



# Yachts... ... Boats ...

igus® solutions for sports boats and  
other watercraft

plastics for longer life... igus

# Sailboats

... [www.igus.eu/boats](http://www.igus.eu/boats)

# Reduce cost ...



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

Lubrication-free 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-chainsystems® guide any cable reliably and safely during electrical movements. iglidur® plain bearings and drylin® linear guides use dry operation and move sliding doors, hatches, steering systems, lift systems and all other rotating and swivelling components quietly and completely maintenance-free. Always 100% lubrication-free.

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® – lubrication-free 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:**

- Lubrication-free for life
- Corrosion-resistant
- Smooth and silent
- Easy, straightforward assembly
- Large variety, extensive standard product range
- Customised solutions from prototype to production

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

 [www.igus.eu/boats](http://www.igus.eu/boats)

Let the ideas and solutions in this brochure inspire you.

# ... improve technology ...

... in sailboats



... in yachts



... or motorboats



# ... with motion plastics® from igus®

# igus® solutions ...

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



## ... Self-tacking jib

**drylin® curved profile guides**

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

[www.igus.eu/drylinW](http://www.igus.eu/drylinW)



## ... Carriage systems

**drylin® W profile guide**

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

[www.igus.eu/drylinW](http://www.igus.eu/drylinW)



## ... 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). [www.igus.eu/igubal](http://www.igus.eu/igubal)



## ... Bilge pump

**igidur® plastic plain bearings**

Durable, lubrication-free iglidur® plain bearings in a bilge pump.

[www.igus.eu/igidur](http://www.igus.eu/igidur)



## ... Jam cleats

**igidur® plastic plain bearings**

Maintenance-free iglidur® plain bearings for high edge pressures in jam cleats.

[www.igus.eu/igidur](http://www.igus.eu/igidur)



## ... Steering systems

**igidur® J plastic plain bearings**

igidur® J plain bearings for fast and slow movement in the steering gear.

[www.igus.eu/J](http://www.igus.eu/J)

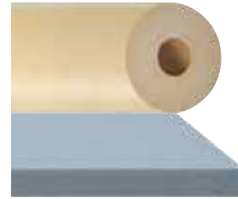


## ... Bow thruster

**igidur® PRT slewing ring bearing**

Lubrication-free iglidur® PRT slewing ring bearings for bow thrusters.

[www.igus.eu/PRT](http://www.igus.eu/PRT)



## ... Kicking strap

**igidur® bar stock**

"Lubrication-free customised geometry" made from iglidur® bar stocks for kicking straps.

[www.igus.eu/barstock](http://www.igus.eu/barstock)



## ... plain bearing-mounted hatches

**drylin® WJRM hybrid bearing**

Smooth drylin® hybrid bearings for hatch movements.

[www.igus.eu/drylinWJRM](http://www.igus.eu/drylinWJRM)



## ... 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.

[www.igus.eu/drylinN](http://www.igus.eu/drylinN)



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.

[www.igus.eu/drylinN](http://www.igus.eu/drylinN)



### ... Seating

**igidur® G plastic plain bearings**

Lubrication-free iglidur® plastic plain bearings for seat kinematics.

[www.igus.eu/G](http://www.igus.eu/G)

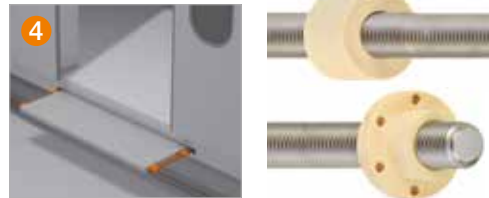


### ... Windows

**drylin® T low profile linear guide system**

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

[www.igus.eu/drylinT](http://www.igus.eu/drylinT)

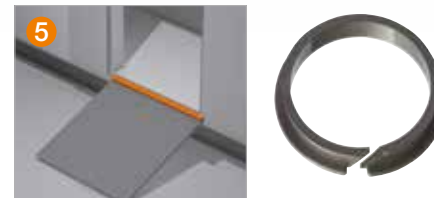


### ... Steps

**drylin® lead screw technology**

Efficient and durable dryspin® high helix threads for retractable steps.

[www.igus.eu/leadscrew-technology](http://www.igus.eu/leadscrew-technology)



### ... Ramps

**igidur® MCM plastic plain bearings**

Installed quickly: iglidur® clip bearings for ramp movements.

[www.igus.eu/MCM](http://www.igus.eu/MCM)



### ... Anchor lockers and anchor winches

**igidur® Z polymer plain bearings**

For high edge pressures in anchor lockers and winches.

[www.igus.eu/Z](http://www.igus.eu/Z)



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



### ... Steering system

#### igubal® spherical bearings

Lubrication-free, tolerance-compensating igubal® spherical bearings in steering systems.

[www.igus.eu/igubal](http://www.igus.eu/igubal)



### ... Gearboxes

#### igubal® coupling bars

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

[www.igus.eu/igubal](http://www.igus.eu/igubal)



### ... Spring-mounted seating systems

#### drylin® W profile guide, E2 micro e-chain®

Electrical seat adjustment with drylin® W profile guide and E2 micro e-chain®.

[www.igus.eu/drylinW](http://www.igus.eu/drylinW)

[www.igus.eu/E2micro](http://www.igus.eu/E2micro)



### ... Valves (EGR and turbocharger)

#### igidur® plastic plain bearings

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

[www.igus.eu/igidur](http://www.igus.eu/igidur)



### ... Belt tensioner

#### igidur® plastic plain bearings

Vibration-dampening iglidur® plain bearings for belt tensioners.

[www.igus.eu/igidur](http://www.igus.eu/igidur)



### ... Trim tabs

#### igidur® plastic plain bearings,

#### drylin® QLA linear drive

Lubrication-free and pressure-resistant iglidur® plain bearings and telescopic drylin® QLA linear drive for trim tabs.

[www.igus.eu/igidur](http://www.igus.eu/igidur) [www.igus.eu/drylinQLA](http://www.igus.eu/drylinQLA)



### ... Flap mounting of intake manifolds

#### igidur® plastic plain bearings

Pressure-resistant iglidur® plain bearings in flap mounting of intake manifolds.

[www.igus.eu/igidur](http://www.igus.eu/igidur)



### ... Gear actuators

#### igidur® plastic plain bearings

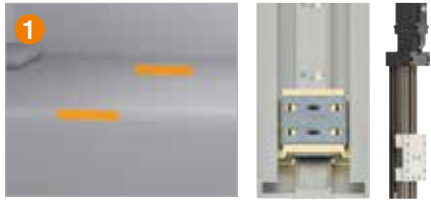
Medium-resistant and shock-absorbing iglidur® plain bearings for gear actuators.

[www.igus.eu/igidur](http://www.igus.eu/igidur)



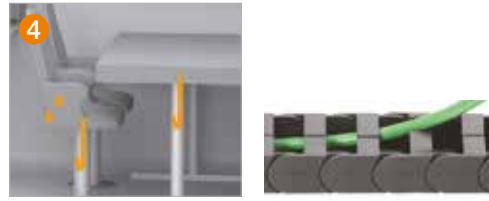
# igus® solutions ...

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



**... Beds**  
 drylin® N flat guides, drylin® SLW with motor  
 drylin® N flat guide for manual bed retraction, drylin® SLW linear module for electrical retraction.

[www.igus.eu/drylinN](http://www.igus.eu/drylinN)  
[www.igus.eu/drylinSLW](http://www.igus.eu/drylinSLW)



**... Chairs and tables**  
 e-chains® ZF  
 Reliable electrical seat adjustment with e-chain® ZF.

[www.igus.eu/ZF](http://www.igus.eu/ZF)



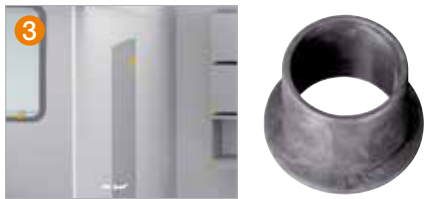
**... Windows**  
 drylin® T low profile linear guide system  
 Compact drylin® T low profile linear guide system for window adjustment.

[www.igus.eu/drylinT](http://www.igus.eu/drylinT)



**... Wash basins**  
 e-chains®  
 Electrical height adjustment of wash basins with e-chain® easychain®.

[www.igus.eu/easychain](http://www.igus.eu/easychain)



**... Doors**  
 iglidur® plastic plain bearings  
 Shock-absorbing, durable, lubrication-free iglidur® plain bearings for door hinges.

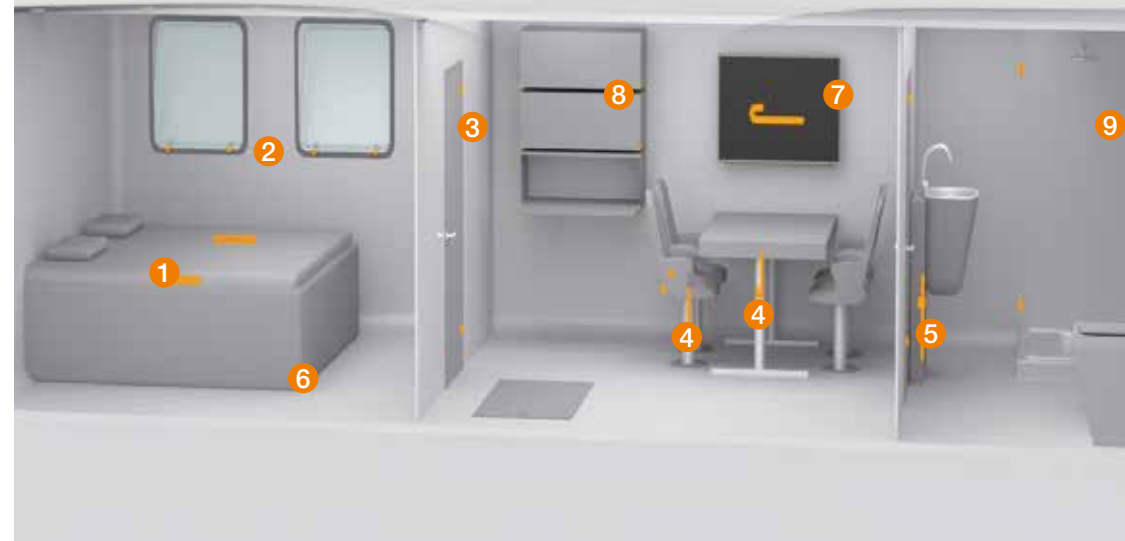
[www.igus.eu/iglidur](http://www.igus.eu/iglidur)



**... Lift bed systems**  
 drylin® W profile guide  
 drylin® W profile guides for guiding lift bed systems.

[www.igus.eu/drylinW](http://www.igus.eu/drylinW)

# ... 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.

[www.igus.eu/drylin](http://www.igus.eu/drylin) [www.igus.eu/e-chain](http://www.igus.eu/e-chain)



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

[www.igus.eu/drylinWJRM](http://www.igus.eu/drylinWJRM)



**... Wardrobe doors and pull-outs**  
 iglidur® plastic plain bearings  
 Open or move wardrobe doors quietly with shock dampening using iglidur® plain bearings.

[www.igus.eu/iglidur](http://www.igus.eu/iglidur)





# Maintenance-free even underwater ... corrosion-free ... ready-to-install

## iglidur® plain bearings ... a brief selection of the 50 materials



### iglidur® X – The high-tech problem solver

- For operating temperatures of -100 °C to +250 °C in continuous operation
- Excellent chemical resistance
- High compressive strength
- Very low moisture absorption
- Excellent wear-resistance through the entire temperature range

[www.igus.eu/x](http://www.igus.eu/x)



### iglidur® P – low-cost and maintenance-free

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

[www.igus.eu/P](http://www.igus.eu/P)



### iglidur® H2 – cost effective high-temperature bearing up to 200 °C

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

[www.igus.eu/H2](http://www.igus.eu/H2)



### iglidur® G – The all-rounder

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

[www.igus.eu/g](http://www.igus.eu/g)



### iglidur® J200 – for anodised aluminium

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

[www.igus.eu/J200](http://www.igus.eu/J200)



### iglidur® J – the fast-and-slow-motion 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

[www.igus.eu/J](http://www.igus.eu/J)

## ... Lubrication- and maintenance-free drylin® liners

### Specially designed material combinations made from stainless steel and maintenance-free Tribo polymers.

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

[www.igus.eu/drylin-stainless](http://www.igus.eu/drylin-stainless)

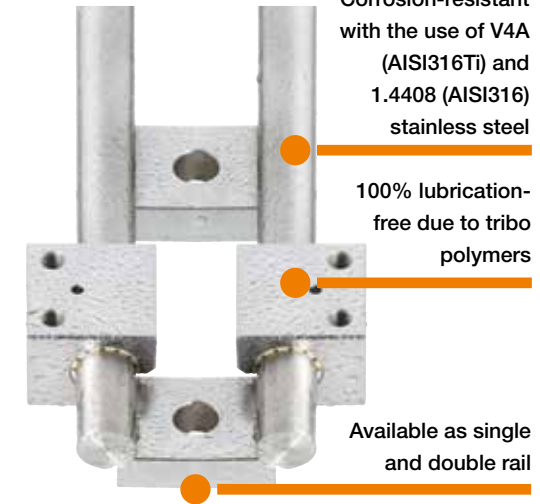


### drylin® SLW-ES lead screw module

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

[www.igus.eu/drylinSLW](http://www.igus.eu/drylinSLW)

### drylin® W stainless steel guide



Corrosion-resistant with the use of V4A (AISI316Ti) and 1.4408 (AISI316) stainless steel

100% lubrication-free due to tribo polymers

Available as single and double rail



### iglidur® PRT slewing ring bearings

This PRT slewing ring bearing can be used up to +180 °C and is resistant to chemicals and wear.

[www.igus.eu/PRT](http://www.igus.eu/PRT)



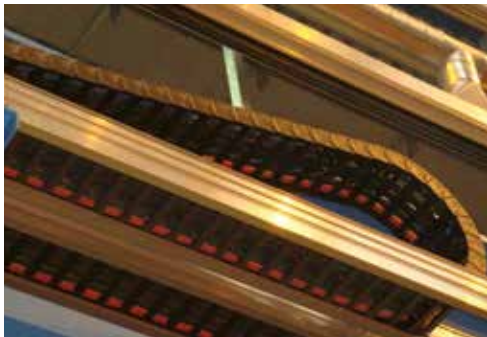
### drylin® R shaft guide

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

[www.igus.eu/drylinR](http://www.igus.eu/drylinR)

# Reliable and resistant ...

igus® motion plastics® products are, for example:  
failsafe in shipyards ...



## Shipyard

Eight gantry cranes connected in series travel a total length of 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.eu/boats](http://www.igus.eu/boats)



**Quickly find and configure products and calculate service life – all online.**

Using our online product finders, you can find the right igus® product and get a service life prediction.

[www.igus.eu/online](http://www.igus.eu/online)

## **i** For any task – in any quantity

Different industries need different solutions. Whether in mechanical engineering, automotive manufacturing or in the robot industry – igus® offers customised support for specialised applications. igus® has many years of experience and specialised resources in many industries.

[www.igus.eu/industry](http://www.igus.eu/industry)

# ... fast and reliable.



## The igus® delivery service

Over 97% availability of all catalogue parts – no need for you to hold stock

- Over 100,000 products from stock
- No minimum order value
- No surcharges for small quantities
- No costs for cutting cables
- No packaging costs

[www.igus.eu/24](http://www.igus.eu/24)



## Modern injection moulding technology

The igus® GmbH quality policy is based on the objective of identifying and meeting customer needs, and of always being a professional partner and reliable supplier. igus® has always been committed to producing products of the best possible quality and consistently developing innovative solutions.



## The igus® lab

The industry's largest test lab, covering more than 2,750 m<sup>2</sup> of interior and exterior space, conducts more than two billion test cycles per year on a total of 107 test rigs.

- Extensive test databases
- Customised tests on request

[www.igus.eu/test](http://www.igus.eu/test)

## **i** igus® motion plastics®

One vision has been driving us for over 50 years – motion plastics®: moving parts made from plastic that cost less and last longer. Our core technology consists of tribo-polymers – high-performance plastics, which we have optimised for friction and wear. This technology has made us into a worldwide leader for developing and manufacturing energy supply systems and plain bearings.



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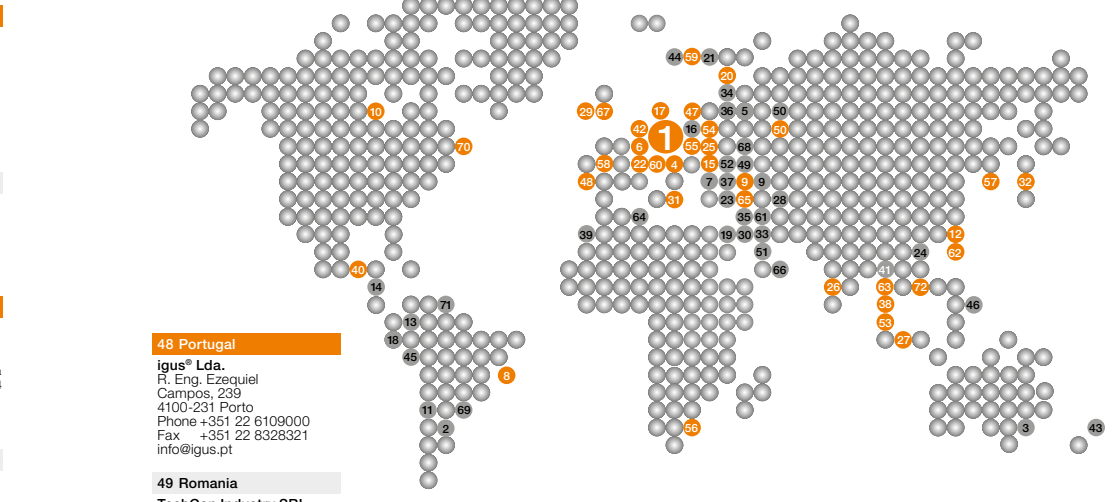
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