

Indoor cranes

Energy chain solutions for
indoor crane builders and users



Tech up, cost down. It's our job.

igus[®].eu...
www.igus.eu/indoor-cranes

Cost down ...

... with igus® energy chain solutions for indoor crane builders and users



Without e-chain® system



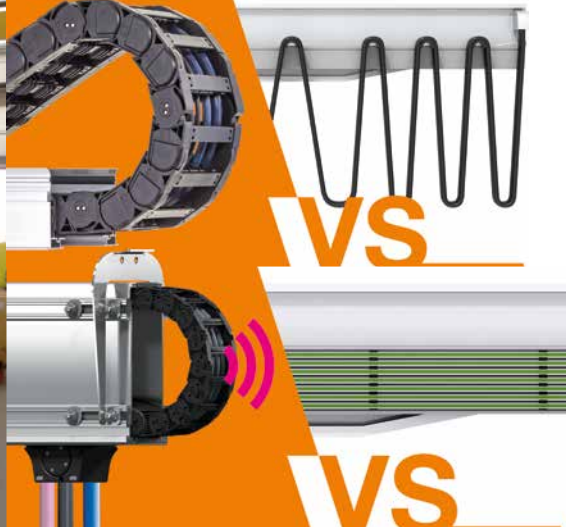
e-chain systems®

The alternative to cable trolley systems

Whether single-girder or double-girder cranes, slewing, overhead or jib cranes, igus® offers the suitable energy supply solution with flexible chainflex® cables. The space-saving igus® energy chain system made of high-performance plastics for trolley drive can be easily and safely installed either directly on or on top of the crane girder. igus® offers a reliable and modular alternative to classic cable trolley systems on cranes, which allows you to save cable length and to avoid downtime.



With e-chain® system



- Save over 50% cable length and cable weight
- Space-saving, compact design
- Easy and quick to assemble
- Very low maintenance
- All media types guided together in one system: energy, data and fluids
- Quick and easy installation and/or replacement of cables

The alternative to busbar systems

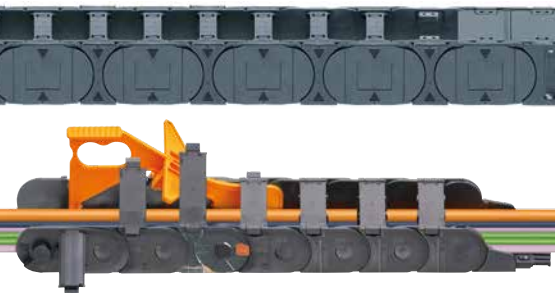
igus® also offers the right energy supply solution for crane travel with flexible chainflex® cables as an alternative to busbar system. In addition to the pure power supply, data cables and/or optical fibres ensure reliable and uninterrupted data transmission. By using special igus® energy chain materials, applications in demanding environments, for example under the influence of chemicals, can also be easily solved.

Tech up ...

... with motion plastics®



Horizontal guiding systems



1 e-chains®

Modular system, roller e-chain®, glide pads, heavy duty e-chain®

 igus.eu/e-chains

Pages 8–11



2 Guide troughs

Steel, aluminium or solid plastic

 igus.eu/troughs

Pages 12–15

4–5



3 guidefast and guidefast control

Modular system solution for cable guidance and control device guidance GFC+ on indoor cranes

 igus.eu/guidefast

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 igus.eu/guidefast-control

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guidelok swing GLO.S

Energy supply for jib cranes up to 10m travel length

 igus.eu/glo.s

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RBR rotating energy supply

Rotation & circular movement on trolley travels

 igus.eu/RBR

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autoglide 5

Gliding without guide trough

 igus.eu/autoglide5

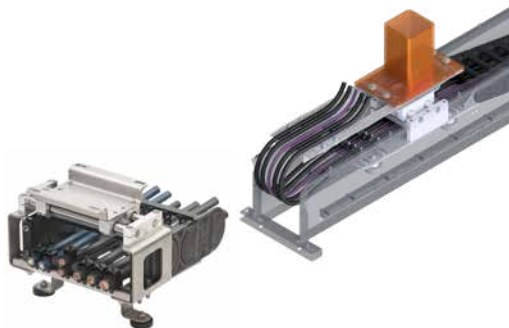
AG5.RAIL

Glide rofile

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 igus.eu/ag5.rail

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4 Floating moving end

Compensation unit for long travels

 igus.eu/fta

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Vertical guiding systems

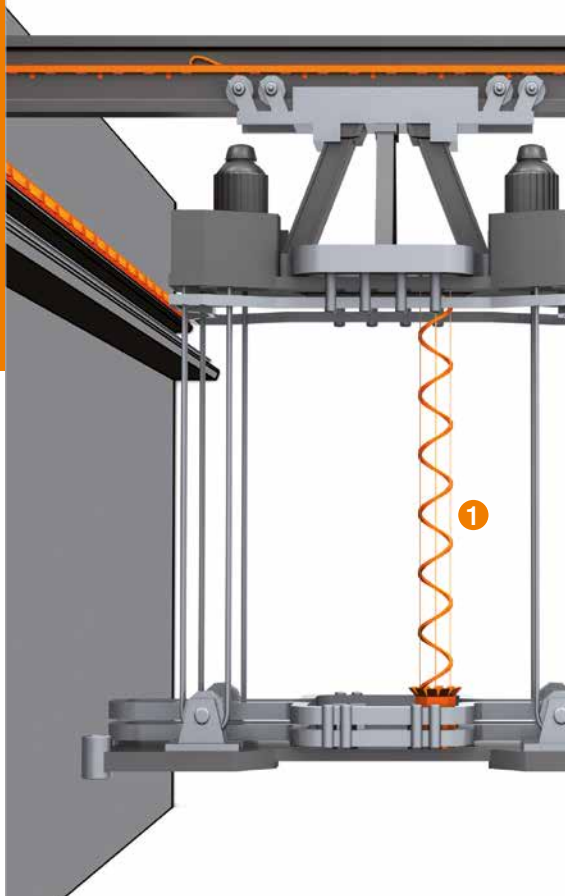


1 liftband

Space-saving cable guidance for vertical applications

 igus.eu/liftband

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Energy chain in zig-zag application

Modular, quiet, space-saving

 igus.eu/zig-zag

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2 e-spool®

Alternative to cable drum without slip ring

 igus.eu/e-spool

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e-drum

Can be rolled onto a drum, cables are protected

 igus.eu/e-drum

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Energy chains for indoor crane applications



Up to 36 months
guarantee on all
e-chains® ** ...

** See back of brochure

E4.1 modular system

The E4.1 energy chain is a strong, modular energy chain system, which increases your application's service life while bringing the cost down. The E4.1 system combines all the advantages of its predecessors and offers a wide range of options and attachments.

- High strength and robustness
- Quiet operation
- Quick assembly
- Large selection of accessories

 igus.eu/E4.1

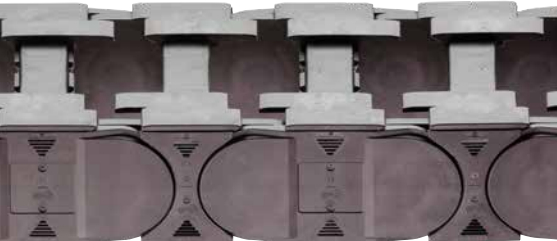


E4.1 glide pads

Glide pads can be easily retrofitted for extremely abrasive environmental conditions. The replaceable pads significantly increase the service life of gliding energy chain systems. Recommended for travel speeds between 1 and 3m/s.

- Friction-optimised and wear-optimised sliding elements to extend the service life of gliding e-chains®
- Easy to retrofit and replace
- Especially for gliding applications in environments with abrasive media

 igus.eu/glide-pad



E4.1 rol e-chain®

Rolling instead of gliding and save up to 37% drive power. Ideal for long travels or applications in harsh environmental conditions. The integrated roller chain links allow longer travels and significantly reduce wear on the e-chain®.

- Suitable for travel lengths up to 500m
- For travel speeds of up to 10m/s
- Easy changeover from gliding to rolling e-chain®

 igus.eu/E4.1R



Energy chains for indoor crane applications



E2.1 modular system

The E2.1 energy chain has been specially developed for all areas of application in the medium load range. It offers more usable interior space, is quieter, stronger and has a longer service life. The various E2.1 e-chain® series are often used in conjunction with the guidefast guide trough system on single-girder overhead cranes.

- 10% stronger compared to previous series
- Longer service life due to integrated gliding surfaces
- Suitable for travels up to 150m

 igus.eu/E2.1



E2/000 rol e-chain®

The E2/000 roller e-chains® make it possible to implement economically long travels. The integrated rollers reduce the wear and the required drive power of the e-chain®.

- For travel speeds of up to 4m/s
- Low wear and longer service life
- Easy changeover from gliding to rolling e-chain®



E4HD heavy-duty e-chain®

The E4HD series have been specially developed for use in extremely harsh and very abrasive environments as well as for very high additional loads. Particularly large gliding surfaces allow a longer service life, even for gliding applications. The heavy duty e-chain® range is also available as roller e-chain®.

- High strength
- Large gliding surfaces
- Easy changeover from gliding to rolling e-chain®



www.igus.eu/indoor-cranes

Guide troughs made of aluminium, galvanised steel or stainless steel



Steel guide troughs

- 2-piece steel guide trough assortment
- Standard and heavy duty bottom clamps
- Plastic glide bar made of high-molecular, abrasion-resistant PE
- Galvanised steel or stainless steel (materials: AISI 304, AISI 316L and AISI 316Ti)
- Conductivity according to DIN EN 61537 - standard
- Optional roof/enclosure as protection against external environmental influences



igus.eu/steel-trough

Aluminium guide troughs

- 2-part aluminium guide trough with modular system in heavy duty design
- Corrosion-free, seawater-resistant aluminium profile according to EN AW-6060
- Flexible assembly - fastening on substructure independent of profile lengths and butt joints
- Polymer glide bar made of high-molecular-weight PE
- Optional high-speed glide bar with five times higher abrasion resistance
- Glide strips for wear protection at high-speed
- Optional trough clip for fixed installation of cables on the outside of the guide trough
- Optional rubber profile to minimise running noise



igus.eu/hs-glide-bar



www.igus.eu/trough-clip



igus.eu/aluminium-trough



Solid plastic guide troughs

The guidelite plus is made of chemical resistant EG material and has a high guiding stability. This makes it possible to use it even in demanding environments.

- Resistant to chemicals and corrosion
- Very low weight
- Connection of the individual segments via fixed hooks and slide-in connections
- Available as a complete system with energy chain made of EG material, for example for galvanising plants, fertilizer production and other demanding environments

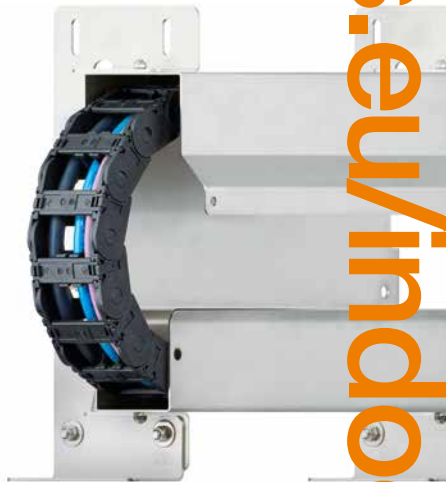
 igus.eu/guidelite-plus

Encased guide troughs

The modular design and compact design of the basic flizz ensure easy installation.

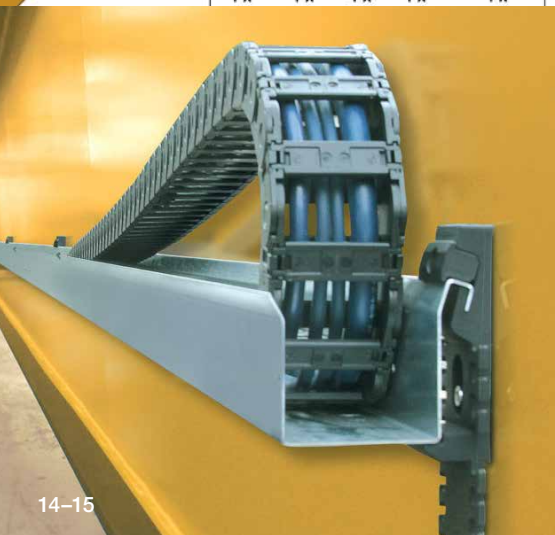
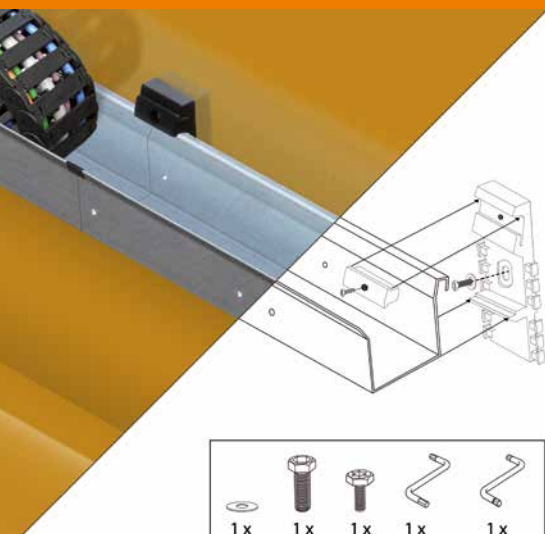
- Suitable for travels up to 100m
- Protection against weather and dirt
- Cost-effective, enclosed complete system
- Optionally available with a special floating moving end

 igus.eu/basicflizz



www.igus.eu/indoor-cranes

Guide troughs



guidefast guide trough

Modular solution for cable guidance on indoor cranes

The guidefast guide trough is mounted on the side of the crane girder so that welded brackets are not necessary. Assembly times are kept to a minimum as the guide trough only has to be hooked into the holder and then secured with the trough brackets. The small number of components and the fixed trough width also contribute easy assembly.

- Save up to 80% installation time
- Fits virtually any standard crane girder
- Trough holder with integrated cable attachment for fixed installation along the trough system
- Conductivity according to DIN EN 61537: as standard with special connector

 igus.eu/guidefast



guidefast control

GFC+ control device guide on indoor cranes

The control device guidance guidefast control is mounted directly on the crane girder. guidefast control can be fitted quickly and easily to the crane girder, as for the guidefast guide trough for the trolley hoist cable guide. The guidefast trough ensures that the moving arm remains securely located in the trough, even during short-term peaks in tensile strain. The roller-guided moving arm can be shifted easily along the entire crane girder, independent of the position of the hoist.

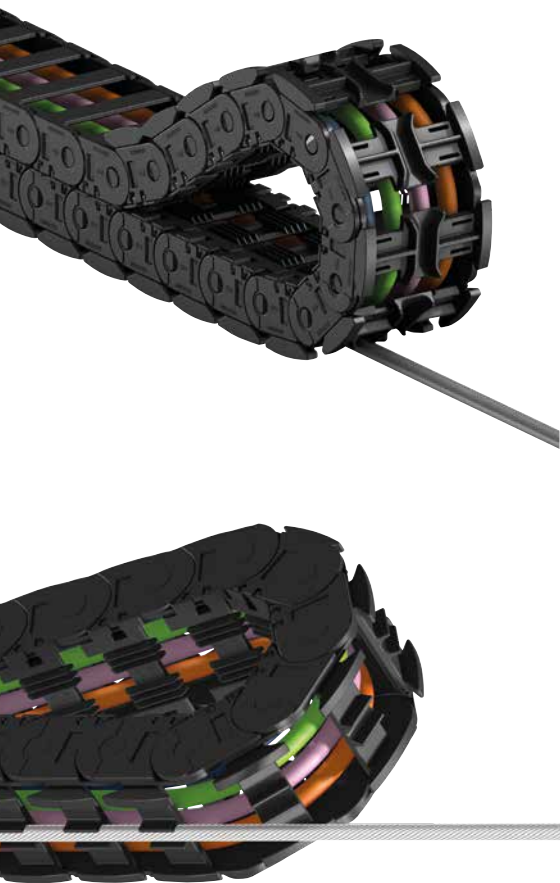
- Safe and space-saving, no tangling of control device cable
- All control panel manufacturer connectors available



[igus.eu/guidefast-control](https://www.igus.eu/guidefast-control)

www.igus.eu/indoor-cranes

Energy chains



autoglide 5

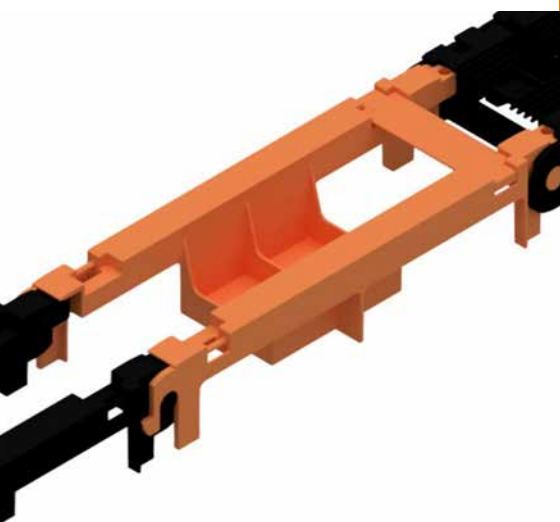
Gliding without guide trough

The igus® autoglide 5 energy chain system carries energy, data, liquids and air in one system reliably and virtually maintenance-free. Special guide elements fix the energy chain on a guide rope which is tensioned along the travel. This eliminates the need to install a guide trough. Reverse running autoglide 5 energy chain systems can also be implemented with the aid of a fixed point bridge.

- Compact energy supply system
- Suitable for travel lengths up to 80 metres
- For travel speeds of up to 4m/s
- Assembly times 88% less than for a conventional standard solution with guide troughs



igus.eu/autoglide5



AG5.RAIL

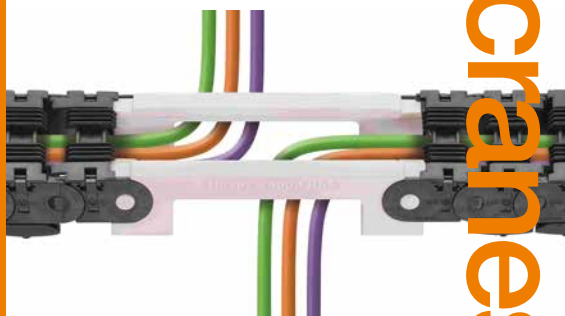
Glide profile

Glide profile as an alternative for the stationary area of the energy chain system in the lower run. Due to the larger pitch of the AG5.RAIL and the simplified design, the overall system is up to 21% more cost-effective.

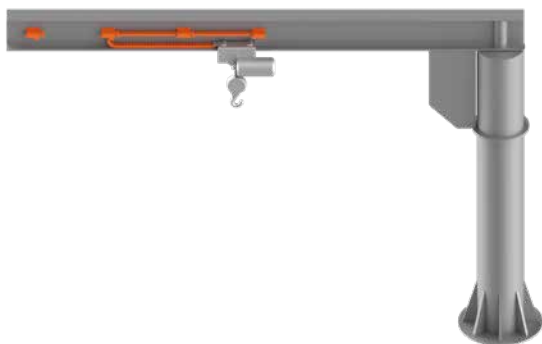
- Quick assembly of the plug-in segments
- Flexible infeed of cables
- Optionally with direct integration of igus® i.Sense condition monitoring



[igus.eu/AG5.RAIL](https://www.igus.eu/AG5.RAIL)



Energy supply for jib cranes up to 10m travel



guidelok swing GLO.S

Energy supply for jib cranes

Until now, hanging cables on jib cranes have often posed a high risk of getting tangled and damaged. guidelok GLO.S is compactly mounted on the crane girder and increases safety during operation.

- Very slim, space-saving design
- Long service life due to safely guided cables
- No cable loops hanging down
- Cost-effective – without the need for any guide troughs

 igus.eu/glo.s



Before

Industrial vehicles can get entangled in cable loops that are hanging down.



After

With the GLO.S, the cables are safely guided at the level of the crane girder.



Rotation & circular movement on trolley travels



Energy chains for rotary applications

The rotary modules consist of two circular guide elements. A part of the guide trough is attached to the static section of the system and the other part on the rotating section of the system. The e-chains® from the E4.1 series are used for the rotary modules.

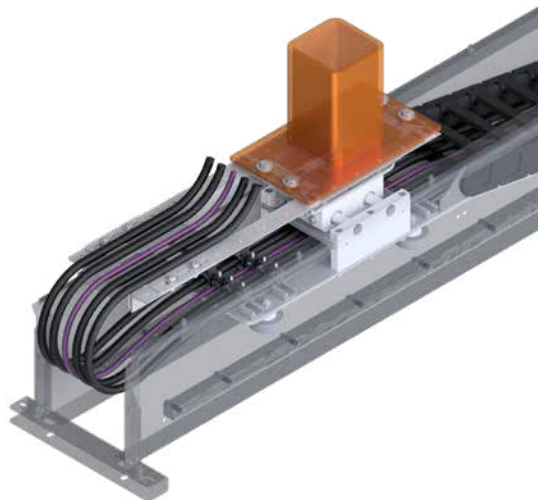
- Maximum rotation angle in minimal installation space
- Rotation speed of up to 360°/s
- Lighter and more compact than static guide troughs
- Minimum displacement forces and maximum service life due to divided guide trough
- Modular construction with standardised mounting options
- Integrated strain relief and cable guidance in the guide trough

 igus.eu/RBR



www.igus.eu/indoor-cranes

Compensation unit for long travels



Floating moving end

Compensation unit for lateral offset between plant and e-chain® system. Especially with longer travels, the e-chain® system is difficult to install, for e.g. exactly parallel to the crane rail. Deviations of more than $\pm 5\text{mm}$ over a distance of 100m and more are difficult to prevent. Wear on crane wheels and crane rails can also contribute to increased deviation. The floating moving end prevents lateral wear on the e-chain® and ensures force-free operation of the energy chain. This extends the overall service life of the application.

- Heavy duty design for tough applications and harsh environments
- Optionally with integrated igus i.Sense EC.P push/pull detection system
- Extension of expected e-chains® service life



igus.eu/fta

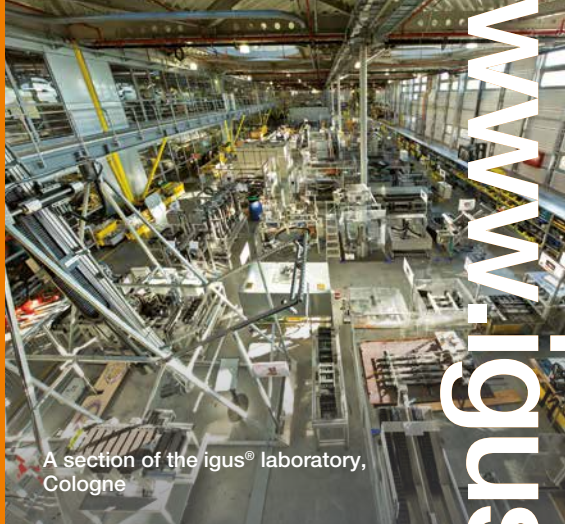


Test laboratory for energy chains

Largest test laboratory in the industry

At igus® in Cologne, over 10 billion test cycles are carried out per year at a total of 180 test stations using energy chains and chainflex® cables. We test our products under real conditions with the aim of offering the optimum energy supply for every application and being able to make reliable statements about the expected service life. For this reason, we - as the only supplier worldwide - can offer **a guarantee of up to 36 months** on our energy chains.

Endurance and wear tests on short and long travels



A section of the igus® laboratory, Cologne



Determining the maximum sag of an e-chain®, here as a "chain-in-chain" solution

- 2,147m² (total area igus® test laboratory 3,800m²)
- More than 15,000 tests per year for all products
- 53 testing machines
- 10 billion e-chains® cycles per year in e-chains® and chainflex® test laboratory
- Three billion test cycles for e-chains® alone



igus.eu/e-chains-test-lab

www.igus.eu/indoor-cranes

Vertical cable guidance

liftband

Space-saving cable guide for vertical applications

Modular e-chain® band for vertical cable guidance on indoor cranes. Side bands stabilise the e-chain® and ensure that the chain is safely deposited in the collection basket. A low system height allows the lift band to be installed even in confined installation spaces.

- Maximum extension length up to 13m
- Maximum extension and retraction speed 1m/s
- Safe e-chain® and cable storage in a solid collection basket
- Light and space-saving design

 igus.eu/liftband





Energy chain in zig-zag installation

Modular, quiet, space-saving

The modular design of energy chains makes this space-saving and unconventional solution possible. The folded energy chain is stored in a custom-made basket. When extended, the energy chain unfolds and follows quietly. When retracted, the e-chain® system is safely stowed back in the basket.

- Suitable for travels up to 40m
- Safe guidance, even of large cable packages
- Easy replacement of cables/hoses

 [igus.eu/zig-zag](https://www.igus.eu/zig-zag)



Vertical cable guidance



e-drum

Can be rolled onto a drum, cables are protected

Uninterrupted cable guidance for vertical applications in overhead cranes. The modular system of the e-drum enables the user to create a compact and durable guidance and drum-reeling system for energy, data, air and fluids.

- Suitable for travel lengths up to 21m
- Maximum extension and retraction speed 1m/s
- Uninterrupted energy supply without slip ring
- Constant tensile strain
- Easy replacement of cables/hoses

 igus.eu/e-drum



e-spool®

Alternative to cable drum without slip ring

Protect and guide various media in an energy chain system. The e-spool® combines two different energy supply systems in a unique way: a standard energy chain is guided by a roller and, thanks to an integrated retaining spring, ensures exactly the right length and tension of the energy supply system at all times. In the starting position, the energy chain is completely rolled up to save space. The twisterband connects the roller to the shaft end block, which serves as an interface to the fixed cables.

- Energy supply is possible in all directions (horizontal, vertical, diagonal)
- Suitable for travel lengths up to 14m
- Maximum extension and retraction speed 1m/s
- Cables can be retrospectively added or changed

 igus.eu/e-spool



www.igus.eu/indoor-cranes

chainflex® for the crane industry

More than 1,354 chainflex® cables for
use in e-chain systems®

- Wear-resistant TPE, PUR and oil-resistant PVC outer jackets
- Halogen-free and/or flame-retardant materials
- Travel lengths of 400m and more
- Up to 36 months guarantee for chainflex® cables*
- Various approvals and standards:
UL, CSA, CE, DESINA, ...



www.igus.eu/chainflex



igus 36-month
chainflex cable
guarantee and
service life
calculator based
on 2 billion test
cycles per year



Guarantee
igus chainflex

36

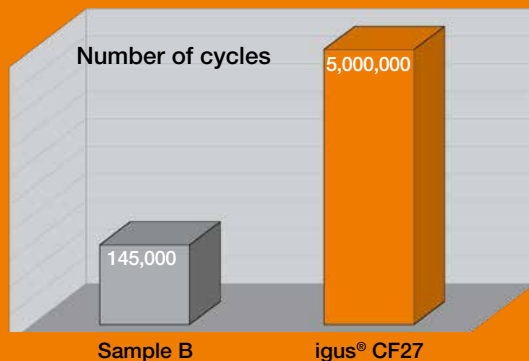
up to 36 months guarantee

*

Up to 36-month guarantee for all cables*...

** See back of brochure

Tested!



chainflex®
control cable

chainflex®
motor cable



Corkscrew after 145,000 double strokes (Sample B)

igus® CF27: no wear even after 5 million double strokes

Single core CF330.D and CF340

igus® chainflex® CF310.

The halogen-free TPE individual cables for the high levels of mechanical stress on cranes and during plant construction.

- UV-resistant outer jacket
- Oil resistant, bio-oil resistant
- Flexible at low temperatures
- PVC and halogen-free
- Nominal voltage 0.6/1kV
- Bend radius in the e-chain®: 7.5xd

Halogen-free motor cable CF37.D and CF38

igus® chainflex® CF37.D

The halogen-free TPE motor cable for the high levels of mechanical stress on cranes and during plant construction.

- UV-resistant outer jacket, gusset-filling extruded
- Oil resistant, bio-oil resistant
- Flexible at low temperatures
- PVC and halogen-free
- Nominal voltage 0.6/1kV
- Bend radius in the e-chain®: 7.5xd

Fibre Optic Cables

igus® chainflex® CFLGG

Fibre Optic Cable (62.5/125 or 50/125), 2, 6 or 12 cores – tested for several million reverse bends. Guiding of fibres in gel-filled tubes for applications down to -40°C

Single-core medium voltage cable

igus® chainflex® CF Crane.

Shielded highly flexible single cores for medium voltage of up to 6/10kV for the highest requirements in crane construction, heavy engineering, etc. : 1x25/16mm² up to 1x95/16mm² cross section.

Data cables, e.g. CF211, CF240, CF11

igus® chainflex® CF11.

are available for data systems in e-chains® applications. Also for large cross sections, e.g. with 3x2x2.5mm² or for live supply cores in a cable.

Control cables, e.g. CF5/CF6, CF9/CF10

igus® chainflex® CF6.

PVC, PUR, TPE - an extensive product range is available for any applications as unshielded or shielded cables. Inner and outer jackets guide the cores smoothly over long distances.

More than
1,354 chainflex®
cable types from
stock

Solutions for condition monitoring: i.Sense



Extend product runtimes efficiently with smart condition monitoring solutions

With the increasing automation of port equipment and the shift of the operator to an office environment, sensor technology can take over the role of monitoring the condition of components and providing maintenance related information.

Where there is deadline pressure and safety must be guaranteed, intelligent concepts in the form of predictive maintenance make the most sense. Whether for a new Industry 4.0 project or efficiency-driven retrofitting, our smart plastics solutions are available as universal modular systems and can be individually adapted to any system.

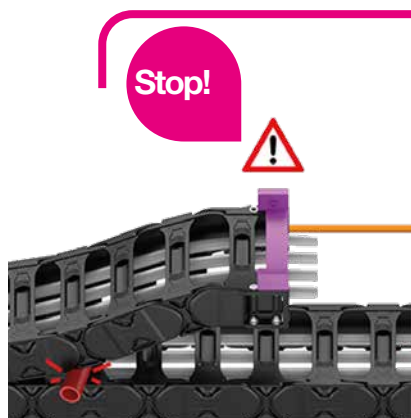
- Detects machine status regularly or continuously
- Uses fast switch-off to avoid crashes
- Uses modules to record data



www.igus.eu/condition-monitoring

Condition Monitoring

Condition monitoring is the easiest and quickest way to turn many igus® products into self-monitoring, smart plastics products. Sensors are mounted to measure values (such as temperature, forces and sound waves/vibrations) within pre-defined limits. They immediately report any unexpected operating state or sound an alarm. This information provides the basis for taking subsequent steps, such as maintenance or shutting down the system.



IS.EC.P

Control cabinet

- Simple module installation on top-hat (DIN) rail
- Integration into the existing plant control system via NC contacts
- 24V DC voltage supply



Module

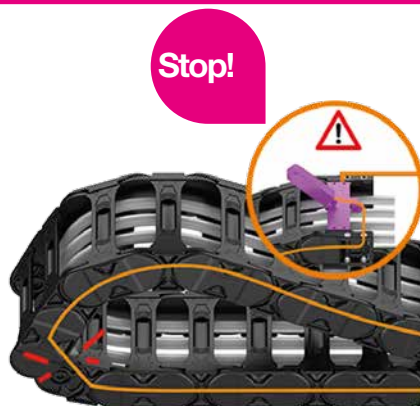
- Evaluate all sensor data based on igus® algorithms
- Inform the plant controls in real time of any mechanical faults that occur



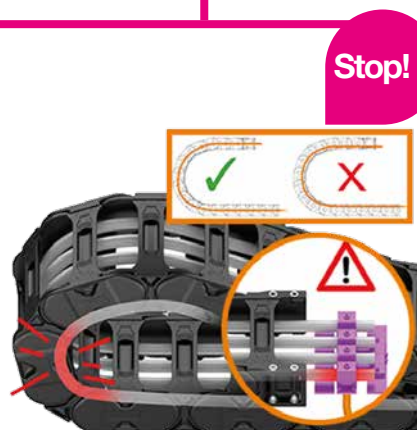
i.Sense:module II

Sensor units

- **IS.EC.P:** push/pull force detection for energy chains
- **IS.EC.B:** energy chain breakage detection
- **IS.CF.P:** tensile force monitoring for cables



IS.EC.B



IS.CF.P

Predictive maintenance solutions:

i.Cee

The central element in this area is the i.Cee software. This software, in conjunction with sensors on the energy chain, the plain bearing or a linear carriage, turn the products into smart products. This upgrade can determine the maximum service life of your igus® product. Algorithms adjust the service life and the service time according to use.



www.igus.eu/predictive-maintenance

Predictive maintenance

In contrast to pure condition monitoring, predictive maintenance solutions use sensors and software to create a system that enables dynamic service life calculations and optimal maintenance times. Predictive maintenance is the next step towards the implementation of a comprehensive smart Industry 4.0 system. The goal is always to maximise system and user safety as well as product life.

i.Cee hardware

i.Cee:box

- Installation on or in the control cabinet for wireless communication with the sensor modules via LoRa technology
- Central unit for communication with LoRa sensors
- Supply of several assets possible
- Power supply via Ethernet cable
- Additional connection of i.Sense modules via USB possible

i.Cee:plus II

- Installation on top-hat (DIN) rail in control cabinet
- Storage and processing of sensor data
- Constant calculation of the product's service life
- Upgrade to Cloud possible

i.Cee:custom

- igus® supplies the i.Cee software and uses the customer hardware
- Individual solution development with the customer

i.Cee:net

- Connection to the igus® cloud is possible

Sensors

provide abrasion and movement data



Two options for data transmission

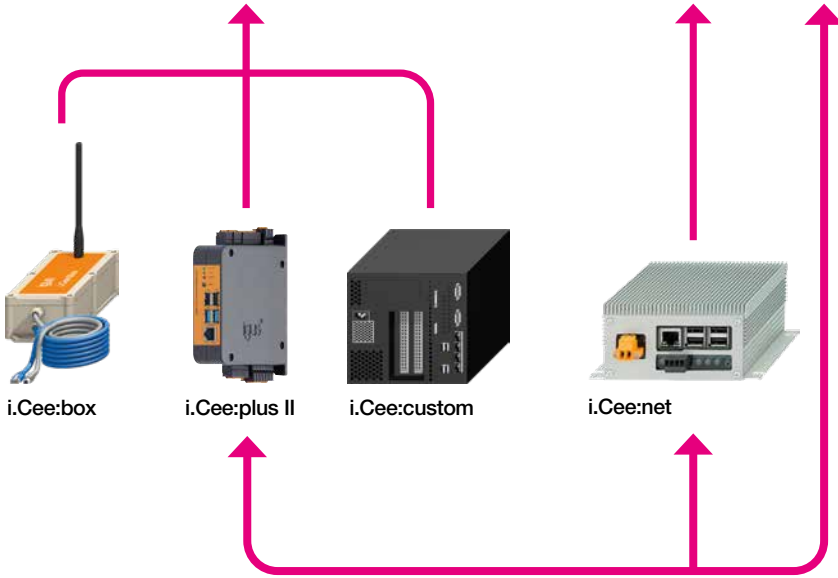
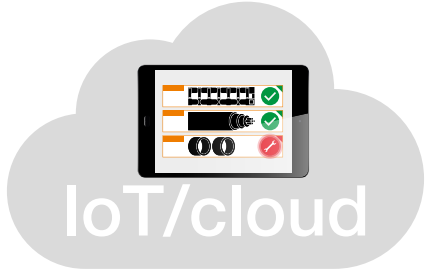
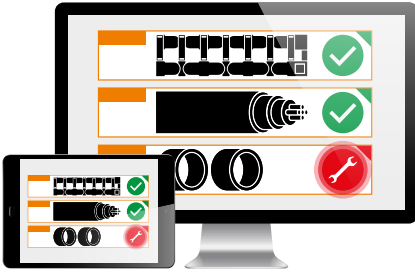
Offline:

i.Cee.software

i.Cee.local

Online:

i.Cee.cloud



www.igus.eu/smart-cranes

Plain bearings without lubrication extend maintenance intervals



Do without additional lubricants and use individually customised plain bearings. Predictable service life and high resilience increase reliability.



No lubrication



Dirt-resistant



For high loads



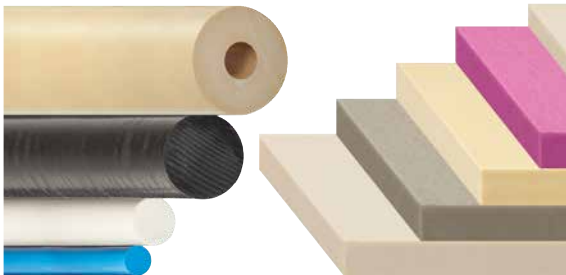
Vibration damping



Corrosion-free



UV-resistant and weatherproof



For application in particularly highly loaded bearing points: iglidur® TX1 and TX2

- Particularly low wear in heavy-duty areas
- Composite bearings made with high-strength filament fabric
- Resistant to dirt
- Wear-resistant and dimensionally stable



www.igus.eu/TX1

www.igus.eu/TX2

Prevent dirt ingress: iglidur® SG03 plain bearing with felt seals

- Clean bearing point due to felt seal
- Ready-to-fit
- Protects the shaft against wear



www.igus.eu/SG03

Reliable in dirt, vibration, cold and heat: iglidur® bar stock

- Available as round bars, tubes or plates in various lengths
- Long service life
- For dynamic applications, shapes can be individually adaptable
- Low coefficient of friction and wear



www.igus.eu/barstock

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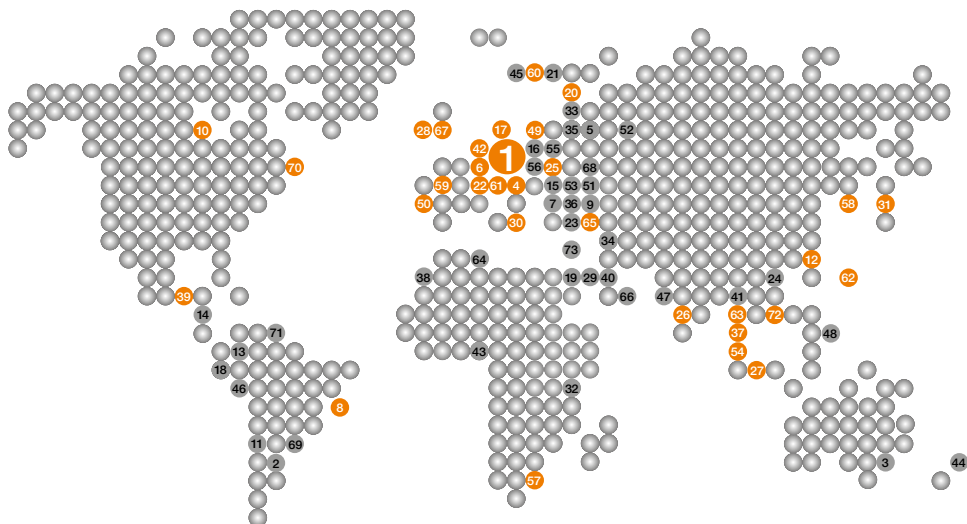
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