

A high-speed train is shown in motion, blurred to convey speed. The train is white with dark accents and is moving from left to right. The background is a blurred landscape.

rail ...

igus® solutions for the rail industry

plastics for longer life® ...igus

technology

... www.igus.eu/railway ...

Costs down, service life up

Reduce costs with reliable, high quality products.

e-chains®:

- Maintenance- and corrosion-free
- Low noise
- Vibration dampening
- Small radii for small spaces
- Long service life
- Lightweight
- Low cost
- Meets EN45545

chainflex® cables:

- Developed for particularly highly dynamic applications
- Flame retardant IEC 60332-1-2, CEI 20-35, FT1, VW-1*
- Halogen-free in accordance with EN 50267-2-1*
- Toxicity according to EN 50305-9.2*
- Low smoke density according to EN 61034-2*
- Tested & guaranteed
- For the smallest installation spaces
- Cost-effective, especially as preassembled cable

dry-tech® bearing technology

- Lubrication-free
- Dirt-resistant
- Maintenance-free
- UL94-V0 classification
- High abrasion resistance
- Corrosion-free
- Lightweight
- Predictable service life

 www.igus.eu/e-chain

 www.igus.eu/chainflex

 www.igus.eu/dry-tech



igus® plastic products have proven themselves in many applications the rail industry.

* CFSPECIAL.414

Challenges ...

... the rail industry.

Maintenance-free yet meets high fire safety requirements

Dry running (lubrication-free) plain bearings for applications with high fire protection requirements and long service life.

- Lubrication-free
- UL94-V0 classification
- High abrasion resistance
- Low noise, vibration-free operation
- Resistant to dust and dirt



igidur® polymer plain bearings

Page
10 | 11

High reliability and efficiency

Higher efficiency due to optimised thread angle and free from lubrication and maintenance. igus® dryspin® lead screws specifically for lead screw units.

- Maintenance-free dry running operation
- Low noise
- Resistant to dirt and dust
- Corrosion-free
- Trapezoidal thread and high helix thread
- High efficiency
- Anti-backlash function available



dryspin® high helix thread

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12 | 13

Meet fire safety requirements and avoid cable failures

Highly flexible chainflex® cables for outdoor applications and high fire safety requirements.

- Flame retardant according to IEC 60332-1-2, CEI 20-35, FT1, VW-1*
- Halogen free in accordance with EN 50267-2-1*
- Toxicity according to EN EN 50305-9.2*



chainflex® cables

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14 | 15

Guide cables safely in the smallest spaces

For the smallest installation spaces or maximum loads - igus® plastic energy chains® are reliable and maintenance-free.

- For the smallest bending radii and installation spaces
- Strong and maintenance-free



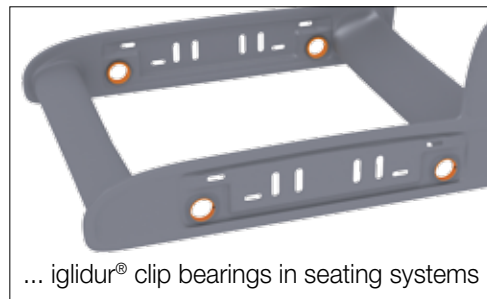
e-chain® E2 micro

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* CFSPECIAL.414

igus® in the rail industry

dry-tech® bearing technology, energy chains® and chainflex® cables.



motion plastics® solutions for dynamic applications in rail vehicles – lightweight, reliable, lubrication- and maintenance-free.

In the rail industry, long-lasting, rugged and reliable machine components are needed. When used with high duty cycles under fluctuating environmental conditions, a continuous maintenance-free operation is critical. By using wear-resistant igus® high performance polymers, you save by removing the need for external lubrication, but also by the higher efficiencies of the systems.

 www.igus.eu/railway



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Rail Technology
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Reliably in use ...

igus® plastics products in the rail and transport sectors.



igus® moves railways

The rail sliding stage moves freight locomotives between 8 railway lines at the new North Rail Terminal of the port of Felixstowes.

Installed igus® products: igus® flizz® trough system, E4.1 e-chain® and chainflex® cables.

"The energy chain turned out to be a more rugged and compact solution compared to festoon systems or cable reels and the igus® product adapted itself perfectly around the surrounding area of the rail sliding stage."



... increase service life



Passenger compartment doors

chainflex® control cables for extremely small bending radii are used in this application in passenger doors for public transport vehicles.

Machine tool for railway track plates

This specialised machine tool requires a large number of different cables and hoses.



Portal milling machine

The energy supply fitted previously was worn out after nine months. The cables were destroyed by hot chips, resulting in production downtimes.

Reliable in service ...



High temperature debris

This special material repels chips with temperatures up to 850°C.



Roll stands for rails

The polymer energy supply from igus® replaced a steel chain system on this rolling mill.



... increase service life



Door systems

High helix lead screw nuts in door systems.



Low-floor tram

chainflex® control cable for extremely small bending radii ensures operational safety in low-floor trams.



Switching device ("linear switch")

For railway control panel using drylin® SD lead screw unit.



Bridge inspection unit

Vertically hanging E4 e-chain® in this bridge inspection unit.



Pantographs

igubal® spherical bearings used as insulating components in pantographs of the subway.

Avoid ... maintenance and lubrication ... Reduce costs



Lubrication-free
and dirt resistant

Meets fire protection
classification V0
according to UL94
(iglidur® GV0)

Maintenance-free
and cost-effective

iglidur® – plain bearings made of high performance polymers



iglidur® GV0 –
V0 classification according to UL94.
This new material attains the V0 classification in accordance with UL94, making it ideally suited for applications with high fire protection requirements.

www.igus.eu/GV0



iglidur® J –
Fast-and-slow-motion.
Versatile in continuous operation, even for soft shafts.
The perfect combination of wear-resistant plain bearings at low to medium loads and optimum coefficients of friction.

www.igus.eu/J



iglidur® Q –
Suited for high loads.
Plain bearing solution for long service lives at high to extreme loads.

www.igus.eu/Q

iglidur® plain bearings

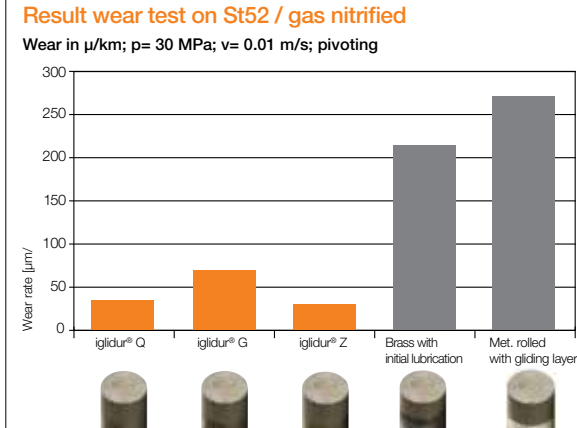
iglidur® plastic bearings from igus® are lubricant-free, maintenance-free, cost effective and versatile. They always offer a solution – either from the catalogue range or as custom-made plain bearing. Special solutions – from batch size 1!

- 45 different materials – delivered from stock
- Corrosion-resistant
- Dirt resistant
- High compressive strengths
- Low coefficients of friction
- High wear resistance

www.igus.eu/iglidur

Tested!

In the largest lab of its kind, igus® Cologne



"Swivel test"

Objective: wear test of iglidur® plastic plain bearings against metallic plain bearings

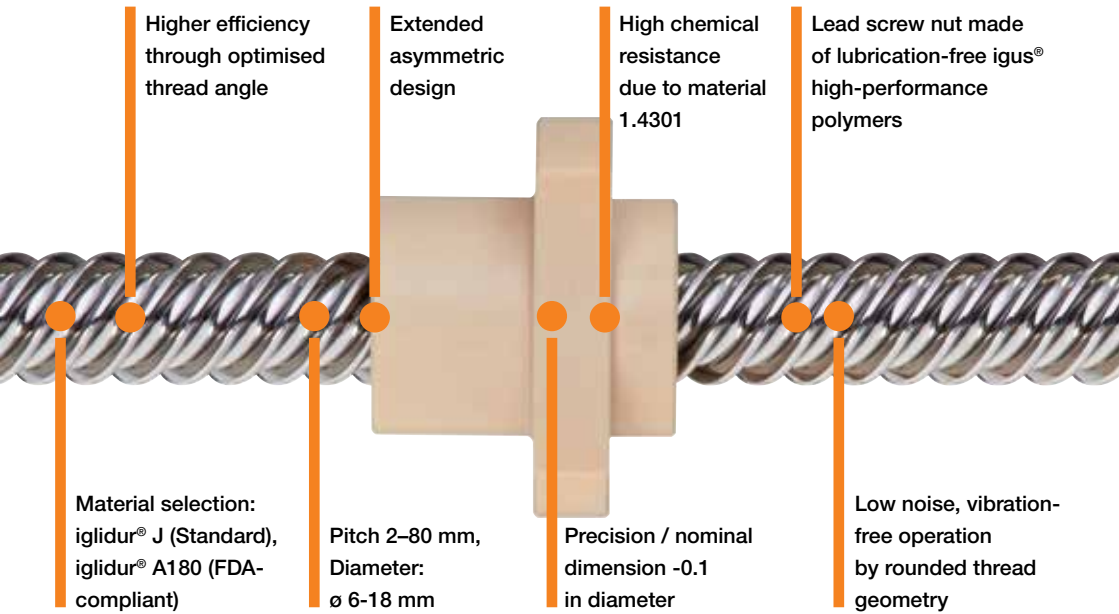
Test setup: swivel test on a shaft with a weight of 1,200 kg.

Result: All tested iglidur® materials show considerably less wear than the metallic plain bearings. The shafts of the metallic plain bearings were reduced in size very significantly.

In the field



Increase efficiency and service life ... avoid lubrication



dryspin® technology for high helix threads

The dryspin® technology is based on wear-resistant igus® high performance polymers specially developed for lead screw units. With features and shapes matching the plastic nut and lead screw, dryspin® provides an even longer service life and higher efficiency for high helix threads. Due to its lubrication-free design dryspin® lead screw units are suitable for many applications including clean and hygienic environments.

Typical application areas

- Laboratory automation
- Medicine
- Automotive
- Sealing systems
- Handling

dryspin® benefits on video:

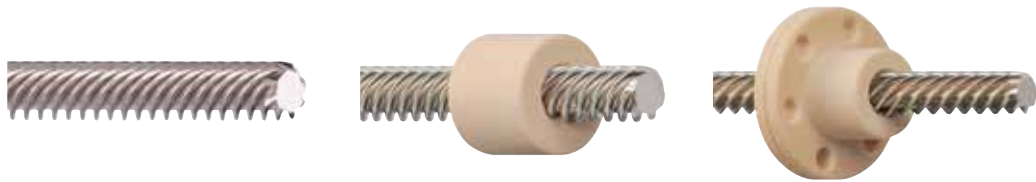
www.igus.eu/dryspin



In the field



dryspin® – linear leadscrews lubrication- and maintenance-free.



dryspin® high helix lead screws

- Corrosion free due to material 1.4301
- Diameter ø 6 - 18 mm
- Precision / nominal dimension -0.1 in Ø

dryspin® cylindrical lead screw nuts

- Lubrication-free due to igus® high-performance polymers
- Efficient with low noise
- Maintenance-free dry running operation

dryspin® lead screw nuts with flange

- Dirt resistant and corrosion-free
- Round flange
- Space-saving

dryspin® zero backlash lead screw nut

- Integrated zero-backlash system with spring pretension
- Minimum backlash
- For precise positioning

dryspin® accessories

- Bearing blocks for dryspin® high helix lead screws
- Nut holder for dryspin® lead screw nut
- drylin® E lead screw motor with dryspin® technology

www.igus.eu/dryspin

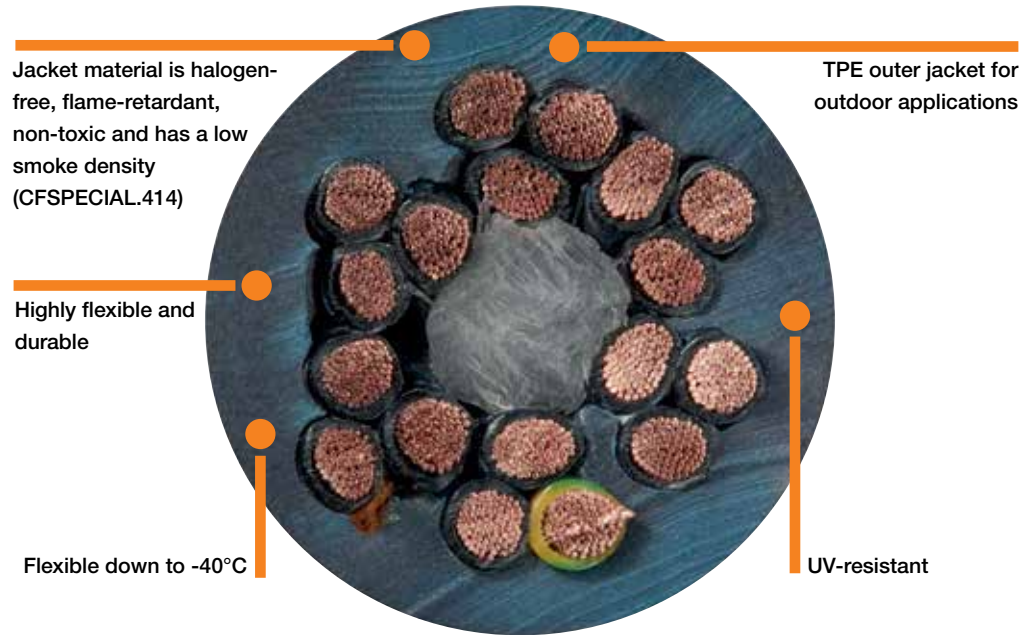
www.igus.eu/dryspin

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Prevent cable failures ... Meet fire protection standards



Jacket material is halogen-free, flame-retardant, non-toxic and has a low smoke density (CFSPECIAL.414)

TPE outer jacket for outdoor applications

Highly flexible and durable

Flexible down to -40°C

UV-resistant

The special design of igus® chainflex® cables is the key to a long service life in energy chains.



E.g. chainflex® CFSPECIAL.414 – particularly for use in rail vehicles. The jacket material is flame-retardant, non-toxic and has a low smoke density. www.igus.eu/CF414



E.g. chainflex® CF10 – shielded TPE control cables for extreme requirements in outdoor applications. www.igus.eu/CF10



E.g. chainflex® CF38 – shielded TPE motor cable for extreme requirements in outdoor applications, UV-resistant. www.igus.eu/CF38



E.g. chainflex® CF98 / CF99 – for heavy duty use and especially for small radii. TPE- outer jacket, PVC- and halogen-free, cold-flexible, resistant to hydrolysis and microbes. www.igus.eu/CF99

chainflex® cables

More than 1,040 types from stock – smallest bending radii, highly wear-resistant jacket materials (PVC, TPE, PUR), halogen-free and/or flame-retardant, various certifications and standards (e.g. UL, CE, CSA, Desina, cleanroom). Including guarantee!

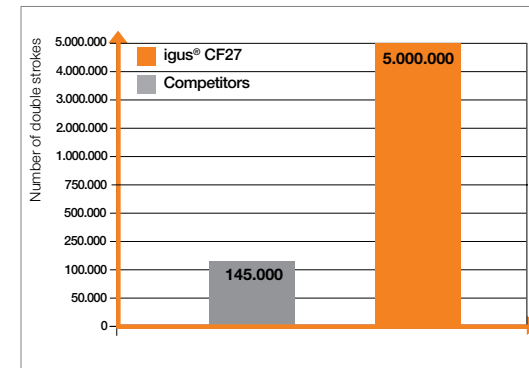
- Certifiable according to EN45545
- For highly dynamic applications
- Special design prevents cable failure
- Ideally matched to e-chains®

www.chainflex.eu



Tested!

In the largest lab of its kind, igus® Cologne



Due to the wide range of cable types solutions can be found to meet the customer's exact dynamic requirements.

Tested: 41 million strokes at 25% under-bending

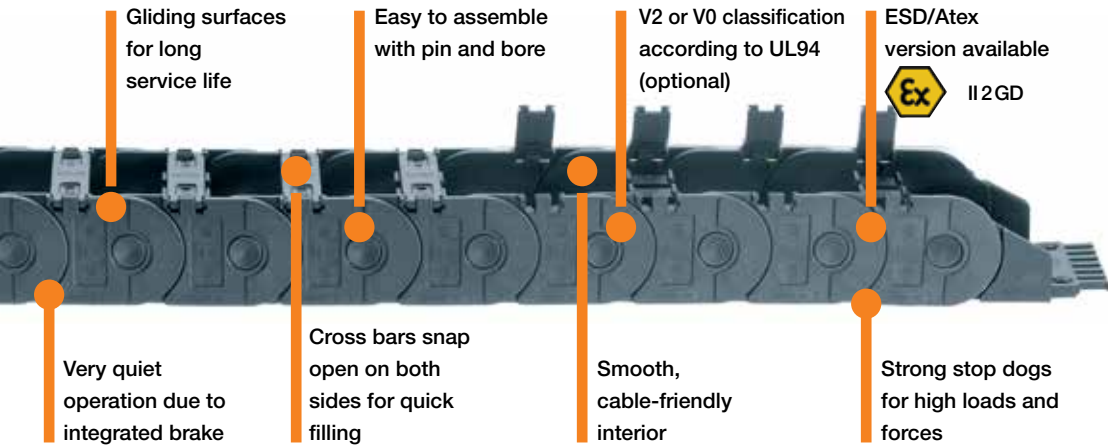
Control cable CF5.10.25 withstood more than 41 million double strokes at 25% under-bending. chainflex® lasts - proven in test No. 2233 of more than 600 parallel tests conducted by the 1,750 m² test lab, the largest of its kind for flexible cables.

www.igus.eu/test2233

In the field



e-chains® for all applications ...



igus® e-chains® guide reliably, for the smallest installation spaces: cost efficient and lightweight.



The small, strong all-round-er chain - E2 micro system
Small e-chain® with strong stop dog system and large pin/bore connection for up to 25% longer unsupported length and 100% higher additional loads (compared to similar igus® types). A built-in "brake" to minimise impact noise and very smooth contours to ensure optimum cable protection. A chain opener (included) saves time when opening e-chains®.



The cost-efficient and quickly fillable – easychain®
Fast installation time is one of the key features of the easychain® e-chains®. Their elastic and tough material igumid NB offers yet more reasons for application: optimum elasticity, UL94-V2 classification and excellent suitability for clean rooms. Their one-piece design makes easychain® very cost effective. easychain® e-chains® are, due to their compact dimensions, ideal for limited installation spaces.



The versatile – E2/000 system
The E2/000 system combines high strength with low-noise operation, long service life for cables and many mounting options. Mechanical engineers all over the world rely on this range.

www.igus.eu/E2.1

www.igus.eu/easychain

www.igus.eu/E2000

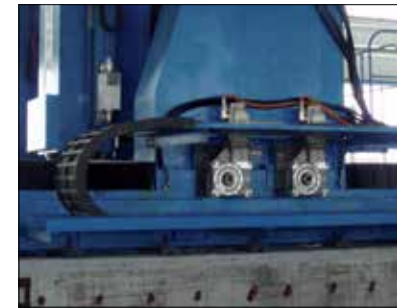
... and movements

igus® e-chains® and e-chainsystems® are suitable for universal applications:

- Various types of motions
- Carrying sensitive bus, data and fibre optic cables, as well as energy forms such as electricity, gas, air and liquids.
- Very high dynamic stresses
- Handles extreme environments and climates
- Compact installation
- Simple assembly of the system on site, as well as quick retrofit of cables

www.igus.eu/e-chain

In the field



Tested!

Fire safety standard EN45545

Test report	Dates of test	Test method		Parameter	Test result	Requirements fulfilled for hazard level:
14/0121-1	2014-01-22	T01	EN ISO 4589-2 Combustibility	Oxygen index	37.8 Vol.-%	HL1-HL2-HL3
14/1384	2014-08-12	T10.03 25 kW/m²	EN ISO 5659-2 Smoke density	D _s max (t0 min)	150	HL1-HL2-HL3
14/1385	2014-08-19	T12 600 °C	NF X 70-100-1/-2 Toxicity	CIT _{NLP}	0.42	HL1-HL2-HL3

igus® has certified the material igumid V0.GF for the fire safety standard EN45545. The material is optionally available for many igus® e-chains® and is approved for many applications with fire prevention regulations. With these test results igus® covers the requirement areas R22, R23 and R24.

igus® plastics for longer life®

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Home > Solutions for Public transport engineering

manus China Gold 2006 - Safety and freedom from maintenance in the compensation mechanism in Chinese rail tracks.

igus® products in the Public transport engineering - Tribopolymers with experience

e-chainsystems® and Chainflex® cables

- Free of maintenance and corrosion
- Low noise
- vibration dampening
- With Long Life
- Light
- Low

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 » Lifetime calculation
 » Application examples
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DryLin® Linear bearings
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Visit our industry website for more information, products and application examples as well as online tools.

Productfinder screw drives

Input Result Configuration

without flange with flange

Right-hand thread Left-hand thread

Transmitted torque Torque input Axial thread

Compatible thread size

Compatible specific material

Demands

Low moisture absorption Full locking required 90°C ambient temperature

Food grade (optional)

Lead screw diameter Stroke length

Pitch rate

Product finder and service life prediction for lead screw units.

Using our product finder for lead screw units, you can quickly find the right part and be provided with a service life projection. You have the option to configure and request your desired dimension for lead screw nuts and lead screws.

Productfinder screw drives

Input Result Configuration

Transmitted torque

Stroke length

Lead screw diameter

Overall length

End flange To the catalog Range editor

Productfinder screw drives

Input Result Configuration

Part No.	Price at this rate (€)	Series	Pitch	Lead	Stroke length	Lead screw diameter	Overall length	Material	Notes
2203	0.00	Standard	M 16 x 4	40	20	16	100	Alu	1700002000
2204	0.00	Standard	M 16 x 4	40	20	16	100	Alu	1700002000
2205	0.00	Standard	M 16 x 4	40	20	16	100	Alu	1700002000
2206	0.00	Standard	M 16 x 4	40	20	16	100	Alu	1700002000
2207	0.00	Standard	M 16 x 4	40	20	16	100	Alu	1700002000
2208	0.00	Standard	M 16 x 4	40	20	16	100	Alu	1700002000

For all tasks - for all batch sizes

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 resources for many industries.

Available from stock ...

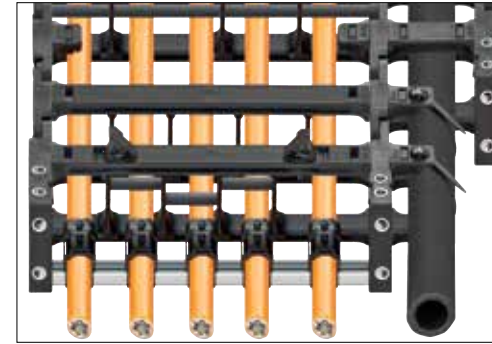


igidur® and igubal® bearing technology

Highly wear-resistant polymers, tested and proven: iglidur® plain bearings and igubal® spherical bearings from igus® are lubrication-free, maintenance-free, cost-effective, predictable, and versatile.

- Predictable service life
- Customer-specific solutions possible

www.igidur.eu www.igubal.eu



e-chainsystems® and accessories

100,000 types from stock. Energy chains and systems reduce downtime and increase the service life of cables and hoses.

- A wide range of versions and sizes
- 5 - 350 mm inner height
- For all types of applications and installation

www.igus.eu/e-chain

Available from stock

More than 97% of catalogue parts are available from stock – You can find detailed information about our delivery times online

www.igus.eu/24



drylin® linear technology

The lubrication- and maintenance-free product range for drylin® linear technology includes 5 independent type series.

- drylin® T guides as alternative to recirculating ball bearings
- drylin® N low-profile guides for confined installation spaces
- drylin® W universal linear construction kit with many profiles and carriage options
- drylin® R guides as construction kit – compatible with standard spherical bushing
- drylin® Q – anti-torque square guides
- drylin® SD lead screw units, lubrication-free, quiet at all speeds

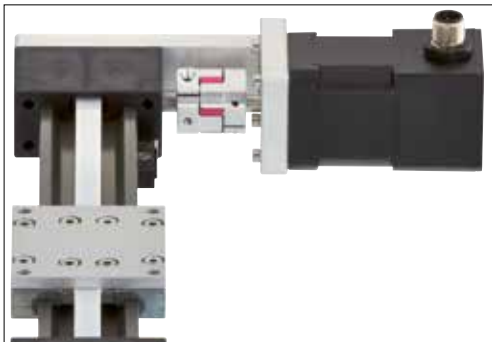
www.igus.eu/drylin-linear



chainflex® cables

More than 1,040 types from stock – smallest bending radii, highly wear-resistant jacket materials (PVC, TPE, PUR), halogen-free and/or flame-retardant, various certifications and standards (e.g. UL, CE, CSA, Desina, cleanroom). With guarantee!

www.chainflex.eu



drylin® drive technology

- Complete linear axis with lead screw unit (trapezoidal- or high helix thread) or toothed belts
- Any stroke length
- For manual or electric motor adjustments (NEMA/DC)

www.igus.eu/drylinE

... tested for millions of cycles

Research & Development

15,000 tests per year



Better products for less - a key element is the industry's largest test lab. 1,750 m² lab, more than 15,000 tests and 2 billion test strokes per year.

The igus® lab and field experience

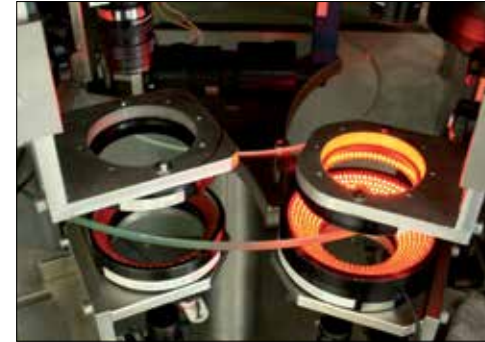
Cutting costs while also guaranteeing maximum process reliability – only those who conduct intensive research and testing will successfully bridge this gap. The industry's largest test lab conducts more than two billion test cycles per year on a total of 107 test rigs.

This means they can be relied upon completely in the field.

 www.igus.eu/test



Tribology testing in the plain bearing lab, igus® Cologne.



The igus® quality assurance

The quality policy of igus® is to identify and meet customer needs, and to always be a competent and reliable supplier. igus® has always been committed to produce products at the best available quality level, and to consistently develop innovative solutions.



Better for the environment

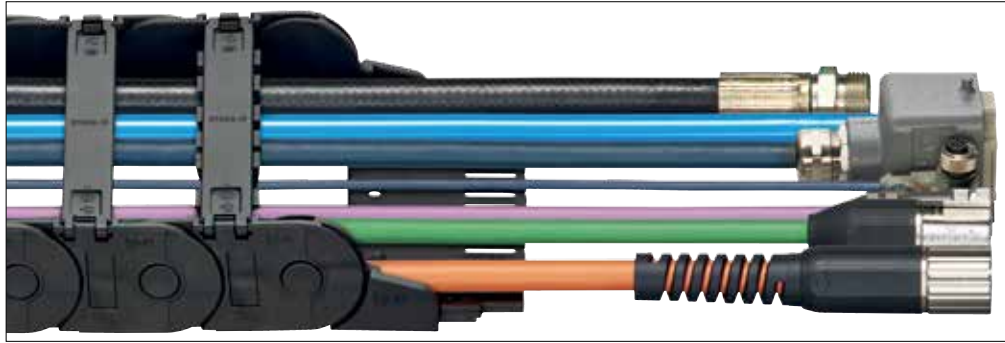
Because iglidur® is free of lubricants, no contaminants are discharged to the environment. The low weight of iglidur polymer plain bearings also help make them environmentally attractive.



Extensive test database

What is probably the world's largest database was created from more than 15,000 test. This database gives us the ability to select the right product for your specific application.

Harnessed energy supply systems and cables with connectors.



readychain®

Fully harnessed systems in 3-10 days, 700 systems per week in 11 readychain® factories worldwide – optimised assembly time and better cash flow.

- Eliminate storage costs for cables, e-chains® and connectors
- Cut turnaround times by half
- Flexibility for order fluctuation
- Reduce the number of suppliers and orders by 75%
- Minimise your machine downtime
- System guarantee - according to application

 www.igus.eu/readychain

readycable®

igus® provides more than 2,830 harnessed cables for drive technology according to 20 different manufacturer standards. Professionally produced, 100% tested.

- Servo, power and signal-/encoder cables
- No cutting charges, no surcharges for small quantities and packaging
- Cable length accurate to the centimetre per customer spec
- Smallest bending radius from 7.5 x d
- Reduce storage costs and increase cashflow
- From stock in 24-48 hrs

 www.igus.eu/readycable

The igus® installation service

Ensure error-free installation, avoid downtimes and additional costs - with the igus® e-chainsystem® installation service

- Products and services from a single source – with low logistics costs for you
- igus® system guarantee, customised for each application

 www.igus.eu/assemblyservice



igus® delivery service - fast & reliable.



From 24 hrs or same day*

All catalogue parts and individual components
for instance: one e-chain® link, 6 metre e-chain®, 3 strain reliefs, one iglidur® Q2 plain bearing, one drylin® linear plain bearing

24 - 48 hrs*

Customised systems

for instance: 11.46 m e-chain® with interior separation, guide rails, mounting brackets; 2.46 m drylin® profile rail with 2 carriages

3-5 business days

Harnessed systems

for instance: simple, harnessed e-chainsystems® with cables without connectors; lead screw unit based on specific requirements

10 business days

Complex systems and machined components

for instance: harnessed e-chainsystem® with cables of all types and connectors, interfaces, fittings, machined shafts to drawing, or mechanically shortened plain bearings, or tool-based injection-moulded parts

* Products leave our facility within the indicated time.

The indicated delivery time means time until shipping of goods.

motion plastics®

For 50 years, we have been driven by a single vision – motion plastics®: Innovations from plastics that move machinery.

Our core technology are tribo-polymers - high-performance plastics, that we engineer for optimised friction and wear. This technology makes us a world-leader in the development and manufacturing of energy supply systems and plain bearings.



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