# Solutions from igus<sup>®</sup> for interior design,

furniture, manufacturing and woodworking plastics for longer life ...

www.igus.com/furniture

IG-ECS-02

# Reduce costs ...



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# Furniture with the igus<sup>®</sup> effect: technology up, costs down.

igus® motion plastic solutions have proven themselves for years in a wide range of industries. All igus® products, including dry-tech bearing and linear solutions, e-chain® cable carriers, and chainflex® motion cables, are designed and tested to offer exceptional performance and service life, without required maintenance or external lubrication.

For furniture design, igus® products offer the additional benefit of their elegant design and availability in a range of finishes. igus® products have received iF Design Awards year after year.

igus® motion plastic advantages:

- No external lubrication
   Self-lubricating bearing and linear systems, as well as lubricationfree cable management reduces dirt and dust accumulation
- Quiet operation and smooth movement
   Technically advanced plastic materials instead of traditional metal options reduce vibration and noise
- Expansive range of sizes, styles, and options

  For all application and installation requirements; customization possible from quantities of 1
- Lightweight, easy to assemble, and cost-effective Tribologically optimized, high performance plastics with easy-install designs
- Delivered from stock
   Shipped as early as same day, quick lead time on custom options

# improve technology



...with motion plastic components from igus®

# Clean and durable ...

# Adjustments and pull-outs ...

A modern kitchen combines innovative technology with contemporary design. The kitchen is a place for gathering, in which we expect a high level of functionality, without forgetting design, ease of use, and quiet operation. igus® smooth-running, self-lubricating and maintenance-free "motion plastic" products offer high-tech advantages, while helping to minimize costs.

# Hinges and joints – iglide® G300 plain bearings

- Clean and hygienic
- Low-noise and shock dampening
- Self-lubricating and maintenance-free
- High edge loads possible
- Economic

# Extendable kitchen options – drylin® W profile quide

- Flexible and versatile
- Robust and smooth running
- Low noise, vibrationfree operation
- Many installation sizes and designs
- Low-profile design

# Flush elements – drylin® SD lead screw drives

- Self-lubricating lead screw nuts
- Trapezoidal or high helix threads
- Corrosion resistant
- Easy to clean
- Also available with drive and motor

# Pull-out drawers – drylin® N flat guide

- Compact design
- Many rail sizes and carriage versions
- Rattle-free pretensioned sliding carriages available
- Self-lubricating
- Low noise and clean



# technology for the kitchen

# ... with motion plastics from igus®...



Table extension: drylin® N

 Low profile linear guide system in 4 installation sizes
 Compact designs
 Low noise
 Lightweight



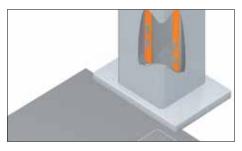
# Adjustments in kitchen devices (e.g. grinders, coffee machines): iglide® G300, drylin®

- Self-lubricating Uniform movements with low backlash ● FDA-approved materials available
- Easy to clean



Adjustable work surfaces: drylin® N

 Compact designs ● Maintenance-free ● Very quiet ● Smooth movements



# Flush elements: drylin® W

Temperature-resistant
 Resistant against cooking grease
 Clean and sanitary



# drylin® N flat guide

Extremely compact linear guide in 4 installation sizes for a range of installation areas. Completely self-lubricating and maintenance-free, low friction values and a long service life and low price.



# drylin® W modular linear construction kit

Self-lubricating linear guides for flexible designs and high loads. Available as individual components, assembled carriage systems or a fully driven system.

# Convenient and aesthetic ...

# Rotating, oscillating, and linear movements ...

The living room is a space for relaxation, entertainment and enjoying each other's company. It is crucial that movements are quiet, smooth and uniform. Design is also an extremely important factor, and technical components must be optimally integrated.

# Table extensions

# – drylin® linear technology

- Extremely quiet
- 100% self-lubricating
- Low coefficients of friction
- Various surface options

# Couch mechanisms

- iglide® plain bearings for quiet adjustments of headrests, footrests, armrests and backrests
- drylin® linear technology for smooth adjustments of seating elements, seating spaces or back elements

# Adjustments of screens and doors

- drylin® linear technology for smooth adjustment of screens and door elements
- drylin® drive technology for electrical height adjustments of monitors
- iglide® Tribo-Tape for low coefficients of friction in narrow installation spaces

# Rotary movements in armchairs and office chairs

- Self-lubricating PRT slewing ring bearings
- Customized iglide<sup>®</sup> plain bearings for seating kinematics
- Ergonomic backrest and armrest adjustments thanks to drylin® linear technology



# design for the living room

# ... with motion plastics plain bearings from igus®



# Couch seating adjustments: drylin® W

- Quiet and jerk-free rotary movements
- Quick assembly Sturdy Self-lubricating and maintenance-free



# Pull-out mechanisms: iglide® plain bearings

 Easy sliding movements ● "Invisible" in table designs or aesthetically visible ● Use of chromed or polished round bars possible ● 100% self-lubricating



# Recliners: iglide® plain bearings

 Low noise ● Clean ● Precise ● Shockdampening ● Extremely lightweight ● Easy assembly



# TV mounts: drylin® W profile guides

- Self-lubricating screen adjustments to the desired position
   Manually adjustable or electric with drive
- Resistant to dirt Easy to assemble



# iglide® PRT slewing ring bearing

Ready-to-install slewing ring bearings with sliding elements made from self-lubricating dry-tech plastic materials. Easy to assemble, easy to move, different designs and installation sizes, various connection options.



# iglide® Tribo-Tape

Self-lubricating and wear-resistant liner with a minimum thickness of 0.5 mm. Tribo-Tape makes customized shapes, surfaces, and strips possible; available with or without self-adhesive backing. Three material options available.

# Quiet functionality ...

# Smooth operation and adjustment ...

The bedroom is a space for rest, relaxation and tranquility. This means that mechanical components must carry out movements quietly, smoothly and without vibrations. Self-lubricating plain bearings and linear guides from igus® slide and are almost completely silent since they are designed without traditional ball bearings.

# Bed opening mechanism – iglide® plain bearings

- Bearing of drive and mechanics for lifting and opening bed mechanisms
- Tolerance compensation for sheet metal constructions and paint

# Electric operation

- Automatic adjustments via drylin<sup>®</sup> linear guides
- Drive via efficient self-lubricating lead screw drives
- Trapezoidal or dryspin high helix threads
- Low noise and resistant to dirt

# Mobile partitions – drylin® W linear guides

- Quiet and smooth adjustment
- Hybrid bearing with integrated roller for low drive forces

# Swiveling of shelves and boxes

- Self-adjusting igubal® spherical bearings made entirely from plastic
- Compensation for misalignments
- iglide® plain bearings for quick, effortless adjustments



# for relaxing bedrooms

# with drylin® lead screw nuts from igus®



# Partitions: drylin® N low profile guides

 Compact and flat design ● 4 installation sizes and widths ● Smooth and robust ● Very quiet thanks to self-lubricating dry-tech plastic materials





# Shelf rotation: PRT slewing ring bearings

Smooth and low-friction ● Low noise ●
 Smooth operation ● Rotational movement ● Self-lubricating and maintenance-free



# LED lamps: igubal® spherical bearings

- Variable adjustment of the lighting angle
   Precise
- Lightweight all-plastic solution
   Easy to assemble
- Robust handling



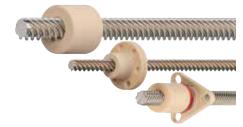
# Hinges: iglide® clip bearings

- Low noise Easy assembly thanks to a lateral slot ● Captive thanks to a double flange
- Abrasion-resistant



# iglide® plastic plain bearings

High-strength bearings, offering quiet operation and excellent wear-resistance, even when subjected to high loads and harsh environments. 100% completely self-lubricating, lightweight, and easy to install. Compensation possible for sheet metal tolerances



# drylin® lead screw nuts and lead screws

Self-lubricating drylin® lead screw nuts control the height of motor-driven systems. With available non-backdriveable systems or high-helix dryspin technology, drylin® lead screw systems prove themselves in applications including blind adjustments and more.

# Resistance and elegance ...

# Opening, closing and adjusting ...

All bearing points in bathroom environments are exposed to high levels of moisture and a range of temperatures. Selecting suitable igus® plastic solutions guarantees function without a hitch. drylin® linear housings and rails are produced from corrosion-resistant materials and can be customized with special coatings. Thanks to their appealing design, igus® solutions can be used in visible areas.

# Partition-locking systems – iglide® plain bearings and drylin® linear guides

- Locking and partition systems for bathrooms and saunas
- Moisture and temperature resistant

# Door hinges for shower units – iglide® plain bearings

- Self-lubricating
- Can be used in moist environments as well as underwater
- Easy to clean
- Maintenance-free

# Door guides – drylin® linear guides

- Self-lubricating drytech plastics
- Clean, sanitary, corrosion resistant
- Easy and quiet adjustment of doors
- For use in visible area

# Adjustment of furniture and mirrors – drylin® lead screw drives

- Non-backdriveable trapezoidal threads
- High-helix dryspin technology for high speeds
- Ready-to-install linear axes with motor available



# visible in the bathroom

# with motion plastic ball joints from igus®



# Doors: iglide® plain bearings

- Resistant to moisture and temperature changes
- Clean Sanitary Maintenance-free





Automatic door openers:

### drylin® W profile quide

- Guidance in remote controlled door opening systems ● Low noise ● Robust ● Self-lubricating
- Easy to assemble





# Media: drylin® N flat guides

- Smooth adjustment of music and mobile devices as well as tablets ● Compact design
- Maintenance-free operation





Variable sanitary facilities in motor homes:

### drylin® W profile quide

- Self-lubricating and maintenance-free
- Lightweight design thanks to the use of plastic and aluminum
   Low noise
   Can be delivered ready-to-install with motor



# igubal® spherical bearings

Self-aligning bearings for shower or sauna door hinge systems. Angle-compensating igubal® spherical bearings make up for misalignments and assembly errors.



# drylin® ZLW toothed belt axes

Ready-to-install linear axes with toothed belt drive and step motors open mirror elements quickly and quietly. Completely self-lubricating; compact design.

# Reliable corrosion resistance ...

# All-season solutions ...

UV rays from the sun, wind, rain, snow, and more – outdoor furniture is exposed to a number of elements. igus® high-performance plastic materials are designed to stand up to the outdoors, as well as operate without external lubrication or required maintenance. For temperatures ranging from -40°F to 482°F.

# Sun shading and blinds – iglide® plain bearings, igubal® flange bearings and drylin® linear guides

- UV resistant
- Self-lubricating and maintenance-free
- Robust and resistant even in the harshest environments

# Lawn chairs and deck chairs – iglide® clip bearings

- Low coefficients of friction
- Easy to install
- Sturdy and durable
- drylin® aluminum shafts, coated and lightweight

# Awnings

- Self-lubricating iglide® plastic plain bearings
- Strong against high edge loads
- iglide® guide rollers for guiding cable pulls: self-lubricating and durable

# Glass doors – drylin® linear technology

- Glass elements can be adjusted while staying clean
- Smooth and quiet adjustment of doors and windows
- Resistant in outdoor use



# come rain or shine

# with weather resistant igus® motion plastics



Blinds: iglide® plain bearings

 Self-lubricating and maintenance-free
 ● Weather and UV resistant . Lightweight and durable





Windows/doors/openings:

# drylin® linear plain bearings

- For indoor and outdoor use Compact design
- Easy to adjust Weather-resistant Elegant design





Awnings and covers: igubal® spherical bearings Resistant ● Maintenance-free ● Compensation for

misalignments • Quick and easy assembly thanks to separate spherical balls







# Recliners and rocking chairs:

# iglide® plain bearings

- Quiet and harmonious rocking movements
- Shock-dampening Precise and sturdy For indoor and outdoor use



# iglide® clip bearings for sheet metal solutions

iglide® clip bearings enable easy and quick assembly and are ideally suited for angled movements in awnings. UV-resistant and tested for outdoor use with changing temperatures and weather conditions.







# drylin® W hybrid bearings - "slide and roll"

The integrated roller of the drylin® W hybrid bearings makes it easy to adjust doors or partitions. 100% self-lubricating and weather-resistant.

# Ergonomics and design ...

# Modifying and adjusting ...

Many of us spend more time in our office than at home. Ergonomics and convenience are fundamental requirements for all movements and bearing points in office furniture. igus® products withstand constant use under tough loads, and their resistance and durability have proven their worth over the years.

# triflex® R e-chains® and chainflex® cables

- Reliable guiding of all supply cables at the office
- Very easy to fill; suitable even for the narrowest bend radii
- Aesthetic and elegant

# Lamp systems

- iglide® plain bearings for smooth and easy adjustments of office desk lamps
- drylin® linear guides for adjusting lamp elements independently
- Quiet movements
- Self-lubricating and maintenance-free

# Office chairs

- Self-lubricating iglide® plastic plain bearings for all bearing points of the seat
- drylin® linear guides for adjusting seat cushions and backrests
- Very sturdy and smooth
- Easy to assemble, durable

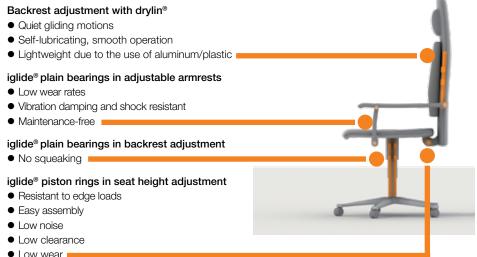
# Desks

- Height adjustment with drylin® selflubricating lead screw nuts
- drylin® N for drawer adjustments
- iglide® plain bearings for corner support
- 100% self-lubricating
- Low noise; lightweight



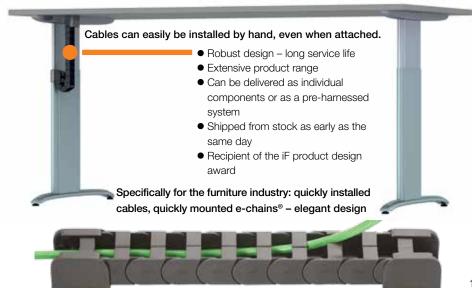
# for office environments

In the furniture industry, cleanliness and smooth motion are vital. Examples of where igus® products offer big benefits include: smooth table drawers, clean bearings for rotary and oscillating motion, elegant and secure cable management, low profile linear guides for moving sofa components, variable seat settings or individual height adjustments.



# e-chains® for the protection and guidance of cables

For functional modern furniture design, elegant protection of supply cables is an often overlooked, yet important detail. While igus® e-chains® offer visually appealing solutions, their main selling point is their reliable operation throughout their entire service life, even at the smallest bend radii.



# Elegant & award-winning design

# ... with motion plastic solutions from igus®





# Chairs: iglide® plain bearings

 Self-lubricating and very sturdy ● Highly abrasion-resistant ● Available from quantities of 1



# Office furniture: iglide® clip bearings

 ■ Rotate and swivel silently
 ■ Self-lubricating and maintenance-free
 ■ Easy assembly thanks to a lateral slot
 ■ Durable and predictable
 ■ Customized solutions possible





# Revolving shelf: iglide® PRT slewing ring bearing

Ready-to-install solution
 Smooth rotary movements
 Low wear
 Various designs available



# Drawers: drylin® N flat guide

 Quiet sliding drawer guides ● Very low profile designs ● Self-lubricating and lightweight thanks to the use of plastic and aluminum



# triflex® R e-chain®

Allows flexible and reliable cable guidance, as well as organization. Easy filling and removal of cables. Elegant rounded design, and winner of the iF Design Award.



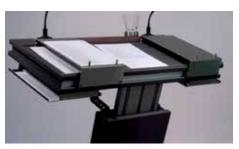


# iglide® preloaded plain bearings

The preloaded plain bearings enable precise sliding movements and are jerk- and rattle-free. The bearings have no clearance, making them ideally suited for lamps, chairs and handles.

# Reliable cable guidance

# Cost down, life up ... with high-performance plastics from igus®



Adjustable desk: e-chain® E2 mini

■ Reliable cable protection ■ For the smallest bend radii ■ For small installation spaces ■ Easy to fill



Clear organization and reliability for projectors

- Cable-protecting design Modular Failsafe
- Lightweight Very quiet



Reliable, continuous and organized movement: the E-Z chain principle

 $\bullet$  Insert and remove cables easily, even when installed



# Cable guide for a monitor: triflex® R

 Protection of cables ● Quick assembly and filling ● Moves in all axes



# e-chain® E2 micro

The ideal chain for confined spaces and extremely narrow bend radii. Single-piece, .20" to 59" inner height, small pitch, smooth operation. Extremely lightweight and with a cable-protecting interior.

# **Zipper**

The zipper e-chain® for quick assembly. Open and close small and medium e-chains® and tubes at lightning speed.

# E-Z chain:

Insert and remove cables easily by hand

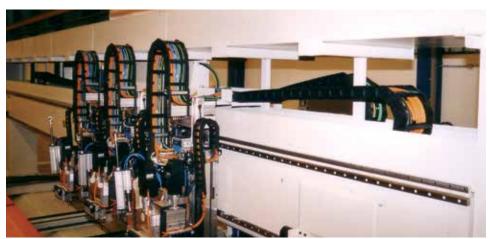
# igus® solutions for furniture ...

# Application examples

Reliable e-chain systems® and maintenance-free linear guides improve the technology and reduce the cost of your machines and equipment.

Chip-resistant igus® plastic solutions help you to reduce logistics and installation times, reduce throughput times and dispense with virtually all maintenance.

igus® energy supply solutions provide safe guidance of cables, hydraulic and pneumatic hoses in woodworking machinery, equipment and special machines. By eliminating the need for external lubrication, our plastic gliding and linear bearings are maintenance-free and ideal for use in dusty environments.



Energy supply of the CNC tool heads of a machining center and extraction by means of a 9.84" hose with igus® e-chains®



e-chains® for guiding large suction hoses



drylin® linear guide systems in an edging machine

# production and woodworking



e-chains® for all motions in this 5-axis milling machine



twisterband e-chain® in an edge banding machine – up to 7000° rotation possible



The power supply of a 5-axis milling head. Complex oscillating parts can be machined economically.



drylin® HTS linear slide table in a veneering machine



igus® RX e-tube in a machining center



E4 e-chain® in the longitudinal travel of a woodworking machine

# Services from igus<sup>®</sup> ...

# 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

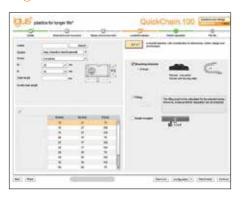


# Quickly find products online, configure them and calculate their service life.

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 tribo-plastics – 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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