Medical

igus® solutions for the medical industry

plastics for longer life®... igus

industry

... www.igus.eu/medical

Reduce cost ...

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Medical Industry
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Maintenance and lubrication free plastic products for medical industry

Modern medical technology places high demands on systems and components – both through quality and cost. Also the "time" factor gains in significance. Those who save time, for instance, in the design of components for mechanical motion systems immediately gains a cost advantage. igus® online tools provide the designer with service life specifications, CAD tools and design assistance, easily and quickly. The machine element is perfectly adapted to the individual requirements. In the process the igus® components also exhibit 'natural' properties that are ideal for medical devices:

- Resistance 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 friction coefficients and thereby smooth movement, even at high load (e.g. knee prosthesis ▶ Page 5)
- With the elimination of lubrication, the risk of contamination is also eliminated (e.g. laboratory equipment ▶ Page 4)
- Narrowest 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)

In the igus® systems with more than 100,000 products from stock, every customer will find the right solution. Injection moulding 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. igus® delivers from stock in 24-48 hours! Also, see our industry website.

www.igus.eu/medical

I look forward to speaking to you.

... improve technology ...

dry-tech® bearing technology

- No additional lubricants = no dirt accumulation or contamination
- Resistance against acidic, alkaline and alcoholic cleaning agents
- Easy to clean
- Highest quality stainless steels available for sliding pairs
- FDA- and/or EU-compatible materials possible
- Stability even at high temperatures
- Lightweight construction with the use of aluminium and carbon materials

www.igus.eu/dry-tech

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

- Reduce downtimes, increase service life of cables and hoses
- Most types of movement and orientation
- Cleanroom suitable
- Guide sensitive bus, data and fibre optic cables, as well as air, fluids etc
- For different environments such as cold, heat, humidity, etc.
- Space saving installation

www.igus.eu/the-chain

... with motion plastics® from igus®

Dispense with lubrication ...

Lubrication free ... hygienic ... maintenance free ... space saving ...

Medical assistance system ...

... iglidur® X plain bearing ... drylin® N linear guide

● Lubrication free ● Low noise ● Smallest installation space ● Can be disinfected ● No stick slip

www.igus.eu/X www.igus.eu/drylinN

Laboratory technology ...

... drylin® Q square guide and flange bearing

● Maintenance free dry operation ● Low noise ● Smallest installation space ● High number of cycles ● High acceleration ● Overlapping movements possible ● Suitable for short strokes

www.igus.eu/drylinQ

Fittings ...

... iglidur® X plain bearings

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

www.igus.eu/X

... withstands high stress ...

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

Prostheses ...

... iglidur® J plain bearing

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

www.igus.eu/J

Physiotherapy ...

... iglidur® plain bearings ... drylin® linear guide

● No risk of dirt accumulation ● Long-lasting ● Rugged ● Vibration dampening ● Shock resistant ● Modular system ● Low driving forces

www.igus.eu/drylin www.igus.eu/iglidur

Medical practice and surgical furniture ...

... Pretensioned iglidur® JVFM plain bearings

● Spring pretension can be integrated ● Low-noise operation ● Cost effective ● Tolerates edge loads ● High load capacity ● Maintenance free

www.igus.eu/JVFM

... dispense with maintenance ...

... low noise ... universal use ... complete system ...

Body scanner ...

... drylin® ZLW

● Lubrication free ● Low noise ● Smooth movement ● Maintenance free ● Modular construction ● Quick positioning of small loads ● Flat design ● With drives on request

www.igus.eu/ZLW

X-ray machine ...

... e-tube R100

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

www.igus.eu/e-chains

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 ● Accessories www.igus.eu/E4-1

... 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 colours to choose from ● System solution: chain, cable and connectors

www.igus.eu/twisterchain

Medical trolleys and beds ... ...

... easychain® and chainflex® cables

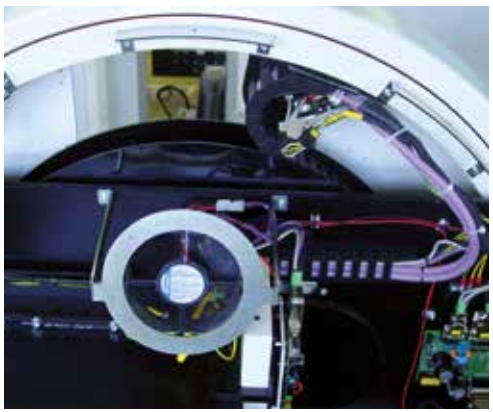
● Save installation space ● Easy to fill – easychain® ● Cables with 4 x d available ● High cycles in small installation space ● Cost effective cables

www.igus.eu/easychain

CT and MRI ...

... e-chains® and chainflex® cables

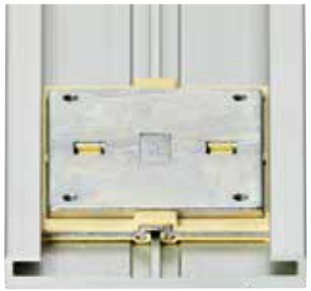
● Smallest installation space ● Small bend radii ● Non-magnetic ● Ready-to-connect complete systems with e-chain®, cables and pre-assembled connectors www.igus.eu/chainflex



... the right solution ...

Maintenance free plain and linear bearing solutions ...

... extremely low profile

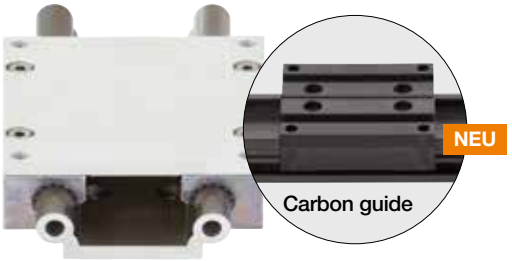


drylin® N flat guide systems

- 100% lubrication free
- Low installation height between 6 and 12 mm
- Very low weight
- Numerous carriage options – also with pretension

www.igus.eu/drylinN

... for almost unlimited leeway in design

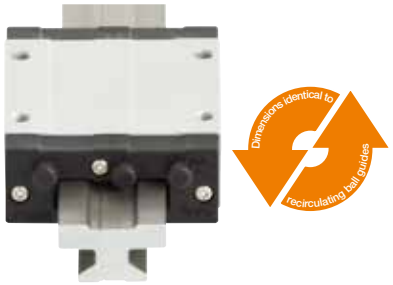


drylin® W linear system

- Simple installation, maintenance free
- Resistant to dirt due to dry operation
- Low weight and low noise operation
- Square rail with floating bearing function for 90° installation
- Manually adjustable bearing clearance (optional)
- VA stainless steel version or new, full carbon version: non-magnetic, lightweight and strong

www.igus.eu/drylinW

... as an alternative to recirculating ball bearing guides



drylin® T linear guides

- 100% lubrication free
- Automatic clearance adjustment
- High static load capacity
- Highly resistant to dirt
- Low vibration and low noise

www.igus.eu/drylinT

... linear drive through rotational motion

drylin® lead screw technology

- Efficient and durable dryspin® technology
- Self-locking trapezoidal and metric threads
- Lead screw nuts made from 5 iglidur® materials
- High helix thread from ¼ inch to 20 mm diameter and 1/10 inch to 90 mm pitch

www.igus.eu/leadscrew-technology

... available from stock.

For example ...

... the best shaft for your linear plain bearings

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
- Low weight
- Round or fully supported

www.igus.eu/drylinR

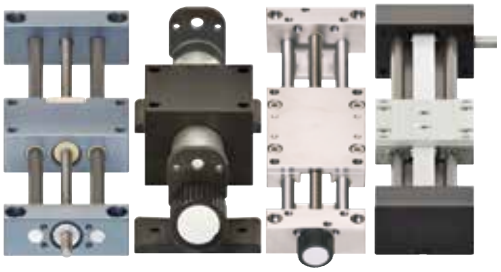
... complete systems

Lift/swivel unit

- Very light and dynamic due to plastic and aluminium
- 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

www.igus.eu/HSQ

... drive via trapezoidal, high helix thread or toothed belt

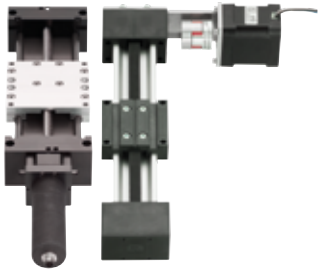


drylin® linear axes

- 100% lubrication free
- For format adjustments up to quick small parts handling
- Extensive accessories

www.igus.eu/drylin-drive

... 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

www.igus.eu/drylinE

More igus® products ...

Lubrication free bearing made easy ...

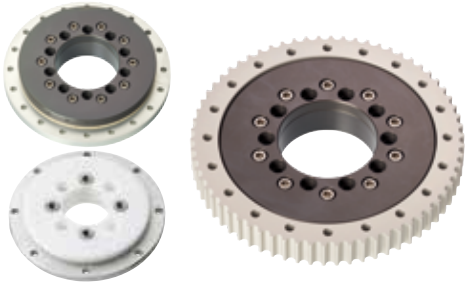
... moves neatly without lubricants

iglidur® plain bearings

- Wear-resistant polymers
- FDA-compliant and antibacterial materials
- Customised special solutions - from a quantity of 1
- High wear resistance
- High load capacity and good coefficients of friction
- Service life can be calculated online

www.igus.eu/iglidur

... lubrication free, compact slewing ring bearing



iglidur® 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. toothing, locking, ...)

www.igus.eu/PRT

... Ball bearings with absolute dry running

xiros® polymer ball bearings

- Lubrication and maintenance free
- High corrosion resistance for temperatures up to +150°C
- Non-magnetic
- Low weight

www.igus.eu/xiros

... insensitive to dirt

igubal® spherical bearings

- Self-aligning bearing elements, made of plastic.
- Different types of designs, e.g. spherical, double, flanged and pillow block bearings
- Different spherical ball materials
- Extremely cost-effective
- Service life can be calculated online

www.igus.eu/igubal

... and solutions ...

... as you need it.

... material from prototypes to series

iglidur® tribo-filament for 3D printing

- Can be processed by commercially available 3D printers
- 3 materials to select from: iglidur® I180-PF excellent wear resistance. iglidur® I170-PF, sophisticated processing, extreme demands on the wear resistance. iglidur® J260PF extremely wear-resistant primarily in conjunction with plastic shafts

www.igus.eu/tribofilament

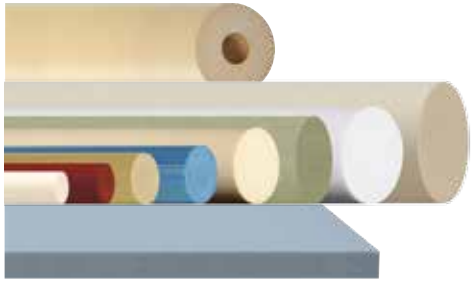
... special geometries

Special parts made of tribo-plastics

- Special solutions
- Self-lubricating and maintenance free plain bearing solutions completely according to your wishes
- Specifically tailored to your application
- Mechanically produced or moulded

www.igus.eu/speedimold

... for free design



iglidur® bar stock

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

www.igus.eu/barstock

... robot construction kit

Modular components kit for robolink® D

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

www.igus.eu/robolinkD

... 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

www.igus.eu/E2micro

... multi-axis guidance

triflex® R and chainflex® torsion cables

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

www.igus.eu/triflexR

... guide capillary hoses

e-cord

- Secure guiding of the smallest hoses < Ø 1 mm
- Modular assembly allowing customised movement
- Predefined radii prevents bending damage to the hoses

www.igus.eu/e-cord

... the corrugated hose that can do more

e-skin and chainflex® cables

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

www.igus.eu/e-skin

Cleanroom-suitable ... class 1

Cleanroom-suitable, 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.

- All 847 chainflex® catalogue cables certified according to ISO class 1 or class 2 IPA. (chainflex®-cables with tested outer jacket material available from stock)
- 9,047 e-chains® series for cleanroom applications certified according to ISO class 1 to class 5 IPA
- 197 drylin® linear guides for cleanroom applications certified according to ISO class 3 to class 6 IPA
- e-chainsystems® E6.1, E3, E6.29.CR certified according to ISO class 1 IPA

www.igus.eu/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 ... delivered in 3-10 days

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

readychain® – fully harnessed systems in 3-10 days

1,000 systems produced per week in 12 readychain® factories around the world – assembly time optimised 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%
- Minimise your machine downtimes
- System guarantee – depending on the application

www.readychain.eu

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 24 - 48h

readycable® – in 24-48h or today

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

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

www.readycable.eu

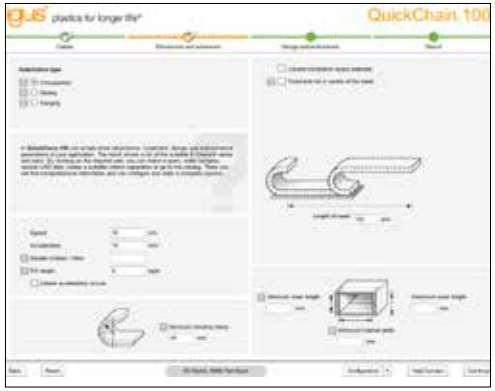
Intercontec SpeedTec

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

igus® services ...

Visit our industry web pages for more information, products, application examples and useful online-tools.

www.igus.eu/medical



Quickly find and configure products and calculate service life – all online

Using our online product finders you can find the right igus® product and get a service life prediction.

www.igus.eu/online

For any task – in any batch size

Different industries need different solutions. Whether in mechanical engineering, automotive-manufacturing or in the robot industry – igus® offers customised support for specialised applications. igus® already has many years of experience and specialised contacts in many industries.

www.igus.eu/industry

... quick and reliable

The igus® delivery service

Over 97% availability of all catalogue parts – no need for you to stock

- Over 100,000 products from stock
- No minimum order value
- No surcharges for small quantities
- No costs for cutting cables
- No packaging costs

www.igus.eu/24

Modern injection moulding technology

The igus® GmbH quality policy is based on the objective of identifying and meeting customer needs, and of always being a professional partner and reliable supplier. igus® has always been committed to producing products of the best possible quality and consistently developing innovative solutions.

The igus® lab

The industry's largest test lab (1,750m²) conducts more than two billion test cycles per year on a total of 107 test rigs.

- Extensive test databases
- Customised tests on request

www.igus.eu/test

igus® motion plastics®

One vision has been driving us for 50 years – motion plastics®: moving parts made of plastic that cost less and last longer.
Our core technology consists of tribo-polymers – high-performance plastics, which we have optimised 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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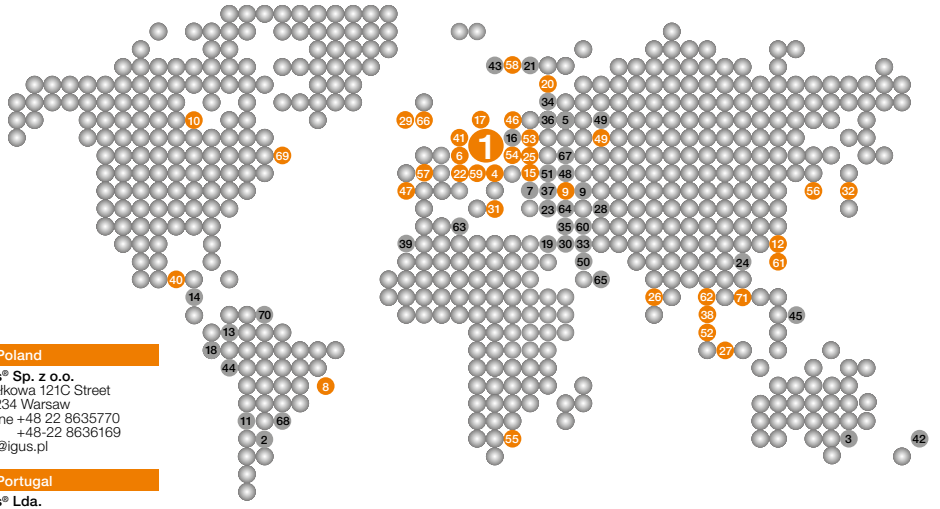

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