quick positioning of small loads
- Available with motor



X-ray machine ...



e-tube R100

- Sealed and enclosed
- Lightweight
- Smooth running
- Available in white and other colors
- Large filling space
- Snap open
- Can be wiped



Medical simulator ...



e-chain® E4-1/E4-1 light

- High loads
- Long travels
- For almost all installation types
- ESD-suitable
- Cleanroom tested
- Separable
- Lightweight
- Quick snap open

fail-safe ...

for all movement, cost effective, quick delivery.

Large medical equipment ...



twisterchain® with trough and readycable®

- Linear, circular and multi-axis movements
- e-chain® and e-tube options
- 10 colors to choose from
- System solution: chain, cable and connectors



Medical trolleys and beds



E-Z chain and chainflex® cables

- Save installation space
- Easy to fill – E-Z chain
- Cables with 4 x d available
- High cycles in small installation space
- Cost effective cables

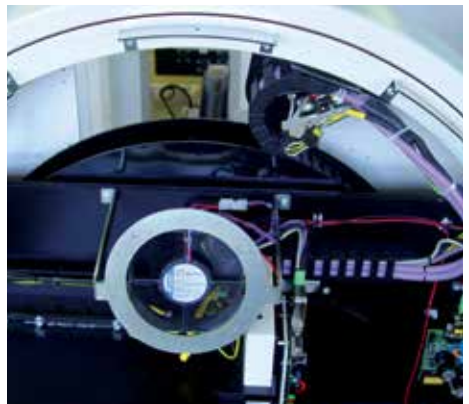


CT and MRI ...



e-chains® and chainflex® cables

- Smallest installation space
- Small bend radii
- Non-magnetic
- Ready-to-connect complete systems with e-chain®, cables and pre-assembled connectors



the right solution ...

Maintenance free plain and linear bearing solutions ...

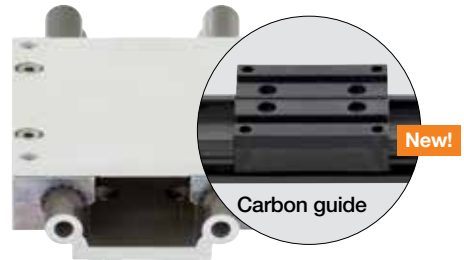
extremely low profile



drylin® N flat guide systems

- Self-lubricating
- Compact height between 6 and 12 mm
- Lightweight
- Numerous carriage options – also with pretension

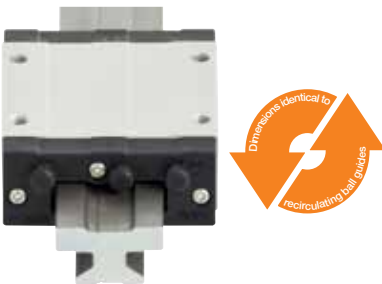
for almost unlimited leeway in design



drylin® W linear system

- Easy to install, maintenance free
- No external lubricants
- Lightweight and quiet
- Flexible mounting options
- Manually adjustable bearing clearance (optional)
- 316SS stainless steel version or new, carbon version: non-magnetic, lightweight and strong

as an alternative to recirculating ball bearing guides



drylin® T linear guides

- Self-lubricating
- Adjustable clearance
- Highly resistant to dirt
- Low vibration and low noise
- Dimensionally interchangeable with ball bearings

linear drive through rotational motion



drylin® lead screw technology

- Efficient and durable dryspin® technology
- Self-locking trapezoidal, metric threads, and ACME
- 5 nut materials available
- High helix thread from ¼ inch to 20 mm diameter and 1/10 inch to 90 mm pitch

available from stock.

For example ...

the best shaft for your linear plain bearings complete systems



drylin®R shaft guides and shafts

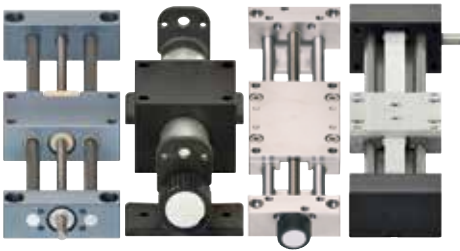
- Dimensions identical to standard commercial ball bearings
- Shafts, shaft support blocks and accessories available from stock
- Replaceable liners, 8 different shaft materials
- Lightweight aluminum available
- Round or fully supported



Lift/swivel unit

- Very light and dynamic due to plastic and aluminum
- Compact structure and modular design
- 4-square profile with hollow chamber suitable for supply cables and media
- Delivered ready to install with NEMA stepper motors

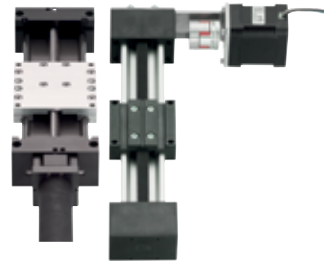
drive via trapezoidal, high helix thread or toothed belt



drylin® linear actuators

- Self-lubricating
- For format adjustments up to quick small parts handling
- Extensive accessories

linear axis with motor, ready to connect



drylin® E drive technology

- Complete systems delivered in 3-4 days
- With NEMA stepper motors / DC motors
- Can also be configured online
- Available as gantry kits

More igus® solutions ...

Self-lubricating bearings ...

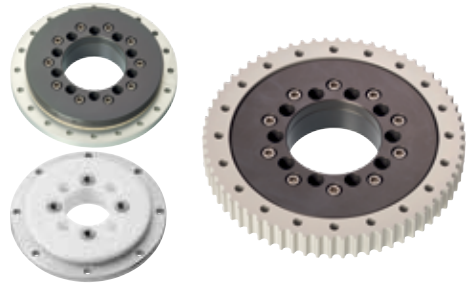
moves neatly without external lubricants



iglide® plain bearings

- Wear-resistant polymers
- FDA-compliant and antibacterial materials
- Corrosion resistant
- High wear resistance
- High load capacity and good coefficients of friction
- Service life can be calculated online
- No external lubricants eliminating contamination

self-lubricating, compact slewing ring bearing



iglide® PRT slewing ring bearing

- Cost-effective, low maintenance, lubrication free
- Simple assembly, replaceable sliding pads
- High wear resistance
- For high load capacity
- Extensive accessories (e.g. tothing, locking, ...)

dry running ball bearings



xiros® plastic ball bearings

- Self-lubricating and maintenance-free
- High corrosion resistance for temperatures up to +302°F
- Non-magnetic
- Lightweight

insensitive to dirt



igubal® spherical bearings

- Self-aligning bearing elements, made of plastic.
- Different types of designs, such as spherical, double, flanged and pillow block bearings
- Different spherical ball materials
- Extremely cost-effective
- Service life calculations

and products ...

as you need it.

material from prototypes to serial production



iglide® tribo-filament for 3D printing

- Can be processed by commercially available 3D printers
- A variety of materials for various application needs

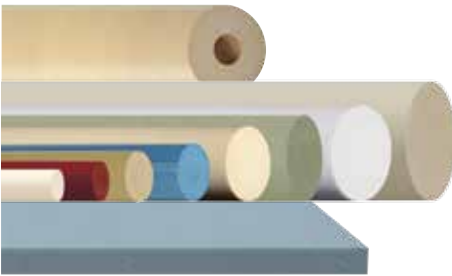
special geometries



Special parts made of tribo-plastics

- Special solutions
- Self-lubricating and maintenance free plain bearing solutions customized to your needs
- Specifically tailored to your application
- Mechanically produced or molded

for free design



iglide® bar stock

- iglide® materials as round bars, tubes and plates
- Currently over 20 iglide® materials to choose from
- Cut to required size
- Machining from a quantity of 1
- Maintenance free

robot construction kit



Modular components kit for Robolink® D

- Light, compact and self-lubricating
- Construction kit: Plastic housing + worm gear + worm shaft + PRT slewing ring bearings + axial roller bearings + radial bearings + VA screws
- Adaptable to different motors

for medical technology

Moving energy made easy ...

small, strong, flexible



E2 micro and chainflex® cables

- For confined spaces
- Double stop dogs for high fill weights
- For large unsupported lengths (relative to the size)
- 10 and 15 mm inner height
- Cost effective cable range

multi-axis guidance



triflex® R and chainflex® torsion cables

- Multi-axis "3D e-chain", torsion $\pm 10^\circ$ per chain link
- Enclosed version, fully enclosed and snap open
- Can be lengthened and shortened as needed
- Range of e-chains® suitable torsion cables

guide capillary hoses



e-cord

- Secure guiding of the smallest hoses $< \varnothing 1$ mm
- Modular assembly allowing customized movement
- Predefined radii prevents bending damage to the hoses

the corrugated hose that can do more



e-skin and chainflex® cables

- Defined direction of motion
- Snap open, quick assembly
- High strength for unsupported lengths
- Various materials and colors available, even for small quantities
- IPA cleanroom class 1

Cleanroom-suitable ... class 1

Cleanroom and ESD-suitable, space-saving, low vibration



e-chains®, chainflex® cables and drylin® linear guide systems in the cleanroom

For over 15 years igus® has been one of the forerunners in energy supply systems in cleanrooms. igus® offers a broad range of IPA-tested e-chains® that allows the machine-specific supply of energy in cleanrooms. Since the quality requirements for cleanroom technology applications are constantly growing, igus® is continuously working on improving its products.

- 847 chainflex® catalog cables certified according to ISO class 1 or class 2 IPA. (chainflex® cables with tested outer jacket material available from stock)
- More than 9,000 e-chains® series for cleanroom applications certified according to ISO class 1 to class 5 IPA
- Nearly 200 drylin® linear guides for cleanroom applications certified according to ISO class 3 to class 6 IPA
- e-chain systems® E6-1, E3, E6-29-CR certified according to ISO class 1 IPA

 www.igus.com/cleanroom

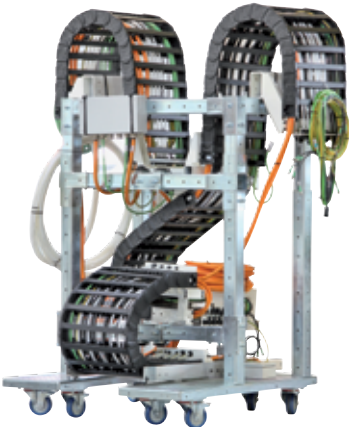
Product	class 1	class 2	class 3	class 4	class 5	class 6	Total
chainflex®	629	218	-	-	-	-	874
drylin®	-	-	5	-	26	166	197
e-chains®	1.170	4.062	993	-	2.822	-	9.047
Total	1.799	4.280	998	-	2.848	166	10.091

... as assembled systems ...

readychain®: chain - cable - guarantee, shipped in as little as 3 days



igus® drylin® linear systems completely assembled with cables and e-chains®



readychain® – fully harnessed systems in as little as 3 days

1,000 systems produced per week in 12 readychain® factories around the world – assembly time optimized to increase your cash-flow

- Lower storage costs for cables, e-chains® and connectors to zero
- Reduce throughput times by half
- Flexibility when orders vary
- Reduce the number of suppliers and orders by 75%
- Minimize your machine downtimes
- System guarantee – depending on the application

 www.igus.com/readychain

readychain® assembly rack

80% savings during prototyping. Assembly transport rack for ready-to-install energy supply systems.

Delivered ready to install.

readycable: harnessed drive cables ... in as little as 24 hours

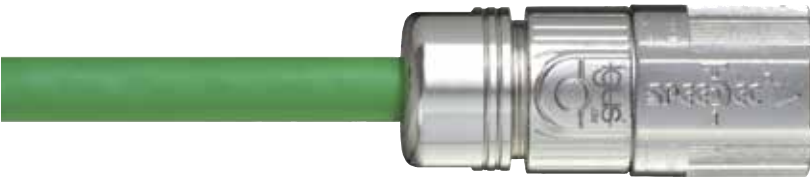


readycable® – as quick as 24 hours

igus® provides more than 3,200 harnessed cables for drive technology according to 22 different manufacturer standards. Professionally assembled, 100% tested.

- Servo, motor and signal/encoder cables
- No cutting charges, no surcharges for small quantities and packaging
- Cable length accurate to the centimeter as per customer specifications
- Smallest bend radii from 7.5 x d
- Reduce storage costs and increase cash flow

 www.igus.com/readycable



Intercontec SpeedTec®

Service packs (starting at 1 piece) or harnessed directly to customer specifications. Also available as over-molded version

quick and reliable



The igus® delivery service

More than 97% of components from the igus® catalog are available from stock.

- More than 100,000 products from stock
- No minimum order quantity
- No minimum order price
- No cutting charges for cables
- No packaging costs



Modern and economic molding technology

igus® utilizes high tech, cost-effective solutions. Modern injection molding technology allows thousands of standard and countless custom components to be manufactured with high precision and quality.



The igus® lab

The massive igus® lab (29,600 ft²) conducts more than two billion test cycles per year on more than 100 test rigs.

- Extensive test databases
- Customized tests on request

 www.igus.com/test

igus® motion plastics

One vision has been driving us for more than 50 years – motion plastics: innovative moving parts made of plastic that cost less and last longer. Our core technology consists of tribo plastics – high-performance plastics which have been optimized for friction and wear. This technology has made us into a world-wide leader for developing and manufacturing energy supply systems and plain bearings.



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