

igus[®] motion plastics[®] solutions



igus[®] story

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"Give us your most difficult moving part and we will give you a solution"

igus[®] test lab

Page 4

15,000 tests in more than 5,500m² as the basis for our "Tech up, cost down" promise

igus[®] services

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Harnessing, project planning, 3D printing and CNC service, Low Cost Automation testing area



Facts

The story behind igus®

"Give me your most difficult part and I will give you a solution", said Günter Blase. He had to take a risk in order to win over Pierburg, his very first customer. There were two children at home who needed to be cared for. Money was in short supply. He had just set up igus® with his wife (tax consultant) and the first injection moulding machine still had to be bought. The order from Pierburg was urgently needed.

And Günter Blase received that enquiry from Pierburg. Their complicated problem part was a valve cone for a carburettor. In 1964, no-one would have come up with the idea of using plastic to make this small metal

component and, what's more, to do so with an injection-moulding machine. The manufacturing process was simply too complicated. For Günter Blase, this was no reason to lose heart. He went into his double garage and experimented until the first perfect plastic valve plug emerged from the injection-moulding machine.

The double garage in Cologne-Mülheim soon became too small. Just like the new location in Bergisch Gladbach. Today, the headquarters of igus® SE & Co. KG are still located in Cologne - in the district of Lind - but accommodates over 800 injection-moulding machines in an area of over 200,000m². In addition, igus® has over 30 locations worldwide.

The business areas have expanded, from plastic energy chains and plain bearings to other components for moving applications and complex automation solutions. The core philosophy is still the same as in 1964, improve anything that moves.

"Give us your most difficult moving part and we give you a solution."

motion plastics® ... improve what moves

igus® facts at a glance



5,215 employees worldwide



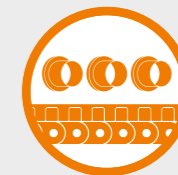
1.105 billion euros turnover



37 locations and 50 distributors in over 80 countries



188,000 customers



245,000 parts from stock



800 injection-moulding machines



Laboratory & development

Our test laboratory

Materials are manufactured by igus in accordance with the motto “Tech up, Cost down”. Our products are designed with great passion to extend the service life of machines and applications, eliminate maintenance and reduce costs. For our engineers, the quality and reliability of parts, i.e. their resilience and service life, are vital factors in development. Every igus product is tested thoroughly before it is made available for sale. To this end, we have been operating our own test laboratory since 1985. It's not only the largest test laboratory for tribo-polymers in the industry in terms of area, but it also conducts the highest number of product tests and test procedures.

What is tested and how?

Our facilities for testing applications and materials cover a total of 5,500m². Every business sector has its own test laboratory. However, we test some

products together in one area. For example, 1,500m² is dedicated to testing chainflex[®] cables in our own energy chains. For especially long travels, 2,000m² of outdoor space is available. iglidur[®] plain bearings, drylin[®] linear bearings, and our Low Cost Automation components are tested in an area of over 300m². The latter partly under real conditions in quality assurance. A further 1,500m² of test space has now been added in the new factory hall. To be able to develop new cleanroom-compatible products faster, we operate our own cleanroom laboratory with an ISO Class 1 cleanroom system in cooperation with the Fraunhofer IPA. An outdoor testing area, a laboratory for noise tests and the climatic chamber with -40°C created by igus[®] employees completes our test area. To achieve maximum realistic conditions, we also test customer applications and conduct standard industry tests.

We would love to test your application

You don't want to make experiments and would like to subject your application to a material test before using it? Or you have an unusual application for which you need a suitable component? No problem. We will test your application in our test laboratory and use our know-how to find the best igus[®] solution for you. Regardless of whether it is a plain bearing, energy chain, cable, linear technology, bar stock or Low Cost Automation.

How many tests are conducted in the test laboratory?

Annually, a large number of tests and material examinations are conducted in the numerous test facilities.

Online tools and guarantee

Unrivalled security

Laboratory facts

- Total area of igus[®] test laboratory: 5,500m²
- More than 15,000 tests, about 4,000 of them for e-chains[®] and chainflex[®] cables and around 11,000 of them for dry-tech[®] (rotating, pivoting, linear, tumbling, heated, underwater, and so on.)
- 450 test rigs for plain bearings
- 10 billion e-chain[®] cycles
- 3,500 tested cables
- 400 customer-specific tests

igus.eu/testlab

What happens to the test data?

The use of testing data does not stop after development. We have been developing innovative online tools since 2001 and sensor-based smart plastics since 2016, which are based on the database of our test laboratory results. With these online tools, the economic efficiency and reliability of our products can be determined quickly and very easily online 24/7. This means a high degree of transparency for our customers, enabling engineers to find the most cost-effective, functioning solution to their problem. More than 40 tools are available to you free of charge.

We offer a manufacturer's guarantee of up to 4 years on all our motion plastics[®] products with an igus[®] service life calculation. The guarantee service gives customers confidence that they will be able to design their individual applications exactly right and always choose the most cost-effective product that works reliably.

igus.eu/guarantee

Guarantee
igus Products

4
YEARS

up to 4 years guarantee





Sustainability

Sustainable product developments

Plastic is a much-discussed material. At igus®, we see high-performance plastics as a contribution to environmental protection and resource conservation and orientate our actions accordingly. We consider the entire life cycle: production, use and disposal.



Certified according to ISO 14001 and ISO 50001

In order to make our environmental policy transparent and comprehensible, we have been certified according to ISO standard 14001 since 2019, a recognised basis for environmental management systems. This helps us towards having a CO₂ neutral factory.



99% recycled

99% of our rejects in injection-moulding production (sprues, defective parts) are recycled and reused in the manufacturing process.



Our sustainability measures 2025

igus® focusses on sustainability in all three areas: direct emissions (Scope 1), indirect emissions from purchased energy (Scope 2) and emissions in the supply chain (Scope 3). These include, a.o. the use of process waste heat, expansion of e-charging stations, modernisation of buildings, use of green electricity and recycling of production waste. We present all the measures in detail under the following link:

igus.eu/sustainability-measures

Since 2018, our focus has increasingly been on sustainable production and products. We can now specify the carbon footprint of many iglidur® plain bearings. We also offer new products made from recycled material from our own production - tested and with a predictable service life.

Not all questions about sustainable production have been answered yet, but we are actively working on solutions.

Since November 2024, igus® has also been a partner of the Cologne Climate Declaration climate network. You can find these and other measures online at:

igus.eu/sustainability



change® program

One digital platform that connects participants of the circular economy providing quick and easy access to engineering recyclates.



PTFE-free or PFAS-tested solutions from igus®

igus® already offers many motion plastics® made from PTFE-free or PFAS-tested materials. This means that our products not only fulfil all current legal requirements, but are also future-proof - ideal for companies that want to switch to environmentally friendly production at an early stage.

igus.eu/ptfe-free

Power consumption

We purchase 100% green electricity and reduce the consumption of our machinery and equipment. We acquire injection moulding machines that are 40% more energy efficient. The power consumption was reduced by 11% in 2021, while increasing production.

Photovoltaic systems

The installed capacity is currently 730kWp, which corresponds to around 700,000kWh of generation capacity.



Machine Heat Recovery System

We have developed a gas-saving concept that allows waste heat from the injection moulding process to be used for heating.

We are also in the process of gradually equipping our buildings with new, modern heat pumps in order to further reduce the use of fossil fuels.

The circular economy goes digital



Change
engineering plastics recycling

igus®

170t

material received in the Change® recycling programme since 2019

400,000

400,000kWh of electricity reduced by optimising our injection-moulding production processes

reguse 460

renewed IT equipment sold or donated since 2020. 153 units in 2024 alone

156,900

First group-wide CO₂ balance at the end of 2025. igus® SE - 156,900tCO₂/eq (Scope 1-3)

76,280

trees planted since 2020

Harnessed for you: readychain® and readycable®



Ready-to-install readychain® - Energy supply systems

Energy chains from igus® are already being reliably used in hundreds of thousands of applications all over the world. From small devices up to steelworks, from very simple linear applications up to the most complicated task - igus® offers thousands of options for all types of applications. With more than 1,350 chainflex® cables from stock, igus® offers the largest range of cables specifically for the energy chain. Thanks to the industry's largest test laboratory, igus® is the only supplier in the market able to offer a 4-year guarantee on its chainflex® cables.

All common plug-in connections as well as more than 6,000 drive cables suitable for 41 manufacturer standards are available.

igus.eu/ready-to-install

Ready-to-connect readycable®

readycable® harnessed cables are ready-to-connect cables for use in energy chains. As a manufacturer and harnesser, igus® offers everything from one source, reducing throughput times and the number of suppliers. The portfolio includes an extensive range of catalogue products, including cables harnessed suitable for 41 manufacturers' standards and various industrial standards as well as customised components produced individually or in volume. Numerous cable types and qualities, with different approvals and certifications of conformity are available. All components are subjected to extensive quality checks and function tests.

igus.eu/readycable



igus® project

Custom-solutions

Tech up, Cost down: we take the difficulty out of even the most complex energy supply systems.

Conversion or new installation - special solutions do not need to be expensive. With more than twenty years of experience in project work and more than 1,000 projects each year, we have a rich modular system that makes it very easy for us to assemble customer-specific solutions. Our focus during these efforts is always to avoid over-engineering. We consistently develop technically precise solutions at the best price. If our customers want, we add installation and maintenance service and an individual guarantee.

Conversion project or new development – we provide you with on-site support

Whether you are working with an initial design or modernising an existing system, igus® specialists will give you on-site or remote assistance. Our goal: Tech up, Cost down. It's our job. You receive a free design proposal.

Project planning and quotation phase

If you find our design attractive, we will work out further details with you. We will discuss all necessary solution components: accessory parts and services. We will use this basis to quote a fixed price.

Project phase

Our project team prepares detailed drawings with all components and interfaces. Once they are approved, work begins in our 32,000m² production plant. The energy supply system is assembled precisely for shipment, with all its components and

attachments, ready to connect and including documentation.

Delivery and assembly

The pre-assembled energy supply is now delivered to the installation site. Here it can be installed by your fitters, optionally with an igus® supervisor. Alternatively, installation and commissioning can also be carried out by the igus® installation service. You can find more information about our after-sales services here:

igus.eu/engineering



Made for you: 3D printing and CNC service



3D printing with abrasion-resistant plastics

Abrasion and wear-resistant tribo-plastics for additive manufacturing via selective laser sintering (SLS), with filament (FDM/FFF) or resin (DLP) allow you to use the printed component or to test the function of the part reliably and completely from the prototype or production batch onward.

- Abrasion-resistant
- Lubrication and maintenance-free
- No tooling costs
- Design freedom
- 3D printing of parts on site
- Can be processed by commercially available 3D printers
- Predictable service life
- 3D printing service in 1 to 3 days

igus.eu/3D



Individual machined parts

Configure your wishes and receive direct price feedback. A large number of different iglidur® high-performance polymers are available to you. The ideal iglidur® material can be found for almost every application, from high temperatures to sea water, from food to automotive. Various online tools and our experts are on hand to help for the selection of materials.

Prioritise your order

If things have to go faster: select our express option and your components will be ready to ship in 3 days.

igus.eu/cnc



igus® Test & Integrate

From the idea to production

Industrial robots have their price. The payback times for robot systems are three to four years. But for small and medium-sized companies that want to manufacture more product types with small batch sizes, the requirements are very different. Entry into the world of automation is often considered to be complex and time-consuming. With Low Cost Automation we want to prove the opposite to you. Our goal is to make cost-effective and user-friendly automation solutions accessible to everyone. Developed and produced by igus® for the whole world. All of this is made possible by motion plastics®.

Do you want to be on the safe side when it comes to implementing your application?

You are welcome to visit our customer test areas. We will show you the world of Low Cost Automation in more than 400 square metres. As a proof of concept, we will perform a free handling test. Just send us your workpiece/object. In return, you will receive a video of the test, or we will show you your application's feasibility live.

The Low Cost Automation integrator network

Do you need additional specialist knowledge and manpower for integration? Our integrator network gives you access to experts familiar with our products. Each integrator

brings experience in customer project implementation and has access to igus® project experience. This is how we work with you to find the best possible solution.

Typical integration services are:

- Integrating a control system into existing machines
- Setting up and commissioning a robot
- Integrating vision and image processing systems
- Assessing security measures and safety precautions
- Individual project work

A clean AI revolution saves on lubrication, maintenance and costs

GO ZERO Lubrication ... with motion plastics®

With "GO ZERO", we present our solutions for a lubrication-free and sustainable world. We are driving the clean revolution forwards with innovative products and materials in addition to pioneering technologies such as AI and VR. Apart from lubrication and maintenance, this saves time and money and reduces the impact on the environment.

Why bother with freedom from lubrication?

Even today, most applications can run without lubrication and easily save money and time. The lowest-cost lubrication method is the one you don't need.

ZERO costs for lubricants

The costs of lubricants and their subsequent disposal have continued to rise in recent years. Expenses for incorrect or lack of lubrication are not even taken into account. Lubrication: money saved.

ZERO maintenance costs

Maintenance costs money, but also time. Shortage of skilled labour can also be countered with effectiveness. Recurring lubrication of bearing points is no longer necessary. Maintenance: time saved.

ZERO lubricants in the environment

To a large extent, forgotten liquid waste consists of so-called FOGs (fats, oil and grease). Half of the lubricants sold worldwide end up as pollution. And one litre of oil can contaminate one million litres of water. Causing unnecessary pollution.

High load, low price

iglidur® 2K multi-component plain bearings for high loads

Inner layer

- Tribologically optimised
- Self-lubricating
- Low friction
- Low wear

Outer layer

- Very resilient mechanics
- Ensures dimensional stability



[igus.eu/2k-plain-bearings](https://www.igus.eu/2k-plain-bearings)

Study on lubrication-free systems with the RWTH Aachen

GO ZERO Lubrication - this is what our customers save

Savings per system or per machine

Costs of €2,815.49
1,560 hours of maintenance
180.08kg of CO₂ equivalent

Heineken Brasil uses self-lubricating igus® bearing technology in conveyor belts and thus increases reliability and reduces Downtimes.



Savings per system or per machine

Costs of €87.36
13 hours of maintenance
1.4kg CO₂ equivalent

Rockinger uses a self-lubricating wear insert in the KS80 ball coupling, which makes lubrication superfluous and minimises maintenance.

Savings per system or per machine

Costs of €88
14.7 hours of maintenance
6.3kg CO₂ equivalent

Lemken specialises in the manufacture of agricultural equipment for soil cultivation, sowing and crop protection and saves 22 lubrication points per cultivator.



Design lubrication-free applications in seconds



igusGO® - revolutionary AI product search

Experience a revolutionary way of searching for products with igusGO® - our cloud platform with artificial intelligence.

Just take a picture of the existing application and its surroundings, and the igusGO® intelligence will show you which igus® products can help in your application so that it requires no lubrication. The app also shows where there is more potential to improve your machine's technology and even reduce costs at the same time.

Find out more and download the app now: igus.eu/igusgo

iguverse® - virtual engineering

Simplify your engineering and develop your machines in the virtual world using digital twins. Improve the planning and maintenance of systems by bringing your sales team and your customers together in a parallel universe and simplifying the exchange of information. Take your sales and engineering to the next level with the iguverse®! We are opening our iguverse®, powered by RAUM, as a collaboration platform for augmented reality (XR). Our aim is to promote the development of top engineering with greater sustainability and drastically shorter development cycles. We are at your side as a development partner and will provide you with digital twins of all our products in the iguverse in future.

igus.eu/iguverse



Creating added value together

RBTX®: Platform for robotic components

Users can find individual low-cost components such as linear robots, robot arms, end effectors, camera modules or control systems in one place. At the same time, suppliers of low-cost components can market their products in a targeted manner.

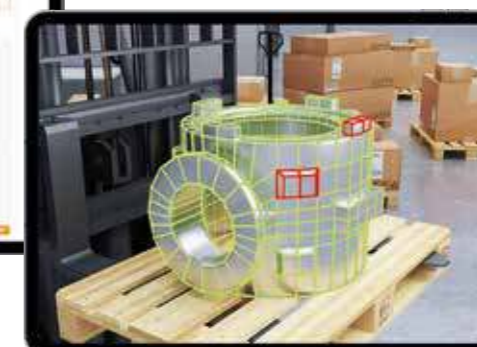


Change®: Recycling of technical plastics

Our online platform Change® offers easy access to the recycling of technical and industrial plastics. Here you can have plastic products from igus® and other manufacturers recycled. You can also use our marketplace to buy and sell recycled materials.

RCYL: Platform for the bicycle industry

Discover the possibilities of plastic in the bicycle industry with RCYL. We offer you our own urban bike made from recycled plastic as well as an online platform for bicycle and component manufacturers. Become a partner and let us drive sustainable mobility forward together.



kopla®: Service platform for online configurators

We already offer you many online tools with which you can calculate and simulate the service life and other parameters of our products. With our fully-managed service platform kopla®, we now provide you with a configuration solution that you can use to develop your own configurators.

igus® tribo-parts service

From CAD directly to the motion plastics® solution in less than a minute

AI service online with three production processes

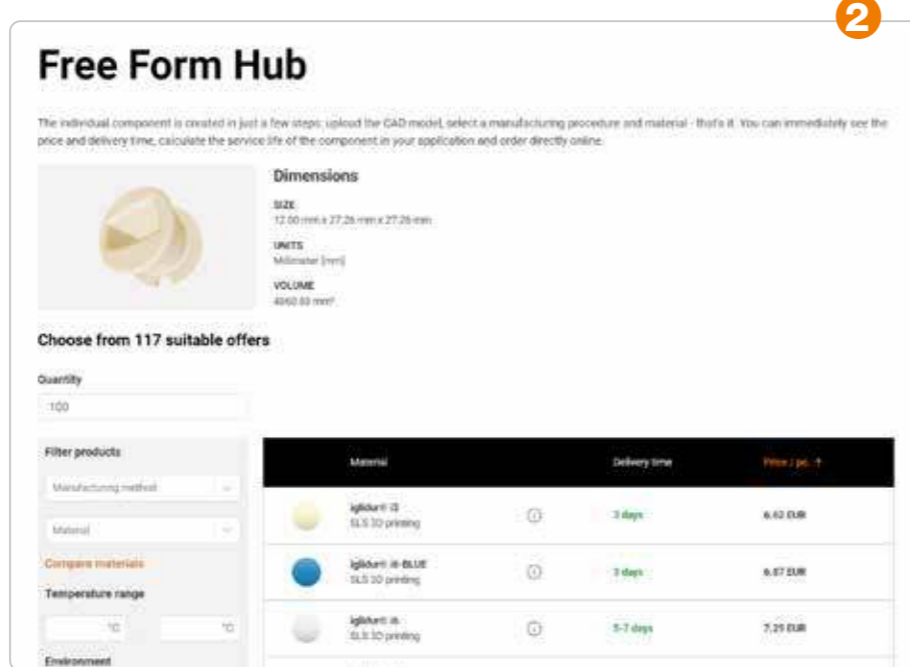
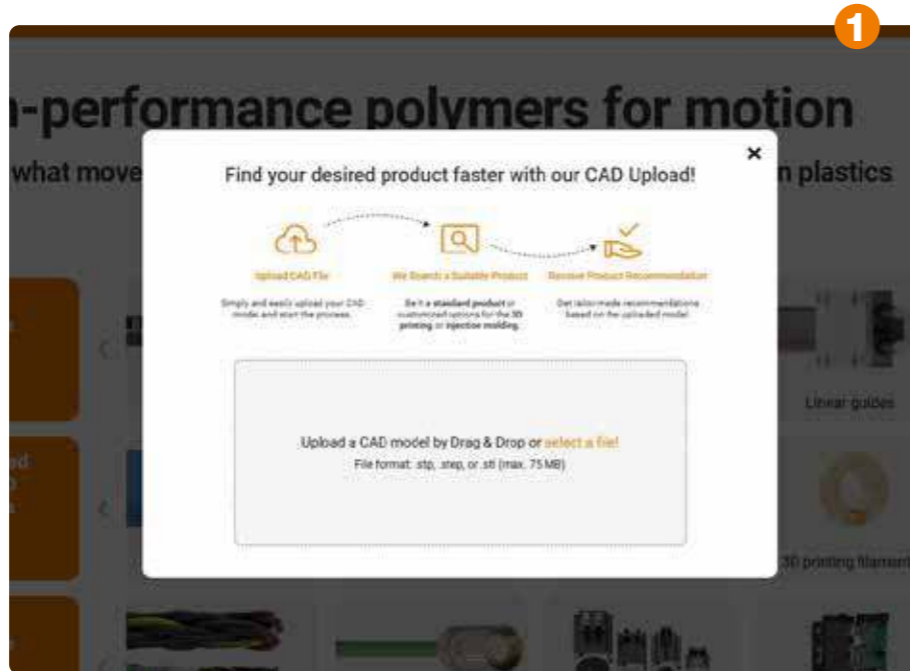
After uploading the file **1** the CAD part is analysed using artificial intelligence and compared with the igus® product range. If they match, suitable standard solutions are suggested from which you can select the best option for your application.

If no igus® standard product can be found, at the new tribo-parts service we can calculate the production of your individual component using 3D printing, injection moulding and now also CNC service **2**.

You can see the price and delivery time immediately and use filters to find the most suitable materials for you from over 62 motion plastics®. You can easily design your application to be lubrication-free and order or enquire about the solution online - with no minimum order quantity.

With motion on demand you get your igus® solution faster - as a standard version or customised for you. This saves time and money:

igus.eu/ffh



igus® tribo-parts service:

igus.eu/ffh

Discover the diversity of motion plastics®

Print2Digital ... made easy

The QR code will take you directly to the relevant category and/or to the product's shop page.

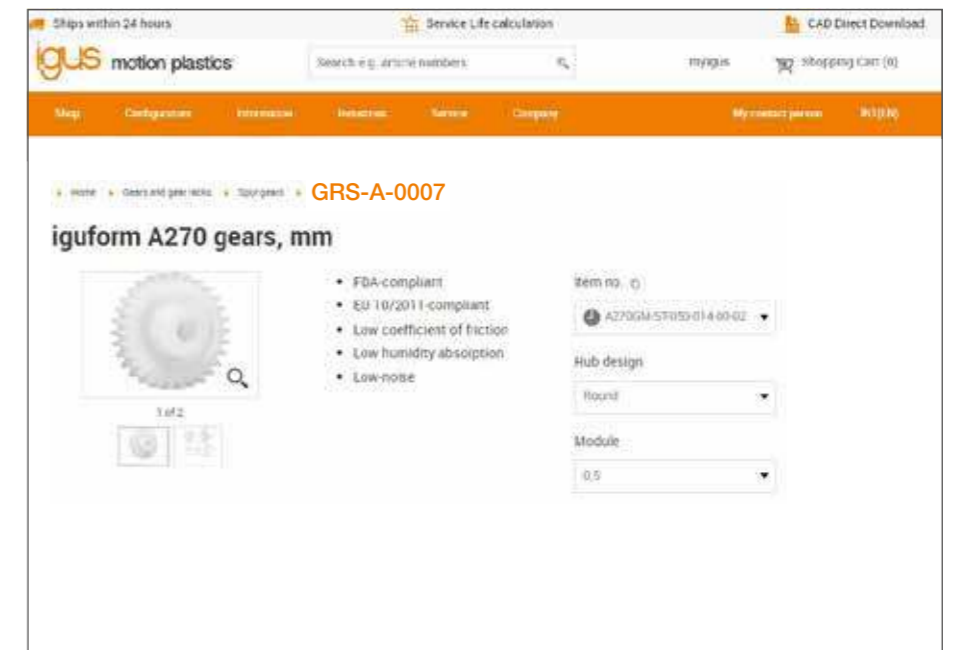
In addition to the detailed technical information in the shop, you can also access it there as a compact "factsheet" in PDF format.



No mobile device ?

No problem!

You can also use the text code to go directly to the product page via the search function on our website.



All igus® catalogues online at:

igus.eu/online-kiosk

Customised ... free of charge ... according to your requirements

Roadshow truck ... trade show on wheels with products of your choice



With
products of
your choice.



- Your employees can find out for themselves
- No cost for travel or accommodation
- Flexible to fit your schedule
- Individual application advice and general new products presentation - anything is possible
- Groups can be customised

igus.eu/roadshow

Experience motion plastics® live

On-site exhibition

For 22 years, we have been visiting you with our mobile pop-up trade show stand. We will show you our latest products, and together we can find the best solution for your application.



With
products of
your choice.



Low Cost Automation roadshow

We adapt our product range depending on the customer visit, similar to our mobile in-house exhibition. With the Low Cost Automation roadshow, we focus on the direct realisation of an application on site, which brings a quick return on investment.

Virtual/real trade show

igus® motion plastics® show

- Browse our trade show stand & get more information without leaving the website.
- Clear listing of new products in the menu.
- Book a guided news presentation with an igus® expert LIVE at the trade show at any time.
- Use our list function. Add news products to your list and receive more information via e-mail.

igus.eu/imps



Improve what moves

motion plastics®



iglidur®
plain bearings



drylin®
drive technology



iglidur®
rollers



Low Cost
Automation



iglidur®
slewing ring
bearings



Bicycle
components



iglidur®
bar stock



e-chains® and
e-chain systems®



iglidur®
3D printing



triflex® multi-axis
supply systems



drygear® gear and
gearbox technology



smart
plastics



igubal®
spherical bearings



chainflex®
cables



xiros®
ball bearings



readycable®



drylin®
linear technology



Connectors



dryspin®
lead screw technology



readychain®

Everything at a glance

dry-tech® bearing technology



iglidur®
plain bearings



Sleeve bearings



Flanged bearings



Thrust washers



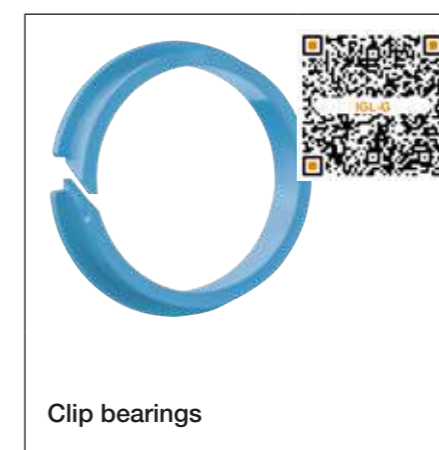
Guide rings



Split bearings



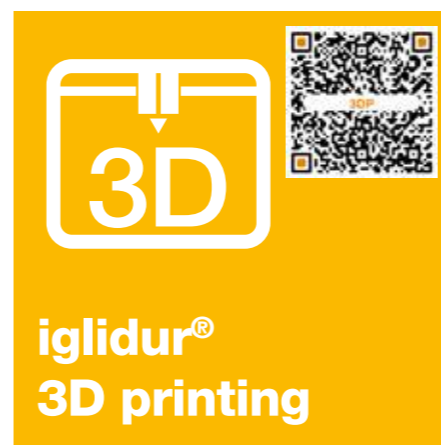
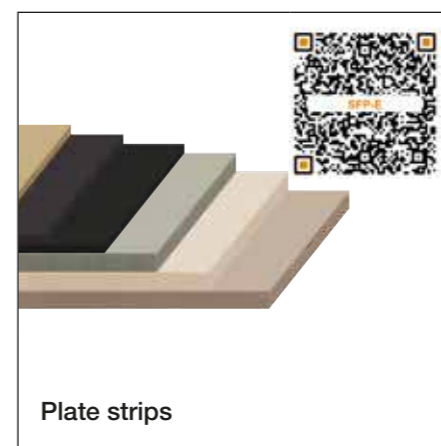
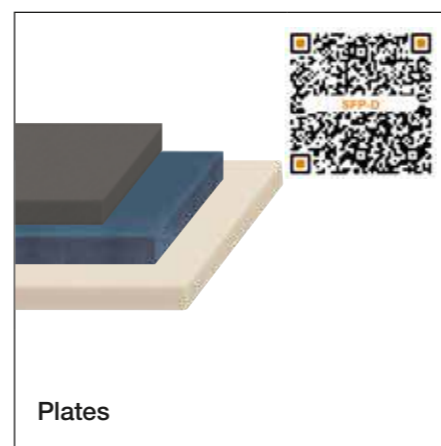
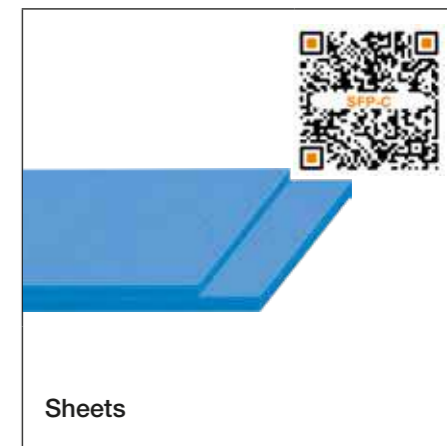
Split bearings, torque-resistant



Clip bearings

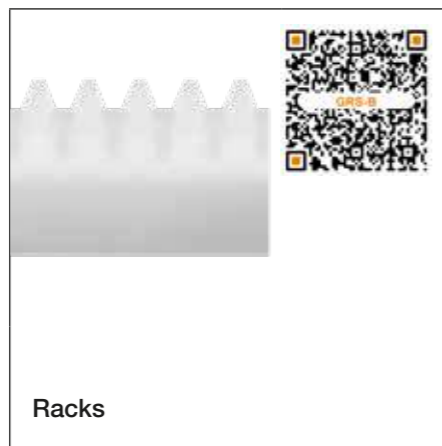


Two hole flange bearings





Spur gears



Racks



Bevel gears



Flange mounted bearings



Spherical bearings



Pillow block bearings



Angular gearbox



Modular gearbox system



igubal®
spherical bearings



Angled and in-line ball
and socket joints



Accessories



xiros®
ball bearings



Rod end bearings



Spherical balls



Spherical insert bearings



Radial deep groove ball bearings



Flanged ball bearings



Ball transfer units



Double joints



Coupling joints



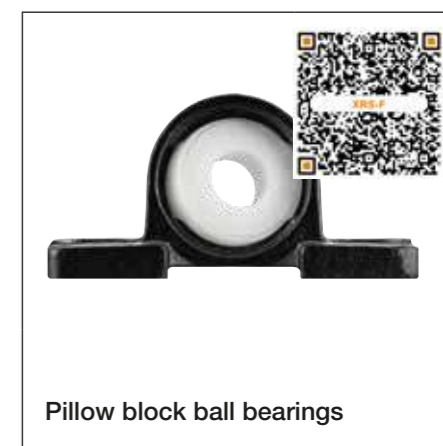
Clevis joints



Conveyor rollers



Thrust bearings



Pillow block ball bearings



Slewing ring ball bearings



Other types



drylin®
linear technology



Lead screws



Accessories



drylin®
drive technology



W profile guides



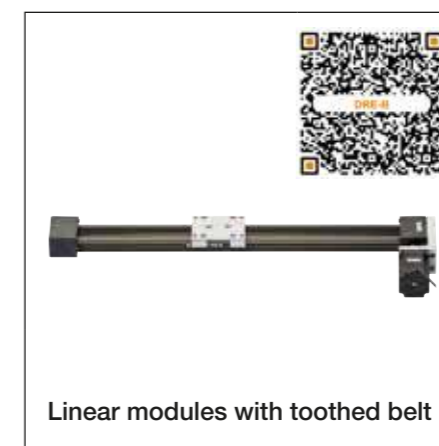
N low-profile linear guides



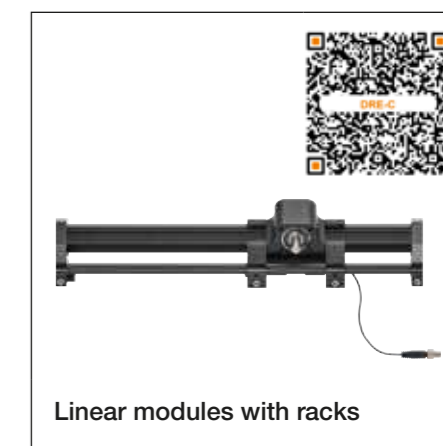
T rail guides



Linear modules with lead screw



Linear modules with toothed belt



Linear modules with racks



R shaft guides



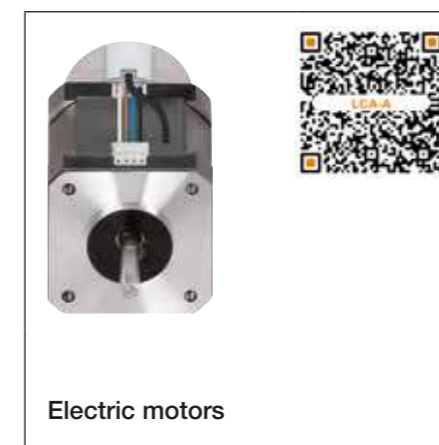
Q square linear guides



NT telescopic rails



XY-tables



Electric motors



**Low Cost
Automation**



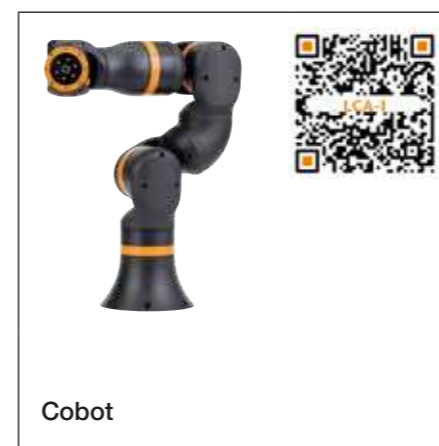
Complete systems
with measuring technology



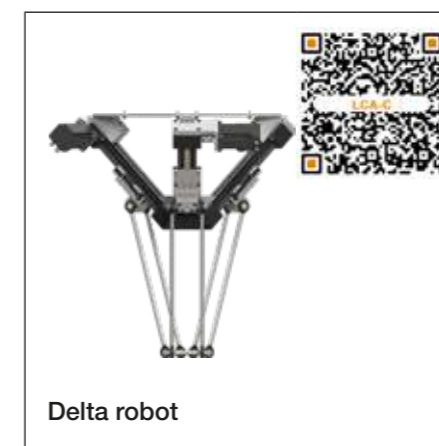
dryspin®
lead screw technology



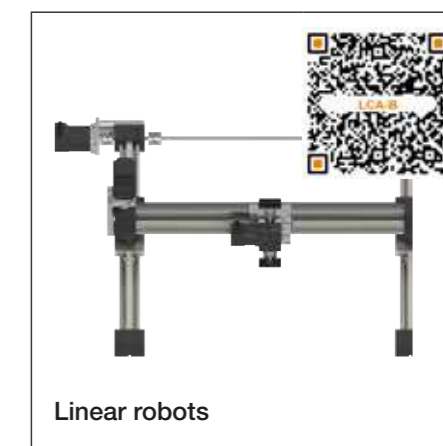
Lead screw nuts



Cobot



Delta robot



Linear robots



SCARA robot



Robotic arm



Robot modular system



Control system



RBTX
by igus®
RBTX®
Marketplace for
Low Cost-Robotics



Rotomoulded frames



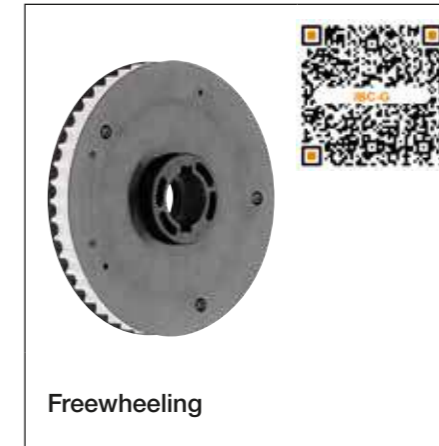
Injection moulded wheels



Rotomoulded wheels



Handlebars



Freewheeling



Planetary crank gearbox

Everything at a glance

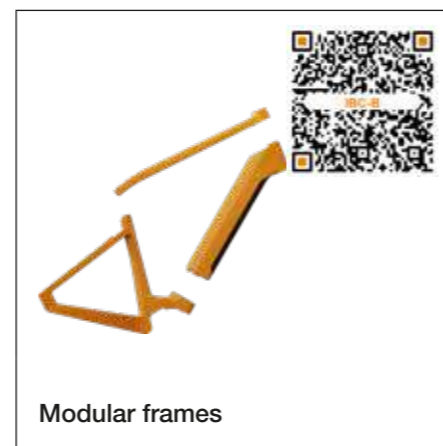
igus® bike components



**Bicycle
components**



Injection moulded frames



Modular frames



Pulleys



Bicycle wheel bearings



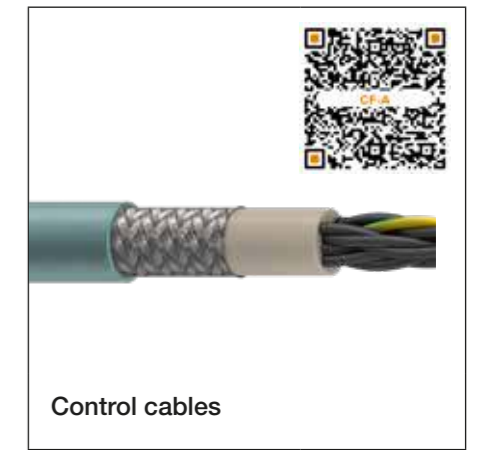
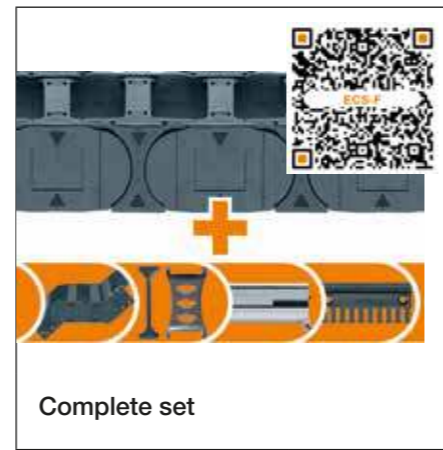
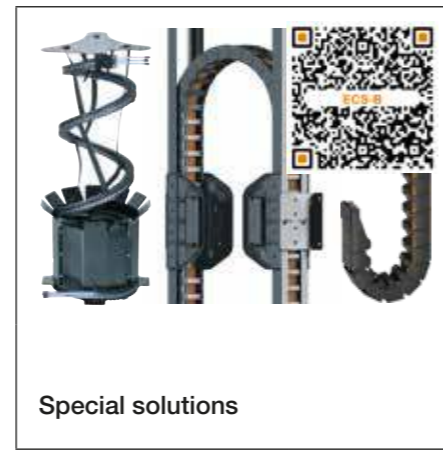
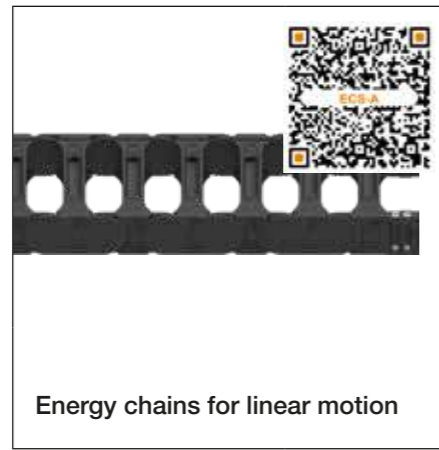
Pedal cranks

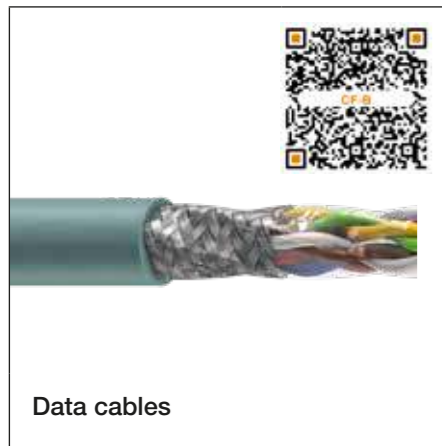


Plain bearings

Everything at a glance

e-chains® and e-chain systems®

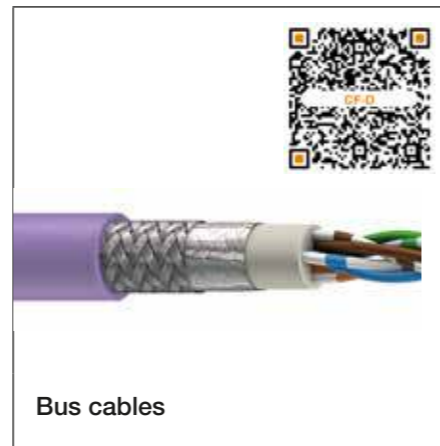




Data cables



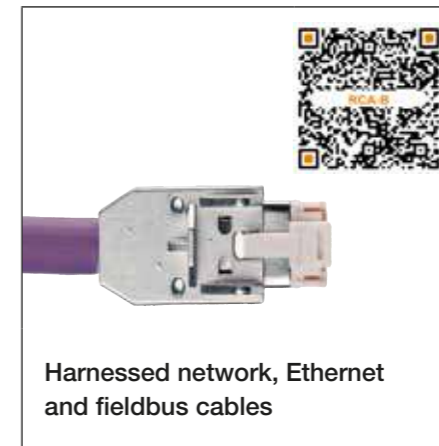
Coaxial cables



Bus cables



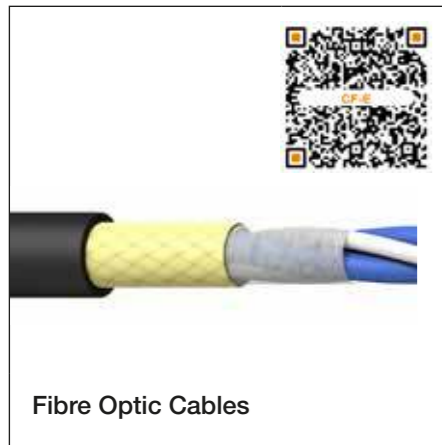
Harnessed drive cables suitable for 41 manufacturers



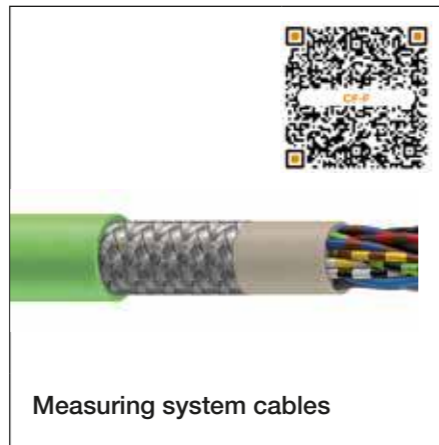
Harnessed network, Ethernet and fieldbus cables



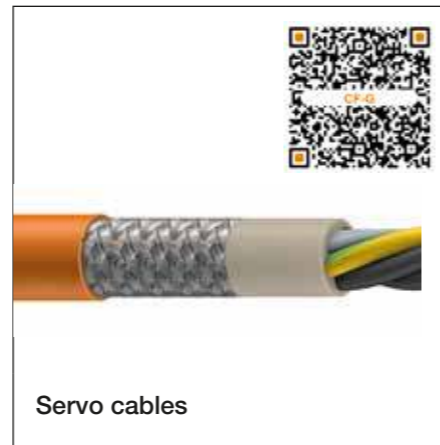
Harnessed video cables



Fibre Optic Cables



Measuring system cables



Servo cables



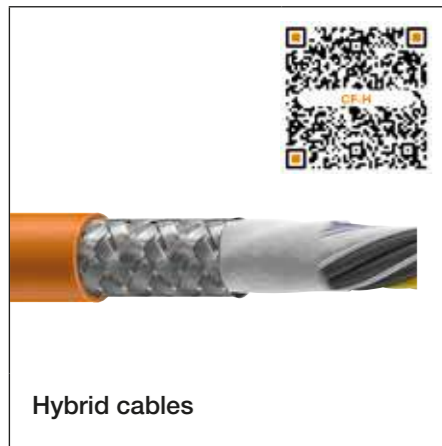
Harnessed sensor and actuator cables



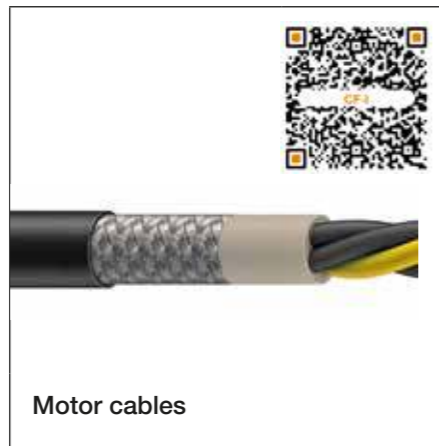
Cables with HARTING industrial connectors



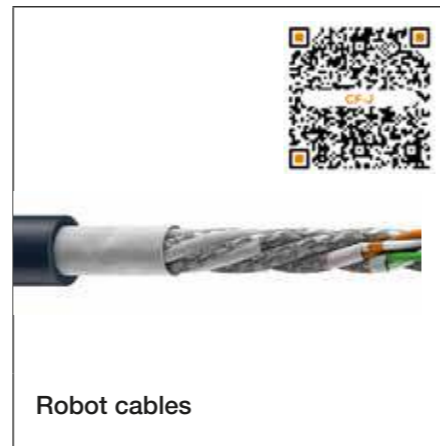
Harnessed hose packs and cables for robotics and automation



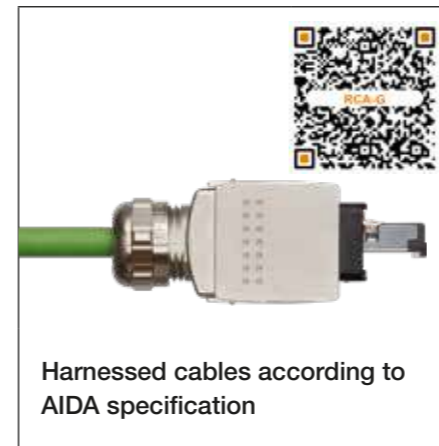
Hybrid cables



Motor cables



Robot cables



Harnessed cables according to AIDA specification



Connectors



Connectors (signal and power)



Special cables



Clean room elements



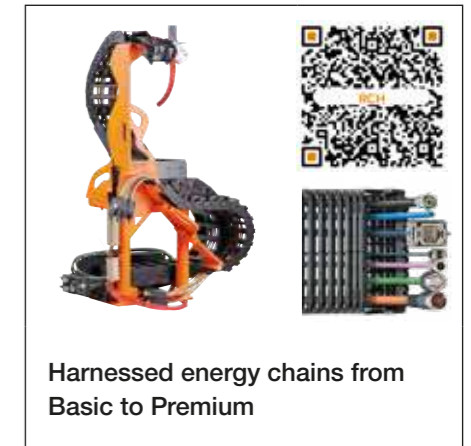
readycable®



Tools / Accessories



readychain®



Harnessed energy chains from Basic to Premium

Everything at a glance

Catalogues and online tools



Catalogues



dry-tech® bearings technology
MAT0075591.20



dry-tech® linear technology
MAT0075592.20



e-chains® catalogue
MAT0072320.20



Robotics catalogue
MAT0072915.20



chainflex® cables catalogue
MAT0070582.20



Spring new products journal
2025
MAT0075538.20



Autumn new products journal
2025
MAT0075602.20




igus® online kiosk



Online tools




Energy supply systems



Cables



Linear technology



Electric motors



Bearing technology



Gears



Robotics and automation

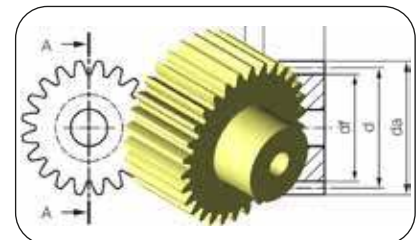
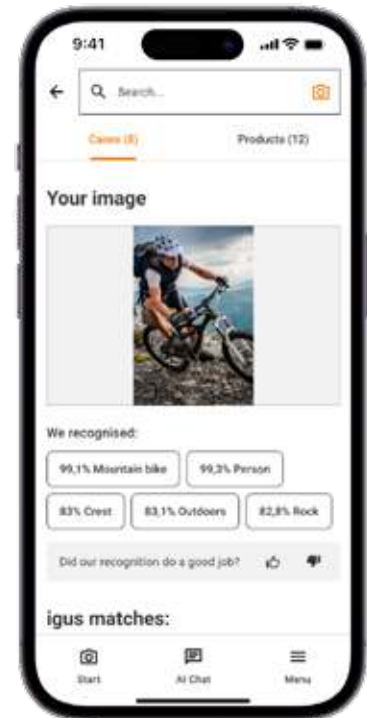


Coating



Individual components

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