

## Reduce cost ...



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Saltwater-resistant for any weather. Motion plastics products from igus® improve the technology and reduce the costs.

Self-lubricating products from igus® are approved in many maritime applications, even under the toughest environment conditions. Seawater-resistant and rugged for shipbuilding in wind, rain or snow while remaining lightweight and functional in the boat interior.

e-chain systems® guide any cable reliably and safely during electrical movements. iglide® plain bearings and drylin® linear guides use dry operation and move sliding doors, hatches, steering systems, lift systems and all other rotating and swiveling components quietly and completely maintenance-free. Always 100% self-lubricating.

igus® products also appeal as visible parts thanks to their elegant design and availability in many finishes. igus® products have received the **iF product design award** year after year.

Motion plastics – self-lubricating mobility for boats, yachts and ships.

Either for prototype or production, single component or ready-to-install systems such as linear modules with motor ... all igus® products offer you the motion plastics advantages:

- Self-lubricating for life
- Corrosion-resistant
- Smooth and silent
- Easy, straightforward assembly
- Large variety, extensive standard product range
- Customized solutions from prototype to production

Our online tools also enable you to reduce process costs. igus® shipped from stock in 24-48 hours! Also visit our industry website.

www.igus.com/boats

# improve technology ...



## in yachts ...



## or motorboats ...



## Reduce costs, improve technology - such as in ...





## Self-tacking jib

### drylin® curved profile guides

Individually curved drylin® linear guides for self-tacking jib.





### Carriage systems

### drylin® W profile guide

Corrosion-resistant drylin® W profile guides made from 316 (VA) stainless steel for carriage systems.





## Roller reefing (jib furler/spinnaker pole)

#### igubal® spherical bearings

Spherical igubal® bearings compensate for angle and tolerance errors in roller reefing (jib furler/spinnaker pole).





### Bilge pump

#### iglide® plastic plain bearings

Durable, self-lubricating iglide® plain bearings in a bilge pump.





#### Bow thruster

#### iglide® PRT slewing ring bearing

Self-lubricating iglide® PRT slewing ring bearings for bow thrusters.





## Kicking strap

### iglide® bar stock

Self-lubricating customized geometry made from iglide® bar stocks for kicking straps.







Jam cleats
iglide® plastic plain bearings
Maintenance-free iglide® plain bearings for high
edge pressures in jam cleats.





Steering systems
iglide® J plastic plain bearings
iglide® J plain bearings for fast and slow
movement in the steering gear.





Plain bearing-mounted hatches drylin® WJRM hybrid bearing
Smooth drylin® hybrid bearings for hatch movements.





Dodgers and bimini tops drylin® N low profile guide drylin® N low profile guides for installation spaces of 9-12 mm for dodgers/bimini tops.

## Reduce costs, improve technology - such as in ...









## Powered sun roof (slider)

## drylin® N low profile guide

Corrosion-resistant drylin® N flat guide for guiding powered sun roofs.

## Seating

### iglide® G300 plastic plain bearings

Self-lubricating iglide® plastic plain bearings for seat kinematics.









#### Windows

### drylin® T low profile linear guide system

Compact drylin® T low profile linear guide system for window guide.

### Steps

### drylin® lead screw technology

Efficient and durable dryspin high helix threads for retractable steps.



# for yachts











Ramps

## $iglide^{\tiny{\circledR}}\,MCM\,\,plastic\,\,plain\,\,bearings$

Installed quickly: iglide® clip bearings for ramp movements.

# Anchor lockers and anchor winches iglide® Z plastic plain bearings

For high edge pressures in anchor lockers and winches.



## Reduce costs, improve technology – such as in ...





Steering system igubal® spherical bearings Self-lubricating, tolerance-compensating igubal® spherical bearings in steering systems.



Gearboxes igubal® coupling bars Noise-reducing igubal® coupling links for gearboxes with variable bearing distances.





Spring-mounted seating systems drylin® W profile guide, E2 micro e-chain® Electrical seat adjustment with drylin® W profile quide and E2 micro e-chain®.





iglide® plastic plain bearings Oil and temperature-resistant iglide® plain bearings for valves (EGR and turbocharger).





Flap mounting of intake manifolds iglide® plastic plain bearings Pressure-resistant iglide® plain bearings in flap mounting of intake manifolds.





Gear actuators iglide® plastic plain bearings Medium-resistant and shock-absorbing iglide® plain bearings for gear actuators.

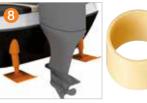
## for motor boats







Belt tensioner
iglide® plastic plain bearings
Vibration-dampening iglide® plain bearings for belt tensioners.





**Trim tabs iglide® plastic bearings, drylin® QLA linear drive**Self-lubricating and pressure-resistant iglide® plain bearings and telescopic drylin® QLA linear drive for trim tabs.



## Reduce costs, improve technology – such as in ...









**Beds** 

drylin® N flat guides, drylin® SLW with motor drylin® N low-profile rail for manual bed retraction, drylin® SLW linear module for electrical retraction.

Chairs and tables

e-chains® ZF

Reliable electrical seat adjustment with e-chain® ZF.







#### Windows

### drylin® T low profile linear guide system

Compact drylin® T low profile linear guide system for window adjustment.

## Wash basins

### e-chains®

Electrical height adjustment of wash basins with e-chain® E-Z chain®.









#### Doors

### iglide® plastic plain bearings

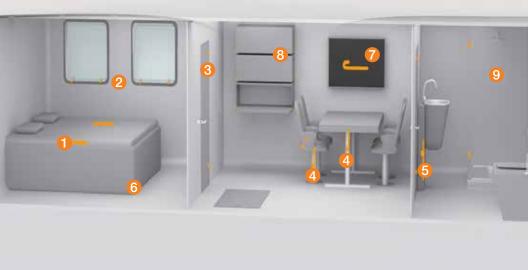
Shock-absorbing, durable, self-lubricating iglide® plain bearings for door hinges.

## Lift bed systems

### drylin® W profile guide

drylin® W profile guides for guiding lift bed systems.

## for the interior ...







## TV lift systems

### drylin® SLW (also available with motor)

Monitor adjustment with a push of a button with drylin® linear axes and motor.





#### Shower walls

### drylin® WJRM hybrid bearings

Slide shower walls easily with drylin® W hybrid bearings with an integrated roller.





## Wardrobe doors and pull-outs

### iglide® plastic plain bearings

Open or move wardrobe doors quietly with shock dampening using iglide® plain bearings.



## Maintenance-free even underwater

## iglide® plain bearings ... a selection of the 50 materials



iglide® T500 – The high-tech problem solver

- For operating temperatures of -148°F to +482°F in continuous operation
- Excellent chemical resistance
- High compressive strength
- Very low moisture absorption
- Excellent wear-resistance through the entire temperature range



iglide® G300 – The general purpose bearing

- Maintenance-free dry operation
- High abrasion resistance
- Resistance to dust and dirt
- More than 650 sizes.



iglide® P – low-cost and maintenance-free

- Low water absorption
- High load capacity
- Low-cost
- Low wear rates



iglide® J200 – for anodized aluminum

- Very long service life with hard anodized aluminum
- Low coefficients of friction
- Low wear
- For low to medium loads



iglide® H2 – cost effective hightemperature bearing up to 392°F

- Underwater use
- Low-cost
- Chemical-resistant
- For high temperatures



iglide® J – the fast-and-slowmotion specialist

- Low wear against different shaft materials
- Low friction coefficients in dry operation
- Vibration dampening
- High chemical resistance
- Best performance with soft shaft materials
- Low moisture absorption

## corrosion-free ... ready-to-install

## Self-lubricating and maintenance-free drylin® liners

Specially designed material combinations made from stainless steel and maintenance-free Triboplastics.

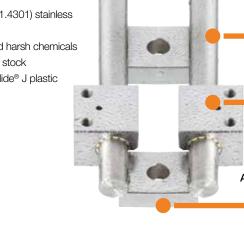
- All stainless steel components are 100% corrosion-resistant
- Use of 316 (1.4571) and 304 (1.4301) stainless steel
- Resistant against saltwater and harsh chemicals
- Ready-to-install solutions from stock
- Sliding elements made from iglide® J plastic plain bearings

drylin® W stainless steel guide

Corrosion-resistant with the use of V4A (AISI 316Ti) and 1.4408 (AISI 316) stainless steel

> 100% selflubricating due to tribo-plastics

Available as single
and double rail





# drylin® SLW-ES lead screw module

The compact stainless steel variants of the lead screw linear modules are used in harsh environments.



# iglide® PRT slewing ring bearings

This PRT slewing ring bearing can be used up to +356°F and is resistant to chemicals and wear.



## drylin® R shaft guide

Corrosion-resistant linear adapters made from 303 stainless steel (1.4305). Dimension equal to ball bearings.

## Reliable and resistant ...

igus<sup>®</sup> motion plastics products are, for example: failsafe in shipyards ...







## Shipyard

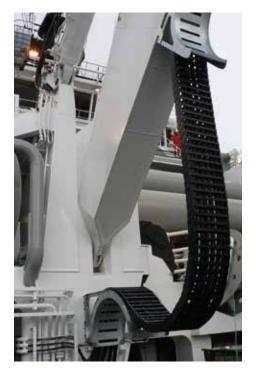
Eight gantry cranes connected in series travel a total length of 590 ft. (180 m). Both the longitudinal and transverse travel are supplied by igus® e-chains® from the E4/4 range. The compact design of the e-chain® and guide trough allows the system to integrate seamlessly into the crane beam, leaving no cable loops hanging in the working area or field of view.



# also in maritime applications

## ... or on ships, such as: Anchor handling tugs







# Anchor handling and transport tugs with igus® e-chains®

Due to the special construction of the e-chains® from the 5050C series, with RBR (reverse bend radius), the A-Frame can pivot in the bow or stern direction.

The system was installed and commissioned in 2008 and continues to run flawlessly.

# igus® services ...



Visit our industry web pages for more information, products, application examples and useful online tools.

## www.igus.com/boats





## 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.

mww.igus.com/online



## For any task - in any quantity

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



mww.igus.com/industries

## fast and reliable.



## 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



# 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





## 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 – 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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