

Reduce cost ...



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Lightweight, quiet, small and reliable. igus® products fulfill the requirements set by the aircraft industry, with the added benefits of being either self-lubricating or lubrication-free, as well as completely maintenance-free.

The development of components for aircraft interiors requires focus on specific criteria. igus® offers a range of solutions for virtually any moving interior application.

- Self-lubricating, or lubrication-free entirely clean operation and 100% maintenance-free thanks to igus® high-performance plastics (UL94 & VO certification on request).
- Lightweight thanks to the use of lightweight materials such as plastic, aluminum or carbon
- Quiet igus[®] bearings, linear guides and Energy Chains[®] operate smoothly and quietly thanks to their unique design.
- Small igus® products adapt to any installation space ... while remaining fully functional

For these reasons, igus® products are ideally suited for a variety of applications in the aircraft interior, including seating kinematics, in headrests that can be height-adjusted in fixed steps, in table extensions, footrest adjustments, mobile cabin partitions or for the adjustment, function and maintenance of entertainment systems. Customized parts and machined prototypes are always possible.

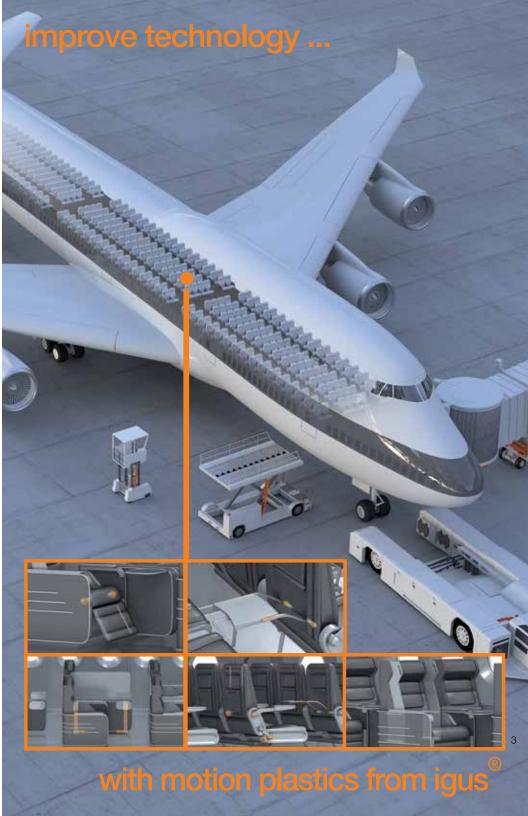
Advantages of igus® products at a glance:

- Free from external lubrication and maintenance
- Weight savings
- Quiet operation
- Vibration dampening
- Available from stock

A wide range of online tools are also available to help reduce process costs and design time. igus products are shipped from stock as early as same-day. Visit our industry page for more information.



We look forward to speaking with you.



Save weight ...

with motion plastics from igus[®] ...



Adjustable armrests



iglide® G300 bearings

- Wear-resistant
- Many standard dimensions; also available in accordance with UL94 VO



drylin® N flat guide

- Lightweight
- Installation height between 6 and 12 mm
- Various carriage options



Adjustable leg and footrests



iglide® clip bearings

- Easy assembly
- Captured with double flange
- Abrasion-resistant



drylin® T rail guide

- Corrosion resistant
- Low weight
- Compact design
- Light and quiet



Height-adjustable headrests



drylin® NT telescopic guide

- Adjustable
- Optional adjustments in fixed steps
- Extremely quiet



drylin® W profile guide

- Extensive linear toolkit
- Single or double rails
- Linear bearings and complete carriages
- Stop-motion profile guide available

eliminate maintenance ...

... in aircraft cabins

Table adjustment (economy class)



iglide® J plain bearings

- Vibration dampening
- Extremely low coefficient of friction
- For rotary, pivoting and linear movements



drylin® R shaft guides

- Same dimensions as ball bearings
- Durable due to hard anodized aluminum shafts



Table extension (business class)



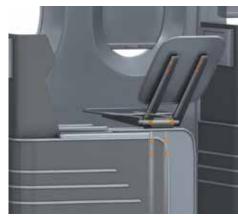
iglide® JVSM plain bearings

- Preloaded in a clearance-free manner
- Rattle-free
- Maintenance-free



drylin® T low profile linear guide system

- Compact design
- Same dimensions as recirculating ball bearings
- Carriages with V0 certification optional



Cabin doors ...



iglide® J350 bearings

- Temperatures up to 356°F
- Classification in accordance with UL94 "Safety Tests for Flammability", V0 rating
- Wear resistant



SFRJ350 bar stock

- Bar stock up to Ø 65 mm
- For prototypes and small batch series
- Media-resistant



... Reduce noise level ...

with motion plastics from igus® ...



Adjustments of tablets, smartphones, etc.



igubal® EGLM spherical bearings

- Angle-compensation
- Very low weight
- Shock resistant



drylin® W curved quide

- Customized radii
- Best possible field of view
- Self-lubricating adjustment



Luggage compartment flap



iglide® M250 bearings

- Excellent level of vibration Precise guidance dampening
- Durable against edge loads
- Thick-walled, DIN 1850



drylin® W profile guide

- Curved: can be delivered with customized radii
- Hybrid bearings with integrated roller for easy movement



Horizontal seat adjustment



e-chain® micro

- For the smallest installation spaces and radii
- UL94-V2 (optional V0)
- Gentle on the cables



e-chain® E-Z Chain®

- Easy to fill even when installed
- Flexible highly dynamic and quiet

...dampen vibrations ...

... in aircraft cabins

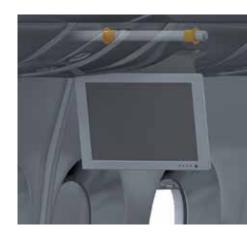
TV monitor





igubal® KSTM + ESTM pillow block bearings

- Lightweight Compensation for misalignments
- ◆ For all shaft materials
 ◆ Self-lubricating
 ◆ High fatigue strength
 ◆ Compensation for edge loads

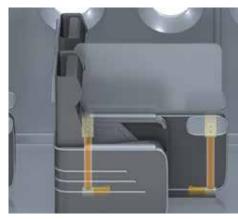


Partitions



drylin® ZLW toothed belt axis

- Ready-to-install linear axes Lead screw or toothed belt drive ● Customized stroke lengths ● Can be configured with NEMA stepper motors or DC motors
- Lightweight and low noise Can also be delivered with a carbon linear guide (100% metal-free)



Seat adjustment



e-chains® ZF for rotary applications

- Lightweight, low noise and abrasion-resistant
- Reliable cable guidance
 V0 and V2 fire classes
 possible
 Easy to fill and assemble
 Can be delivered pre-harnessed with chainflex[®] cables



drylin[®] linear technology ...

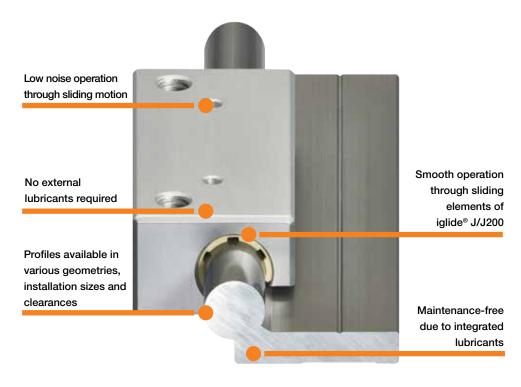
Self-lubricating, maintenance-free linear guides

The entire line of drylin® linear solutions are based on the principle of sliding instead of rolling, utilizing iglide® high performance plastic materials as a sliding surface. All drylin® linear systems are 100% self-lubricating and maintenance-free.

Linear guides on rails or round shafts are available. drylin® drive-technology can supply ready-to-connect systems with lead screw drives or toothed belt drives, with or without motor. Besides freedom from maintenance and external lubrication, drylin® offers rugged construction and insensitivity to dirt, water, chemicals, heat, and impacts.

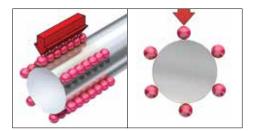
- Resistant to dirt due to dry operation
- Resistant to impacts and vibrations
- High static load capacity
- Suited for short-stroke applications
- Lightweight
- Vibration dampening
- Quiet operation
- Metric and imperial dimensions
- Special designs according to customer needs
- Available from stock



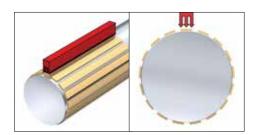


... sliding instead of rolling

The principle of igus® linear technology

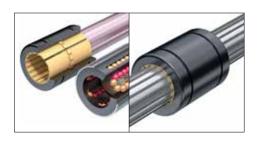


"Conventional" rolling bearings – point contact
Force is transmitted via balls at certain points. The
system requires lubrication to ensure proper
functionality.



drylin® plain bearings - surface contact

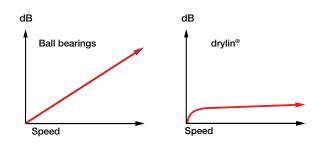
The force is transmitted two-dimensionally over liners or sliding elements. The system is self-lubricating and maintenance-free over the entire service life.



Resistant to dirt, dust and moisture due to self-lubricating operation and integrated dirt channels.

Quiet operation

The quiet operation is also a benefit of sliding rather than rolling. Operation is much quieter compared to re-circulating ball systems The sliding motion is extremely quiet and only a light friction noise is audible.



Low noise, self-lubricating ...

igus® solutions for cabin fittings, such as:



drylin® N low profile guide systems

- 100% self-lubricating
- Low installation height between 6 and 12 mm
- Lightweight
- Numerous carriage options including pre-tensioned



drylin® W linear system

- Easy installation, maintenancefree
- Resistant to dirt due to dry operation
- Low weight and quiet operation
- Curved rail with floating bearing function for corner installations



drylin® lead screw technology

- Efficient and durable dryspin® technology
- Self-locking trapezoidal and metric threads
- Lead screw nuts made from 5 iglide® materials



drylin® T/R rails and shaft guides

- Interchangeable with ball bearings / recirculating ball bearings
- Adjustable linear carriages
- Replaceable liners
- 100% self-lubricating



drylin® drive technology

- Linear assemblies with lead screw drive or toothed belt
- For manual or electrical adjustments
- Configuration with customized stroke lengths



drylin® E drive technology

- Linear axes with stepper motors/DC motors
- Failsafe thanks to the use of encoders and initiators
- Can be combined for gantry configurations

lightweight ... drylin[®] carbon

25% lighter than aluminum - 75% lighter than steel

Extremely lightweight yet extremely strong - our new, tribologically optimized drylin® linear systems made from plastic and carbon fiber combine these two specifications

- Extremely light
- Robust and reliable
- 100% self-lubricating
- Metal-free, non-magnetic
- X-ray transparent



- Extremely light
- Self-lubricating and maintenance-free
- Metal-free, non-magnetic
- Tribologically optimized

drylin® WSPC linear guide

The combination of the WSPC-06-30 double shaft profile, made from high-strength and durable carbon, and a linear carriage made from self-lubricating drytech material make this innovative system extremely lightweight and robust, while maintaining all the triedand-tested specifications of a drylin® W linear guide.

drylin® SAW linear module

The structure of the drylin® linear module SAW is based on the self-lubricating drylin® W linear guide with a carbon rail profile and a dry-tech linear carriage. The lead screw drive can be configured with steel/stainless steel or hard anodized aluminum. The innovative use of carbon reduces the rail weight by approximately 25% compared to aluminum.

drylin® ZLW toothed belt axis

The combination of tribologically optimized drylin® W linear guide made from carbon with dry-tech plastics in the carriage and end blocks make the ZLW-0630-P toothed belt axis the first completely metal-free toothed belt axis. The system is extremely lightweight and completely maintenancefree thanks to the uniform solid plastic construction within the end blocks. This is achieved, for example, by the use of xiros® ball bearings (with plastic or glass balls) which allow all bearings to operate dry and without the need for external lubrication.



- Customized stroke lengths
- Trapezoidal or high helix screw drives.
- For manual adjustments
- Lengths up to 300 mm



- Metal-free design, non-magnetic
- Neoprene toothed belt drive with glass fiber reinforcement
- Up to a length of 1,000 mm

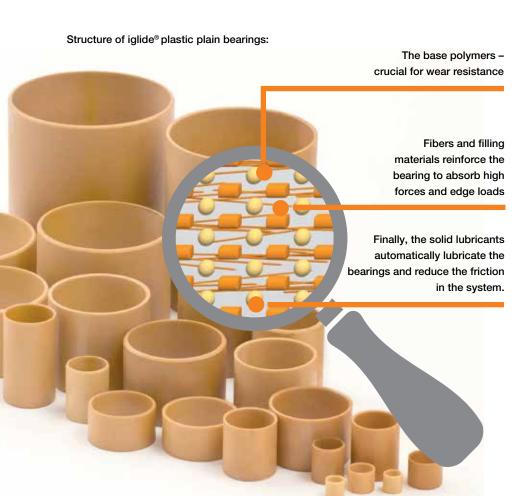
iglide® plastic plain bearings ...

Plain bearings made from high-performance plastic materials – iglide[®].

No external lubrication or maintenance required, while cutting costs and increasing service life, from stock and delivered as early as same-day. iglide® plastics signify the step between ordinary plastic bushing and tested, predictable machine element.

www.igus.com/iglide

- Self-lubricating
- Lightweight
- Maintenance-free
- High static loads
- Corrosion free
- Vibration dampening
- Metric and imperial dimensions
- Special dimension and designs



also according to UL94 V0

iglide® plain bearings





iglide® plastic plain bearing with V0 classification according to UL94

The material achieves the UL94 V0 rating and is therefore ideally suited for applications with stringent fire protection regulations (vehicle and aircraft interiors, building interior systems, etc.). Other properties are similar to the general purpose iglide® G300 material.

- Self-lubricating and maintenance-free
- UL94 V0 rating
- High abrasion resistance
- Universal application
- Vertical burn test; CS-25.853 APP F Part 1a 1(ii) (12 seconds) is available for a selection of iglide® materials



Self-aligning ...

igubal® spherical bearings







Dirt resistant igubal® spherical bearings

igubal® spherical bearings are self-aligning and made completely from engineered plastics. They are easy to assemble, adjust to all angular variances and able to replace special housing in many circumstances.

- Range of designs, including spherical, double spherical, flange and pillow block options
- Different spherical ball materials available
- Extremely cost-effective
- Service life can be calculated online

igus[®] special parts

Customized special parts from quantities as low as 1 ...



Special parts made from tribo-plastics according to customer requirement



Special parts made from iglide® materials

speedicut uses the entire range of iglide® bar stock materials and produces parts according to customer requirements very quickly. Speedicut easily and quickly creates a cost estimate based on a 3D model. The parts are then delivered within a few days.



Additional customized components available, such as machined drylin® W rails.

Just ask and together we will develop the "one" component that is optimally suited for your application.

Filaments and liners

... from the dry-tech bearing technology





Simply cut and stick Tribo-Tape

- For lining tribologically stressed surfaces and shapes in a variety of ways
- Easy to cut and stick
- Less space required
- Optional self-adhesive back



For free design – iglide® bar stock

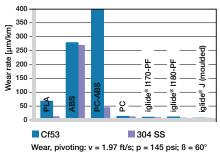
- iglide® materials as round bars, tubes and plates
- Over 20 iglide® materials to choose from
- Cut to required size without paying for offcuts
- Mechanical processing from quantities as low as 1
- Maintenance-free and predictable

iglide® Tribo-Filament for 3D printers

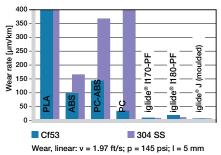
Up to 50 times more abrasion-resistant than conventional 3D print materials

- Design custom parts or manufacture prototypes while also relying on the tested service life of igus® materials
- Select from three highly wear-resistant igus® materials: iglide® I170-PF, iglide® I180-PF and iglide® J260-PF
- Give it a try with our starter kits with 25 g each of iglide® I170 (in 1.75 mm), iglide® I180 and iglide® J260 (in 1.75 mm / 3 mm)





wear, pivoting: v = 1.97 tt/s; p = 145 psi; b = 60°



e-chains® and chainflex® cables

Over 100,000 components in the e-chain® modular kit ...

e-chain systems® are the lifeline of modern machines. They reduce downtime and increase the service life of cables and hoses. Plastic Energy Chains® have been developed, produced and tested by igus® since 1971. e-chain systems® carry sensitive bus, data and fiber optic cables, as well as energy forms such as electricity, gas, air and hydraulics.

- For extremely high dynamic loads and high demands for the service life
- For all environments and climates (from -40°F) to +248°F)

- Many types of orientation and application
- Easy to clean
- Space-saving installation
- Also available made from detectable material. or as ESD/ATEX version
- Enclosed or open construction types
- Easy assembly of the modular system on site, as well as quick retrofitting of cables







Lightweight, fleixble, easy to fill -E-Z Chain®

- Easy to fill
- UL94-V2 (optional V0)
- Flexible dynamic and quiet
- Lightweight and cost-effective



The system for all installation situations - the all-around E4-1 system

- Strong, snap open e-chain[®] for large unsupported lengths
- Can also be delivered as an enclosed tube.
- Inner heights up to 6.38" (162 mm)

chainflex® cables for highly flexible movements ...



TPE control cables

CF98 & CF99

- For extremely high load requirements
- Particularly small radii
- TPE outer jacket (CF99) shielded)



PVC Ethernet cable CAT5/GigE CFBUS-PVC

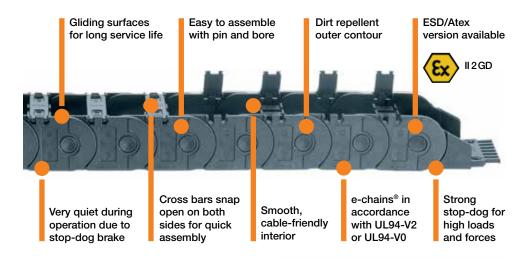
- For medium load requirements
- PVC outer iacket
- Shielded
- Oil-resistant and flameretardant

PVC control cables CF130-UL & CF140-UL

- For medium load requirements
- PVC outer jacket (CF140) shielded)
- Flame retardant

... for all movement types

...for tiny installation spaces, extreme loads





E2 micro

For the smallest installation spaces

- UL94-V2 (V0 optional)
- Strong, light and guiet
- For all installation orientations.



Excellent stability/size ratio – E2 mini

- Good size/strength ratio
- Quiet operation
- UL94-V2
- Snap open, easy to fill

... and long service life





PVC motor cables CF885/CF886

igus® chainflex® M cable product range – costs up to 57% less than comparable chainflex® types.

PVC motor cables CF31

- For high load requirements
- PVC outer jacket
- Shielded
- Oil-resistant and flameretardant



PVC hybrid servo cables CF220UL-H

For unsupported applications and medium duty for different drive manufacturers.

igus® solutions for airport

Not only in and on the aircraft ...

Failsafe e-chain systems® and maintenance-free linear guides

... improve technology and reduce costs of the vehicles on the runway.

Weather-resistant igus® plastic solutions

... help you to reduce logistics, assembly, time, and virtually eliminate the need for maintenance.

Our energy supply solutions

... for failsafe guidance of cables as well as hydraulic and pneumatic hoses in almost all vehicles.

Eliminating the need for external lubrication

... makes our plastic plain bearings and linear bearings maintenance-free and ideally suited for outdoor use.



ground handling

but also on the runway: igus® has a solution



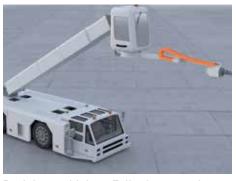
Boarding bridges: Heavy loads and guiding many cables in a failsafe manner



Ambulifts: Stability and reliability during strong vibrations



Aircraft tractors: High resistance against dirt and other environmental conditions



De-icing vehicles: Failsafe operation at temperatures between -40°F and +248°F



Container stackers: e-chain® E4-1 - can be opened from both sides



Boarding bridges: For any movement and environment - e-chains® and chainflex® cables

Services from igus[®] ...

The igus® delivery service

More than 97% of components from the igus® catalog are available from stock.

- More than 100,000 products from stock
- No minimum order quantity
- No minimum order price
- No cutting charges for cables
- No packaging costs



Quickly find products online, configure them and calculate their service life.

With our igus® product finder, quickly find the right product and calculate the estimated service life of igus® products in your application.



www.igus.com/online





For any task - in any batch size

Different industries need different solutions. No matter your industry igus® offers customized support for special applications, iqus® has more than 50 years of experience and specialized resources in many industries.



www.igus.com/industries



Better for the environment



Because iglide® is free of external lubricants, no contaminants are discharged into the environment.

Additionally, the low weight of iglide® plastic plain bearings reduces power requirements, making them better for the environment



The yes - Young Engineers' Support - program is designed to support the design ideas of students, and educate them on the merits and benefits of plastic components.



www.igus.com/yes



Since 1987, More than 30 igus® products have been awarded by "iF Forum Design GmbH" in the "Industrial Design" category.

quick & reliable







igus® quality assurance

The goal of quality management at igus® is to recognize and fulfill customer expectations and to always be an expert partner and reliable supplier. To reach this goal, igus® always applies the highest standards in the production of products and is constantly developing new and innovative solutions.



Modern and economic molding technology

igus® utilizes high tech, cost-effective solutions. Modern injection molding technology allows thousands of standard and countless custom components to be manufactured with high precision and quality.

The igus® lab

The massive igus® lab (29,600 ft²) conducts more than two billion test cycles per year on more than 100 test rigs.

- Extensive test databases
- Customized tests on request
- www.igus.com/test

igus® motion plastics

One vision has been driving us for more than 50 years – motion plastics: innovative moving parts made of plastic that cost less and last longer. Our core technology consists of triboplastics – high-performance plastics which have been optimized for friction and wear. This technology has made us into a world-wide leader for developing and manufacturing energy supply systems and plain bearings.



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