



...Rail-, Miniature-, Profile-Guides...Linear Plain Bearings and Shafts...



Application Examples: drylin®

More exciting examples > www.igus.co.uk/drylin-applications

GESET ETIKETTIER-SYSTEME GmbH

LABEL FEEDING SYSTEM/PACKAGING TECHNOLOGY Quick and flexible format adjustment with absolute freedom from lubrication at lower costs – implemented with the drylin[®] T linear guide system. Further advantage: Guide carriage with manual clamping.





CHAMPAGNE-BOTTLE SEALING MACHINE Freedom from lubricants and chemical resistance, drylin[®] guides score highly in facilities in the food sector. (Sick International Kellereimaschinen GmbH)



FORMING, FILLING AND SEALING MACHINE drylin[®] high temperature bearings (up to +120 °C) are used in the tool guide system of this forming, filling and sealing machine. (Unifill SpA, Italy)



DOOR ADJUSTMENT

The smooth, low noise operation and the enormous cost advantages are obtained by the use of the drylin[®] R linear plain bearings on hard-anodized guide shafts to guide the doors of machine tools. (Alzmetall GmbH + Co. KG)



ERSASCOPE INSPECTION OPTICS

The vertical positioning of the optics is carried out by the drylin[®] T linear guide system whose continuously adjustable clearance provides for the required precision and a smooth, vibration-free operation. (ERSA GmbH)



SYSTEMS FOR THE PRODUCTION OF ALUMINUM CARTRIDGES

The absolute freedom from lubricants and the resistance to paint spray led to the application of drylin[®] R linear plain bearings. (Mall + Herlan GmbH)



MOBILE AND STATIONARY SAW MILLS drylin[®] W modular linear guide system and iglidur[®] J liner for adjusting the saw blade guide. (Serra Maschinenbau GmbH)

drylin[®] Linear Guide Systems | Product Overview





TS-11 Reduced weight rail single



Standard

carriage

single

TWA-01

Automatic

carriage

single

0

0





manual

clamping,

carriage

single



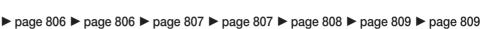


carriage

single



TW-03 Heavy Duty Compact complete system



drylin[®] N Low profile guide systems from page 821



NS-01-17 NW-02-17 rail width carriage 17 mm with thread

0

5

NW-02-17P carriage with thread, preload

NS-01-27 NW-22-17-40 double rail width carriage with 27 mm thread

NW-01-27/ NW-11-27 carriage with mounting holes





NW-01-27-P carriage with mounting holes, preload

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standard with thread, with thread clipped

overmoulded easy fit stoppers

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drylin[®] W Modular guide systems from page 835





bearing round



"Turn to fit"

adjustable







Hybridlager roll and slide

Double rail square

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drylin[®] R Round shaft guide systems from page 869



JUM-01 JUMO-01 Liner open. long design long design

JUM-11 Liner closed. long design, precise

JUMO-11 Liner open, long design, precise

JUM-02 Liner closed.

XUM Liner short design

02)

WLM Pressfit open (XUMO) bearing and closed made of iglidur® L100 design, long (XUM-01) and short (XUM-

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782

WSQ

square



Single rail Housing bearing square

ws Single rail round

WJ200UM Housing





TS-04...

Miniature

rail single





carriage

NW-02-27-P

thread,

preload

single



TWBM-11 clamping elements, compact

TWBM-01 manual clamping with high holding strength

.

.

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NW-11-27-80





NW-02-40/



NS-01-80

NW-12-27 carriage with thread

NW-02-27/

carriage with polymer carriage with mounting holes

NW-21-27-60P NW-22-27-60P NW-12-27-80 polymer double carriage with carriage with thread. thread

double carriage with mounting overmoulded holes

rail width 40 mm

NS-01-40

NW-11-40 NW-12-40 carriage with carriage with mounting thread holes

NW-01-40/

rail width 80 mm

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WW-06

carriage

Guide

fitted. square



guide

carriage

ws **WWC-10** Mono-Slide



ww Guide carriage fitted,

round



WSQ-.../ WS-...-CAM Double rail with rollers reduced



Slider rail 3/8" thread

WHKA WHKD Manual Manual clamping clamping for high holding

strength

stainless

drylin ® W Rail and bearing single and double

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weight



WLFM Pressfit bearing made of iglidur® L100



RJUM-01 RJUM-11 Linear plain Linear plain bearing bearing closed closed anodized anodized aluminum aluminum

adapter

adapter

precision



RJM

Solid

RJMP Solid polymer polymer bearing bearing made of long design, iglidur® J reduced bearing clearance



RJUM-...-ES TJUM-01 Linear plain Linear plain bearing bearing closed split stainless anodized steel adapter aluminum adapter

RJUM-03 Linear plain bearing closed aluminum adapter (floating

bearing)

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drylin[®] Linear Guide Systems | Product Overview

drylin[®] R Round shaft guide systems from page 869





TJUM-03 RJUM-02 Linear plain Linear plain bearing bearing split aluminum closed adapter anodized aluminum adapter

RJ260UM Compact Bushing Low-cost linear plain bearing



RJUME Housing bearing adjustable anodized aluminum housing, short design short design



TJUM-05

Housing

bearing

aluminum

housing,

screwed.

short design

RJUMT Housing bearing split anodized open anodized aluminum housing, tandem

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RJUM-05

Housing

bearing

anodized

aluminum

housing,

closed



OQA

AWMP

shaft

Trapezoidal

lead screws

Single start,

twin start,

Aluminum;

made of

with pin

RTA Quad block Tandem open design housing closed design

OTA Tandem housing

open design

RGA OGA Pillow block **Pillow block** housing housing closed, open. long design long design



RGAS

housina

short design

closed.



OGAS Pillow block Pillow block housing open short design

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drylin® Shafts and accessories from page 927







AWMU Precision Supported aluminum aluminum shaft

SWM/ SWMH Steel shaft

SWUM/ **SWUMN** Supported steel shaft

EWM/EEWM/ EWUM/ FWMR **EWUMN** Stainless Supported steel shaft stainless steel shaft



EWUM-ES Partially supported stainless steel shaft

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drylin[®] Lead Screw Drives from page 947



Trapezoidal lead screw nuts nuts made of iglidur® made of iglidur® J, right-/ W300, right-/ left-hand left-hand thread thread

Trapezoidal lead screw

Trapezoidal lead screw nuts made of iglidur® A180, right-hand thread



nuts

iglidur® J,

right-/

nuts

made of

iglidur® J350,

right-hand

thread

Anti-backlash High helix lead screws made of



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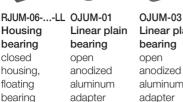
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Housing bearing closed housing, floating bearing



Linear plain bearing open open anodized aluminum adapter (floating bearing)

OJUM-06 Housing bearing open anodized aluminum housing, long design

OJUME Housing Housing bearing bearing closed aluminum housing, housing, floating long design, bearing adjustable

OJUM-06-...-LL FJUM-01/-02 Flange Housing anodized aluminum, round/square flange

FJUMT-01/-02 RQA Flange Housing anodized

round/square

flange



Quad block closed design aluminum

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Liner closed long design, inch

Liner open. long design, inch



B.IUI-03-T.IUI Linear plain bearing bearing split aluminum aluminum adapter. adapter. inch

0.101-03-Linear plain bearing open aluminum adapter. inch



inch

block

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lead screw

with flange;

with axial locks

nuts

square;



CWM

shaft

screw nuts

cylindrical

TA Carbon fiber Shaft end

support

moving

High helix lead High helix lead Zero backlash SHT-

screw nuts

flange



fixed

lead screw

nuts

made of

iglidur® J

WAC Shaft support compact standard design

WAS WAF Shaft end Shaft support block support block block narrow design

Spherical

trapezoidal

lead screw

self aligning

nut



Lead screw

support

blocks



Lead screw

support

with ball

bearings



Quick-release nut Fast Forward

▶ page 973 ▶ page 974 ▶ page 975 ▶ page 976 ▶ page 978 ▶ page 979 ▶ page 980 ▶ page 981 ▶ page 982

Split lead

made of

iglidur® J

screw nuts



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drylin[®] linear slide systems

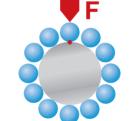
drylin® | Glides instead of Rolling!

drylin[®] is a range of maintenance-and lubrication-free linear bearings. This range includes linear modules with leadscrew and belt drives. The main benefits in addition to zero maintenance and lubrication are strength and resistance to external influences such as soiling, moisture, chemicals, heat and impact.



- Maintenance-free
- Wear-resistant
- Insensitive to impacts and vibrations
- Corrosion-resistant
- Resistant to dirt, dust and humidity
- Low coefficients of friction
- Weight reduction





Roller bearings - Point contact



Plain bearings - Surface contact





Resistant to dirt, dust and moisture – due to due to lubricantfree use and ribbed sliding surface.

- Dry-running
- For short-stroke applications
- High static load capacity
- High speeds and accelerations possible
- Self-lubricating
- Very quiet operation
- Low/no magnetism

Optimum load distribution

drylin[®] linear bearings operate on gliding pads unlike the traditional recirculating ball bearing systems. This gives a larger contact surface resulting in lower surface pressure. This leads to advantages which include:

- The use of non-hardened shafts
- The use of non metallic shafts
- Scratching and shaft damage is completely excluded.

Shafts and rail materials

The large surface area of drylin[®] linear plain bearings, when compared to traditional ball bearings, means that under a given load the bearing pressure is greatly reduced. This allows soft shaft materials to be used, including hard anodized aluminum, which in turn gives additional benefits in friction and wear rate values. Also VA stainless steel shafts can be used when chemical resistance is required. Of course, standard linear hardended shafts can also be used with drylin[®] linear bearings.

Dry Run, without Lubrication

drylin[®] linear bearing systems are designed for running dry. As there is no grease or oil present, the application tends to naturally self clean, any particles are wiped away from the sliding surface by the ribbed design of the drylin[®] polymer bearing. This works well even in coarse dirt or even sand.

drylin® | Glides instead of Rolling!

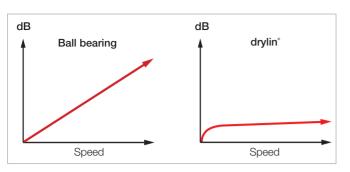
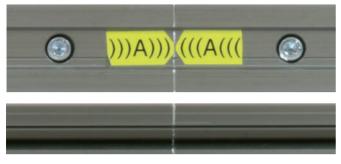


Diagram 01: Comparison of noise development



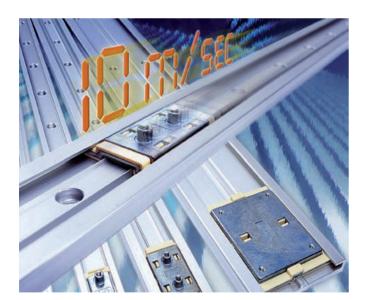
Rail joint

Low Noise

The quiet operation is also a benefit of sliding rather than rolling, there are no loud collisions between a hard steel ball and the shaft or rail. The gliding motion is extremely quiet and only a light friction noise is audible.

Maximum stroke lengths

The line up of guide rails (joining) poses no challenge for drylin[®] linear guides. The guide rails are slightly chamfered, aligned and simply butted together. The groove resulting from the joint can be passed over by the sliding bearing without problems. With the drylin[®] linear plain bearings, a ball or roller cannot get stuck. In this way stroke lengths of more than 20 meters can be implemented. The joining of the rails is made a straight forward as possible by clear marking provided at the igus[®] factory before despatch.



Heat conductivity	[W / m · K]	
Aluminum	235	
Unalloyed steel	48 - 58	
High-alloyed steel	15	
Table 01: Heat conductivity		

Permitted Speeds/Accelerations

drylin[®] linear plain bearings eliminate rollers and balls. This makes the bearing independent of the mass inertia of this body and can be used with high speeds up to 10 m/s and accelerations up to 100G.

drylin[®] linear bearings are therefore especially suitable for applications with light loads, where the speeds should be increased. The use of hard-anodized aluminum as a friction partner lowers the operating temperature in the bearing due to the high thermal conductivity of aluminum. Thus the operation can be carried out with a high frequency even at very short stroke lengths.

The maximum average surface speed results from the load on the bearings. With decreasing surface load, higher speeds can be achieved. More important than the maximum speed reached is the average speed over a period of time, because this has the most influence on the heating of the bearing system. In cases with breaks between the individual cycles, the maximum average surface speed is critical, which is achieved during a period of 10 to 30 minutes.

Average surface speed

= Travel distance per cycle [m] / total cycle time [sec].

drylin[®] linear slide systems

drylin[®] | Glides instead of Rolling!



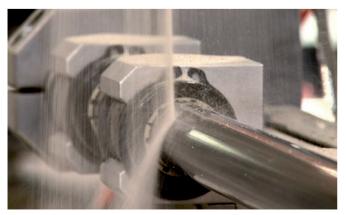
Extreme application conditions in the offshore industry



Filling machine, Krones AG, Rosenheim



The iglidur[®] X material in heavy-duty use under high temperatures in foundries



Lubrication-free and insensitive to dirt

Corrosion Behavior

The low humidity absorption of iglidur[®] J, J200 and X permits even underwater applications. The use of stainless steel or anodized aluminum shafts provide a corrosion-resistant guide system. Anodized aluminum is resistant to chemically neutral substances in the range pH 2 to 7. For special applications separate tests are recommended

for anodized aluminum sample parts for that specific application, igus can supply, free of charge, small sample lengths for this.

Chemical Resistance

iglidur[®] J is resistant to weak acids, diluted alkalis as well as to fuels and all kinds of lubricants. The intensive cleaning of machines with standard commercial cleaning agents, even in the food sector, is therefore not a problem for the guides. For applications in environments with aggressive chemicals, the use of the drylin[®] R bearings equipped with iglidur[®] X liners is recommended.

The resistance of linear bearing systems is equally dependent on the shaft or rail material. As an option most resistant to chemicals, a high-alloyed stainless steel is offered, for instance X105 CrMo 17 (1.4125), or alternatively the use of soft VA steels (e.g. 1.4571).

Application Temperatures

Bearings made of iglidur[®] J and J200 can be used in the temperature range between –50 and +90 °C. In applications with aluminum shafts and/or rails, significantly higher loads and speeds can be achieved due to the excellent heat conductivity. Bearings made of iglidur[®] X can be used in the range of –100 °C to +250 °C.

Use in Dirt

Applications in coarse dirt and even sand are possible. Particles are repelled from the contact surface by the movement itself.

Hard Anodized Surfaces

Hard anodized surfaces are characterized by good wear properties, high chemical resistance and a high degree of hardness. It is a technical and not a decorative surface. Color alteration and slight cracking may occur, but do not influence the resistance, the corrosion behavior or the gliding bearing. Cutting surfaces and machined surfaces are uncoated.

drylin[®] | Materials

Materials

igus® offers different options for the bearing and shaft/ rail materials for drylin® linear systems. Tests conducted over the years have shown that iglidur[®] J, J 200 and X are the ideal materials for most linear applications due to their positive properties in wear and friction.

Ideal Material Combinations

ialidur[®] J

The iglidur[®] J material achieved the best results among almost all shaft materials in our tests. Comparative laboratory tests show that iglidur® J is the most low-wear, low-friction polymer for linear applications.

Special properties of iglidur[®] J:

- Maintenance-free, dry-running
- Low coefficients of friction with all materials
- Excellent wear resistance
- Low humidity absorption
- More about iglidur[®] J from page 93.

ialidur[®] J200

iglidur® J200 was designed and developed especially for linear applications which use hard-anodized aluminum. This combination achieves by far the best results in our laboratory tests.

Special properties of iglidur[®] J200:

- Totally maintenance-free
- Extremely high service life on hard-anodized aluminum
- Low coefficients of friction with hard-anodized aluminum
- Excellent wear resistance with anodized aluminum
- More about iglidur[®] J200 from page 279.

iglidur[®] X

iglidur[®] X is characterized by high temperature resistance and compressive strength combined with extreme resistance to chemicals. iglidur[®] X achieves the best wear resistance on stainless steel and chrome-plated steel shafts.

- Special properties of iglidur® X: Totally maintenance-free
- Temperature resistance from -100 °C to +250 °C in continuous operation
- Universal resistance to chemicals
- Very low humidity absorption
- More about iglidur[®] X from page 157.

Other possible materials:

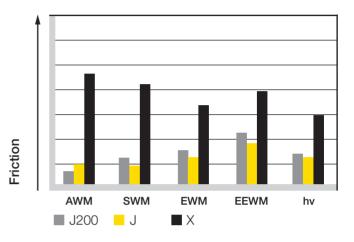
iglidur® A180, FDA-compliant

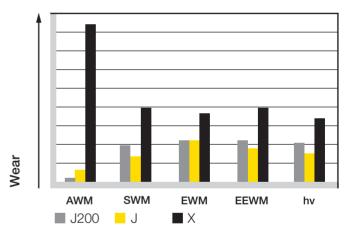
More about iglidur[®] A180 from page 395.





iglidur[®] X





AWMP:

Hard-anodized aluminum shaft, h8

SWM:

Hardened and ground steel shaft, h6, (1.1213) EWM:

Hardened and ground stainless steel shaft, h6, (1.4125)

EEWM:

Hardened and ground stainless steel shaft, h6, (1.4034)

hv:

Hard-chrome plated and ground steel shaft, h7, (1.1213)

789

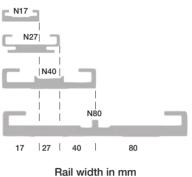
drylin® linear slide systems



drylin[®] | Range







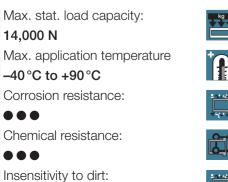
drylin[®] T Monorail Systems

From page 799

drylin[®] T monorail guides are made to the classic design. Their dimensions are identical to standard commercial ball guide systems and are used in almost all industries.

- 100% lubrication-free
- Adjustable clearance
- Automatic clearance adjustment
- High static load capacity
- Service life up to 50,000 km
- High insensitivity to dirt

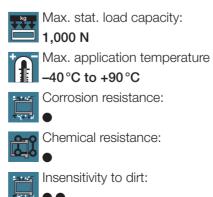
kg



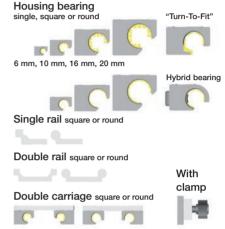
drylin[®] N Low Profile Guide Systems ▶ from page 821

drylin[®] N flat guides have an extremely low profile, run lubrication free and are very light. If extreme precision is not required, they are an interesting alternative to miniature ball guide systems and custom solutions.

- Design height: 6–12 mm
- Many carriage options also with pretension
- Rails in silver or black anodized





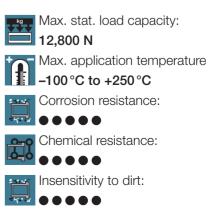


drylin® W Modular Guide Systems

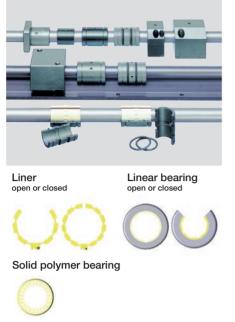
from page 835

drylin[®] W profile guides offer a large and varied modular system with 14 different profiles and more than 50 carriage options. The system offers versatile use and is an alternative to all common guide systems.

- Easy installation
- Angular rail with floating bearing function enables a diagonal assembly
- Space saving and compact
- VA stainless steel version also available



790 Lifetime calculation, CAD files and much more support ► www.drylin.co.uk



Housing bearing

drylin[®] R Round Shaft Guide Systems

from page 869

drylin[®] R shaft guides as an alternative to ball bushings. Polymer plain bearings can now work lubrication-free on all available shaft materials, and not only on hardened steel shafts.

- Same dimensions as standard ball bearings
- Shafts, Pillow Blocks and Accessories available from stock
- 8 different shaft materials
- Interchangeable liners
- Low weight
- Max. stat. load capacity:
 - 📃 40,000 N
 - Max. application temperature

-40°C to +250°C Corrosion resistance:

Chemical resistance:





End blocks

Shaft end supports

flange shaft end support





steel, carbon fibre, precision shafts





®

drylin[®] Shafts

▶ from page 927

Besides the plain bearing, a linear system also includes the shaft and its surface finish. The objective is to provide the customers with the ideal material to optimize the coefficients of friction, resistance and service life. To this end, a design kit, consisting of 8 shaft materials and 29 plain bearing materials are available.

- Low weight
- More than 50% cost saving
- Also supported shafts
- Individually machined
- Available from stock
- Diameters 6–50 mm
- fixed and moving shaft supports
- shaft end supports with different designs



Trapezoidal and high helix lead screw nuts sleeve Flanged



Trapezoidal and high helix lead screws



Lead screw nuts, preload







drylin[®] Lead Screw Drives

from page 947

drylin[®] lead screw drives convert a rotary motion into a linear motion. The plastic nuts run completely lubrication-free on trapezoidal or high helix lead screws.

- Maintenance-free, dry-running
- Low noise
- High insensitivity to dust and dirt
- Corrosion-free
- Trapezoidal and high helix lead screws
- High efficiency



Max. stat. load capacity: 20.400 N



Max. application temperature

Gorrosion resistance:



Chemical resistance:

Insensitivity to dirt:

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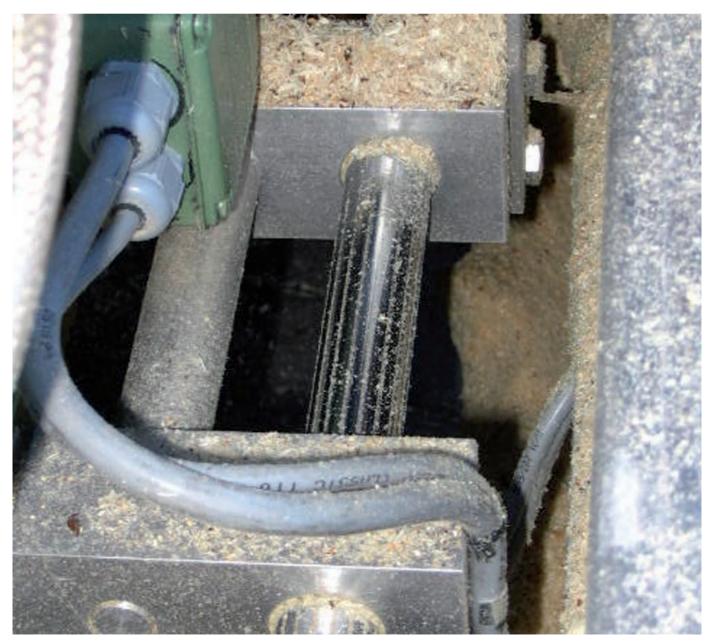
drylin[®] | Application Examples

Insensitivity to Dust and Dirt

drylin[®] linear bearings offer the ultimate dirt and dust resistance. As external lubrication is eliminated, dirt particles cannot get stuck in oil or grease residues. If they are on the guideway, they are removed from the track by the plastic gliding element that acts like a wiper. The lack of seals enables the gliding elements to guide the dirt through the bearing via channels and thus minimize pressure build-up in front of the bearing. If the liners get worn out due to extremely dirty conditions, these can be easily replaced in all systems.

Typical sectors of industry and application areas

- Agricultural economy Plant design Printing industry Glass industry Heavy Duty
- Woodworking
 Textile technology
 Packaging



drylin® in the heaviest environments



Parting unit with talcum powder



Welding head



Filling-shoe mechanism in a compaction unit



Mobile saw mills



Concrete cutting machine



Stop dog system of a sliding table panel saw

Clean and hygenic

drylin[®] linear guides work with plastic sliding bearings instead of balls. These plastics are iglidur[®] highperformance polymers which integrate dry lubricants within the material. Compared to roller guides this enables a lubricant-free operation and gives guarantee to the user that machine parts or products to be packaged will not be contaminated by oil.

Typical sectors of industry and application areas

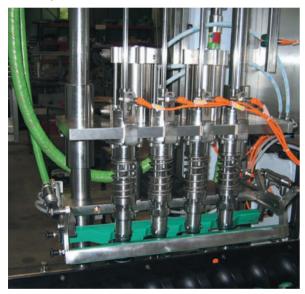
- Automation Automotive Electronics industry Film and TV Food industry Medical
- Furniture/industrial design Test engineering and quality assurance Cleanroom
- Sports and leisure Packaging



Vacuum pressure casting machine with drylin® W feeder



Fitness equipment: Seat height adjustment for bench press



Beverage can emptying device



Pizza machine



Adjustment of kitchen worktop



Table pull-out mechanism



Filling system

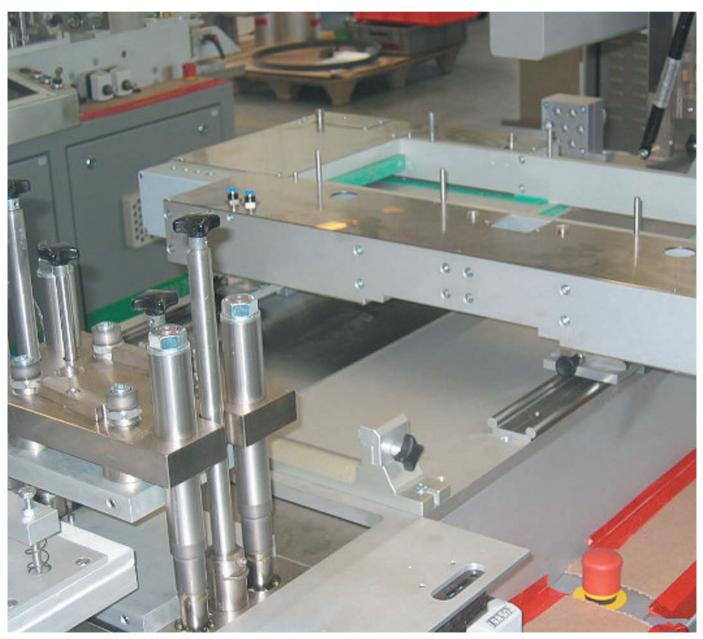
drylin[®] | Application Examples

Corrosion and Chemical Resistance

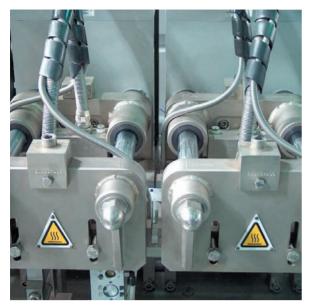
Some parts of the drylin[®] linear bearing range can be manufactured in pure stainless steel. Here the materials 1.4301, 1.4305, 1.4408 and 1.4571 are often used – generally described as VA. These soft stainless steels are chemically resistant materials and can be used as linear guides without problems along with iglidur[®] J and/or iglidur[®] X bearings.

Typical sectors of industry and application areas

- Disposal engineering Fluid technology Beverage technology Food industry
- Offshore Marine engineering



Blister machine/Packaging technology



Forming, filling and sealing machine



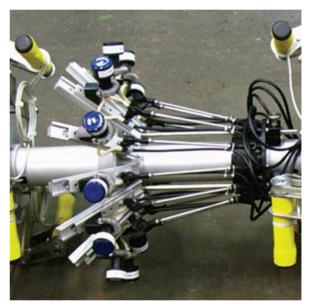
Plant for the manufacture of die-casting molds



Leather splitting machine



Steering systems on bus trailers



Offshore-Drilling-Riser



Bag forming, filling and sealing machine

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Clean Room Suitability and ESD Compability of drylin[®]

Linear Guide Systems by igus® GmbH

All drylin[®] guide systems are clearly qualified for clean room applications. The differentiation between the various clean room classes is only dependent on load and speed of the application. The combination of iglidur[®] J and hard anodized aluminum is classified as level 1 in the ESD compatibility



The measurement results of the ESD compatibility according to SEMI E78-0998 show that the linear guide system drylin[®] NK-02-40-02 can be classified as "level 1" (Highest rank). See Fraunhofer IPA Report No.: IG 0308-295 73.

Linear guide system drylin® TK-01-25-02:

The following drylin[®] guide systems by igus[®] GmbH were examined: N40, W10, T25 and T30. See below for detailed results.

Linear guide system drylin® TK-10-30-01:

according to SEMI E78-0998 (Highest rank).

"For the linear guide system drylin[®] TK-10-30-01 by igus[®] GmbH, it is possible, on the calculations of the likelihood of violation of threshold values of the detection sizes 0.2 μ m, 0.3 μ m, 0.5 μ m, and 5 μ m with motion speed of v = 0.1 m/s, to clearly derive suitability for clean rooms classified as ISO Class 3 according to DIN EN ISO 14644-1."

Linear guide system drylin[®] NK-02-40-02:

"For the linear guide system drylin[®] NK-02-40-02 by igus[®] GmbH, it is possible, on the calculations of the likelihood of violation of threshold values of the detection sizes 0.2 μ m, 0.3 μ m, 0.5 μ m, and 5 μ m with motion speed of v =1 m/s, to clearly derive suitability for clean rooms classified as ISO Class 6 according to DIN EN ISO 14644-1."

"For the linear guide system drylin[®] TK-01-25-02 by igus[®] GmbH, it is possible, on the calculations of the likelihood of violation of threshold values of the detection sizes 0.2 μ m, 0.3 μ m, 0.5 μ m, and 5 μ m with motion speed of v =1 m/s, to clearly derive suitability for clean rooms classified as ISO Class 5 according to DIN EN ISO 14644-1."

The measurement results of the ESD compatibility according to SEMI E78-0998 show that the linear guide system drylin[®] TK-01-25-02 can be classified as "level 1" (Highest rank).

Linear guide system drylin® WK-10-40-15-01:

"For the linear guide system drylin[®] WK-10-40-15-01 by igus[®] GmbH, it is possible, on the calculations of the likelihood of violation of threshold values of the detection sizes 0.2 μ m, 0.3 μ m, 0.5 μ m, and 5 μ m with motion speed of v =1 m/s, to clearly derive suitability for clean rooms classified as ISO Class 6 according to DIN EN ISO 14644-1."

The measurement results of the ESD compatibility according to SEMI E78-0998 show that the linear guide system drylin[®] WK-10-40-15-01 can be classified as "level 1" (Highest rank). See Fraunhofer IPA Report No.: IG 0308-295 74.

