Your advantages

www.igus.de

iglidur® Plain Bearings ++tested++tested++tested

- Cost-effective
- Online lifetime prediction
- Resistant to edge pressure
- Dirt and dust resistant
- Also suitable for soft shafts
- Corrosion-resistant
- Maintenance free, self-lubricating

iglidur® Plain Bearing

Metal rolled bearing

Endurance test oscillating:
Shaft CF 53, p = 45 MPa, v = 0.01 m/s,
200,000 Cycles

igubal® Rod End Bearings

- Cost effective
- Maintenance free, no lubrication
- Corrosion-free
- Vibration dampening
- Dirt and dust resistant
- Low weight
- Suitable for use in contact with liquids

igubal® Rod End Bearing

Metal Rod End Bearing

Endurance test oscillating:
97 Million cycles, Working time about 6,500 hours, Load between
50 and 90 N, Steel failed after 50 Million cycles

DryLin® Linear Bearings

- Large contact area
- Self-lubricating
- Dirt resistant
- High acceleration possible
- Cost effective
- No lubrication
- Available ex stock

DryLin® T Linear Bearing

Recirculating ball bearing

Endurance test linear:
10,000 km runing distance, 150 N load, 0.5 m/s average speed

Deliverable ex-stock +++ No minimum order quantity +++ Deliverable ex-stock +++

Lifetime Calculation

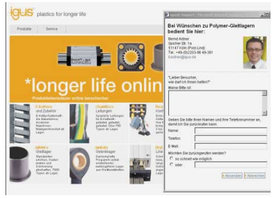
- The iglidur® expert system selects the best materials for your application out of more than 27 iglidur® materials
- For an exact life time prediction of polymer rod end bearings the igubal® expert system is the best choice
- If you need support for the design and life time prediction of our linear systems, the DryLin® expert system is always available

3D-Library

- Download your models
- Quickly find the article you are looking for
- 2D and 3D models in 17 different 3D-CAd formats and in 9 different 2D-CAD formats
- Downloadcenter for faster download of your packed CAD data
- Save your personal configuration

Huge Online-Service

- New homepage with comfortable navigation and quick page generation
- You can save your baskets of goods for your next visit of our online shop
- With two mouse clicks you can get from the first page to our online shop



Catalog

- Full range of igus® Polymer-Bearings and EnergyChains®
- 848 pages
- Handy size DIN A5 format
- Incl. technical drawings, design hints and application examples

igus® GmbH Spicher Str. 1a D-51147 Köln
Tel. 02203-9649-800 Fax 02203-9649-222

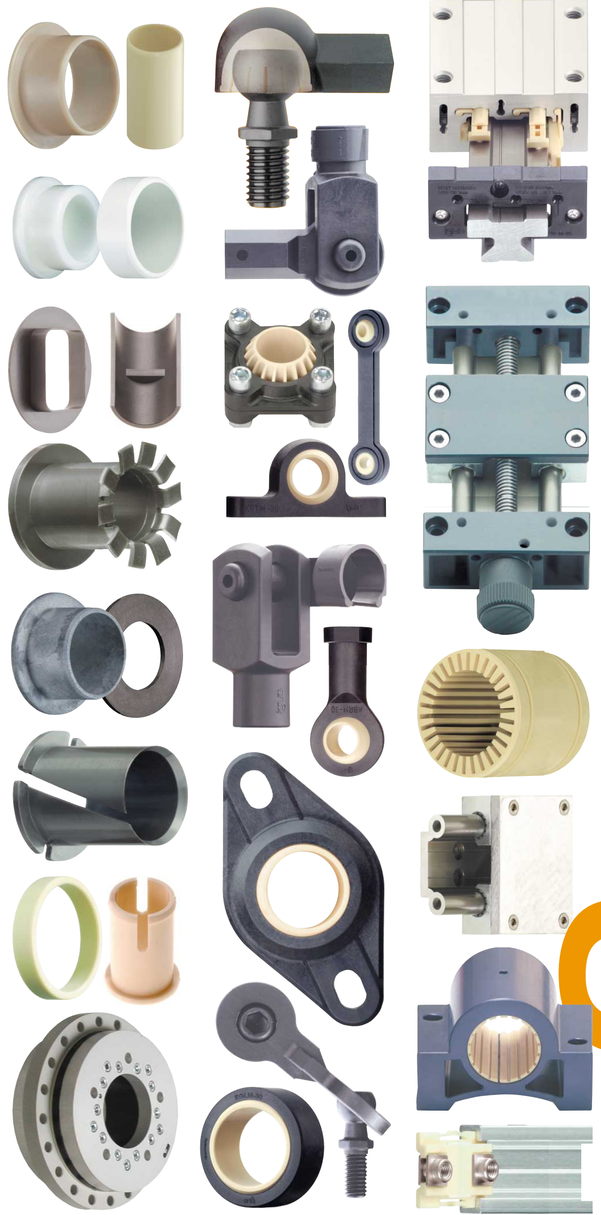
xiglidur 4.2

New: No installation necessary

- Easy Handling of lifetime calculations
- Catalogues with all data and features
- 3D and 2D formats

igus®.de
plastics for longer life®

MAT0070959.2 06/2007



Bearings

igus®

Polymer Overview

iglidur® Polymer Plain Bearings

Cost effective Allrounder*




iglidur® G | iglidur® P | iglidur® W300

- **iglidur® G** – All-round bearing with wide delivery range
- **iglidur® P** – Higher precision in hot and wet applications
- **iglidur® W300** – For extra high lifetime, also for soft shafts

High Temperature*




iglidur® Z | iglidur® Z 510 | iglidur® H 370

- **iglidur® Z** – High temperature material for extreme loads, temperature and pressure
- **iglidur® Z 510** – Pressfit without additional fixing up to 260 °C, 300 MPa oscillating
- **iglidur® H370** – Cost effective material up to 200 °C

Low friction*




iglidur® J | iglidur® L 250 | iglidur® J 200

- **iglidur® J** – Low coefficient of friction on different shaft materials, lowest value on V4A shafts
- **iglidur® L250** – Low coefficient of friction on in fast rotations and low load, recommended for V4A shafts
- **iglidur® J200** – Best coefficient of friction on CF53 (1.1213), X90 (1.4112), ST37 (1.0037) and many coated surfaces

Chemical Resistance*




iglidur® X | iglidur® V 400 | iglidur® H

- **iglidur® X** – Almost universal chemical resistance and high wear resistance also on soft shafts
- **iglidur® V400** – High chemical resistance and high wear resistance also on soft shafts
- **iglidur® H** – Cost effective alternative to iglidur® H370, for lower loads

Food contact*




iglidur® A 200 | iglidur® A 290 | iglidur® A 500

- **iglidur® A200** – For low and average loads, comply with FDA requlations
- **iglidur® A290** – Material with high mechanical rigidity, up to 140°C
- **iglidur® A500** – Highest chemical resistance, comply with FDA requlations, no water absorption and temperatures up to 250°C

Specialists*




iglidur® Q | iglidur® M 250 | iglidur® UW

- **iglidur® Q** – Cost effective, wear resistant bearing at high loads
- **iglidur® M 250** – Robust plain bearing with excellent vibration dampening effect and high impact strength
- **iglidur® UW** – For fast rotational motion under water with low radial load

*This page shows the 3 most popular iglidur materials of each group. Much more different materials on igus.co.uk

igubal® Polymer Spherical Bearings

igubal® Rod End Bearings + Ball & Socket



KARM | KBRM | WGRM

- Maintenance-free
- Self lubricating, dry running
- High rigidity
- High durability
- Compensation of aligment errors
- Compensation of edge loads
- Low weight

igubal® KBRM-10 in textile industry: SAHM GmbH + Co. KG, Eschwege, Germany

igubal® Clevis Joints



GERMF | GERM | GERMKE

- Maintenance-free
- Self lubricating, dry running
- High tensile strength
- Vibration dampening
- Lightweight
- Suitable with dimensional series E rod end bearings

igubal® GERMKE-12 at S & B Packaging automation GmbH, Altenstadt, Germany

igubal® Pedestal Bearing



KSTM | ESTM | KSTM-GT

- Maintenance-free
- Self lubricating, dry running
- High rigidity and high durability
- Compensation for aligment errors
- Resistant to chemicals
- Lightweight

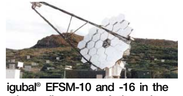
igubal® KSTM-25 in stone-handling: Henle GmbH & Co. KG, Solnhofen, Germany

igubal® Flange Bearing



EFOM | EFSM | KFSM-GT

- Dirt and dust resistant
- Also suitable for soft shafts
- Easy assembly
- Compensates bending and misalignments
- Shock and impact resistant
- Resistant to chemicals
- Lightweight



igubal® EFSM-10 and -16 in the mirror-adjustment of the telescope: Max Planck Institut, Munich, Germany

Combination of igubal® rod ends and pneumatic cylinder

The graphic shows a force comparison between the tensile force of pneumatic cylinders at 6 bar and the tensile strength of igubal® polymer rod ends.
(Pneumatic cylinders according to DIN ISO 6431, 6432, VDMA 24562 and NF E 49-00331)

DryLin® Polymer Linear Bearings

DryLin® T Adjustable linear guide system (T-profile)

- Corrosion- and lubrication free
- Wear-resistant
- Low friction value
- Very low-noise operation
- Dimensional interchangeable with many ball bearings

DryLin® T in tile handling system, Kautenburger, Merzig, Germany

DryLin® N Flat miniature guide system (C-profile)

- Lubrication free
- Very low profile and weight
- Interchangeable polmer glider
- Rails from anodized aluminium
- High speed and acceleration possible

DryLin® N in handling system NTS-Ultra-Speed, AS-Morawski, Lüdenscheid, Germany

DryLin® W Double rail guide system + harnessed carriage

- Lubrication-free
- Optimum use of installation space
- Robust and dirt-resistant
- Low noise and low weight
- Corrosion-free
- Cost effective

DryLin® W in flatbed inkjet printer, Durst Phototechnik, Germany

DryLin® R Adaptors, Housings and Round Shafts

- Corrosion-free
- Wear resistant
- Dust- and dirt-resistant
- Low friction value
- Very low noise operation
- High load capacity
- 8 different shaft-materials

DryLin® R in concrete pipe milling cutter, Haas Maschinenbau, Oberbrück, Germany

DryLin® ZLW Linear actuator – toothed belt positioning device

- For fast positioning of small loads
- Maintenance-free and dirt resistant
- Quiet and lightweight
- Aluminium profile, hard anodized with DryLin® W linear guide and polymer end blocks
- Transmission ratio: approx 67 mm/rev.

DryLin® ZLW in testing device, Forschungsinstitut für Wärmeschutz, Gräfelfing, Germany

DryLin® SHT Leadscrew slide units

- Optimum use of installation space
- Lubrication-and corrosion-free
- Robust and dirt-resistant
- Low noise and low weight
- 8 different shaft-materials

Positioning of cutter heads with DryLin® SHT-20-SWM, Berchtold GmbH, Germany

Delivery ex-stock +++ No minimum order quantity +++ Delivery ex-stock +++ Delivery ex-stock +++ No minimum order quantity +++ Delivery ex-stock +++ Delivery ex-stock +++