Woodworking

igus® solutions for the woodworking industry

Plastics for longer life®...igus®

industry

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

* 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

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

... 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

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).
... the right solution ...  

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

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 ± 10° per chain link
- Enclosed version, chip-proof
- Large product range of torsionable cables
  
  www.igus.eu/triflexR
  www.igus.eu/CFROBOT

... for woodworking machines ...

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

... for all applications and conditions
Industrially harnessed ...

... delivered ready to install ...

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

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
Dry-operating and ...
Lubrication-free made easy.
For example ...

... extremely low profile

... as alternative to ball bearings

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

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

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

... Linear axis with motor, ready to connect

drylin® linear axes
- 100% lubrication-free
- For format adjustments and quick small parts handling
- Extensive accessories

www.igus.eu/drylin-drive

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

... the best shaft for your linear plain bearings

drylin® shafts
- 8 different shaft materials
- Lightweight
- Round or supported

www.igus.eu/drylin

... as alternative to ball bearings

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

... Ball bearings with absolute dry running

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

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

iglidur® 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

xiros® polymer ball bearings
- Lubrication- and maintenance-free
- High corrosion resistance for temperatures up to +150 °C
- Non-magnetic
- Lightweight

www.igus.eu/xiros

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

... Linear drive through rotational motion

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

... the best shaft for your linear plain bearings

Ixos® polymer ball bearings
- Lubrication- and maintenance-free
- High corrosion resistance for temperatures up to +150 °C
- Non-magnetic
- Lightweight

www.igus.eu/xiros

... Ball bearings with absolute dry running

... Linear drive through rotational motion

... as alternative to ball bearings

www.igus.eu/drylinR

www.igus.eu/drylinE

www.igus.eu/PRT

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 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.

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.

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.

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.

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

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.

... predictable

Part of the igus® laboratory, Cologne

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

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

Polymer bearings technology: tested a thousand times ... under real conditions
**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](http://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](http://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.
Free of charge! Discover more about the latest trends and innovations from igus® motion plastics® world. Many exciting applications and videos, even from your industry. Register here: www.igus.eu/newsletter

Your contact person for your industry and your country: www.igus.eu/contact