

Woodworking

igus® solutions for the woodworking industry



Photo courtesy of
WEEKE Bohrsystem GmbH

plastics for longer life® ... igus

... industry ...

... www.igus.eu/woodworking ...

Reduce costs ...



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No chance for chips!

Wood working produces chips and dust. Therefore chip repellent or chip safe solutions are important.

igus® has products in its wide range that covers all requirements in the wood industry. In dust and chips, the R4.1L e-tubes protect your cables and hoses with its **very tight sealing** and **easy to open** feature. The chainflex® cable range gives you reliability, for example with CF98/99 TPE control cables, for the **smallest bend radii**, on a milling head - everything with a guarantee of 36 months*.

Take a look at our extensive range of dry-running linear guides and plain bearings; thanks to the **freedom from lubrication and maintenance**, they are a perfect choice for the wood industry, because dust, chips and dirt will not stop them!

Highlights for your industry:

- Dust-proof energy chains
- Enclosed energy tubes – large, small, IP-tested
- Novel energy supply system replaces corrugated hoses
- Cables for extreme motions and radii from 3.8 x d
- 36 month guarantee* for chainflex® cables
- Harnessed readychain® systems in 3-10 days
- 4,400 harnessed drive cables in accordance with 24 manufacturer standards
- Dry-operating and dirt-resistant plain and linear bearings
- Online configurators, product finders and service life predictors for the products of your industry

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/wood

I look forward to speaking to you.

... .. improve technology ...

Photo courtesy of
IMA Klessmann GmbH



... with motion plastics® from igus® ...

* 36 months or up to 10 million double strokes (5 million for cables of the chainflex® M family); whichever is first

Dust-proof ... enclosed ...

A selection of 100,000 e-chain® modular kit parts, for the wood machine industry. For example ...



... Protects from dust, fast to assemble and harness – E4.1L

- For application in dusty environments
- More cost-effective than most steel chains
- Very quick mounting
- Easily openable, quickly harnessed
- Versatile accessories, as e-chain® and e-tube

www.igus.eu/E4-1L



... Cost-effective, large, enclosed: Protection against dirt and chips – R2.75

- Tightly sealed design with stable double stop-dogs for high fill weights and unsupported lengths
- Cost-effective
- Inner height: 75 mm

www.igus.eu/R275



... Low vibration, smooth running, fast: For high speeds – E6.1

- For highly dynamic applications
- For extremely smooth and quiet operation and very low vibration
- Very quiet running, from 38 dB(A)

www.igus.eu/E61



... Unsupported corrugated hose: The corrugated hose that can do more – e-skin

- Defined direction of motion, supports itself
- Also for short unsupported lengths
- Modular expandable tube
- Internal separation modules provide a good cable guidance
- Tight-sealing mounting brackets

www.igus.eu/e-skin



... Small, strong, flexible Small sized "all-rounder" – E2 micro

- For confined spaces
- Double stop-dogs for high fill weights and unsupported lengths
- Inner height 10 and 15 mm

www.igus.eu/E2



... Modular kits for all installation types The "all-rounder" – System E4.1

- Strong, easy to open e-chain® for large unsupported lengths
- Supplied also as enclosed tube
- Inner heights up to 162 mm

www.igus.eu/E4-1

Small radii ... cost-effective ...

A selection of 1,244 chainflex® cable types in the range for the wood machine industry. For example ...

... save with less demanding requirements



PVC control cables CF130.UL/CF140.UL

For medium duty applications, PVC exterior jacket (CF140 shielded), flame-retardant

www.igus.eu/CF130



PVC motor cables CF885/CF886

igus® chainflex® M cable range – up to 57% more cost-effective than comparable chainflex® types

www.igus.eu/chainflexM

... for high demanding requirements, narrow rotational motion, small radii



TPE control cable CF98/CF99

For very heavy duty applications, especially for small radii, TPE outer jacket (CF99 shielded)

www.igus.eu/CF98



PVC motor cables CF31

For heavy duty applications, PVC outer jacket, shielded, oil-resistant and flame-retardant

www.igus.eu/CF31

... EtherCAT-Bus cable, Hybrid-Servo cable



PVC-Ethernet cable/CAT5/GigE CFBUS.PVC

For medium duty applications, PVC exterior jacket, shielded, oil-resistant and flame-retardant

www.igus.eu/CFBUS



PVC hybrid servo cables CF220UL.H

For unsupported applications and medium duty for different drive manufacturers.

www.igus.eu/CF220UL.H



Save money with reliability and innovation ...
3 year igus® guarantee for every chainflex® cable.

Guarantee statements reduce risk plant engineering. With our unique igus® guarantee for ALL chainflex® cables, we are providing predictable security for 36 months, or up to 10 million double strokes (5 million double strokes for very cost-effective chainflex® M cables).

Guarantee
igus chainflex

36

month guarantee

... the right solution ...

e-chains® and chainflex® cables: quickly delivered from stock ...



Photo courtesy of IMA Klessmann GmbH



Guiding of larger hoses: extender crossbars

- Suitable for hoses with an outer diameter of up to 270 mm
- Extender crossbar can be removed/opened/pivoted (Depending on e-chains® series)
- Matching modular interior separation for segmentation of the interior space

www.igus.eu/extender-crossbars



Chip-proof and unsupported on long travels: guidelok

- Smaller e-chains® dimensions for any given unsupported length possible
- More cost-effective than most steel chains or elaborate gliding systems
- Open trough systems possible

www.igus.eu/guidelok



Reliable multi-axis guidance: triflex® R and CF Robot

- Multi-axis "3D e-chain®", torsion $\pm 10^\circ$ per chain link
- Enclosed version, chip-proof
- Large product range of torsionable cables

www.igus.eu/triflexR

www.igus.eu/CFROBOT

for woodworking machines ...

... for all applications and conditions



Extremely tight sealing for direct use in chip areas: RX e-tube

- Openable, IP tested e-tube
- Applicable in direct chip area
- Round contour, chips are repelled

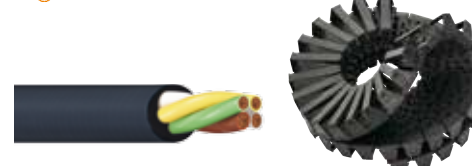
www.igus.eu/RX



Ready-to-install solutions, completely harnessed: readychain®

- Ready to install systems, from connectors to harnessed cables up to complex energy supply modules, delivered in 3-10 days
- From one off to mass production, assembly on site
- With system guarantee

www.igus.eu/readychain



Compact and space-saving for e.g. milling heads: twisterband and CF98

- Perform rotary motion 3,000° - 7,000° in the smallest space
- Can be installed vertically and horizontally
- Easy to fill, modular

www.igus.eu/twisterband

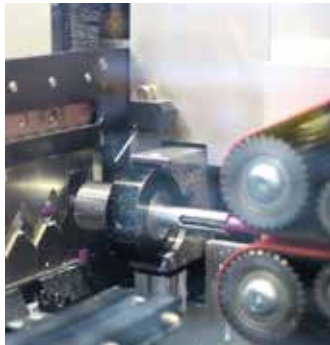
www.igus.eu/CF98



Industrially harnessed ...



The 4,700 qm readychain® factory in Cologne



Cable processing



Harnessing



100% testing

readychain®: harnessed e-chainsystem® reduces installation time by 3-8 hrs.

1,600 systems produced per week in 12 readychain® factories around the world – assembly time optimised to increase your cash-flow. The largest factory for harnessed readychain® systems with 4,700 m² and 160 employees in Cologne.

- Eliminate storage costs for cables, e-chains® and connectors

- Cut turnaround times by half
- Flexibility when orders vary
- Reduce the number of suppliers and orders by 75%
- Minimise your machine downtime
- System guarantee – depending on the application

 www.readychain.eu


... delivered ready to install ...

... 80% process costs ... 95% save time ...

Always the right harness for your application

Basic
e-chain® with fitted cables
and strain relief in the system
 www.igus.eu/RCbasic



Preferred in the wood industry
Standard
e-chain® with cables
and appropriate connectors
 www.igus.eu/RCstandard



Standard +
Pre-harnessed e-chainsystems®
with appropriate sheet-metal parts
 www.igus.eu/RCstandard+



Premium
Ready to mount complete system
with transport rack
 www.igus.eu/RCpremium



readychain® speed: Exchanged in seconds

Plug & Work. The new readychain® speed makes connecting harnessed e-chains® easier than ever before. Completed in seconds – without tool. Connector and mounting bracket are combined into a single unit for the shortest possible downtime.

 www.readychainspeed.eu



Matching coupling

Dry-operating and ...

Lubrication-free made easy.
For example ...

... extremely low profile



drylin® N low profile guides

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

 www.igus.eu/drylinN

... as alternative to ball bearings



drylin® R shaft guides

- 100% lubrication-free
- Dimensions identical to standard commercial ball bearings
- Shafts, shaft support blocks and accessories available from stock
- Replaceable liners

 www.igus.eu/drylinR

... Drive: trapezoidal, high helix thread or toothed belt



drylin® linear axes

- 100% lubrication-free
- For format adjustments and 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

... dirt resistant ...

Maintenance-free plain and linear bearing solutions.
For example ...

... the best shaft for your linear plain bearings

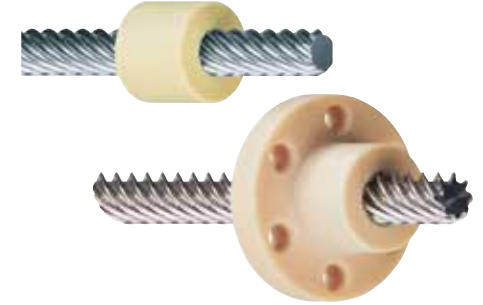


drylin® shafts

- 8 different shaft materials
- Lightweight
- Round or supported

 www.igus.eu/drylin

... Linear drive through rotational motion

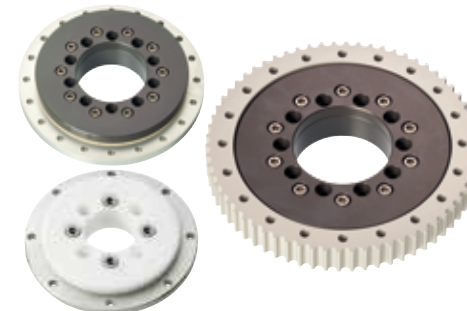


drylin® lead screw technology

- Efficient and durable dryspin® technology
- Self-locking trapezoidal and metric threads
- Lead screw nuts made from 5 iglidur® materials

 www.igus.eu/leadscrew-technology

... lubrication-free, dirt resistant slewing ring bearing



igidur® PRT slewing ring bearing

- Cost-effective, low maintenance, lubrication-free
- Simple assembly, interchangeable sliding pads
- High wear resistance
- For very high loads and high stiffness
- Extensive accessories

 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
- Lightweight

 www.igus.eu/xiros

... dry-tech® bearing technology

Linear travel without lubrication ...



Rolling and sliding for easy movement – drylin® hybrid bearings

- Combines rolling and sliding
- Low driving forces
- Bearing with single or double roller or as complete carriage

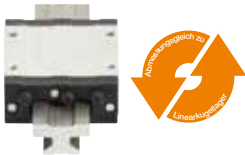
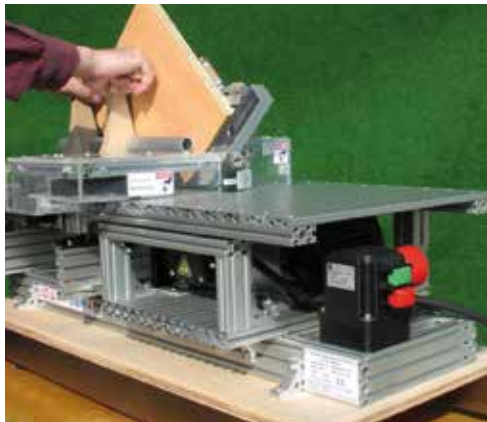
www.igus.eu/drylinW-hybrid



Linear guide for virtually unlimited leeway in design – drylin® W

- Complex systems with 14 different profiles and more than 50 carriage options
- Extreme flexibility, simple assembly
- Resistant to dirt thanks to dry operation
- Smooth and quiet operation

www.igus.eu/drylinW



Dimensions are identical to recirculating ball-bearing guides – drylin® T

- Specially made for applications in the automation and handling sectors
- Dimensions are identical to recirculating ball-bearing guides
- Adjustable bearing clearance, automatic clearance adjustment

www.igus.eu/drylinT

... fit and forget.

... made easy



Lubrication-free and dirt-resistant mounting – iglidur®

- Wear-resistant polymers
- 16 Standard materials for (almost) every application
- High wear resistance
- Dirt resistance
- Service life can be calculated online

www.igus.eu/iglidur



Easy to cut and glue – tribo-tape

- Suitable for a lining surfaces and shapes where wear is an issue
- Easy to cut and glue
- Less space required
- Optional self-adhesive back

www.igus.eu/tribotape



Dirt resistant igubal® spherical bearings

- Self-aligning bearings made completely from high tech plastics.
- Different types of designs, e.g. spherical, flanged and pillow block bearings

www.igus.eu/igubal



Tested! Service life ...

igus® chainflex® cables for e-chainsystems®. 2,700 cables tested per year. 58 test facilities. Tested, tested, tested ... For example:



Test 3089:
Ethernet-Bus cable
Tested for 76 million strokes

Ethernet-Bus cable CFBUS.045 tested in e-chain®. More than 76 million strokes with a bending factor of 9.4 x d.

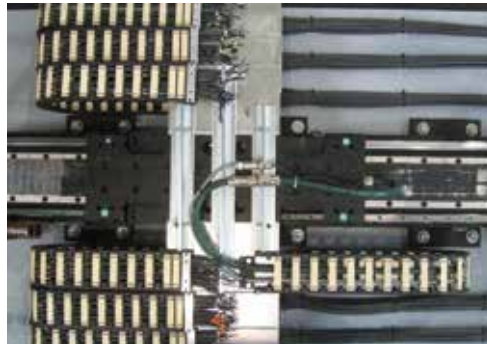
www.chainflex.eu/test3089



Test 3621:
Control cable
Tested for 138 million strokes

Control cable CF98.05.04 tested in e-chain®. More than 138 million strokes with a bending factor of 3.2 x d.

www.chainflex.eu/test3621



Test 3479:
Measuring system cable
Tested for 65 million strokes

Measurement system cable CF11.D tested in e-chain®. More than 65 million strokes with a bending factor of 7.1 x d.

www.chainflex.eu/test3479



Test 3841:
Servo cable
Tested for 53 million strokes

Servo cable CF21 tested in e-chain®. More than 53 million strokes with a bending factor of 6.1 x d.

www.chainflex.eu/test3841

... predictable

Tested in the 2,750 m² chain and cable laboratory in Cologne. 4,100 tests, 7,512 results in the electronic database, 10 billion e-chain® cycles per year.



Part of the igus® laboratory, Cologne



Test for torsion with e-chains® and chainflex® cables



Service life experiments for e-chains® and chainflex® cables



Cold test at -40°C for chainflex® cables and e-chains®



Polymer bearings technology: tested a thousand times ... under real conditions

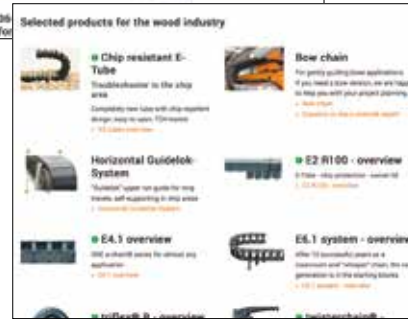
igus® services ...



The website for your industry.

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

www.igus.eu/woodworking



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



... quick and reliable



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
- No surcharges for small quantities
- No costs for cutting cables
- No packaging costs

www.igus.eu/triflex



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 (2,750m²) conducts more than two billion test cycles per year on a total of 107 test rigs.

- Extensive test databases
- Customised tests upon request

www.igus.eu/test

igus® motion plastics®

One vision has been driving us for more than 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. The technology has made us into a world-wide leader for developing and manufacturing energy supply systems and plain bearings.



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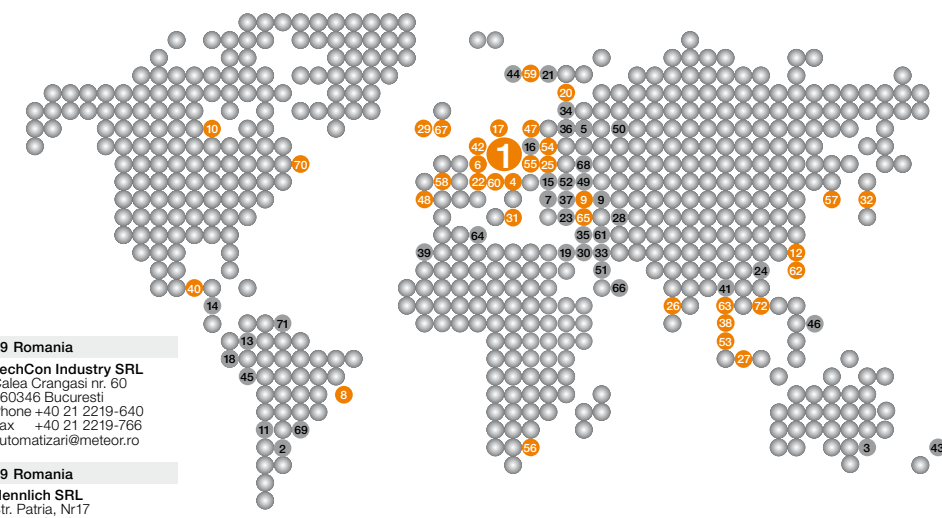
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