

Reduce costs ...



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Clean igus® plastic solutions for textile machines

The textile industry places top priority on components being free from lubricants and resistant to dust. Maintenance free and tribologically optimised plastics from igus® ideally fulfil these and many other requirements

igus® products are completely lubrication free and offer impressive service lifes even at high cycle rates in textile machines. With more than 100,000 products from stock, igus® offers a huge modular range in the sectors of energy supply/ cable routing and protection, highly flexible cables, as well as lubrication and maintenance free plain bearing solutions for all types of movement. This document presents you with suitable products and usage options.

Our online tools also enable you to reduce process costs. igus® delivers from stock in 24-48 hours! Also, see our industry website.



mww.igus.eu/textile

I look forward to speaking to you.







Embroidery machine

- Lubrication free: iglidur[®] and xiros[®]
- Extremely robust: drylin[®] T
- Energie supply: system E2/000



Combing machines

- Lubrication free: iglidur®
- Maintenance free: igubal[®]
- Precise: drylin[®]



Sewing machines

- Lubrication free: iglidur[®] and xiros[®]
- Rapid positioning: drylin[®] ZLW
- Jolt free: system E6



Spinning technology

- Lubrication free: iglidur[®] and xiros[®]
- Ready-to-install: PRT slewing ring bearings
- Maintenance free: igubal[®]



Inspection technology

- Lubrication free: iglidur®
- Ready-to-install: PRT slewing ring bearings
- Maintenance free: igubal[®]



Dye factory

- Lubrication free: iglidur®
- Maintenance free: igubal[®]
- Extremely robust: drylin[®]



Weaving technique

- Lubrication free: iglidur[®] and xiros[®]
- Ready-to-install: PRT slewing ring bearings
- Maintenance free: igubal[®]
- Energy supply: system E2/000



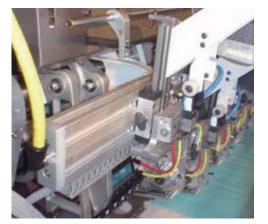
Further processing

- Lubrication free: iglidur®
- Extremely robust: drylin[®]
- Energie supply: system E2/000
- Jolt free: system E6

... with motion plastics from igus

Dry-running, maintenance free ...

Dry-running made easy. For example ...







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

- For applications in automation and handling Dimensions identical to recirculating ball-bearing guides
- Adjustable bearing clearance Automatic clearance adjustment
- www.igus.eu/drylinT







drylin® R shaft slides as an alternative to ball bearings

- 100% lubrication free
 Dimension identical to standard commercial ball bearings

 Shafts, shaft support blocks and accessories available from stock ● Replaceable liners
- www.igus.eu/drylinR





Linear guide system for virtually unlimited design freedom. - drylin® W

- Modular kit with 14 different profiles and more than 50 carriage options • Extreme flexibility, simple assembly
- Resistant to dirt due to dry running Smooth and quiet

✓Ḥ www.igus.eu/drylinW

... and dirt resistant ...

Maintenance free plain and linear bearing solutions. For example.



Lubrication free and resistant to dirt ialidur®

 Wear resistant polymers ● 16 standard materials for (almost) any application ● Tailor-made custom solutions - from a quantity of 1 ● High wear resistance ● Excellent resistance to dirt ● Online lifetime calculator





Easy to cut and glue - Tribo-Tape

- For the lining of tribologically stressed surfaces and shapes ● Easy to cut and glue ● Low space requirement ● With adhesive back
- www.igus.eu/tribotape



Dirt resistant igubal® spherical bearings

 Self-adjusting bearing elements completely made of plastic • Various models, such as spherical, flanged and pillow block bearings • Various spherical ball materials

Cost-effective

Online lifetime calculator

www.igus.eu/igubal







. dry-tech® bearing technology fit and forget.

Linear movement without lubrication ...

... rolling and sliding for easy movement



drylin® hybrid bearings

- Unique combination of plain and roller bearings
- Defined installation orientation reduces drive torque
- Offset loads are absorbed by the liner



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



drylin® linear axes

- 100% lubrication free
- For format adjustments and guick small parts handling
- Extensive accessories

www.igus.eu/drylin-drive

... linear drive systems



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

... linear axis with motor. ready to connect



drylin® E drive technology

- Complete system delivered in 3-4 days
- With NEMA stepper motors / DC motors
- Can be configured online

www.igus.eu/drylinE

... made easy

... the best shaft for your linear bearings



drylin® shafts

- 8 different shaft materials
- Low weight
- Round or fully supported

www.igus.eu/drylin

... lubrication free, dirt resistant 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, high rigidity
- Extensive accessories

www.igus.eu/PRT

... low profile designs



drylin® N flat guide systems

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

www.igus.eu/drylinN

... dry running ball bearings



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

The right solution ...

A selection of the 100,000 e-chainsystem® parts for the textile machine industry. For example ...





For all applications: System E4.1

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

www.igus.eu/E4-1





"Allrounder": System E2/000

- Range of e-chains® and e-tubes Many accessories
- For all installation orientations and applications
- √ www.igus.eu/E2000





... low vibration, smooth running, fast: System E6.1

 ◆ For highly dynamic applications ◆ Extremely smooth running ◆ Low vibrations

www.igus.eu/E61

... for textile machines.

A selection of the 1,040 chainflex® cable types, for the textile machine industry. For example ...



CF211 chainflex® PVC data cable. PVC data cables now with up to 25% smaller bending radius: 7.5 x d. For high duty applications, PVC outer jacket, shielded, twisted pair, oil-resistant and flame-retardant.
www.igus.eu/CF211



CF130.UL & CF140.UL chainflex® PVC control cables. PVC control cables for medium duty applications, PVC exterior jacket (CF140 shielded), flame-retardant. www.igus.eu/CF130



CF210.UL & CF21.UL chainflex® PVC servo cables. PVC servo cables for medium (or high; CF 21) duty applications, PVC exterior jacket, shielded, oil-resistant and flame-retardant.



CFBUS.PVC chainflex® PVC Profibus. PVC bus cables for medium duty applications, PVC exterior jacket, shielded, oil-resistant and flame-retardant.

www.igus.eu/CFBUS



CF240 chainflex® PVC data cable. For medium duty applications PVC exterior jacket, shielded, oil-resistant and flame-retardant

www.igus.eu/CF240



CF890 chainflex® PVC control cable. PVC control cables for flexing applications, oil-resistant and flame-retardant.



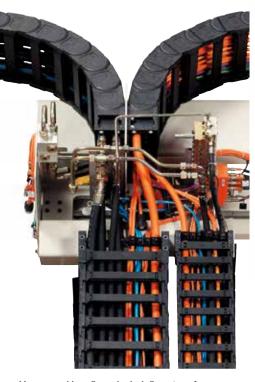
CF.INI CF9 M23 chainflex® cable for sensor/actuator terminal blocks. **For the connection of sensor/** actuator terminal blocks with an M23 connection cable, oil resistant, hydrolysis and microbe resistant, T/R moving: -35°C to +100°C, min. bending radius 5 x d, nominal voltage: 300/500 V.

www.igus.eu/CF220UL.H

R

Harnessed systems ...

readychain®: chain - cable - guarantee... in 3 - 10 days



Harnessed igus® readychain® system for textile machines.





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
- Cut turnaround 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



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 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

- Customer-specified cable length with up to centimetre precision
- Smallest bending radii from 7.5 x d
- Reduce storage costs and increase cashflow

www.igus.eu/readycable





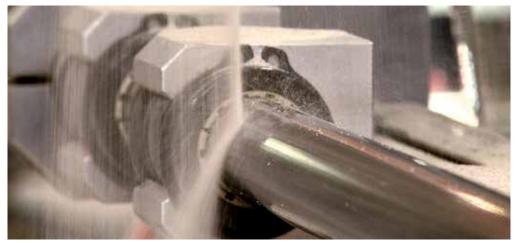
Intercontec SpeedTec

Service packs (starting at 1 piece) or harnessed directly to customer specifications. Also harnessed as an overmoulded version to your specifications

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Tested! Service life ...

9,679 tribological tests of all kinds per year (rotating, pivoting, linear, heated, under water, etc.). In addition, 661 customised tests at the igus[®] lab.



Service life tests with dirt.



Wear tests under the influence of several media.



Continuous running tests.



Load tests.



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

... predicted accurately.

Tested at the 1,750 m² Cologne lab. 4,100 tests, 7,512 findings added to the electronic database, 10 billion e-chains® cycles per year for chains and cables.



Part of the igus® laboratory, Cologne.



Test for torsion and twisting 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®.



Quality assurance: on-going lot testing to ensure the quality level

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igus® services ...



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

www.igus.eu/textile





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.

mww.igus.eu/online

For any task - in any batch size

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

www.igus.eu/industry

... fast and reliable







The igus® delivery service

Over 97% availability of all catalogue items 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



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 rias.

- 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. The technology has made us into a world-wide leader for developing and manufacturing energy supply systems and plain bearings.



/9001:2008 /16949:2009

igus® is certified in accordance with ISO 9001:2008 and ISO/TS 16949:2009 in the field of energy chains®, cables and harnessing, as well as plastic plain bearings.

/newsletter

Free of charge! Discover more about the latest trends and innovations from the world of igus® motion plastics®. Many exciting applications and videos for your industry.

Register here: www.igus.eu/newsletter

/contact

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



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