

# material

Warehousing...Distribution Centers... Logistics

plastics for longer life®... igus

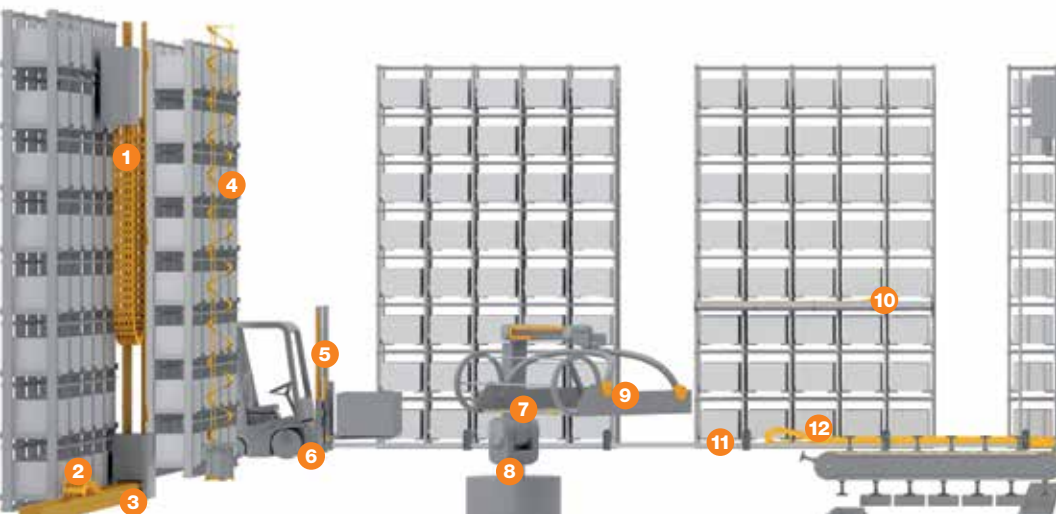
# handling

[www.igus.com/materialhandling](http://www.igus.com/materialhandling)

ECS-B12

## Maintenance-free plastic products in indoor and outdoor app

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**PPDS System**  
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# for Material Handling

## lications

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Cost effective and fast assembly – travels up to 492 ft.



## guidelite with E2/000 rol e-chain®

For low-duty applications. Up to 492 ft. of travel at speeds up to 13 ft/s

- Save time through fast assembly
- Lightweight
- Complete system can operate without glide bars
- 10 widths available
- Modular kit with many accessories for cable management



# for distances up to 492 ft.

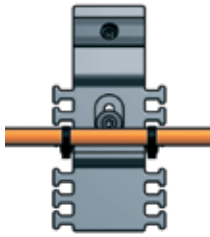


## guidefast – for crane girders and standard indoor cranes

- Save up to 80% installation time compared to standard trough systems
- Fits virtually any standard crane girder
- Suitable for any side-mounted application, not only on cranes
- Suitable for any application which can be mounted sideways
- Simplified cable routing, permanently installed cables can be fixed to the trough brackets



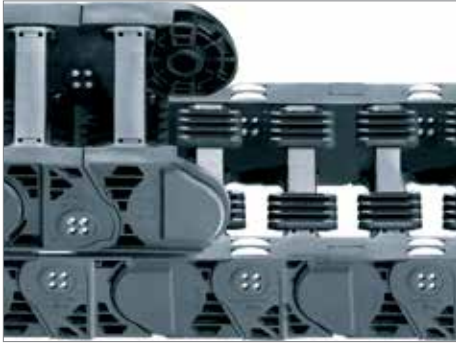
Version 01 -  
short bracket



Version 02 -  
long bracket



## Rolling instead of gliding – solutions for long travels



### P4 system – Roller chain

For very long travel distances, high speeds  
up to 32.8 ft/s travel speed, very quiet running

- Low maintenance roller e-chain system® with tribo-optimized plastic rollers



### rol e-chain® system – Rolls instead of glides

Travels up to 2,625 ft. possible  
Speeds up to 19.7 ft/s possible

- Significant reduction of the drive power required



### autoglide

For travels up to 164 ft.  
For travel speeds up to 4.92 ft/s

- Small installation width, quiet operation



# for long travels without troughs



## E4-1 rol e-chain®

Reduce drive power demands for moving e-chains® - now also with the E4-1 standard toolbox.

- Energy-efficient; reduce drive power by up to 75%
- Same pitch of the roller and normal chain links as well as "ramps"
- Smooth movement of the carrier along the upper and lower runs
- Maximum speeds: 16.4 ft/s
- Cable-friendly interior separation options
- Accessories for cable management available

Same pitch of the roller and standard chain links as well as "ramps" - smooth "round" movement of the e-chain®



## Eliminate sideways swinging in vertical applications

### guidelok slimline F

Safe vertical guidance for e-chains® in

high-speed and acceleration storage systems

- Up to 23 ft/s and 32 ft/s<sup>2</sup>
- Up to 80% less trough required
- Save cost and weight
- For hanging systems up to 164 ft.
- No swinging of the chain, high reliability through locking mechanism and guide rails
- Faster and easier installation
- Reduced noise
- Easy access for maintenance
- Energy, data, and media of all kinds are safely guided without interruption



# for vertical movements

## Guide media, energy and data upward

**Extended system -**  
Secure cable supply up to 42.7 ft. (13 m)



**Modular, silent, space saving -**  
guide media, energy and data up and down.

High vertical applications that have plenty of space horizontally but allow only for little system height can be implemented with the liftband

- Available in 2 sizes - Inner width .98" (25 mm) and 1.26" (32 mm)
- 2 radii available - 6.89" (175 mm) and 9.84" (250 mm)
- Alternative to zig-zag solution
- Lighter and smaller installation space
- Vertical applications implemented with ease
- Max. expansion length: 42.7 ft. (13 m)
- Simply press cables up to a diameter of .35"/.47" (9/12 mm\*) into the e-chain®
- Pull cables up to .43"/.59" (11/15\* mm) into the e-chain® (\*depends on Series)

### Typical industries and applications

- Stage technology
- Indoor cranes
- Mobile telescoping antennas

**Retracted system -**  
Safe containment in a solid steel basket



# for circular movements ...

## igus® solutions for circular and spiral movements



### igus® Rotation modules

Circular motions of 900° and more

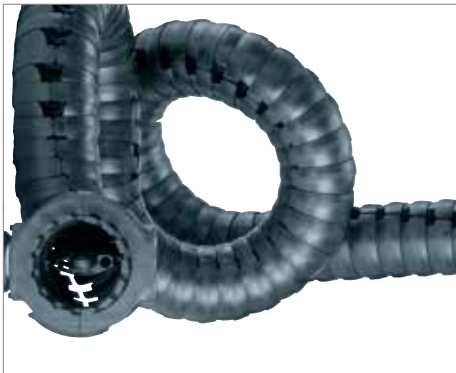
- Endless possibilities
- For rotary motion with heavy fill weights and limited space



### twisterband

Rotary movement in small spaces up to 7000°

- Available in 4 dimensions
- Rotary speeds up to 360°/s possible



### triflex® R multi-axis e-chain® for robots

Developed for sophisticated robotic applications

- Approximately  $\pm 10^\circ$  torsion per chain link
- High tensile strength through ball-and-socket joint



CFROBOT chainflex® cables for torsion movements:  $\pm 180^\circ$  at 3.28 ft., 3,000,000 cycles tested

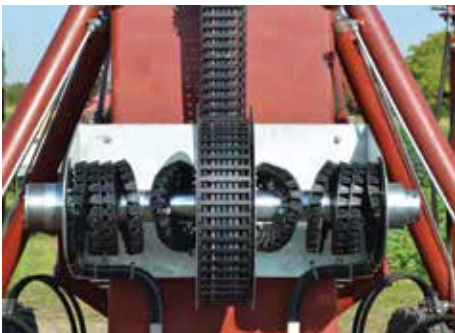
# vertical and horizontal



## **NEW:** e-spool modular kit

The alternative to cable drums – cable-friendly and guides various media safely

- Guiding various types of energy, data, and media
- No tensile load on cables
- Different media and cable diameters in one drum
- Energy supply in all directions (horizontal, vertical, diagonal ... all possible with one chain)
- Space-saving, no intermediate cable terminations
- No lower run, the paths remain free
- Cable diameter up to .75"



e-spool on a mobile wind machine



# Increased security ...

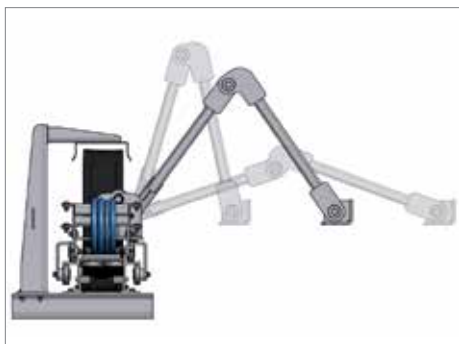
## Monitoring and more safety for long travels



### PPDS basic

Push/pull force calculation as a safety standard

- Condition monitoring systems now available for standard industrial applications



### e-rover

Power and data supply of RTG crane systems

- Compensation of lateral offsets
- For long travels up to 2,624 ft.



# guided safely

One system for safe supply of power, data and air



## Micro flizz®

**A system for the safe guidance of energy, data and air**

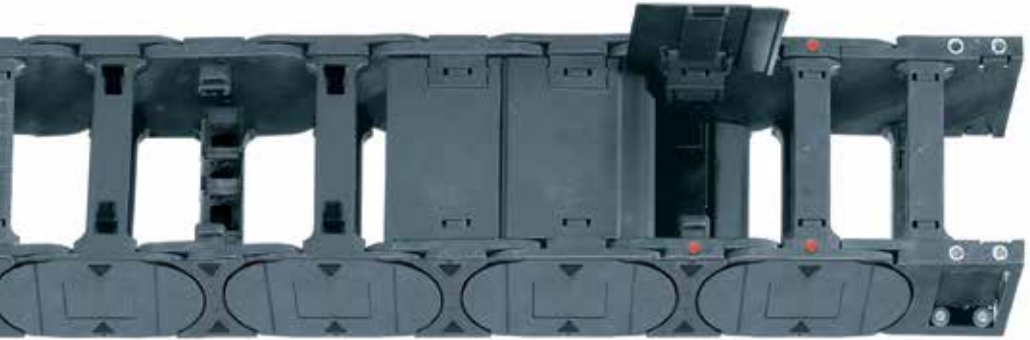
- Compact, cost-saving complete system for safe guidance of energy, data and air
- Maintenance-free alternative to busbar systems
- e-chain® is guided in special slot, no sliding against itself
- Acceleration up to  $164 \text{ ft/s}^2$  and operating speed up to  $13 \text{ ft/s}$
- Separate upper and lower runs on the flizz® e-chain®, less friction and reduced power consumption in motion
- MF10 with 1.97" inner width



Potential application areas: Storage and retrieval units, indoor cranes

# the-chain for long travels ...

## Universal kit for cranes and material handling



### E4-1 – moving energy made easy

#### Long travels, large unsupported lengths, simple installation and quiet operation

- Optimum lateral stability and high push/pull force on long travels due to the undercut design
- Ideal for side-mounted applications
- Large unsupported lengths due to stable, double stop-dog
- Noise dampening pads as additional noise-reducing option
- Outer and inner links for fast assembly
- Inner heights: .8" to 3.15"









### Heavy-Duty

#### e-chains® E4/4 Series 4040HD and 5050HD







- High stability through tongue and groove link design
- High torsional stability
- Wide gliding surfaces for low wear





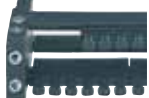



## Interior separation

					
Standard separator, wide base	Separator for QuickLock crossbar	Separator, narrow base	Asymmetrical separator	Notch separator for notch crossbar	Full-width shelf, lockable

## Mounting brackets

					
KMA with attachment capability on all sides	Mounting brackets with strain relief	Mounting brackets with profile rail option	KMA mounting brackets pivoting	KMA mounting brackets locking	Mounting bracket made of steel



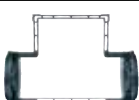



## Strain relief elements

					
Strain relief for easy fit into profile rail	Integration with KMA mounting brackets	Clip-on tiwrap plates for opening crossbars	Tiwrap plates with clip-on connection for the profile rail	Chainfix clip - Modular snap-on for the profile rail	Chainfix Nugget

## Guide troughs

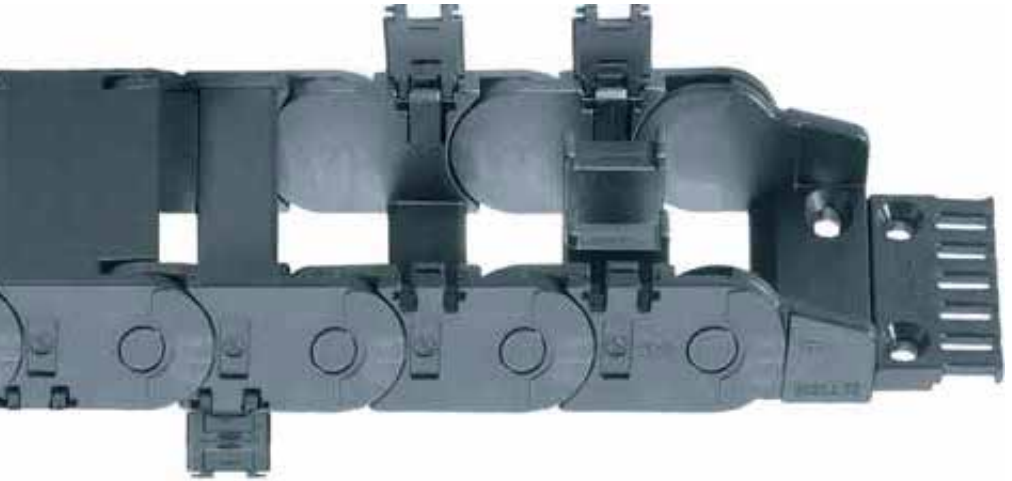
					
Aluminum "Super Trough" Basic	Aluminum "Super Trough" Heavy-Duty	Fixed end module, Aluminum "Super Trough"	Steel guide troughs	Fixed end module, steel guide trough	For support of the lower run - Support Tray Tool Kit

## More solutions

					
QuickLock crossbar	Extension links - for extremely wide e-chains	Extender crossbars for hoses applications	Hinged crossbars	SnapClip	AUTOGLIDE crossbars

# the-chain for high stability ...

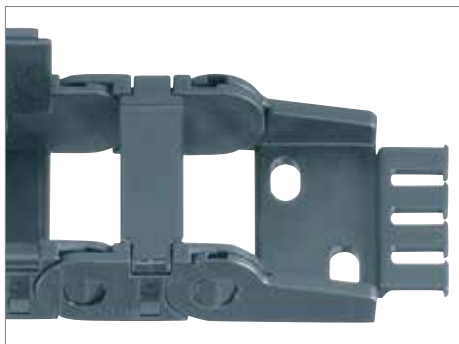
Universal kit for storage and retrieval machines



## System E2/000 – moving energy made easy

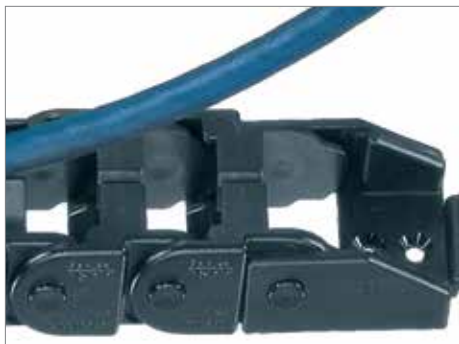
Available as e-chain®, half and fully enclosed E-Tube, combinable variations

- Open crossbar from the left or right quickly with screwdriver or the igus® e-chain® opener
- Lightning fast with thumb catch - secure fit without additional locking devices
- Excellent mechanical stability, long life due to design and material
- Easy assembly and cost-effective due to the 2-piece design
- Suitable for long gliding travels and unsupported applications
- Many accessories are available
- Inner height: .8" to 1.8" (21mm to 45 mm)



### **E2 mini – Small and medium sizes** **Perfect for short travels and unsupported applications**

- Small pitch for smooth running
- Lightweight, easy to assemble and cost-effective



### **E-Z Chain**

**Very easy to fill and cost-effective**

- Simply push in cables
- One-piece design for small installation space



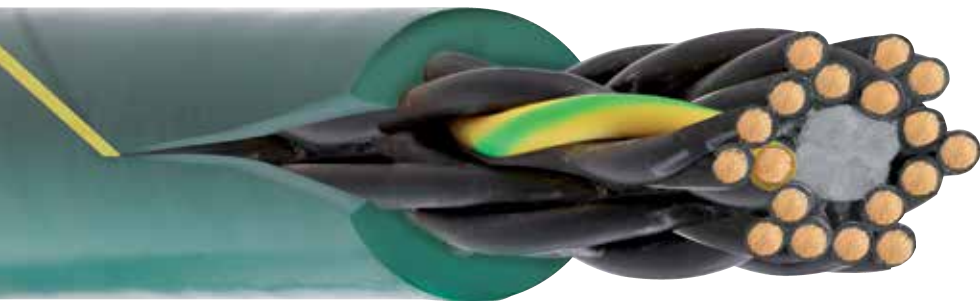
### **Zipper**

**Lightning fast opening, iF design winner**

- Zipper-like design for quick opening and closing of lids
- Zipper lids can be separated and joined at each chain link

# chainflex® cables for e-chain®

More than 1,000 cable types from stock



Over 1,000 chainflex® motion cables developed especially for use in e-chain systems®

- Wear resistant TPE, PUR and oil-resistant PVC outer jackets
- Halogen-free and/or flame-retardant materials
- Different certificates: UL, CSA, CE, DESINA, CEI
- Smallest radii up to  $4 \times d$

► [www.chainflex.com](http://www.chainflex.com)



## 7 basic rules of flexible motion cables



### chainflex® lasts... in e-chains®

chainflex® motion cables prevent cable downtimes in e-chain® applications.

1. Cabled with short pitch length
2. Optimized conductor stranding
3. Strain-relieving center element
4. High-quality conductor insulation
5. Pressure extruded inner jacket
6. Shielding with optimized braid angle
7. Abrasion-resistant pressure extruded jacket

# chainflex® motion cables for material handling

## CF111-D / CF113-D – PUR data cable



Measuring system cable for high load requirements, PUR outer jacket, shielded, resistant to oils and coolants, notch proof, flame-retardant, hydrolysis-resistant and microbe-resistant, minimum bending radius up to  $10 \times d$

## CF270-UL-D / CF27-D – PUR servo cable



Servo cable for high load requirements, PUR outer jacket, shielded, resistant to oils and coolants, notch proof, flame-retardant, hydrolysis-resistant and microbe-resistant, PVC-free/halogen-free, minimum bending radius up to  $7.5 \times d$

## CF5 / CF6 – PVC control cable



Control cable for high load requirements, PVC outer jacket, oil-resistant, flame-retardant, minimum bending radius up to  $6.8 \times d$ , with new CFRIP tear strip for quick and effective jacket stripping of long stripping lengths

## CFBUS-001 / CFBUS-045 – TPE bus cables



Profibus and ethernet/CAT5/GigE cable for maximum load requirements, TPE outer jacket, shielded, oil and bio-oil-resistant, flame-retardant, minimum bending radius up to  $10 \times d$

## CFSPECIAL-182 for increased tensile stress



Profibus-/Ethernet cables for hanging applications up to 164 ft. For increased tensile loads up to 112 lbf.

# Assembled e-chain®...

## Harnessed cables and energy supply systems



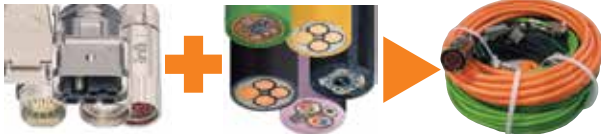
### readycable

igus® offers more than 2,000 harnesses for drive systems according to 20 different manufacturers. Professionally manufactured, 100% tested.

- Servo, power and signal-/encoder cables
- No cutting costs, no minimum order quantity, no costs for packaging
- Cable length according to customer requirements
- Smallest bending radii from 7.5 x d
- Reduce storage cost and increase cashflow



### QuickPin 2.0



QuickPin 2.0 –  
Connector-cable configurator



Service packs (from 1 piece), or  
directly harnessed according to  
customer specifications

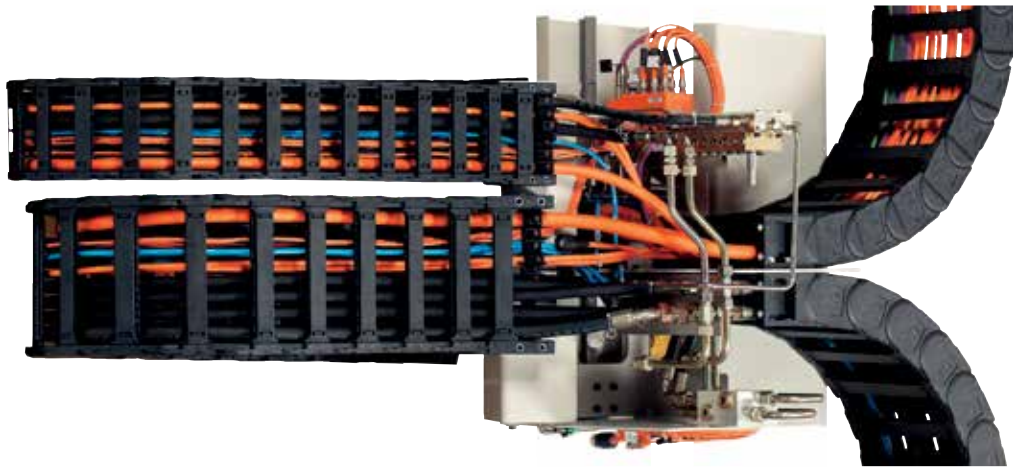


Also as molded version – with  
your individual design





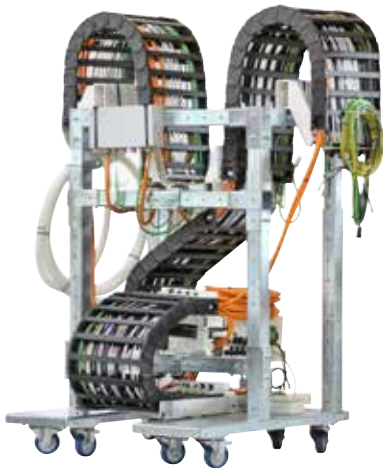
# and cables



## **readychain® – Ready-to-fit assembled systems in 3-10 days**

**Everything from a single source—directly from the manufacturer . Harnessed energy supply systems, connectors, and cables.**

- Reduce your storage costs for cables, e-chains® and connectors to zero
- Shorten turn-around times by half
- Flexible response to order fluctuations
- Reduce the number of subcontractors and related orders by 75%
- Minimize your machine downtimes
- System guarantee for your application



### **readychain® transport rack**

Assembly transport rack for harnessed energy supply systems.

# dry-tech bearings ...

## Maintenance-free bearings from igus®



### iglide® bearings

Maintenance-free and self-lubricating bearings, made from high performance plastics, and with predictable lifetimes

- Over 40 different materials
- Corrosion-resistance
- Resistant to dirt, dust and other debris
- Vibration dampening
- Low coefficient of friction
- High wear-resistance



**iglide® G300 - General purpose**  
For universal use with medium to high loads



**iglide® Q2 - High-load bearing**  
Bearing solutions for heavy-duty pivoting applications under extreme conditions

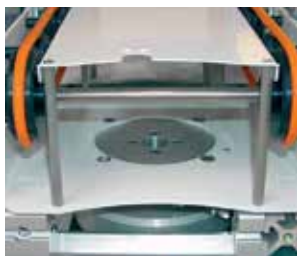
# 100% self-lubricating



## iglide® PRT - Slewing ring bearing

An economical, maintenance-free slewing ring bearing with tribo-optimized iglide® plastic sliding parts

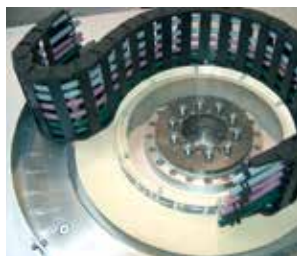
- Ready-to-install
- Robust, corrosion-resistant bearing for high loads
- Maintenance-free and self-lubricating
- For low to medium gliding speeds
- Also available with toothed outer ring



Handling and transport system for semiconductor transport box



Ready-to-install slewing ring bearing in a machine control panel



RBR circular movement with iglide® PRT and igus® RBR e-chain®

# No edge loads ...

## Maintenance-free igubal® pillow block and flange bearings



### igubal® pillow block bearings very easy-to-mount bearing elements

- Spherical feature for misalignment compensation
- High fatigue strength in varying loads



### igubal® flange bearing for the bearing of shaft ends or shaft bushings

- Low weight, for small installation space
- Available in a variety of types



Conveyor system for the food industry



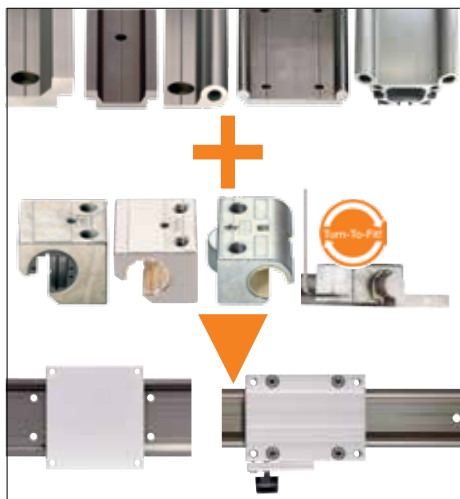
Resistant to dirt: igubal® pillow block bearings in stone processing



Cost-effective igubal® flange bearings in a rotary sorter

# Over 1,800 options

drylin® linear technology: Rolling instead of gliding



## drylin® W modular linear kit

5 sizes available from stock

- Rails: square/round, single/double shafts
- Linear housings: angular/round/flexible
- Guide carriages: short/long/ready to fit



Storage-slide unit for an automatic storage/retrieval system



Automatic product feed to a blister sealing machine



Unloading robot in pick-and-place application

# roboLink ...

roboLink: Multi-axis joint modules for low-cost robotics



roboLink Components kit to make movable robotic systems

**LIGHT:** Joint made of triboplastics

- Self-lubricating
- Low price
- Long lifetime

**COMPACT:** Multi-axis joint with 2 DOF

- Pivoting and rotating
- Freely configurable arm length through modular design

**CUSTOMIZABLE:** Freely selectable drive systems

- Connect and start
- Compact drive unit for a 4-axis articulated arm (4 DOF)
- Drive via sinews (and/or ropes) and stepper motors by igus®
- Alternative drive/control systems easily possible





# Multi-axis arm



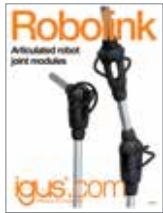
robolink joint – optional with angle sensors



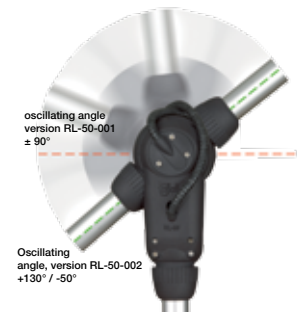
Drive units and elements



robolink connecting tubes made of aluminum, GFRP or CFRP



robolink catalog with detailed information



Changed operating area of the oscillating movement of robolink joint



robolink drive wheel with adjustable tension



robolink drive unit for a 5 DOF articulated arm

# Research and development

29,600 ft<sup>2</sup> lab ... 15,000 tests ... 1,000 datasets on service life of



**Quality assurance:** Continuous batch testing to ensure the quality level



**Special design:** for special solutions

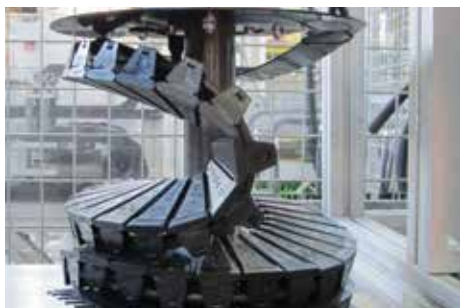
chains and cables created every year



**Strength test:** calculation of the maximum unsupported length



**Media test:** Test of durability of chemical interferences in motion



**Rotation tests:** ambitious chain applications with small radii



**Frost test:** Cables and e-chains® at -40°F

# igus® Services ...

## Installation service and online tools ...



Get an accurate assembly and avoid machine downtime and extra costs – with the igus® e-chain system® installation service

- Products and services from one source – less logistical hassle for you
- igus® system guarantee

► [www.igus.com/installation](http://www.igus.com/installation)



### igus® catalog product range

Order igus® catalogs online at:  
[www.igus.com/catalog](http://www.igus.com/catalog)



### Online shop

Visit [www.igus.com](http://www.igus.com). There you can find our whole product range. Order around the clock.



### Shipped from stock in 24h

Orders typically leave igus® within 24 hours. On request we can deliver via express or special delivery.



### Ordering times

Monday to Friday 8:00 a.m. - 8:00 p.m.



### Any questions?

For questions and more information call us or use our online tools on [www.igus.com](http://www.igus.com)



### Hotline

Phone: 800.521.2747  
Fax: 401.438.7270






### Free samples



Order your free sample of any igus® product online at  
[www.igus.com/samples](http://www.igus.com/samples)





# Online tools

## Easy to use!

-  e-chain systems®
-  igubal® spherical bearings
-  Special igus® products

-  chainflex® cables
-  drylin® linear bearings

-  iglide® bearings
-  xiros® ball bearings

## Locate



**QuickChain.100**  
Design & calculation

► [www.igus.com/quickchain100](http://www.igus.com/quickchain100)



**the-chain:** e-chains® and cables for moving applications

► [www.igus.com/the-chain](http://www.igus.com/the-chain)



**QuickBearing**  
Product finder for iglide® plain bearings

► [www.igus.com/iglidefinder](http://www.igus.com/iglidefinder)



**QuickBearing**  
Product finder for igubal® spherical bearings

► [www.igus.com/igubalfinder](http://www.igus.com/igubalfinder)



**QuickLin**  
Product finder for electrical linear axes

► [www.igus.com/drylinEfinder](http://www.igus.com/drylinEfinder)



**QuickChain.13**  
Product finder up to 42 ft. travels

► [www.igus.com/quickchain13](http://www.igus.com/quickchain13)



**QuickCable**  
Product finder for chainflex® cables

► [www.igus.com/chainflexfinder](http://www.igus.com/chainflexfinder)



**QuickBearingCustom**  
Material finder and required dimension

► [www.igus.com/barstockfinder](http://www.igus.com/barstockfinder)



**QuickLin**  
Product finder for drive technology

► [www.igus.com/drylinfinder](http://www.igus.com/drylinfinder)



**QuickSpecial**  
Customized bearings parts

► [www.igus.com/speedigus](http://www.igus.com/speedigus)



**QuickChain.60**  
Product finder for 33-196 ft. travels

► [www.igus.com/quickchain60](http://www.igus.com/quickchain60)



**QuickReady**  
Drive cables per manufacturer standards

► [www.igus.com/readycablefinder](http://www.igus.com/readycablefinder)



**QuickBearing**  
Product finder for piston rings

► [www.igus.com/pistonringfinder](http://www.igus.com/pistonringfinder)



**QuickLin**  
Product finder for screw drives

► [www.igus.com/screwdrivesfinder](http://www.igus.com/screwdrivesfinder)

## Calculate and configure



**QuickLifeChain**  
Lifetime of e-chains®

► [www.igus.com/ecs-expert](http://www.igus.com/ecs-expert)



**QuickLifeCable**  
Lifetime of chainflex® cables

► [www.igus.com/cf-expert](http://www.igus.com/cf-expert)



**QuickFluid**  
Configurator for hoses

► [www.igus.com/quickfluid](http://www.igus.com/quickfluid)



**QuickLife**  
Lifetime of xiros® ball bearings

► [www.igus.com/xiros-expert](http://www.igus.com/xiros-expert)



**QuickLifeLin**  
Lifetime of drylin® linear bearings

► [www.igus.com/drylin-expert](http://www.igus.com/drylin-expert)



**QuickFillChain**  
Automatically filling

► [www.igus.com/quickfill](http://www.igus.com/quickfill)



**QuickConfigCable**  
Configuring of desired cables

► [www.igus.com/customcable](http://www.igus.com/customcable)



**QuickLifeBearing**  
Lifetime of iglide® stock bars

► [www.igus.com/barstockexpert](http://www.igus.com/barstockexpert)



**QuickLifeBearing**  
Lifetime of igubal® spherical bearings

► [www.igus.com/igubal-expert](http://www.igus.com/igubal-expert)



**QuickRobot**  
Equipment support for robots

► [www.igus.com/quickrobot](http://www.igus.com/quickrobot)



**QuickPin 2.0**  
Connector-cable configurator

► [www.igus.com/quickpin](http://www.igus.com/quickpin)



**QuickLifeBearing**  
Lifetime of iglide® plain bearings

► [www.igus.com/iglide-expert](http://www.igus.com/iglide-expert)



**QuickConfig**  
robolink® configurator

► [www.igus.com/robolinkconfig](http://www.igus.com/robolinkconfig)

# Application examples ...

## Examples for successful applications with igus® products –



With cost-effective igus® guidelok slimline “F” safe vertical guiding



Existing applications could be retrofit



Long unsupported travels, perfect for telescope cranes or floor conveyors



P4-56: igus® outdoor testing - travel length 394 ft.



e-chains® in medium size storage and retrieval machines



Perfect for outdoor applications: chainflex®



more online: [www.igus.com/MaterialHandling](http://www.igus.com/MaterialHandling)



Abrasion-free due to special materials



Chain for sensitive surfaces with drylin® W linear guide system



drylin® W in high-rack facilities – Application: Lift axis



drylin® test station for the eddy-current crack test of components for the automobile industry



iglide® bearings also for high loads



No abrasion, no corrosion, long service life with igubal®

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# 9001:2008

igus® is certified in accordance with ISO 9001:2008 and ISO/TS 16949:2009 in the field of energy supply systems, cables and harnessing, as well as plastic bearings.



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