

7. service



About igus®...table of chemicals...material data...forms...addresses...

...plastics

QuickLink: Polymer Bearings online

igus® plastics for longer life®

Home > iglidur® > Product overview > iglidur® G

igidur® G

✓ Delivery 24 - 48 hours
✓ Delivery 2-5 working days
✓ Delivery time on request, normally 2 - 6 weeks

igidur® G: The All-Rounder

The widest range of differing requirements are fulfilled by iglidur® G bearings. That's why this material is rightly termed universal. Recommended are applications with medium to high loads, medium surface speeds and moderate temperatures.

Personal contact
igus® GmbH
Spicher Str. 1a
51147 Cologne
Germany
➤ igus® contact
☎ +49 (0) 2203-9649-0
➤ Send e-mail to igus®
➤ inquire via
➤ Ask the product expert

Application examples

Variants

 type S (metric sizes)	 type F (metric sizes)	 type T (metric sizes)	 type S (inch sizes)
 type F (inch sizes)	 type T (inch sizes)		

With the selected part you'll arrive at:

Visit www.igus.co.uk and make use of all the advantages

For every product in this catalog, there is a special QuickLink or direct online pointer to further useful details, data and facts. These include:

- Online wizards for calculating service life
- 3D-CAD files
- DXF data
- PDF-data and other formats for download
- Application pictures
- Imperial dimensions
- Personal support
- Catalog, CD and sample ordering forms
- Online pricelist and Online-Shop



Online shopping – 24h!

- iglidur® ► www.igus.co.uk/iglidurshop
- igubal® ► www.igus.co.uk/igubalshop
- xiros® ► www.igus.co.uk/xirosshop
- DryLin® ► www.igus.co.uk/drylinshop

iglidur® product finder for the right plain bearing

Your requirements

☐ Maximum service life
 ☐ Low coefficients of friction

☐ Dirt resistant
 ☐ High resistance to chemicals

☐ Vibration dampening
 ☐ Good in misalignment

☐ Low moisture absorption
 ☐ Underwater application

☐ FDA compatible/ Foodstuff
 ☐ Cost effective

Max. static surface 0 Mpa

Upper long-term 20 °C

Lower 0 °C

metric imperial

The iglidur® bearing suited for you:

Standards	Specialist models from stock	Order-related specialists
☒ iglidur G	☒ iglidur A100	☒ iglidur B
☒ iglidur J	☒ iglidur A200	☒ iglidur C
☒ iglidur M100	☒ iglidur A300	☒ iglidur D
☒ iglidur M200	☒ iglidur A400	☒ iglidur E
☒ iglidur M300	☒ iglidur A500	☒ iglidur F
☒ iglidur M400	☒ iglidur A600	☒ iglidur G
☒ iglidur M500	☒ iglidur A700	☒ iglidur H
☒ iglidur M600	☒ iglidur A800	☒ iglidur I
☒ iglidur M700	☒ iglidur A900	☒ iglidur L
☒ iglidur M800	☒ iglidur A1000	☒ iglidur N
☒ iglidur M900	☒ iglidur A1100	☒ iglidur O
☒ iglidur M1000	☒ iglidur A1200	☒ iglidur P
☒ iglidur M1100	☒ iglidur A1300	☒ iglidur Q
☒ iglidur M1200	☒ iglidur A1400	☒ iglidur R
☒ iglidur M1300	☒ iglidur A1500	☒ iglidur S
☒ iglidur M1400	☒ iglidur A1600	☒ iglidur T
☒ iglidur M1500	☒ iglidur A1700	☒ iglidur U
☒ iglidur M1600	☒ iglidur A1800	☒ iglidur V
☒ iglidur M1700	☒ iglidur A1900	☒ iglidur W
☒ iglidur M1800	☒ iglidur A2000	☒ iglidur X
☒ iglidur M1900	☒ iglidur A2100	☒ iglidur Y
☒ iglidur M2000	☒ iglidur A2200	☒ iglidur Z
☒ iglidur M2100	☒ iglidur A2300	☒ iglidur AA
☒ iglidur M2200	☒ iglidur A2400	☒ iglidur AB
☒ iglidur M2300	☒ iglidur A2500	☒ iglidur AC
☒ iglidur M2400	☒ iglidur A2600	☒ iglidur AD
☒ iglidur M2500	☒ iglidur A2700	☒ iglidur AE
☒ iglidur M2600	☒ iglidur A2800	☒ iglidur AF
☒ iglidur M2700	☒ iglidur A2900	☒ iglidur AG
☒ iglidur M2800	☒ iglidur A3000	☒ iglidur AH
☒ iglidur M2900	☒ iglidur A3100	☒ iglidur AI
☒ iglidur M3000	☒ iglidur A3200	☒ iglidur AJ
☒ iglidur M3100	☒ iglidur A3300	☒ iglidur AK
☒ iglidur M3200	☒ iglidur A3400	☒ iglidur AL
☒ iglidur M3300	☒ iglidur A3500	☒ iglidur AM
☒ iglidur M3400	☒ iglidur A3600	☒ iglidur AN
☒ iglidur M3500	☒ iglidur A3700	☒ iglidur AO
☒ iglidur M3600	☒ iglidur A3800	☒ iglidur AP
☒ iglidur M3700	☒ iglidur A3900	☒ iglidur AQ
☒ iglidur M3800	☒ iglidur A4000	☒ iglidur AR
☒ iglidur M3900	☒ iglidur A4100	☒ iglidur AS
☒ iglidur M4000	☒ iglidur A4200	☒ iglidur AT
☒ iglidur M4100	☒ iglidur A4300	☒ iglidur AU
☒ iglidur M4200	☒ iglidur A4400	☒ iglidur AV
☒ iglidur M4300	☒ iglidur A4500	☒ iglidur AW
☒ iglidur M4400	☒ iglidur A4600	☒ iglidur AX
☒ iglidur M4500	☒ iglidur A4700	☒ iglidur AY
☒ iglidur M4600	☒ iglidur A4800	☒ iglidur AZ
☒ iglidur M4700	☒ iglidur A4900	☒ iglidur BA
☒ iglidur M4800	☒ iglidur A5000	☒ iglidur BB
☒ iglidur M4900	☒ iglidur A5100	☒ iglidur BC
☒ iglidur M5000	☒ iglidur A5200	☒ iglidur BD
☒ iglidur M5100	☒ iglidur A5300	☒ iglidur BE
☒ iglidur M5200	☒ iglidur A5400	☒ iglidur BF
☒ iglidur M5300	☒ iglidur A5500	☒ iglidur BG
☒ iglidur M5400	☒ iglidur A5600	☒ iglidur BH
☒ iglidur M5500	☒ iglidur A5700	☒ iglidur BI
☒ iglidur M5600	☒ iglidur A5800	☒ iglidur BJ
☒ iglidur M5700	☒ iglidur A5900	☒ iglidur BK
☒ iglidur M5800	☒ iglidur A6000	☒ iglidur BL
☒ iglidur M5900	☒ iglidur A6100	☒ iglidur BM
☒ iglidur M6000	☒ iglidur A6200	☒ iglidur BN
☒ iglidur M6100	☒ iglidur A6300	☒ iglidur BO
☒ iglidur M6200	☒ iglidur A6400	☒ iglidur BP
☒ iglidur M6300	☒ iglidur A6500	☒ iglidur BQ
☒ iglidur M6400	☒ iglidur A6600	☒ iglidur BR
☒ iglidur M6500	☒ iglidur A6700	☒ iglidur BS
☒ iglidur M6600	☒ iglidur A6800	☒ iglidur BT
☒ iglidur M6700	☒ iglidur A6900	☒ iglidur BU
☒ iglidur M6800	☒ iglidur A7000	☒ iglidur BV
☒ iglidur M6900	☒ iglidur A7100	☒ iglidur BW
☒ iglidur M7000	☒ iglidur A7200	☒ iglidur BX
☒ iglidur M7100	☒ iglidur A7300	☒ iglidur BY
☒ iglidur M7200	☒ iglidur A7400	☒ iglidur BZ
☒ iglidur M7300	☒ iglidur A7500	☒ iglidur CA
☒ iglidur M7400	☒ iglidur A7600	☒ iglidur CB
☒ iglidur M7500	☒ iglidur A7700	☒ iglidur CC
☒ iglidur M7600	☒ iglidur A7800	☒ iglidur CD
☒ iglidur M7700	☒ iglidur A7900	☒ iglidur CE
☒ iglidur M7800	☒ iglidur A8000	☒ iglidur CF
☒ iglidur M7900	☒ iglidur A8100	☒ iglidur CG
☒ iglidur M8000	☒ iglidur A8200	☒ iglidur CH
☒ iglidur M8100	☒ iglidur A8300	☒ iglidur CI
☒ iglidur M8200	☒ iglidur A8400	☒ iglidur CJ
☒ iglidur M8300	☒ iglidur A8500	☒ iglidur CK
☒ iglidur M8400	☒ iglidur A8600	☒ iglidur CL
☒ iglidur M8500	☒ iglidur A8700	☒ iglidur CM
☒ iglidur M8600	☒ iglidur A8800	☒ iglidur CN
☒ iglidur M8700	☒ iglidur A8900	☒ iglidur CO
☒ iglidur M8800	☒ iglidur A9000	☒ iglidur CP
☒ iglidur M8900	☒ iglidur A9100	☒ iglidur CQ
☒ iglidur M9000	☒ iglidur A9200	☒ iglidur CR
☒ iglidur M9100	☒ iglidur A9300	☒ iglidur CS
☒ iglidur M9200	☒ iglidur A9400	☒ iglidur CT
☒ iglidur M9300	☒ iglidur A9500	☒ iglidur CU
☒ iglidur M9400	☒ iglidur A9600	☒ iglidur CV
☒ iglidur M9500	☒ iglidur A9700	☒ iglidur CW
☒ iglidur M9600	☒ iglidur A9800	☒ iglidur CX
☒ iglidur M9700	☒ iglidur A9900	☒ iglidur CY
☒ iglidur M9800	☒ iglidur A10000	☒ iglidur CZ
☒ iglidur M9900	☒ iglidur A10100	☒ iglidur DA
☒ iglidur M10000	☒ iglidur A10200	☒ iglidur DB
☒ iglidur M10100	☒ iglidur A10300	☒ iglidur DC
☒ iglidur M10200	☒ iglidur A10400	☒ iglidur DD
☒ iglidur M10300	☒ iglidur A10500	☒ iglidur DE
☒ iglidur M10400	☒ iglidur A10600	☒ iglidur DF
☒ iglidur M10500	☒ iglidur A10700	☒ iglidur DG
☒ iglidur M10600	☒ iglidur A10800	☒ iglidur DH
☒ iglidur M10700	☒ iglidur A10900	☒ iglidur DI
☒ iglidur M10800	☒ iglidur A11000	☒ iglidur DJ
☒ iglidur M10900	☒ iglidur A11100	☒ iglidur DK
☒ iglidur M11000	☒ iglidur A11200	☒ iglidur DL
☒ iglidur M11100	☒ iglidur A11300	☒ iglidur DM
☒ iglidur M11200	☒ iglidur A11400	☒ iglidur DN
☒ iglidur M11300	☒ iglidur A11500	☒ iglidur DO
☒ iglidur M11400	☒ iglidur A11600	☒ iglidur DP
☒ iglidur M11500	☒ iglidur A11700	☒ iglidur DQ
☒ iglidur M11600	☒ iglidur A11800	☒ iglidur DR
☒ iglidur M11700	☒ iglidur A11900	☒ iglidur DS
☒ iglidur M11800	☒ iglidur A12000	☒ iglidur DT
☒ iglidur M11900	☒ iglidur A12100	☒ iglidur DU
☒ iglidur M12000	☒ iglidur A12200	☒ iglidur DV
☒ iglidur M12100	☒ iglidur A12300	☒ iglidur DW
☒ iglidur M12200	☒ iglidur A12400	☒ iglidur DX
☒ iglidur M12300	☒ iglidur A12500	☒ iglidur DY
☒ iglidur M12400	☒ iglidur A12600	☒ iglidur DZ
☒ iglidur M12500	☒ iglidur A12700	☒ iglidur EA
☒ iglidur M12600	☒ iglidur A12800	☒ iglidur EB
☒ iglidur M12700	☒ iglidur A12900	☒ iglidur EC
☒ iglidur M12800	☒ iglidur A13000	☒ iglidur ED
☒ iglidur M12900	☒ iglidur A13100	☒ iglidur EE
☒ iglidur M13000	☒ iglidur A13200	☒ iglidur EF
☒ iglidur M13100	☒ iglidur A13300	☒ iglidur EG
☒ iglidur M13200	☒ iglidur A13400	☒ iglidur EH
☒ iglidur M13300	☒ iglidur A13500	☒ iglidur EI
☒ iglidur M13400	☒ iglidur A13600	☒ iglidur EJ
☒ iglidur M13500	☒ iglidur A13700	☒ iglidur EK
☒ iglidur M13600	☒ iglidur A13800	☒ iglidur EL
☒ iglidur M13700	☒ iglidur A13900	☒ iglidur EM
☒ iglidur M13800	☒ iglidur A14000	☒ iglidur EN
☒ iglidur M13900	☒ iglidur A14100	☒ iglidur EO
☒ iglidur M14000	☒ iglidur A14200	☒ iglidur EP
☒ iglidur M14100	☒ iglidur A14300	☒ iglidur EQ
☒ iglidur M14200	☒ iglidur A14400	☒ iglidur ER
☒ iglidur M14300	☒ iglidur A14500	☒ iglidur ES
☒ iglidur M14400	☒ iglidur A14600	☒ iglidur ET
☒ iglidur M14500	☒ iglidur A14700	☒ iglidur EU
☒ iglidur M14600	☒ iglidur A14800	☒ iglidur EV
☒ iglidur M14700	☒ iglidur A14900	☒ iglidur EW
☒ iglidur M14800	☒ iglidur A15000	☒ iglidur EX
☒ iglidur M14900	☒ iglidur A15100	☒ iglidur EY
☒ iglidur M15000	☒ iglidur A15200	☒ iglidur EZ
☒ iglidur M15100	☒ iglidur A15300	☒ iglidur FA
☒ iglidur M15200	☒ iglidur A15400	☒ iglidur FB
☒ iglidur M15300	☒ iglidur A15500	☒ iglidur FC
☒ iglidur M15400	☒ iglidur A15600	☒ iglidur FD
☒ iglidur M15500	☒ iglidur A15700	☒ iglidur FE
☒ iglidur M15600	☒ iglidur A15800	☒ iglidur FF
☒ iglidur M15700	☒ iglidur A15900	☒ iglidur FG
☒ iglidur M15800	☒ iglidur A16000	☒ iglidur FH
☒ iglidur M15900	☒ iglidur A16100	☒ iglidur FI
☒ iglidur M16000	☒ iglidur A16200	☒ iglidur FJ
☒ iglidur M16100	☒ iglidur A16300	☒ iglidur FK
☒ iglidur M16200	☒ iglidur A16400	☒ iglidur FL
☒ iglidur M16300	☒ iglidur A16500	☒ iglidur FM
☒ iglidur M16400	☒ iglidur A16600	☒ iglidur FN
☒ iglidur M16500	☒ iglidur A16700	☒ iglidur FO
☒ iglidur M16600	☒ iglidur A16800	☒ iglidur FP
☒ iglidur M16700	☒ iglidur A16900	☒ iglidur FQ
☒ iglidur M16800	☒ iglidur A17000	☒ iglidur FR
☒ iglidur M16900	☒ iglidur A17100	☒ iglidur FS
☒ iglidur M17000	☒ iglidur A17200	☒ iglidur FT
☒ iglidur M17100	☒ iglidur A17300	☒ iglidur FU
☒ iglidur M17200	☒ iglidur A17400	☒ iglidur FV
☒ iglidur M17300	☒ iglidur A17500	☒ iglidur FW
☒ iglidur M17400	☒ iglidur A17600	☒ iglidur FX
☒ iglidur M17500	☒ iglidur A17700	☒ iglidur FY
☒ iglidur M17600	☒ iglidur A17800	☒ iglidur FZ
☒ iglidur M17700	☒ iglidur A17900	☒ iglidur GA
☒ iglidur M17800	☒ iglidur A18000	☒ iglidur GB
☒ iglidur		

iglidur® expert and productfinder

iglidur® - Expertsystem

Results

Inquiry/order	Report	KO criteria	Lifetime [h]	Price / Pcs. with 100 Pcs.
iglidur® J260				
iglidur® G				0.22 EUR
iglidur® W300				0.46 EUR
iglidur® X				0.61 EUR
iglidur® M250				0.21 EUR
iglidur® A200				0.35 EUR
iglidur® H				0.46 EUR
iglidur® F				0.46 EUR
iglidur® D				
iglidur® Q				
iglidur® J				
iglidur® H2				
iglidur® Z				

iglidur® product finder for the right plain bearing

Your requirements

☐ Maximum service life
☐ Low coefficients of friction
☐ Dirt resistant
☐ High resistance to chemicals
☐ Vibration dampening
☐ Good in misalignment
☐ Low moisture absorption
☐ Underwater application
☐ FDA compatible/ Foodstuff
☐ Cost effective

Max. static surface: 0 Mpa
 Upper long-term: 20 °C
 Lower: 0 °C

metric imperial

The iglidur® bearing suited for you:

Standards	Specialist models from stock	Order-related specialists
iglidur® G	iglidur® A180	iglidur® B
iglidur® J	iglidur® A200	iglidur® C
iglidur® M250	iglidur® A290	iglidur® D
iglidur® W300	iglidur® A500	iglidur® GLW
iglidur® X	iglidur® F	iglidur® H2
	iglidur® H	iglidur® J200
	iglidur® H1	
	iglidur® H370	
	iglidur® H4	
	iglidur® L250	
	iglidur® P	
	iglidur® Q	
	iglidur® R	
	iglidur® UW	
	iglidur® Y400	
	iglidur® Z	
		iglidur® T220
		iglidur® UW500

The best solution within the iglidur® bearings product range
 iglidur® material with good suitability for your requirements
 System components in 24-48 hours
 System components in 2-5 working days
 Delivery time on request, normally 2 - 6 weeks

iglidur® expert system –
 ► www.igus.co.uk/iglidur-expert

The iglidur® expert help you to find the right bearing for your application: After entering the application parameters you will get the expected service life for your bearing. You can download constantly updated and advanced CAD-files from our CAD library for free - more than 20 2D- and 3D-formats.

iglidur® product finder –
 ► www.igus.co.uk/iglidur-productfinder

The iglidur® product finder shows you the right plain bearing solution especially for your application with just a few clicks. To do so, simply specify parameters about environmental conditions and other factors relevant for you. As a result you will get the best material solution for your application as well as other materials that are well suited. With a direct link to the online catalog with much more information and direct price display. More exact details for the suitability and lifetime of the iglidur® bearings you can find in the iglidur® expert system.

igubal® expert and productfinder

igubal® expert system –
► www.igus.co.uk/igubal-expert

The igubal® expert help you to find the right spherical bearing for your application: You can choose from different igubal® spherical bearings and load types (radial / axial or static, cyclic and dynamic). The expertsystem calculated from this:

- wear of bearing
- theoretical service life

igubal® productfinder –
► www.igus.co.uk/igubal-productfinder

The igubal® product finder shows you the right spherical bearing solution especially for your application with just a few clicks. To do so, enter some details about the product you want and other factors relevant for you. As a result you will get the best solutions for your application. Just one click takes you to the online catalog with much more information and direct price display. More exact details for the suitability and lifetime you can find in the iglidur® expert system.

xiros® service life calculator

xiros® service life prediction

Your application parameters

Max. speed: 1000 rpm Max. radial load: 50 N
 Installation size: 6000 Working temperature: 23 °C Max. axial load (only if available): 0 N

Selection of material combinations:

Rings	Cage	Balls	FDA-compatible
A500	PEEK	Glass	-
A500	PA	Stainl.st.	-
A500	PEEK	Stainl.st.	•

Data of the selected part

Limit speed: 1900 rpm
 Max. static radial load: 85 N
 Max. dynamic radial load: 119 N
 Max. permitted axial load: 285 N
 Min. application temperature: -40 °C
 Max. ambient temperature: 80 °C

Service Life 333 h ✓
 The service life refers only to the operating time. Intermittent service is not considered.

Limit curve

Part no.: BB-6000-B180-10-ES 1 Pieces Price: 5,42 EUR Add to shopping basket

Help / Contact PDF Graduated prices Catalog pages Quote request Change to shopping cart

Service life prediction for xiros® polymer ball bearings ► www.igus.co.uk/xiros-expert

Select the installation size and enter the rotary speed and loads of your application. The material combinations available in your required size are displayed. You can select the option for which you want to calculate the service life in dry operation.

- Selection of different installation sizes and material combinations of rings, cages and balls
- Graphically clear visualizations
- Within the limit curve of the selected item, the calculated application is highlighted on the basis of the input data
- Direct link to xiros® online catalog and shopping cart for easy ordering

DryLin® expert

DryLin® Expert 2.0

System selection

DryLin® system design and service life calculation
The DryLin® expert generates a functional check for you in four steps and works out the estimated service life of your application. In the results screen you can order or ask the system, receive price information or the matching 3D CAD file.

Environmental parameters

- ☐ Dirt
- ☐ Temperature > 80 °C
- ☐ Load > 500 N
- ☐ Stainless steel components require

DryLin® T profile guide rail system

- Adjustable clearance
- Very quiet
- max. load capacity up to 14,000 N
- temperatures from -40 °C to +90 °C
- Widths from 20 mm to 80 mm
- Installation heights from 10 mm to

DryLin® N flat guides

- Compact height and width
- Low weight

DryLin® W guide system construction

- 12 different rail profiles
- 15 different carriages
- quick and easy assembly
- Small cross section
- insensitive to dirt and dust
- max. load capacity up to 12,800 N
- temperatures from -40 °C to +90 °C

System parameters

To determine the coordinates of the centre of mass (blue) or the drive (green), you can move the symbols in the drawing with the mouse. Alternatively you can also enter the coordinates manually.

Installation type

Drive

- ☒ Single drive with fixed/floating bearing
- ☐ Single drive without fixed/floating bearing
- ☐ Parallel synchronous drives

Coordinates of the drive point

xy: -3
xz: -8

Coordinates of the centre of mass

cx: 9
cy: 50
cz: 15

Weight force (F_g): 20
acceleration (a): 45
Running distance: 20
Rails length: 100

Back

System selection

System parameters

Dimension & Movement

Result

Product data & order

Result

The table on the left outlines your system configuration and gives you the option of making corrections. The table on the right shows the results of the functional check and the service life calculation. Critical values are highlighted in red. Click on the "Optimization" button to show which properties can be changed to improve the system configuration.

Property	Value	Optimization
Running characteristics	OK	Optimization
load	OK	Optimization
Wear	OK	Optimization
Wear y-direction	0 mm	
Wear z-direction	0 mm	
max. permitted long-term speed	5 m/s	
required min. drive force	101 N	
permitted storage temperature	90 °C	
Calculated max. load y-direction	67 N	
Safety factor y-direction	7.52	
Calculated max. load z-direction	95 N	
Safety factor z-direction	9.05	
Clearance at centre of mass (new status)	0.5 mm	
Clearance at centre of mass (end of operation)	0.5 mm	

Back **System of units:** ☒ metric ☐ imperial **Configuration** **Help/Contact** **Next**

DryLin® expert and system selection –

► www.igus.co.uk/drylin-expert

The DryLin® expert help you to find the right linear bearing for your application: You can choose from different DryLin® bearings or systems with one or more bearings on shafts or rails. The installation position may be horizontal, vertical or lateral. You also need to enter: The coordinates from mass of gravity according to a given coordinate system and the position of drive mechanism and a favored propagation for calculating the wear.

The expert calculate for you:

- wear of linear bearing
- essential driving force
- max. acceptable speed by continuous operation
- theoretical clearance in given center of gravity

Furhermore there is an alert for deadlock, achieved wear limit, overloading or anxious operation.

Quick and reliable. igus® delivery service.



The igus® delivery service: FROM 24h or today*

The economy is booming and igus® is also pleased about a sudden rise in orders. Thanks to you!

To give you optimal security in planning, we need to somewhat adapt our delivery promise "24 hours or today*" for the next few month.

Otherwise the following applies as always:

- no minimum order value
- no surcharges for small quantities and packaging
- no cutting costs with cables
- no fuss return

Over 80,000 products available! Order two plain bearings or 2,46 m DryLin® T-rail with 2 carriages without any surcharge. Invoices and confirmations can be sent via post, fax or e-mail.

There are 1,900 employees in Germany and 28 international subsidiaries and offices, plus bases in another 33 countries to guarantee a rapid delivery worldwide.

- delivery and consultation Mon-Fri from 8am-8pm and Sat from 8am-12pm
- order tracking possible
- No fuss return
- Round-the-clock emergency service

* Delivery time means time until shipping of goods.

i-net customer information system

Track your orders in real time with igus® i-net. Just request a password, log into i-net and track your job status via a webcam. igus® i-net shipment tracking permits a monitoring of deliveries from igus® outlet right up to your doorstep.

- detailed order data including an overview of target and actual deadlines.
- order confirmation via post, fax or e-mail as required
- track your orders via webcam



Request order tracking here: www.igus.co.uk/en/i-net

24

h

24–48

h

24–72

h

3–10

days

3–6

weeks

Individual components

Example:
iglidur® W300 plain bearings; standard igubal® ball joint or DryLin® flange bearing.



Custom made linear systems

Example:
2.46 m DryLin® T rail with 2 carriages.



Ready made modules

Example:
Linear leadscrew tables made to your individual requirements and dimensions.



Mechanically machined components

Example:
Machined shafts made to design or machined bearings.

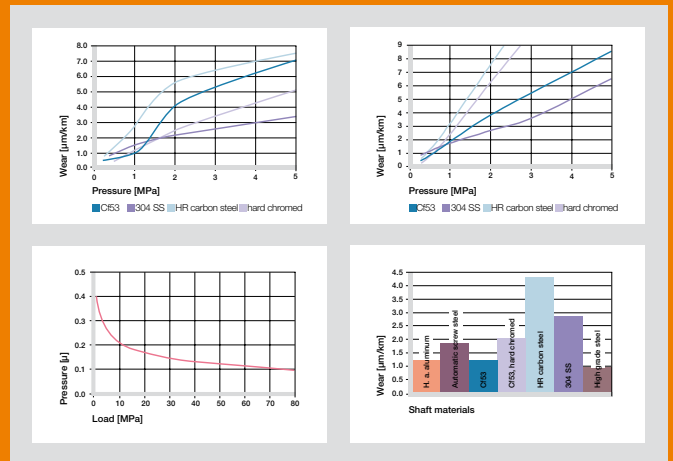


Initial samples from new tools

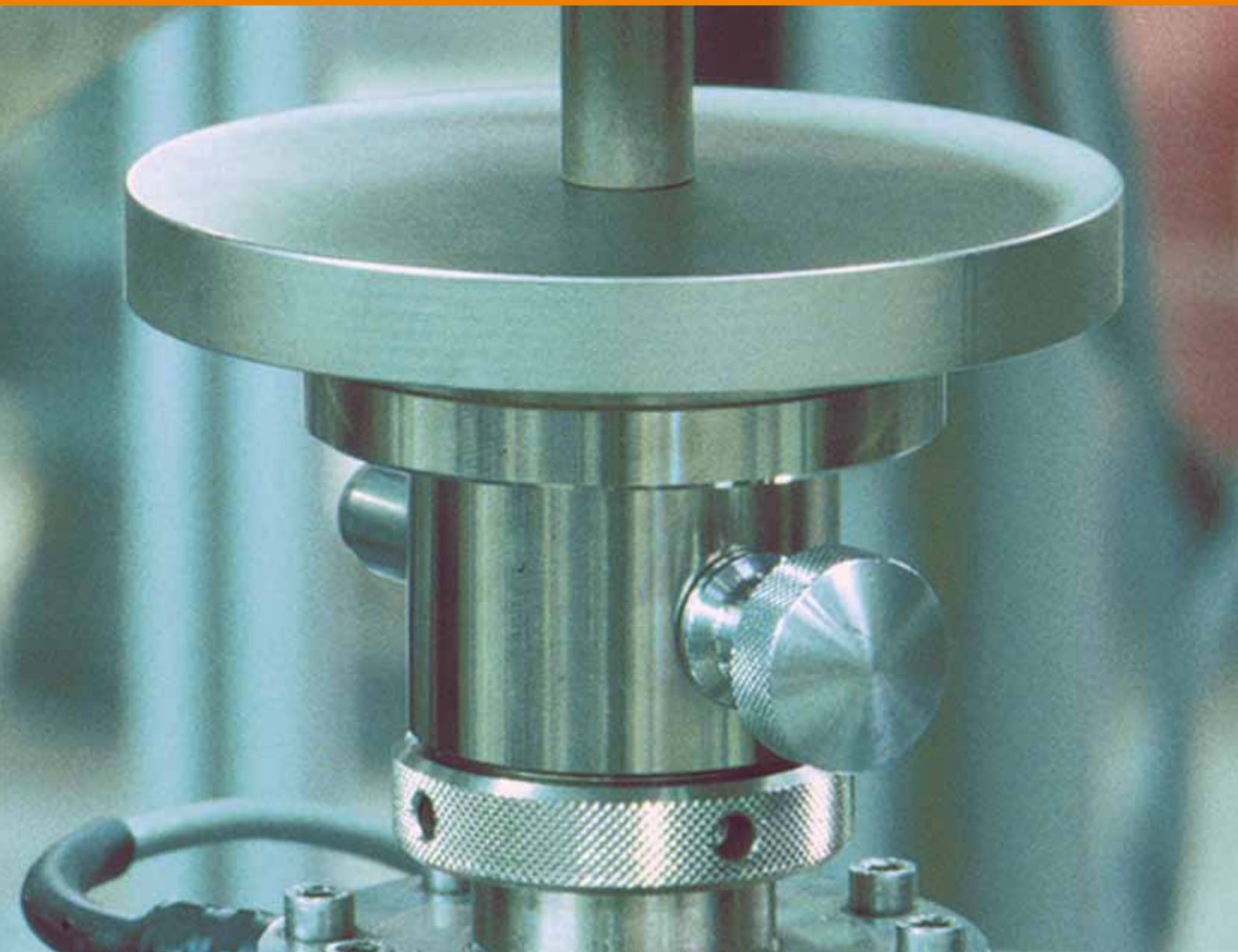
Example:
Injection moulding of parts made to your design.



Quality from the igus[®] laboratory: Tested thousands of times, proven millions of times.



The results of more than 7,000 tests are fed to our database annually.



igus® test laboratory

Applications involving high cycle counts, speeds and accelerations or demanding environmental conditions require proven systems providing durable and reliable operation, especially when it comes to energy chains, cables, polymer plain bearings and linear systems.

igus® regularly conducts tests at its own laboratory under realistic conditions. Every year, we conduct more than 2,000 tests on E-Chains® and cables, and over 5,000 tests on plain bearings. These tests focus on push-/pull forces, friction values, wear rates, drive forces and abrasion under all possible conditions at diverse speeds.

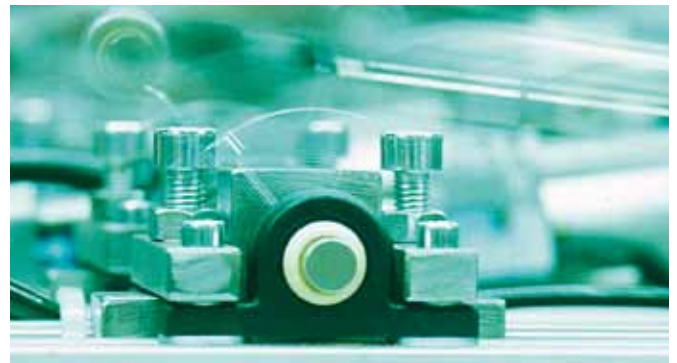
Influential factors like soiling, weathering, cold and impact are examined.

Tests are also performed on electric cables, media as well as hydraulic and pneumatic hoses of all kinds.

Our laboratory is at your disposal. Should we happen to lack a ready solution for your special problems, we will gladly conduct tests according to your requirements.



igus® quality assurance



Determination of the max. running speed of an igubal® pillow block bearing



Friction and abrasion measurement in the rotation test



Test bench for loads up to 150 MPa and temperatures up to +250 °C

All products are tested and available from a single source.

Examples of test certificates and quality seals for igus® products:



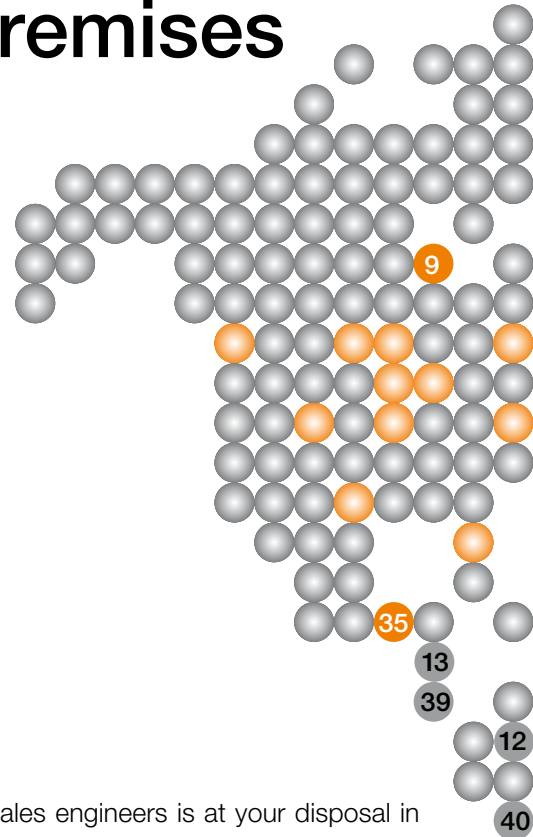
ISO 9001:2000 TS 16949



...more upon request



Individual consultation by igus® – via phone or on your premises



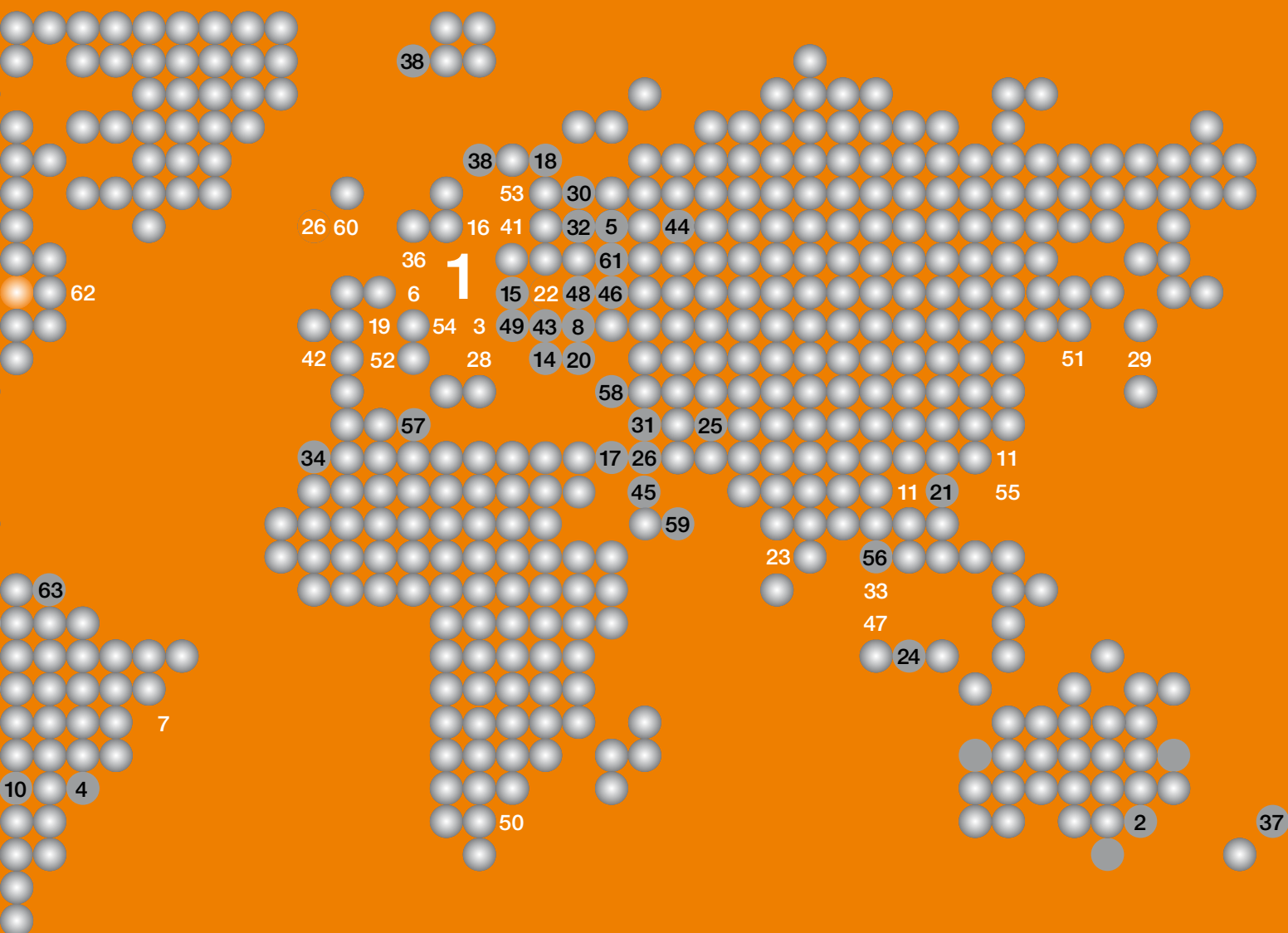
A large network of sales engineers is at your disposal in Germany and worldwide.

We gladly provide consultation on your premises, supply assembly instructions and aids to installation sites, as well as measure installation spaces and register ambient conditions on location.

This has the following benefits for you:

- We are wherever you need us
- Numerous E-Chain® and Polymer Bearing consultants remain at your disposal at all times
- Rapid delivery is guaranteed worldwide
- Spare parts are delivered ex stock in the shortest possible time





1 Germany	13 Costa Rica	27 Israel	41 Poland	55 Taiwan
2 Australia	14 Croatia	28 Italy	42 Portugal	56 Thailand
3 Austria	15 Czech Republic	29 Japan	43 Romania	57 Tunisia
4 Argentina	16 Denmark	30 Latvia	44 Russia	58 Turkey
5 Belarus	17 Egypt	31 Lebanon	45 Saudi Arabia	59 United Arab Emirates
6 Belgium/Luxembourg	18 Finland	32 Lithuania	46 Serbia	60 United Kingdom
7 Brazil	19 France	33 Malaysia	47 Singapore	61 Ukraine
8 Bulgaria	20 Greece	34 Morocco	48 Slovakia	62 USA
9 Canada	21 Hong Kong	35 Mexico	49 Slovenia	63 Venezuela
10 Chile	22 Hungary	36 Netherlands	50 South Africa	
11 China/China South	23 India	37 New Zealand	51 South Korea	
12 Colombia	24 Indonesia	38 Norway/Iceland	52 Spain	
	25 Iran	39 Panama	53 Sweden	
	26 Ireland	40 Peru	54 Switzerland	

All addresses on last page.

The igus® story from 1964 till today.

Innovation with plastics

The igus® story begins on October 15th, 1964 with Günter Blase in a double garage in Cologne-Mülheim. In its first 20 years, igus® operated as a supplier of intricate technical plastic components. In 1983, son Frank Blase started to concentrate on full products like EChain Systems® and Polymer Bearings and established a separate marketing department. Between 1985 and 2009, igus® expanded from 40 over 1800 staff members distributed all over the world. igus® will continue to invest in expansion in the coming years. Modern materials have opened up further opportunities for innovative products.



igus® Sales & Marketing, from left: Tobias Vogel, Sales Manager Polymer Bearings, Harald Nehring, authorized signatory, E-ChainSystems® and Chainflex®, Gerhard Baus, authorized signatory Polymer Plain Bearings, Michael Blaß, Sales-Manager E-ChainSystems® and Chainflex®, Frank Blase, CEO.



Today: Automated plastic production



Today: Large tool development and production facility

970

1965
First iglidur®
sliding element:
Plug valve for
the company
Pierburg



65

1971
First E-Chain®
(series 20)



70

1979
First E-Chain®
catalog,
2 pages



75

1980
First Polymer
Bearings cata-
log, 8 pages



80



Company found-
ers Günter
and Margret
Blase in front of
their "double
garage" from
1964

5

10



1977: Relo-
cation to the
Locher Mühle
in Bergisch
Gladbach

27

1.000

1989
First
Chainflex®-
cable CF1



1989
E4 E-Tubes,
to open on
both sides



1991 x
xigus 1.0
electronic
catalog



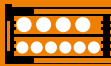
1993
intro-
duction of
DryLin® R



1994
intro-
duction of
igubal®



1995
ReadyChain®,
with the
slogan
"Chain-Cable
Guarantee"



1997
DryLin® T



2001
System E6
E-Chains®



2001
DryLin® N



2003
Triflex® R



2003
DryLin® W



2005
iglidur®-
PRT sle-
wing ring
bearings



2006
LeviChain



2006
System
P4 roller
E-Chain®



2007
System
E4.1
E-Chain®



2007
DryLin®
ZLW



2007
invis®
Power



2008
E4.350 –
largest
polymer
E-Chain®



2008
xiros® po-
lymer ball
bearings



2009
E4.1 – new
interior
separation
tool box



2009
RX – chip-
proof
E-tube



2009
Guidelok
horizontal –
for long
travels



2009
igus®
roboLink



2010
igus®-
Twister-
Band 3000°



2010
Pick-Chain,
contin



2010
E2/000 –
Chain opener



2010
DryLin®
Leadscrew
nut with Anti-
Backlash



85

90

95

00

05

06

07

08

09

10



1994:
Reloca-
tion to the
new igus®
factory in
Cologne

80.000

1.900

45.000

1.600

1.000

160

8.000

staff
products with
variants



2009:
Extension
by around
60% of the
igus® factory
in Cologne

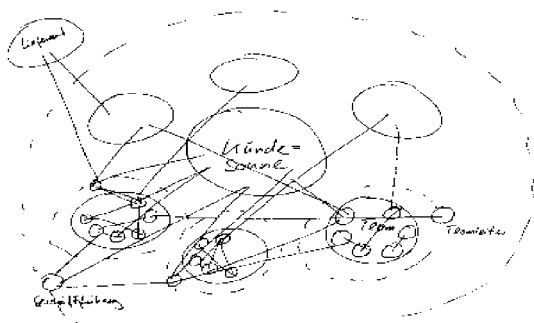
The flexible igus[®] factory

The environment at igus[®] is fully open – anyone can contact anyone else directly, everyone works at identical desks, has the same work equipment, the same choice of meals at the cafeteria and the same bathroom facilities.



For us, customers have the same significance as the sun to life on earth.

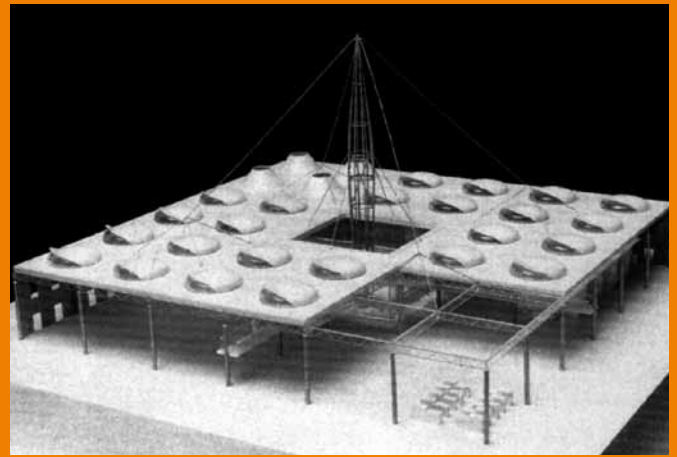
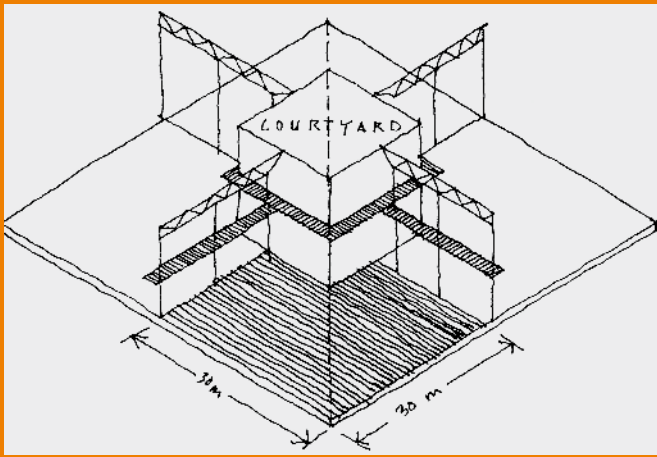
The sun gives light, warmth and energy; our customers give us ideas, work and money.



igus[®] is now producing, testing and researching in Cologne on a floor area covering 36,000 m².

The factory area has been extended to 29,000 m², added to which are 7,000 m² of surrounding buildings for additional fabrication, technical training and a large logistics center. In the course of factory extension, together with consistent lean management we have closely examined all departments: from marketing and administration to research and development, tool design and production through to warehousing and distribution.





Excerpt of architect's briefing

"In October 1988, igus® acquired a plot sized about 40,000 m² in the Porz-Lind district of Cologne.

This will be the future site of development, production, sales, administration and planning. As the centre of all activities, this location will serve as the new igus® headquarters. igus® has made preparations for fast growth, fast change and flexible response in all areas.

Offering the necessary facilities and technology, the new "igus® premises" will also be designed to promote staff performance.

The interior and exterior will be designed to reflect the enterprise's products and key philosophy: innovation – service – reliability, the customer being comparable to a solar system's centre orbited by all igus® staff and igus® entities dedicated toward solving the customer's problems."





iglidur® | Chemical Resistance

Chemicals, iglidur®	A180, J200, R, UW, xirodur® B180	A200, G, GLW, M250, W300, L250, C, L100, igumid G	A350	A500, UW500, X, X6, xirodur® A500	A290, F	J, J3, J4	J260	J350	H, H2, H370, H4	P, P210, K	Q	V400	Z	B	D	T220	PEP
Acetaldehyde (aqueous), 40 %	+	0	x	+	0	+	-	x	x	-	0	x	x	0	+	-	0
Acetamide (aqueous), 50 %	+	+ ¹	x	+	+ ¹	+	-	x	x	x	+ ¹	x	x	x	+	x	+ ¹
Acetic acid, 2 %	+	-	+	+	-	+	+	+	+	+	0	+	+	-	+	+	0
Acetic acid, 10 %	+	-	+	+	-	+	+	+	+	+	+	+	+	-	+	+	0
Acetic acid, 90 %	-	-	+	0	-	-	-	x	+	-	-	+	+	-	-	-	-
Acetone	+	+	-	+	0	+	-	-	+	-	+	+	+	0	0	-	+
Acetyl chloride	-	-	x	x	-	-	x	x	x	x	-	x	x	x	-	x	-
Acrylnitrile	0	+	x	+	+	0	-	x	x	-	+	x	x	-	0	-	+
Air, liquid	0	0	x	x	0	0	x	x	x	0	0	x	x	x	0	0	x
Allyl alcohol	+	0	x	+	0	+	x	x	+	+	+	x	+	0	+	+	+
Aluminum chloride (aq.), 10 %	0	0	x	+	0	0	0	x	+	0	0	x	x	0	0	0	0
Aluminum cleaner	-	-	x	0	-	-	x	x	0	x	-	x	x	-	-	x	-
Aluminium salt from mineral acid, 20 %	0	0	x	x	0	0	x	x	x	0	0	x	x	x	0	0	x
Aluminum sulphate (aq.), 10 %	0	0	x	+	0	0	+	x	+	0	0	x	+	0	0	0	0
Ammonium carbonate (aqueous), 10 %	+	+ ¹	x	+	+ ¹	+	0	x	+	+	+ ¹	x	+	0	+	+	+ ¹
Ammonium chloride (aq.), 10 %	+	+ ¹	x	+	+ ¹	+	+	x	+	+	+ ¹	x	+	0	+	+	+ ¹
Amyl acetate, 100 %	-	-	x	+	-	-	-	x	+	0	+	x	+	-	0	0	0
Amyl alcohol	+	+	x	+	+	+	+	x	+	0	+	x	0	0	+	+	+
Aniline (aqueous), sat'd solution	0	0	x	+	0	0	-	x	+	0	0	x	x	-	0	0	0
Anisole	0	+	x	+	+	0	-	x	+	x	+	x	0	0	0	x	0
Anodised liquor (HNO ₃ -30 %/ H ₂ SO ₄ -10 %)	-	0	x	x	0	-	x	x	x	0	0	x	x	x	-	0	-
Aromatics	+	+	+	x	+	+	x	x	x	0	x	x	x	x	x	0	x
Barium chloride (aqueous), 10 %	+	0	x	+	0	+	+	x	+	+	+ ¹	x	+	-	+	+	+ ¹
Barium salt from mineral acid	+	0	x	x	0	0	x	x	x	0	0	x	x	x	0	0	x
Barium sulphate (aqueous), 10 %	+	0	x	+	0	+	0	x	+	+	+ ¹	x	+	0	+	+	+ ¹
Benzaldehyde	+	0	x	+	0	0	-	x	0	-	0	x	x	-	0	-	0
Benzoic acid (aqueous), 20 %	0	0	x	+	0	0	-	x	x	+	0	x	+	0	0	+	0
Benzyl alcohol	+	+	+	+	+	0	-	+	x	x	0	x	0	0	0	x	0
Biphenyl	+	+	x	x	+	+	x	x	x	-	x	x	x	x	x	-	x
Bitumen, DIN 51567	+	0	-	+	0	0	+	x	x	0	0	x	+	-	0	0	0
Bleaching solution	-	-	x	+	-	-	x	x	x	-	0	x	+	-	-	-	-
Bleaching solution (aqueous), 10 %	-	-	x	+	-	-	x	x	+	0	0	x	+	-	-	0	-
Blue vitriol, saturated solution	0	0	+	+	0	0	x	x	+	x	0	x	+	0	0	x	0
Blue vitriol, 0,5 %	+	0	+	+	0	+	x	x	+	x	0	x	+	0	+	x	0
Boric acid (aqueous), 10 %	+	0	+	+	0	+	+	x	x	-	+ ¹	x	+	-	-	+	+ ¹
Boring oils	+	+	+	x	+	+	x	x	x	+	x	x	x	x	x	x	x
Brandy vinegar	0	0	x	+	0	0	x	x	+	0	0	x	+	0	0	0	0
Bromine (aqueous), 25 %	-	-	x	+	-	-	-	x	-	-	-	x	0	-	-	-	-
Bromine vapours	-	-	x	x	-	-	x	x	x	-	-	x	x	x	-	-	-



Chemicals, iglidur®	A180, J200, R, UW, xirodur® B180	A200, G, GLW, M250, W300, L250, C, L100, igumid G	A350	A500, UW500, X, X6, xirodur® A500	A290, F	J, J3, J4	J260	J350	H, H2, H370, H4	P, P210, K	Q	V400	Z	B	D	T220	PEP
Butanol	+	+	+	+	+	+	O	X	+	+	+	X	O	-	O	+	+
Butter	+	+	X	+	+	+	+	X	+	+	+	X	+	O	+	+	+
Butylacetate	+	+	O	+	O	O	X	X	+	O	O	X	+	X	O	O	O
Butylglycol	+	+	-	+	+	+	O	X	+	+	+	X	+	O	+	+	+
Butylglycolat	+	+	X	X	+	+	X	X	X	+	X	X	X	X	X	X	X
Butyl phthalate	+	+	X	X	+	+	X	X	X	+	X	X	X	X	X	X	X
Butyric acid	O	O	X	+	O	-	-	X	+	O	-	X	+	-	-	O	-
Calcium chloride, sat'd solution	+	+ ¹	X	+	+ ¹	+	+	X	+	+	+ ¹	X	+	+	+	+	+ ¹
Calcium hydroxide (aqueous)	+	+	+	X	+	+	X	X	X	+	X	X	X	X	X	X	X
Calcium hypochlorite	+	+	X	X	+	+	X	X	X	O	X	X	X	X	X	O	X
Camphor	+	+	X	+	+	+	O	X	+	X	+	X	+	O	+	X	+
Carbonated ammonia (aqueous), 10 %	+	+	X	+	+	+	X	X	+	X	X	X	+	X	+	X	+
Carbon dioxide gas	+	+	X	+	+	+	+	X	+	+	X	X	X	-	+	+	X
Carbon disulphide	+	+	X	+	+	+	X	X	+	X	+	X	X	X	+	X	+
Catechol (aqueous), 6 %	-	-	X	+	-	-	-	X	X	-	O	X	O	-	-	-	-
Caustic natron (aqueous), 50 %	O	O	X	+	O	O	X	X	X	X	X	X	+	O	O	X	O
Caustic potash, 10 %	O	+ ¹	+	X	+ ¹	O	X	X	X	-	X	X	X	X	O	-	X
Caustic potash, 20 %	-	O	+	+	O	-	-	X	+	-	X	X	+	O	-	-	-
Caustic potash (aqueous), 40 %	+	+	X	+	+	+	X	X	X	X	X	X	+	X	+	X	+
Caustic potash, 50 %	-	O	+	X	O	-	X	X	X	-	O	X	X	X	-	-	-
Caustic soda (aqueous), 10 %	+	-	+	+	-	O	X	X	+	-	O	+	+	-	-	-	O
Caustic soda (aqueous), 50 %	+	+	+	X	+	+	X	X	X	-	X	X	X	X	X	-	X
Cellulose paint	+	+	X	X	X	+	X	X	X	X	X	X	X	X	+	+	X
Chlor, chlorine water	-	-	X	X	-	-	X	X	X	-	-	X	X	X	-	-	-
Chloramine	X	-	X	X	-	-	X	X	X	-	-	X	X	X	-	-	-
Chlor bromine methane, 98 %	X	O	X	+	O	X	X	X	X	O	O	X	X	O	X	O	X
Chlorethanal	-	-	X	X	-	-	X	X	X	-	-	X	X	X	-	-	-
Chloric gas	-	-	X	-	-	-	-	X	-	-	-	O	-	-	-	-	-
Chlorine hydrogen gas	-	-	X	X	-	-	X	X	X	-	-	X	X	X	-	-	-
Chlorine sulfone acid (aqueous)	-	-	X	-	O	-	-	X	-	-	-	X	+	-	-	-	-
Chlorine water, sat'd solution	-	-	X	+	-	-	O	X	X	-	O	+	O	-	-	-	-
Chloroacetic acid (aq.), 10 %	-	-	X	+	-	-	-	X	X	-	-	X	-	-	-	-	-
Chloroform	-	-	-	+	O	-	-	-	O	-	-	X	O	-	-	-	-
Chromic acid (aqueous), 1 %	O	-	X	+	-	O	O	X	-	O	O	+	O	-	O	O	O
Chromic acid (aqueous), 10 %	-	-	X	+	-	-	-	X	-	-	-	+	O	-	-	-	-
Citric acid, concentrate dilution	O	O	X	+	O	O	+	X	O	X	-	X	+	O	O	X	-
Citric acid (aqueous), 10 %	+	+ ¹	+	+	+ ¹	+	+	X	+	+	O	X	+	X	+	+	O
Citrus fruits	+	+	X	X	+	+	X	X	X	+	X,	X	X	X	X	X	X
Cobalt salt (aqueous)	+	+	X	X	+	+	X	X	X	+	X	X	X	X	X	X	X
Cooking fats, 100 %	+	+	+	+	+	+	X	X	+	+	+	X	+	O	+	+	+



iglidur® | Chemical Resistance

Chemicals, iglidur®	A180, J200, R, UW, xirodur® B180	A200, G, GLW, M250, W300, L250, C, L100, igumid G	A350	A500, UW500, X, X6, xirodur® A500	A290, F	J, J3, J4	J260	J350	H, H2, H370, H4	P, P210, K	Q	V400	Z	B	D	T220	PEP
Cooking oils	+	+	+	+	+	+	X	X	+	+	+	X	+	O	+	+	+
Cresol	-	-	X	+	-	-	-	X	+	-	-	X	+	-	-	-	-
Cyclohexane	+	+	+	+	+	+	O	X	+	-	+	X	+	-	-	-	+
Decahydronaphthalene	+	+	-	+	+	+	X	X	+	-	+	X	+	-	-	-	+
Dibutyl ether	+	+	X	X	+	+	X	X	X	+	X	X	X	X	X	X	X
Dibutyl phthalate	+	+	X	+	+	+	-	X	+	+	+	X	+	O	+	+	+
Dichlor benzene	-	+	X	+	+	-	X	X	+	-	+	X	O	X	-	-	-
Dichlor ethene	-	+	X	+	+	-	X	X	+	-	+	X	O	X	-	-	-
Dichlor ethylene	-	-	X	+	-	-	-	X	+	-	-	X	+	-	-	-	-
Diethylether	O	O	+	+	+	+	-	X	X	+	+	X	+	O	O	+	+
Dimethylformamide	O	+	+	+	+	+	-	X	+	+	+	+	+	O	+	+	+
Diocetyl phthalate	+	+	+	+	+	+	X	X	+	O	+	X	+	X	O	O	+
Dioxane	O	+	X	+	+	O	-	X	+	+	+	X	+	X	O	+	O
Dioxygen gas, +23°C, depressurized	+	+	X	+	+	+	+	X	+	+	X	X	X	-	+	+	X
Ethanal (aqueous), 40 %	+	O	X	X	O	O	X	X	X	O	O	X	X	X	O	O	X
Ethanol (aqueous), 96 %	+	O	+	+	O	O	+	X	+	-	O	+	O	O	+	-	O
Ethyl acetate	+	+	-	+	+	+	-	X	+	-	+	+	+	O	+	-	+
Ethylene	+	+	X	X	+	+	X	X	X	+	X	X	X	X	X	X	-
Ethylene chloride	+	+	-	+	+	+	-	X	+	-	+	X	+	O	+	-	+
Ethylene diamine (1,2-Ethane diamine)	+	+	X	+	+	+	O	X	O	+	+	+	+	O	O	X	+
Ethylene glycole (aqueous), 95 %	+	O	X	+	O	+	O	X	+	+	O	+	+	-	+	+	O
Ethylene oxide (1,2-Epoxy ethane)	+	O	+	X	O	O	X	X	X	O	O	X	X	X	O	O	X
Fat, cooking fat	+	+	X	+	+	+	O	X	+	+	+	X	+	O	+	+	+
Ferric chlorid, saturated solution	+	O	X	X	O	+	X	X	+	X	O	X	+	O	+	X	O
Ferric chlorid, 2,5 %	+	O	X	X	O	+	X	X	+	X	O	X	+	O	+	X	O
Ferric chlorid, 5 %	-	O	X	O	O	-	O	X	+	X	O	X	+	O	-	X	-
Ferric-III-chloride (aqueous), neutral, 10 %	O	+ ¹	X	O	O	O	+	X	+	X	O	X	+	O	O	X	-
Ferric-III-chloride (aqueous), sour, 10 %	-	-	X	+	+	-	-	X	+	-	O	X	+	-	-	X	-
Fluorinated hydrocarbons	O	+	X	+	O	+	O	X	+	O	+	X	O	X	O	O	+
Fluorine	-	-	+	X	-	-	X	X	X	-	-	X	X	X	-	-	-
Formaldehyde (aqueous), 30 %	+	O	+	+	O	+	+	+	+	+	+ ¹	X	+	O	+	+	+ ¹
Formamide	+	O	-	+	O	+	O	X	X	X	O	X	+	-	O	X	O
Formic acid (aqueous), 2 %	O	-	X	O	-	-	+	X	+	O	-	X	O	-	-	O	-
Formic acid, 10 %	-	-	X	-	-	-	X	X	O	-	-	X	-	-	-	-	-
Formic acid, 90 %	-	-	X	-	-	-	-	X	O	-	-	X	-	-	-	-	-
Fruit juices	+	+	-	X	+	+	X	X	X	+	X	X	X	X	X	X	X
Fuming sulfuric acid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Furfurol	+	O	X	+	O	+	O	X	+	+	+	X	+	O	+	+	+
Glycerine	-	+	+	+	+	+	O	X	+	+	+	X	+	X	+	+	+
Glycol	+	O	+	+	O	O	X	X	+	+	O	X	+	O	O	+	O



Chemicals, iglidur®	A180, J200, R, UW, xirodur® B180	A200, G, GLW, M250, W300, L250, C, L100, igumid G	A350	A500, UW500, X, X6, xirodur® A500	A290, F	J, J3, J4	J260	J350	H, H2, H370, H4	P, P210, K	Q	V400	Z	B	D	T220	PEP
Heptane	+	+	+	+	+	+	+	X	+	O	+	X	+	-	-	O	+
Hexa chlorine ethane	+	+	X	+	+	+	X	X	X	X	+	X	O	X	-	-	-
Hexachlorobenzene	+	-	X	+	-	-	X	X	X	X	-	X	O	X	-	-	-
Hexamethylphosphoracidtramid	+	-	X	X	-	-	X	X	X	-	-	X	X	X	-	-	-
Hexane	+	+	+	+	+	+	+	X	+	-	+	+	+	-	-	-	+
Humic acid	O	O	X	X	O	O	X	X	X	O	O	X	X	X	O	O	X
Hydrobromic acid (aqueous), 10 %	-	-	X	+	-	-	-	X	O	-	-	X	+	-	-	-	-
Hydrochloric acid, L20	-	-	+	X	-	-	X	-	X	O	-	X	X	X	-	O	-
Hydrochloric acid, 2 %	-	-	+	+	-	-	+	X	-	-	O	+	+	-	-	-	-
Hydrochloric acid, 10 %	-	-	+	+	-	-	-	O	-	-	-	+	+	-	-	-	-
Hydrofluoric acid (aqueous), 4 %	-	-	-	+	-	-	-	X	-	-	-	-	-	-	-	-	-
Hydrogen peroxide, 0,5 %	+	+	+	+	+	+	+	O	+	+	+	+	+	+	+	+	+
Hydrogen peroxide, 30 %	-	-	+	+	-	-	-	-	-	-	-	X	-	-	-	-	-
Hydrogen sulphide (aqueous)	+	O	X	X	O	+	X	X	X	O	O	X	X	X	-	O	O
Hydrogen sulphide (dry)	+	+	+	+	O	X	+	X	+	+	+	X	+	X	X	+	X
Hydroquinone (aqueous), 5 %	O	-	X	+	-	O	O	X	X	O	-	X	+	-	O	O	-
Ink, dye, Color	+	+ ¹	-	+	+ ¹	+	+	X	+	+	+ ¹	+	+	+	+	+	+ ¹
Iodine tincture, 3 %	O	-	-	+	-	O	-	X	+	X	O	X	+	-	O	X	O
Isooctane, 80 %	+	+	+	+	+	+	+	X	+	O	+	X	+	-	-	O	+
Isopropanol	+	+	+	+	+	+	+	X	+	+	O	X	O	O	+	+	O
Isopropyl ether	+	+	X	+	+	+	-	X	X	O	+	X	+	O	+	O	+
Ketone (aliphatic)	+	O	+	X	O	O	X	X	X	-	O	X	X	X	O	-	X
“Königswasser” HCl/HNO ₃ (75/50 vol.)	-	-	X	X	-	-	X	X	X	-	-	X	X	X	-	-	-
Lead acetate (diluted), 10 %	+	O	X	+	O	+	+	X	X	O	O	X	+	-	+	O	O
Lead stearat	+	+	X	+	+	+	+	X	+	+	+	X	+	O	+	+	+
Linseed oil	+	+	+	+	+	+	+	X	+	+	+	+	+	-	+	+	+
Lithium bromide/chloride/salts (aqueous), 50 %	+	O	X	+	O	+	+	X	X	O	O	X	+	-	+	O	O
Lithium chloride in alcohol, 20 %	+	-	X	X	-	-	X	X	X	X	-	X	X	X	-	X	-
Lubricating oil, mineral	+	+	+	+	+	+	+	X	+	O	+	+	+	-	+	O	O
Lubricating oil, synthetic	O	O	X	+	O	O	O	X	+	-	+	+	+	-	O	-	O
Magnesium chloride (aq.), 10 %	+	+ ¹	X	+	+ ¹	+	+	X	+	+	+ ¹	+	+	+	+	+	+ ¹
Magnesium hydroxyde (aqueous)	+	+ ¹	X	+	+ ¹	+	+	X	+	+	+	+	+	+	+	+	+
Maleic acid, concentrate solution	O	-	X	+	-	O	O	X	+	X	O	X	+	-	O	X	-
Maleic acid (aqueous), 10 %	-	O	X	X	O	-	X	X	X	-	O	X	X	X	-	-	-
Malt	+	+	X	X	+	+	X	X	X	+	X	X	X	X	X	X	X
Manganese sulphat (aq.), 10 %	+	O	X	+	O	+	X	X	+	X	+	X	+	O	+	X	+
Mercurous chloride, 6 %	-	-	X	+	-	-	+	X	O	O	-	X	X	-	-	O	-
Mercury	+	+	X	+	+	+	+	X	+	+	+	+	+	+	+	+	+
Methane	+	+	+	+	+	+	+	+	+	+	X	X	X	-	+	+	X



iglidur® | Chemical Resistance

Chemicals, iglidur®	A180, J200, R, UW, xirodur® B180	A200, G, GLW, M250, W300, L250, C, L100, igumid G	A350	A500, UW500, X, X6, xirodur® A500	A290, F	J, J3, J4	J260	J350	H, H2, H370, H4	P, P210, K	Q	V400	Z	B	D	T220	PEP
Methanol	+	+	+	X	+	+	X	+	X	+	X	X	X	X	X	X	X
Methanol, +20 % CaCl ₂ or LiCl	+	–	X	O	O	O	–	X	O	+	O	+	O	+	+	+	O
Methyl acetate	O	+	X	+	+	O	X	X	+	O	+	X	+	X	O	O	O
Methylamine	+	+	X	X	+	+	X	X	X	+	X	X	X	X	X	X	X
Methylene chloride	O	–	–	X	–	–	X	–	+	–	–	+	O	O	–	–	–
Methyl ethyl ketone	O	+	–	+	+	O	–	–	+	–	+	X	+	–	O	–	O
Milk	+	+ ¹	+	+	+ ¹	+	+	X	+	+	+ ¹	+	+	+	+	+	+ ¹
Milk acid (lactic acid), 10 %	+	+	+	+	+	+	+	X	+	+	O	X	+	O	O	O	O
Milk acid (lactic acid), 90 %	+	O	O	+	O	O	+	X	+	O	O	X	+	O	O	O	O
Molasses	+	+	+	X	+	+	X	+	X	+	X	X	X	X	X	X	X
Molykote lubricating grease	+	+	X	+	+	+	X	X	+	X	+	X	+	X	+	X	+
Mortar, cement, chalk	+	+	X	X	+	+	X	X	X	+	X	X	X	X	X	X	X
Naphthalene	+	+	X	+	+	+	O	X	+	+	+	X	+	–	+	+	+
Naphtalene sulfone acid	–	–	X	X	–	–	X	X	X	X	–	X	X	X	–	X	–
Natrium oleate	+	+	X	X	+	+	X	X	X	+	X	X	X	X	X	X	X
Natrium sulphate, 10 %	+	+ ¹	X	+	+ ¹	+	+	X	+	+	+ ¹	X	+	+	+	+	+ ¹
Natrium sulphite, neutral, 2 %	O	+ ¹	X	+	+ ¹	O	O	X	+	O	+ ¹	X	+	X	O	O	O
Natrium thiosulphate, 10 %	+	+ ¹	–	+	+ ¹	+	+	X	+	+	+ ¹	X	+	X	+	+	+ ¹
Nickelsalt (aqueous), 10 %	+	O	X	X	O	+	X	X	X	X	O	X	X	X	–	X	O
Nitric acid (aqueous), L50	–	–	X	X	–	–	X	X	X	–	–	X	X	X	–	–	–
Nitric acid (aqueous), 2 %	–	–	+	+	–	–	O	+	–	–	–	+	+	–	–	–	–
Nitric acid (aqueous), 5 %	–	–	X	+	–	–	–	X	–	–	–	+	+	–	–	–	–
Nitrio acetic acid	+	+	X	X	+	+	X	X	X	+	X	X	X	X	X	X	X
Nitrobenzene	O	–	–	+	–	O	–	X	O	–	O	+	–	–	–	–	–
Nitrogases	–	O	X	X	O	–	X	X	X	X	O	X	X	X	–	X	–
Nitromethane	–	O	X	+	O	–	X	X	O	–	X	X	+	O	–	–	–
Nitro paints, danger class A I	+	O	X	X	O	+	X	X	X	O	O	X	X	X	–	O	O
Nitro paints, danger class A II	+	+	X	X	+	+	X	X	X	O	X	X	X	X	X	O	X
Nitrotoluene	°	O	X	X	O	O	X	X	X	–	O	X	X	X	O	–	X
Nitrous gases (dry)	–	O	X	X	O	–	X	X	X	O	O	X	X	X	–	O	–
Noble gases (argon, helium, neon)	+	+	X	X	+	+	X	X	X	+	X	X	X	X	X	X	X
Octane	X	+	?	X	+	+	X	X	X	+	X	X	X	X	X	X	X
Oleic acid	+	+	X	+	+	+	+	X	+	+	+	+	+	O	+	+	+
Oxalic acid (aqueous), 10 %	X	O	+	+	O	X	+	X	X	+	O	X	+	–	X	+	X
Ozon	–	–	–	+	–	–	+	X	–	–	–	X	+	–	–	–	–
Palmitic acid	+	+	X	X	+	+	X	X	X	+	X	X	X	X	X	X	X
Paraffin	+	+	X	X	+	+	X	X	X	+	X	X	X	X	X	X	X
Paraffin oil	+	+	+	+	+	+	+	X	+	–	+	X	+	–	–	–	+
Pebble hydrofluoric acid (aqueous), 30 %	X	–	X	X	–	–	X	X	X	–	–	X	X	X	–	–	–
Perchlorethene	–	–	–	+	–	–	–	–	X	–	–	X	+	–	–	–	–
Perchloric acid, 10 %	–	–	X	+	–	–	–	X	X	–	–	X	+	–	–	–	–



Chemicals, iglidur®	A180, J200, R, UW, xirodur® B180	A200, G, GLW, M250, W300, L250, C, L100, igumid G	A350	A500, UW500, X, X6, xirodur® A500	A290, F	J, J3, J4	J260	J350	H, H2, H370, H4	P, P210, K	Q	V400	Z	B	D	T220	PEP
Perfume	+	+	X	X	+	+	X	X	X	+	X	X	X	X	X	X	X
Phenol (aqueous), 6 %	-	-	-	X	-	-	-	X	+	-	-	X	+	-	-	-	-
Phenol (aqueous), 70 %	-	-	X	O	-	-	-	X	+	-	-	X	+	-	-	-	-
Phenol (aqueous), 88 %	-	-	-	X	-	-	X	X	X	X	-	X	X	X	-	X	-
Phosphoric acid (aqueous), 0,3 %	+	O	X	+	O	+	+	X	O	-	O	X	+	O	-	+	O
Phosphoric acid (aqueous), 3 %	+	O	X	+	-	O	+	X	O	-	O	X	+	O	-	-	O
Phosphoric acid (aqueous), 10 %	-	-	-	+	-	-	O	X	-	-	-	X	+	-	-	-	-
Phthalic acid, saturated solution	+	O	X	+	O	+	O	X	O	+	O	X	+	O	+	+	O
Polyester resin (with styrene)	O	+	X	+	+	+	-	X	+	O	+	X	+	-	O	O	+
Porpenoic acid	O	-	X	X	-	-	X	X	X	-	-	X	X	X	-	-	-
Potassium bromide (aq.), 10 %	+	O	X	+	O	O	+	X	+	O	+ ¹	X	+	-	+	O	+
Potassium carbonate (aq.), 60 %	+	+ ¹	X	+	+ ¹	+	+	X	+	O	+ ¹	X	+	O	+	O	+
Potassium chloride (aq.), 10 %	+	+ ¹	X	X	+ ¹	+	X	X	X	+	X	X	X	X	X	X	X
Potassium chloride (aq.), 90 %	+	+ ¹	X	+	+ ¹	+	+	X	+	+	+ ¹	+	+	+	+	+	+
Potassium dichromate (aq.), 5 %	+	O	-	+	O	O	+	X	+	O	O	X	+	-	+	O	O
Potassium nitrate (aq.), 10 %	+	+ ¹	X	+	+ ¹	+	+	X	+	+	+ ¹	+	+	+	+	+	+
Potassium permanganate (aqueous), 1 %	+	-	-	+	-	+	+	X	-	+	O	X	+	-	+	+	O
Potassium sulphat, sat'd solution	+	+ ¹	X	+	+ ¹	+	+	X	+	O	+ ¹	X	+	O	+	O	+
Propane, Propene	+	+	X	+	+	+	-	X	+	+	+	X	+	O	+	+	+
Propanol	+	+	-	+	+	+	+	X	O	+	+	+	O	O	+	+	+
Pyridine	O	+	-	+	+	O	-	X	+	X	+	X	+	X	O	X	O
Pyruvic acid (aqueous), 10 %	X	O	X	X	O	X	X	X	X	O	O	X	X	X	-	O	X
Resorcin (1,3-Dihydroxybenzol), 50 %	X	-	X	X	-	-	X	X	X	-	-	X	X	X	-	-	-
Salicyl acid	-	+	-	+	+	-	+	X	+	-	+	X	+	X	-	-	-
Seawater	+	+	+	X	+	+	X	+	X	+	X	X	X	X	X	X	X
Sebum	+	+	X	+	+	+	+	X	+	+	+	+	+	+	+	+	+
Silikon oils	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+
Silver nitrate	+	+ ¹	X	+	+ ¹	+	+	X	+	O	+ ¹	X	+	X	+	O	+ ¹
Soap solutions	+	+ ¹	+	+	+ ¹	+	+	X	+	+	+ ¹	+	+	+	+	+	+ ¹
Soda solution, 10 %	+	+ ¹	+	+	+ ¹	+	X	X	+	+	+ ¹	X	+	X	+	+	+ ¹
Sodium acetate (aqueous), 10 %	+	-	X	+	+ ¹	+	+	X	+	O	+	X	+	O	+	O	+
Sodium bisuphite (aqueous), 10 %	+	+ ¹	-	+	+ ¹	+	O	X	+	+	+ ¹	X	+	X	+	+	+ ¹
Sodium bromide (aqueous), 10 %	+	+ ¹	X	+	+ ¹	+	+	X	+	+	+ ¹	X	+	+	+	+	+ ¹
Sodium carbonate, 5 %	+	+ ¹	-	+	+ ¹	+	+	X	+	+	+ ¹	X	+	X	+	+	+
Sodium carbonate (aqueous), 21,5 %	+	+ ¹	-	+	+ ¹	+	+	X	+	+	+ ¹	X	+	X	+	+	+
Sodium carbonate (aqueous), 50 %	+	+ ¹	-	+	+ ¹	+	+	X	+	+	+ ¹	X	+	O	+	+	+
Sodium chlorate (aqueous), 10 %	+	O	X	X	O	O	X	X	X	O	O	X	X	X	O	O	X



iglidur® | Chemical Resistance

Chemicals, iglidur®	A180, J200, R, UW, xirodur® B180	A200, G, GLW, M250, W300, L250, C, L100, igumid G	A350	A500, UW500, X, X6, xirodur® A500	A290, F	J, J3, J4	J260	J350	H, H2, H370, H4	P, P210, K	Q	V400	Z	B	D	T220	PEP
Sodium chloride, sat'd solution	+	+ ¹	X	+	+ ¹	+	+	X	+	+	+ ¹	X	+	+	+	+	+ ¹
Sodium dichromate (aq.), 10 %	X	O	X	X	O	X	X	X	X	O	O	X	X	X	–	O	X
Sodium dodecylbenzolsulfonat	+	+	X	X	+	+	X	X	X	+	X	X	X	X	X	X	X
Sodium hypochlorite (aq.), 10 %	–	–	X	+	–	–	O	X	O	O	O	X	X	O	O	O	O
Sodium hypophosphite (aqueous), 10 %	+	+	X	X	+	+	X	X	X	+	X	X	X	X	X	X	X
Sodium nitrate (aqueous), 10 %	+	+ ¹	–	+	+ ¹	+	+	X	+	+	+ ¹	X	+	+	+	+	+ ¹
Sodium nitrilotriacetate (aqueous), 10 %	+	+	X	X	+	+	X	X	X	+	X	X	X	X	X	X	X
Sodium salts, 10 %	+	+	X	X	+	+	X	X	X	+	X	X	X	X	X	X	X
Soldering fluid	–	–	X	X	–	–	X	X	X	–	–	X	X	X	–	–	–
Spirit, white	+	+	X	+	+	+	O	X	+	+	+	X	+	X	+	+	+
Steam	X	–	O	+	–	X	O	X	+	–	O	O	O	–	X	–	X
Styrene	O	+	X	+	+	O	–	X	+	–	+	X	+	–	–	–	+
Sulphur	+	+	X	+	+	+	+	X	+	+	+	+	+	+	+	+	+
Sulphur acid, 2 %	–	–	+	O	–	–	O	+	O	–	–	+	+	–	–	–	–
Sulphur acid, 10 %	–	–	+	O	–	–	O	O	–	–	–	+	+	–	–	–	–
Sulphuric acid (concentrate), 98 %	–	–	–	–	–	–	–	X	–	–	–	–	O	–	–	–	–
Tar	+	+	+	+	+	+	O	X	+	+	+	X	+	X	+	+	+
Tetrahydrofurane (solvent)	O	+	–	+	+	O	–	X	+	+	+	+	+	X	O	+	O
Tetraline	+	+	X	+	+	+	X	X	+	–	+	X	+	X	–	–	+
Thionyl chloride	O	O	–	+	O	O	–	X	X	X	O	X	X	O	O	X	O
Toluene	O	+	O	+	+	O	–	O	+	–	+	+	+	–	–	–	+
Transformer oil	+	+	+	+	+	+	O	X	+	+	+	X	+	–	+	+	+
Trichloroacetic acid (aq.), 50 %	–	–	X	X	–	–	X	X	X	–	–	X	X	X	–	–	–
Trichloroethanoic	–	O	X	+	O	–	X	X	+	–	O	X	O	X	–	–	–
Trichloroethylene	–	–	–	+	–	–	–	–	O	–	–	X	+	–	–	–	–
Triethanolamine, 90 %	+	+ ¹	–	+	+ ¹	+	+	X	+	+	+ ¹	X	+	X	+	+	+ ¹
Trisodiumphosphate, 90 %	+	+	X	+	+	+	+	X	+	+	+	X	+	X	+	+	+
Uranium fluoride	–	–	X	X	–	–	X	X	X	–	–	X	X	X	–	–	–
Urea	+	+	X	+	+	+	+	X	+	+	+	X	+	O	+	+	+
Uric acid (aqueous), 10 %	+	+	+	X	+	+	X	X	X	+	X	X	X	X	X	X	X
Urine	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Vaseline	O	O	+	+	+	+	O	X	+	O	+	X	+	O	O	+	+
Violet oil	+	+	X	+	+	+	X	X	+	X	+	X	+	X	+	X	+
“Washing machine cleaner” (phosphoric and nitric acid)	+	O	X	+	O	–	X	X	+	+	O	X	+	O	–	+	–
Water glasses (Sodium silicate)	+	+ ¹	X	+	+ ¹	+	+	X	+	+	+ ¹	X	+	+	+	+	+ ¹
Wax, molten	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Wine acid	O	O	+	+	O	+	+	X	+	X	+ ¹	X	+	O	O	X	+ ¹
Xylene	O	O	+	+	+	O	–	X	+	–	+	X	+	O	–	–	+



Chemicals, iglidur®	A180, J200, R, UW, xirodur® B180	A200, G, GLW, M250, W300, L250, C, L100, igumid G	A350	A500, UW500, X, X6, xirodur® A500	A290, F	J, J3, J4	J260	J350	H, H2, H370, H4	P, P210, K	Q	V400	Z	B	D	T220	PEP
Zinc chloride (aqueous), 10 %	+	O	+	+	O	+	+	X	+	X	–	X	+	O	+	X	–
Zinc oxide	+	+	X	+	+	+	+	X	+	+	+	+	+	+	+	+	+
Zinc sulphate (aqueous), 10 %	+	+ ¹	X	+	+ ¹	+	+	X	+	+	+ ¹	X	+	+	+	+	+ ¹

Resistance classification: + resistant; o conditionally resistant; – not resistant; x no data available

¹ The bearings are not chemically attacked by these substances. However, there may be a dimensional change due to moisture absorption.

The data was determined using laboratory specimens or based on comparisons with similar chemicals. Therefore, this data can only act as a reference. The chemical resistance of actual parts should be tested under application conditions. All data given concerns the chemical resistance at room temperature. Other temperatures may lead to different classifications of the chemical resistance. The data is based on our current knowledge. Future discoveries may lead to changes in the classification of the chemical resistance.



iglidur® J4 | Technical Data

Material table

General properties	Unit	iglidur® J4	Test method
Density	g/cm ³	1.48	
Color		grew	
Max. moisture absorption at +23 °C/50 % r.h.	% weight	0.3	DIN 53495
Max. water absorption	% weight	1.3	
Coefficient of sliding friction, dynamic against steel	μ	0.06–0.20	
pv-Wert, max. (trocken)	MPa · m/s	0.3	
Mechanical properties			
Modulus of elasticity	MPa	2,350	DIN 53457
Tensile strength at +20 °C	MPa	70	DIN 53452
Druckfestigkeit	MPa	55	
Max. recommended surface pressure (+20 °C)	MPa	35	
Shore D hardness		74	DIN 53505
Physical and thermal properties			
Max. long term application temperature	°C	+90	
Max. short term application temperature	°C	+120	
Min. short term application temperature	°C	–50	
Wärmeleitfähigkeit	W/m · K	0.25	ASTM C 177
Coefficient of thermal expansion (at +23 °C)	K ⁻¹ · 10 ⁻⁵	10	DIN 53752
Electrical properties			
Specific volume resistance	Ωcm	> 10 ¹³	DIN IEC 93
Surface resistance	Ω	> 10 ¹²	DIN 53482

iglidur® P210 | Technical Data

Material table

General properties	Unit	iglidur® P210	Test method
Density	g/cm ³	1.4	
Color		yellow	
Max. moisture absorption at +23 °C/50 % r.h.	% weight	0.3	DIN 53495
Max. water absorption	% weight	0.5	
Mechanical properties			
Modulus of elasticity	MPa	2,200	DIN 53457
Tensile strength at +20 °C	MPa	65	DIN 53452
Shore D hardness		75	DIN 53505
Physical and thermal properties			
Max. long term application temperature	°C	+100	
Max. short term application temperature	°C	+160	
Min. short term application temperature	°C	–40	
Electrical properties			
Surface resistance	Ω	> 10 ¹¹	DIN 53482

igumid G | Technical Data



Material table			
General properties	Unit	igumid G	Test method
Density	g/cm ³	1.37	
Color		black	
Max. moisture absorption at +23 °C/50 % r.h.	% weight	1.4	DIN 53495
Max. water absorption	% weight	5.6	
Mechanical properties			
Modulus of elasticity	MPa	7,800	DIN 53457
Tensile strength at +20 °C	MPa	240	DIN 53452
Shore D hardness		79	DIN 53505
Physical and thermal properties			
Max. long term application temperature	°C	+120	
Max. short term application temperature	°C	+180	
Min. short term application temperature	°C	-40	
Electrical properties			
Specific volume resistance	Ωcm	> 10 ¹¹	DIN IEC 93
Surface resistance	Ω	> 10 ¹¹	DIN 53482

iguton G | Technical Data

Material table			
General properties	Unit	iguton G	Test method
Density	g/cm ³	1.69	
Color		brown	
Max. moisture absorption at +23 °C/50 % r.h.	% weight	0.1	DIN 53495
Max. water absorption	% weight	0.2	
Mechanical properties			
Modulus of elasticity	MPa	10,200	DIN 53457
Tensile strength at +20 °C	MPa	140	DIN 53452
Max. recommended surface pressure (+20 °C)	MPa	65	
Shore D hardness		85	DIN 53505
Physical and thermal properties			
Max. long term application temperature	°C	+200	
Max. short term application temperature	°C	+240	
Max. short term ambient temperature ¹⁾	°C	+260	
Min. short term application temperature	°C	-40	
Electrical properties			
Specific volume resistance	Ωcm	> 10 ¹⁵	DIN IEC 93
Surface resistance	Ω	> 10 ¹⁴	DIN 53482

¹⁾ Without additional load, no sliding movement; relaxation possible



POM black | Technical Data

Material table

General properties	Unit	POM black	Test method
Density	g/cm ³	1.41	
Color		black	
Max. moisture absorption at +23 °C/50 % r.h.	% weight	0,2	DIN 53495
Max. water absorption	% weight	1,1	
Mechanical properties			
Modulus of elasticity	MPa	1,900	DIN 53457
Tensile strength at +20 °C	MPa	68	DIN 53452
Max. recommended surface pressure (+20 °C)	MPa	23	
Shore D hardness		78	DIN 53505
Physical and thermal properties			
Max. long term application temperature	°C	+90	
Max. short term application temperature	°C	+120	
Min. short term application temperature	°C	-50	
Electrical properties			
Specific volume resistance	Ωcm	> 10 ¹²	DIN IEC 93
Surface resistance	Ω	> 10 ¹²	DIN 53482

RN33 | Technical Data

Material table

General properties	Unit	RN33	Test method
Density	g/cm ³	1.36	
Color		black	
Max. moisture absorption at +23 °C/50 % r.h.	% weight	1.4	DIN 53495
Max. water absorption	% weight	6.0	
Mechanical properties			
Modulus of elasticity	MPa	3,200	DIN 53457
Tensile strength at +20 °C	MPa	80	DIN 53452
Max. recommended surface pressure (+20 °C)	MPa	60	
Shore D hardness		77	DIN 53505
Physical and thermal properties			
Max. long term application temperature	°C	+90	
Max. short term application temperature	°C	+120	
Min. short term application temperature	°C	-40	
Electrical properties			
Specific volume resistance	Ωcm	~ 10 ¹¹	DIN IEC 93
Surface resistance	Ω	~ 10 ¹¹	DIN 53482



Material table			
General properties	Unit	iglidur® L100	Test method
Density	g/cm ³	1.35	
Color		yellow	
Max. moisture absorption at +23 °C/50 % r.h.	% weight	0.7	DIN 53495
Max. water absorption	% weight	5.2	
Mechanical properties			
Modulus of elasticity	MPa	5,500	DIN 53457
Tensile strength at +20 °C	MPa	150	DIN 53452
Max. recommended surface pressure (+20 °C)	MPa	70	
Shore D hardness		79	DIN 53505
Physical and thermal properties			
Max. long term application temperature	°C	+100	
Max. short term application temperature	°C	+190	
Max. short term ambient temperature	°C	+200	
Min. short term application temperature	°C	-40	
Electrical properties			
Specific volume resistance	Ωcm	> 10 ¹³	DIN IEC 93
Surface resistance	Ω	> 10 ¹¹	DIN 53482

RN246 | Technical Data

Material table			
General properties	Unit	RN246	Test method
Density	g/cm ³	1.49	
Color		blue	
Max. moisture absorption at +23 °C/50 % r.h.	% weight	2.0	DIN 53495
Max. water absorption	% weight	6.0	
Mechanical properties			
Modulus of elasticity	MPa	6,000	DIN 53457
Tensile strength at +20 °C	MPa	180	DIN 53452
Max. recommended surface pressure (+20 °C)	MPa	65	
Shore D hardness		85	DIN 53505
Physical and thermal properties			
Max. long term application temperature	°C	+80	
Max. short term application temperature ¹⁾	°C	+120	
Min. short term application temperature	°C	-40	
Electrical properties			
Specific volume resistance	Ωcm	> 10 ¹¹	DIN IEC 93
Surface resistance	Ω	> 10 ¹¹	DIN 53482

¹⁾ without additional load, no sliding movement; relaxation possible



Date:	Phone: +44 (0) 16 04/67 72 40 Fax: +44 (0) 16 04/67 72 45
From:	To: igus® UK Head Office Polymer Bearings 51A Caswell Road Brackmills Northampton NN4 7PW
Phone:	
Fax:	

Please enter as much information as possible. If you prefer other measuring units, cross out the given unit and write your units next to it. Most applications questions can be answered with minimal data. Please call for further information (Phone: +44 [0] 16 04/67 72 40).

Dimensions:

Shaft diameter (mm):
Bearing length (mm):
Bearing wall thickness (mm):
Bearing load (N):
Running speed (m/s):

What type of bearing are you currently using?

- ☐ iglidur®
☐ steel backed PTFE bearing
☐ oil filled sintered bronze bearing
☐ anti-friction bearing
☐ other

Type of motion:

☐ rotating with U/min
☐ oscillating with degrees
☐ linear with mm stroke
Rate (1/min):

Which problem can iglidur® solve for you?

- ☐ dry running
☐ abrasion firmness
☐ edge pressing
☐ vibration dampening
☐ chemicals
☐ temperatures
☐ dirt, dust, ...
☐ cost reduction

Lubrication:

- ☐ dry
☐ oil
☐ grease
☐ water

Other load characteristics:
.....

Drawing:

Ambient temperature (°C)
Surrounding media (e.g. acids, water, alkalines etc.):
.....
Sliding surface (e. g. steel, plastic):
.....
Average roughness Ra:
Housing material:
Intermittent rating:
Run time (s):
Down time (s):
Target service life:



Date:	Phone: +44 (0) 1604/67 72 40 Fax: +44 (0) 1604/67 72 45
From:	To: igus® UK Head Office Polymer Bearings 51A Caswell Road Brackmills Northampton NN4 7PW
Phone:	
Fax:	

Please enter as much information as possible. If you prefer other measuring units, cross out the given unit and write your units next to it. Most applications questions can be answered with minimal data. Please call for further information (Phone: +44 [0] 1604/67 72 40).

Rod ends type A	☐ (male thread)	Average roughness Ra:
Rod ends type B	☐ (female thread)	Target service life (hrs):
Pillow block	☐	Current typ:
Spherical bearing	☐	
Flange bearing	☐ 2-hole	Surrounding media (e.g. acids, water, alkalines):
	☐ 4-hole	
Clevis Joints	☐ with pin and clip	
	☐ with spring-loaded pin	
Dimensional series	☐ E	Which problem can igubal® solve for you?
	☐ K	☐ dry running
Thread pitch	☐ Standard thread	☐ chemicals
	☐ Fine thread	☐ corrosion
Speed (m/s; rpm):		☐ dirt
		☐ vibration dampening
		☐ cost-reduction
		☐ weight
		Other load characteristics:
		

Type of movements:

- ☐ rotating
- ☐ oscillating with degrees
- ☐ linear

Lubrication:

- ☐ dry
- ☐ oil
- ☐ grease
- ☐ water

Shaft diameter (mm/Inch):

.....

Bearing load (N):

Ambient temperature (°C):

Shaft material (z. B. steel, 303 stainless, plastic):

.....

Drawing:

All calculations also online with our expert system ► page 962



Date:	Phone: +44 (0) 16 04/67 72 40 Fax: +44 (0) 16 04/67 72 45
From:	To: igus® UK Head Office Polymer Bearings 51A Caswell Road Brackmills Northampton NN4 7PW
Phone:	
Fax:	

Application:

Current guide system:

Orientation of system (1 = horizontal, 2 = lateral, 3 = vertical):

Number of bearings per rail/shaft: Number of rails/shafts:

Type of drive: Drive force [N]:

Average speed: Maximum speed:

Length of stroke: Expected service life:

Operating time:

Ambient temperature: Maximum temperature:

Surrounding medium: Lubrication:

Static load: Dynamic load:

For the following data, the drawings on next pages will help you!

Distance between bearings/carriages on a rail/shaft (wx):

Distance between rails/shafts (b):

Distance to centre of gravity in x-direction (Sx):

Distance to centre of gravity in y-direction (Sy):

Distance to centre of gravity in z-direction (Sz):

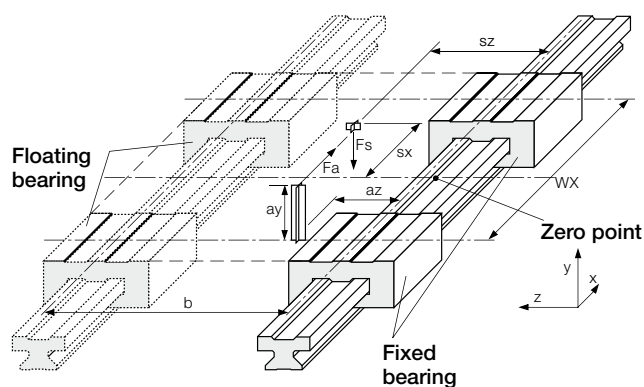
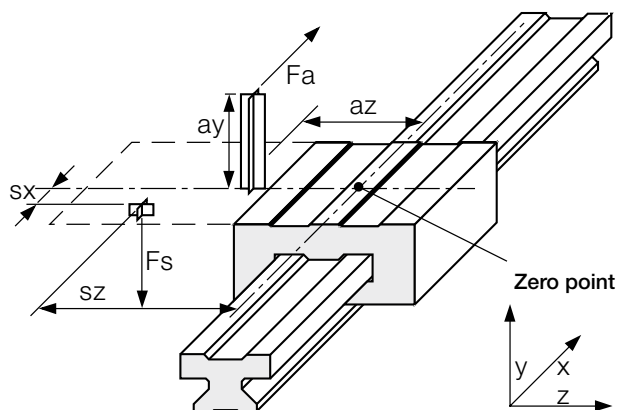
Distance to the drive force in y-direction (ay):

Distance to the drive force in z-d (az):

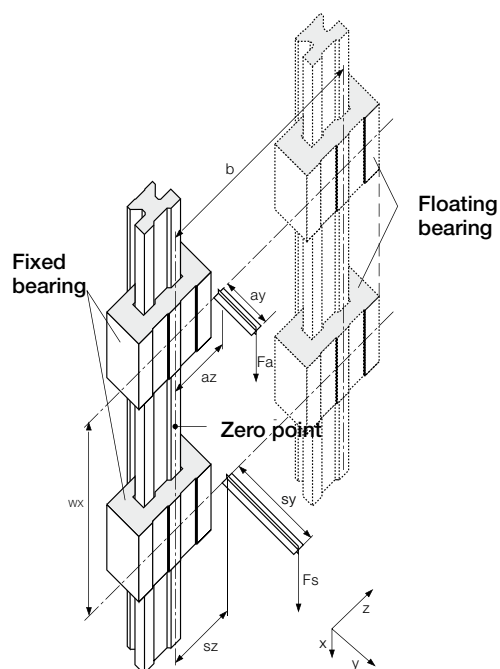
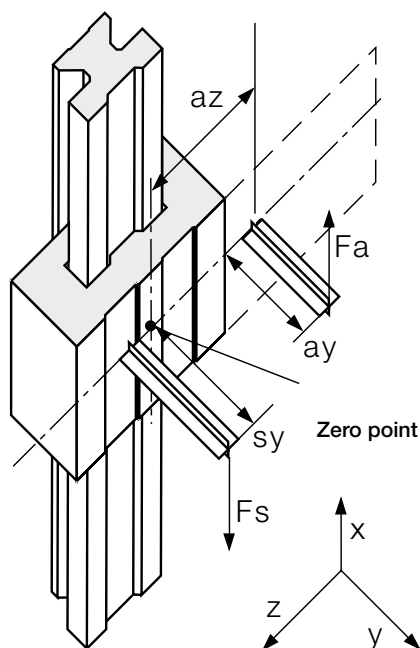
Please enter all the data you know and if possible make sketch.



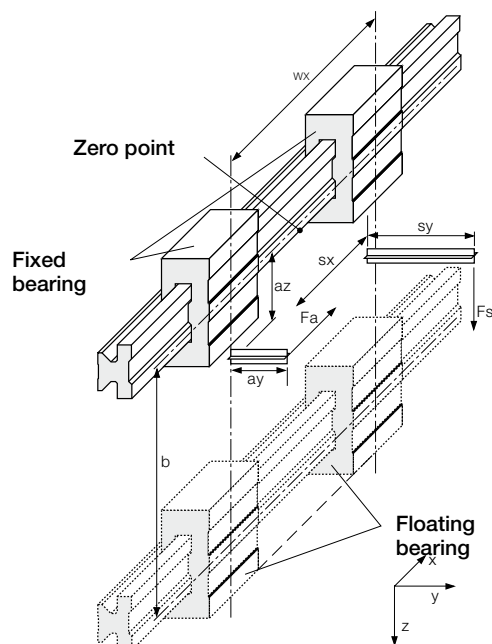
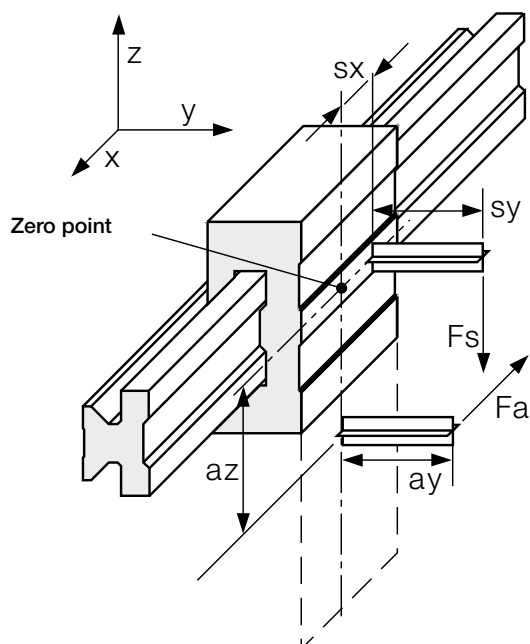
Horizontal Orientation



Vertical Orientation

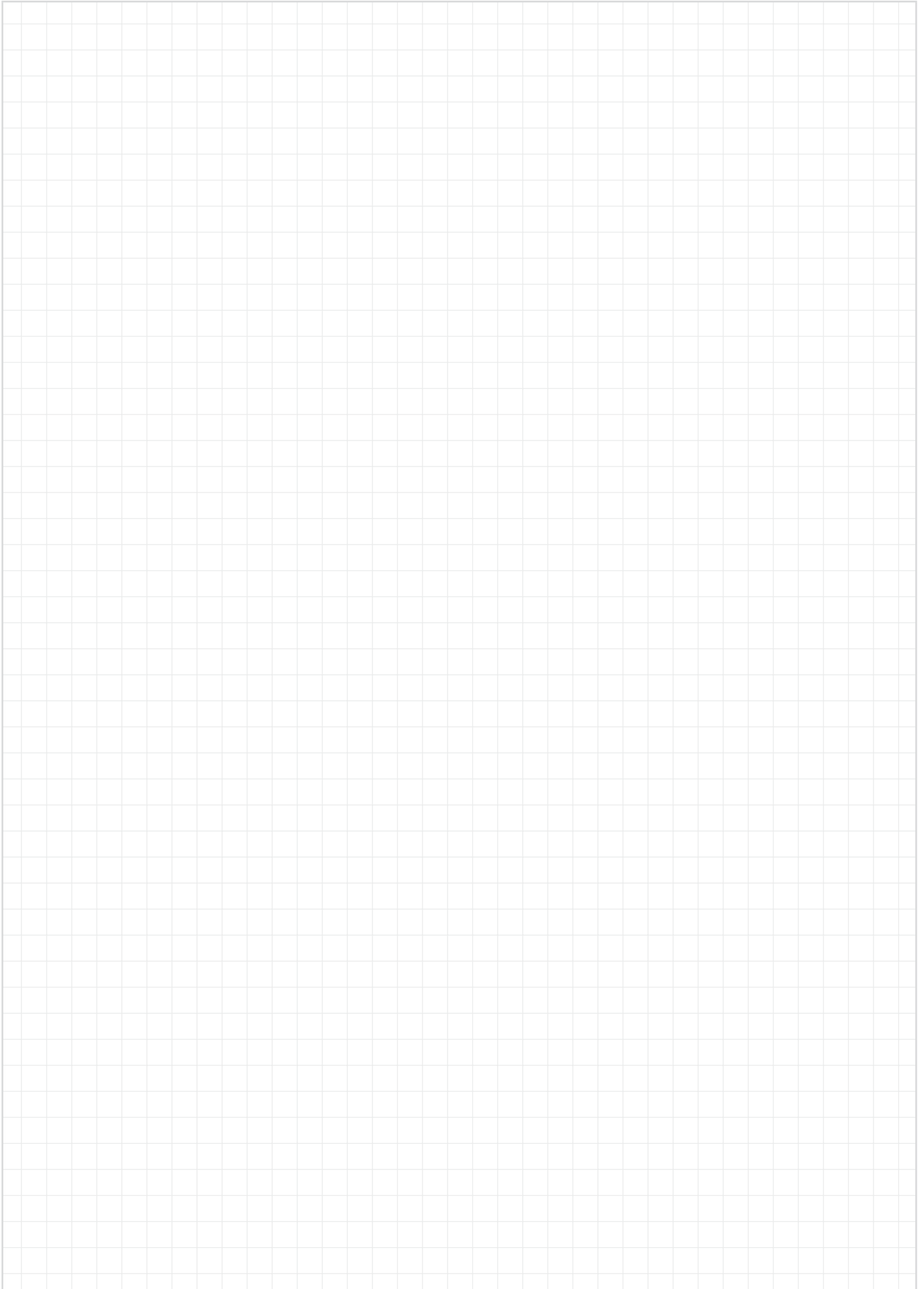


Lateral Orientation





My Sketches



igus® offices in the United Kingdom



HQ Northampton

igus® UK Limited

51A Caswell Road,
Brackmills Industrial Estate
Northampton NN4 7PW
Phone 01604 677240
Fax 01604 677245
sales@igus.co.uk

1. Midlands

Mr Paul Smith

Phone 07801 250942
psmith@igus.co.uk

2 North West + North Wales

Adam Sanjurgo

Phone 07977 018171
asanjurgo@igus.co.uk

3 South West

Mr Brian Stewart

bstewart@igus.co.uk

4 Central West + South Wales

Mr Carl Garrod

Phone 07971 910127
cgarrod@igus.co.uk

5 South East

Lee Ring

Phone 07977 120719
lring@igus.co.uk

6 Northern Ireland, Scotland

Mr Jonny Wright

Phone 07775 513682
jwright@igus.co.uk

7 East Anglia

Mr Dean Aylott

Phone 07779 291934
daylott@igus.co.uk

8 Eire

igus® Ireland

Fitzwilliam Business Centre
26 Upper Pembroke Street
Dublin 2
Phone +353(1)6373921
Fax: +353(1)6620365
www.igus.ie

9 North East

Mr Paul Hammond

Phone 07974 142633
phammond@igus.co.uk

igus® worldwide

igus® offices	8 Bulgaria Hennlich OOD, BG 4000 Plovdiv Konstantin Velichkov, 69, Et. 3 Phone+359-32-511326 Fax +359-32-621929 office@hennlich.bg	16 Denmark igus® ApS Postboks 243 8800 Viborg Phone+45-86-603373 Fax +45-86-603273 info@igus.dk	22 Hungary igus® Hungária Kft. Mogyoródi u.32. 1149 Budapest Phone+36-1-306-6486 Fax +36-1-431-0374 info@igus.hu	31 Lebanon Mecanix Shops Gebran Safi Charles Helou Avenue Beirut Phone+961 1 486701 Fax +961 1 490929 mecanix@dm.net.lb
igus® distributors				
1 Germany igus® GmbH Spicher Str. 1a 51147 Cologne (Porz-Lind) P.O.Box 90 61 23 51127 Cologne Phone+49-2203-9649-0 Fax +49-2203-9649-222 info@igus.de, www.igus.de	9 Canada igus® Office Canada 201 Millway Ave. UNIT 25 Concord Ontario L4K 5K8 Phone+1-905-7608448 Fax +1-905-7608688 webmaster@igus.com	16 Denmark – E-Ketten® Solar AS Industrivej Vest 43 6600 Vejen Phone+45-76-961200 Fax +45-75-364759 solar@solar.dk	22 Hungary Tech-Con Kft. Véső utca 9-11 1133 Budapest Phone+36-1-4124161 Fax +36-1-4124171 tech-con@tech-con.hu	32 Lithuania Hitech UAB Terminalo g. 3 54469 Biruliskiu k. Kauno raj. Phone+37037323271 Fax +37037203273 info@hitech.lt
2 Australia Treotham Automation Pty. Ltd. Unit 36, 9 Powells Road, Brookvale NSW 2100 Phone+61-2-99071788 Fax +61-2-99071778 info@treotham.com.au	10 Chile Vendortec San Martín # 2097 Maipú – Santiago Phone+56-2-7105825 ventas@vendortec.cl	17 Egypt Fedicom Trading Fayed Sami & Co. 12, El Mahaad El Swissri St., Flat 10 – 2nd Floor-Zamalek Cairo – A.R. of Egypt Phone+202-27362537 Fax +202-27363196 mohamed.fayed@fedicom.com	23 India igus® (India) Pvt. Ltd. 36/1, Sy No. 17/3 K R Puram Hobli Mahadevapura Bangalore - 560048 Phone+91-80-39127800 Fax +91-80-39127802 info@igus.in	33 Malaysia igus® Malaysia Sdn Bhd No. 19-1, Jalan PJU 1/3F Sunway Mas Commercial Centre 47301 Petaling Jaya Selangor D.E. Phone+603-78805475 Fax +603-78805479 awong@igus.de
3 Austria igus® Polymer Innovationen GmbH Ort 55 4843 Ampflwang Phone+43-7675-4005-0 Fax +43-7675-3203 igus-austria@igus.at	11 China igus® Shanghai Co., Ltd. No. 28, Jiatai Road, Waigaoqiao Free Trade Zone Shanghai 200131, P.R.C. Phone+86-21-51303100 Fax +86-21-51303200 master@igus.com.cn	17 Egypt IEE International Company for Electrical Engineering 2nd floor, 25 Orabi St Down Town, Cairo Phone+202-25767370 Fax +202-25767375 anas@iee-egypt.com	24 Indonesia Pt. Energi Canggih Indonesia Kelapa Gading Selatan BJ 08 / 14 Gading Serpong Tangerang 15810 Phone+62-21-5474364 Fax +62-21-5474365 jakarta@energicanggih.com	33 Malaysia Automation Industry & Systems (M) SDN.BHD. 50, Lorong Nagasari 11, Taman Nagasari 13600 Prai, Penang Phone+60-4-3905607 Fax +60-4-3997327 autoind@po.jaring.my
4 Argentina Borimport S.R.L. Guevara 275 (C1427BRE) – Capital Federal Buenos Aires - Argentina Phone+54-11-4556-1000 Fax +54-11-4556-1000 Mobil (011) 15-5261-7545 igus@borimport.com	11 China South igus® China Guangzhou office Room 2306, West Tower, Yangcheng International Commercial Center, Tiyu, East Road, Guangzhou 510620, P.R.C. Phone+86-20-38871726 Fax +86-20-38871768 guangzhou@igus.com.cn	18 Finland SKS Mekaniikka Oy Martinkyläntie 50 01720 Vantaa Phone+358-20-7646522 Fax +358-20-7646824 mekaniikka@skss.fi	25 Iran Tameen Ehtiajat Fani Tehran (TAF CO.) 72, Iranshar Ave., Unit 5 15816 Tehran, Iran Phone+98-21-88317851 Fax +98-21-88820268 info@taf-co.com	34 Morocco AFIT 5, Rue Amir Abdelkader 20300 Casablanca Phone+212522633769 Fax +212522618351 fmarquez@igus.com
5 Belarus STS Stromtehservis 16-554, Ul. Sharangovicha Minsk, 220018 Phone+375 17 3134513 Fax +375 17 3134514 common@strom-ts.com	12 Columbia Colsein Ltda Calle 82 # 5-48 Bogota Phone+57 61 08448-121 mercadeo@colsein.com.co	18 Finland – Chainflex® SKS Automaatio Oy Martinkyläntie 50 01720 Vantaa Phone+358-20-7646748 Fax +358-20-7646820 automaatio@skss.fi	26 Ireland igus® Ireland Fitzwilliam Business Centre 26 Upper Pembroke Street Dublin 2 Phone+353 1 6373921 Fax +353 1 6620365 sales@igus.ie	35 Mexico igus® México S. de R.L. de C.V. Boulevard Aeropuerto 160 Int. 135 Col. Corredor Industrial Toluca-Lerma Toluca, C.P. 52004 Phone +52-728-284-3185 Fax +52-728-284-3187 fmarquez@igus.com
5 Belarus COOO Hennlich Charkovskaya Str. 90-8 Minsk, 220015 Phone+375 17 207-3926 Fax +375 17 207-3921 info@hennlich.by	13 Costa Rica Enesa Equipos Neumaticos S.A. Del Colegio Marista 100 este, 200 sur, 25 este Urbanización Ciruelas Alajuela, Costa Rica Phone+506-2440-2393 Fax +506-2440-2393 equiposneumaticos@enesa.net	19 France igus® SARL 49, avenue des Pépinières Parc Médicis 94832 Fresnes Cedex Phone+33-1-49840404 Fax +33-1-49840394 info@igus.fr	27 Israel Conlog LTD P.O. Box 35 71 Petach Tikva 49134 Phone+972-3-9269595 Fax +972-3-9233367 conlog@conlog.co.il	36 Netherlands igus® Nederland Sterrenbergweg 9 3769 BS Soesterberg Phone+31-346-353932 Fax +31-346-353849 igus.nl@igus.de
6 Belgium/Luxembourg igus® B.V.B.A. Kolonel Begaultlaan 75 3012 Wilsele Phone+32-16-314431 Fax +32-16-314439 info@igus.be	14 Croatia Hennlich, Industrijska d.o.o. Franje Wölfla 4 10000 Zagreb Phone+385-1-3874334 Fax +385-1-3874336 hennlich@hennlich.hr	20 Greece – E-Chains® Chrismotor s.a. 71, Sp. Patsi str. 118 55 Athens Phone+30-210-3425574 Fax +30-210-3425595 info@chrismotor.gr	28 Italy igus® S.r.l. Via delle Rovedine, 4 23899 Robbiate (LC) Phone+39-0395906.1 Fax +39-0395906.222 igusitalia@igus.it	36 Netherlands – Bearings Elcee Holland BV Kamerlingh Onnesweg 28 NL-3316 GL Dordrecht Phone+31-78-6544777 Fax +31-78-6544733 info@elcee.nl
7 Brasilia igus® do Brasil Ltda. Av. Eng. Alberto de Zagottis 655 Santo Amaro 04675-085 São Paulo - SP Phone+55-11-35314487 Fax +55-11-35314488 vendas@igus.com.br	15 Czech Republic Hennlich Industrietechnik spol. s r.o., o.z. Lin-tech Ceskolipská 9 41201 Litoměřice Phone Chains +420-416-711332 Phone Bearings +420-416-711339 Fax +420-416-711999 lin-tech@hennlich.cz	20 Greece – Bearings J. & E. Papadopoulos S.A. 23, Retsina Street 185 45 Piraeus Phone+30-210-4113133 Fax +30-210-4116781 sales@papadopoulos-sa.com	29 Japan igus® k.k. Arcacental 7F, 1-2-1 Kinshi, Sumida-ku Tokyo JAPAN Zip 130-0013 Phone+81 3 58192030 Fax +81 3 58192055 info@igus.co.jp	37 New Zealand Automation Equipment Ltd. 26 Tawn Place PO Box 5656 Hamilton Phone +64-7-8490281 Fax +64-7-8492422 sales@autoequip.co.nz
8 Bulgaria Atlas Technik EOOD BG-1612 Sofia PK 51 Phone+359-885-232595 +359-897-981669 Fax +359-2-8597681 al_popoff@techno-link.com		21 Hong Kong Sky Top Enterprises Ltd. Room 1707, Block C; Wah Tat Ind Centre; Wah Sing Street; Kwai Chung; Hong Kong Phone+852-22434278 Fax +852-22434279 skytop@ctimail.com	30 Latvia INPAP Katrinās Str. 16 Phone+371-7509404 Fax +371-7509403 office@inpap.lv	