

## JISigus Middle East FZE

JISigus Middle East FZE is an exclusive Promoter for igus GmbH (Germany), world's most prominent manufacturer of innovative polymer engineering products for all kind of industries, starting from a small workshop to the most complex industry segments such as

Steel mills, Indoor & Outdoor Cranes, Oil & Gas, Building material manufacturing, Offshore, Ports & Marine, Bulk material handling, Mining, Power Plants, Aviation, Cement industries, Machine Tools, Robotics, Sewage treatment plants, Medical, Food & Packaging industries etc.

JISigus Middle East FZE aims to provide a complete turnkey & integrated solution relating to any of your Cable management solution requirements, starting from the application study, design, selection, drawings to the final turnkey installation & trial phase.

igus product lines are as below-

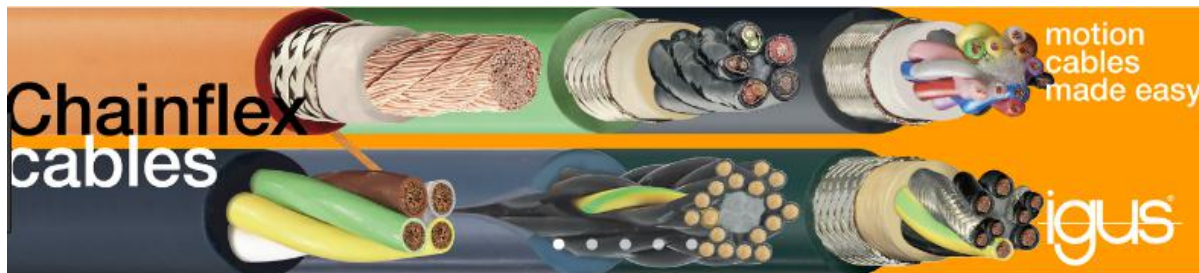
### E-chain, Cable Carrier, Drag Chain-



Drag Chains, Cable carriers, Energy chain systems are used for guidance and protection for moving cables in various machines and equipment's. They are effectively guiding and protecting the moving cables, hoses and other media. These cable carriers have multitude of possibilities in terms of movement or travel strokes possible. Energy chains or drag chains accommodate very high dynamic loads and meet stringent service life along with all requisite safety considerations and certifications.

## High flexible electrical Cables-

Complete range of Flexible/Dynamic Cables like- Power, Control, Data, Signal etc...



The chainflex® cables are cables mainly for moving applications in energy chains/Cable Carriers or for robotic torsional applications.

The chainflex® cables meet the requirements for EMC safety as well as the standards and guidelines such as UL, CSA, VDE, EAC, CTP, Interbus and Profibus. Various jacket materials are available(PUR,PVC,TPE etc..)

The product range includes everything from control cables, servo cables, motor cables and robot cables to bus cables, data cables, encoder cables and fibre optic cables. The chainflex® cables for energy chains work flawlessly over long periods even with many cycles, high speeds and accelerations as well as very extreme ambient conditions.

## Harnessed Cables/Cable with connectors-



**More than 4,200 drive cables. 24 manufacturer standards**

In 7 cable qualities + service life calculable online

**100% testing thanks to industrial harnessing**

The world's No. 1 when it comes to ready-to-connect drive cables for use in energy chains



ReadyCable® harnessed cables are ready-to-connect cables for use in various machines and equipment. The portfolio includes an extensive range of catalogue products, including cables harnessed according to manufacturers' standards and diverse industrial standards as well as individual singly or series produced components. Numerous types of cable of different qualities, with different approvals and with different certifications of conformity are available to choose from. All components are subjected to extensive quality checks and functional tests.

## Maintenance-free iglidur® plain polymer bearings-



These plain bearings are used for rotary, linear & oscillatory applications. Raising service life with no lubrication and a reduction in maintenance work, everything delivered immediately from stock - that is the core idea and the objective of all iglidur® polymer plain bearings.

The igus® plain bearings range includes sleeve bearings, flange bearings, thrust washers, piston rings, clip-on plain bearings and many other designs. iglidur® plain bearings always offer a solution – either from the catalogue range or as custom-made plain bearing special solution. No minimum quantity!

igidur® bearings are suitable for all moving applications - from automotive mass production and special mechanical engineering, from underwater applications to the food or tobacco industry, for resistance to extreme temperatures and chemicals and for simple sheet-metal bushings.

## igubal spherical bearings-

### Self-aligning and maintenance-free spherical bearings



igubal® spherical bearings are self-aligning bearings which are maintenance free and have high resistance to dirt and dust. These spherical bearings are low weight, corrosion resistant as well as lubrication free. igubal® spherical bearings are best solutions for nearly all types of applications.

igubal® self-aligning spherical bearings are used in wide range of industries, some examples : automotive, bicycles and utility vehicles, solar technology, food and medical industry, packaging and textile industry etc.

## drylin® linear guides-



### **Gliding instead of rolling – low noise, clean and lubrication-free**

The product ranges of lubrication-free drylin® linear guides, Shafts and Linear Bearings. drylin® linear guides traverse in dry operation and are thereby maintenance-free and are insensitive to influences such as dirt, water, chemicals, heat or impacts.

In addition, they have a very low noise because of the materials used and the special design. With these properties, drylin® linear guides can be used in a wide variety of environments, including extreme ones. The modular system allows for high flexibility with different rail guides and pillow blocks.

## Drylin Drive Technology- Linear Guide Systems



## Leadscrew technology drylin®



The drylin® lead screw technology as well as the lead screws and lead screw nuts with dryspin® technology are based on the principle of lubrication-free linear technology.

For the completely lubrication-free use, stainless-steel or hard anodised aluminium lead screws are combined with high-performance polymers from the proven iglidur® product range. The dirt resistance and the silent operation of the materials used for the lead screw offers a variety of possible applications under various conditions.

## iglidur® PRT - polymer slewing ring bearing-

### Polymer slewing ring bearing



iglidur® PRT is a slewing ring bearing with the proven advantages of the igus® polymer bearings. The sliding elements made of iglidur® J operate absolutely maintenance and lubrication free. The mating rings of the slewing bearing are made of aluminium or stainless steel; the mating surfaces of iglidur® J sliding elements are hard-anodised. All fastening screws are made of stainless steel.

## Ball Bearings:-



xiros® polymer ball bearings are often a better alternative to ball bearings made of metal, because they are lighter and more affordable and at the same time have a long service life. Thanks to their lubricant-free and maintenance-free operation, they can be successfully used in numerous applications. In many non-standard solutions, metal ball bearings run up against their limits and are replaced by ball bearings made of plastic.



## Modular parts and Systems for Robotics: Robolink & parts-



The robolink® modular robotic system allows you to automate manual work steps quickly and easily. Articulated arms in various lengths and sizes are available.

The number of lubrication-free joints used ranges from two to six, and the robot can be equipped with various tools (e.g., grippers, suction cup, camera, etc.) as desired. robolink® robot components are characterised by their modularity.

As a modular system, a robot arm can be configured as desired and therefore economically, and moreover it is also possible to obtain ready-to-use complete systems.

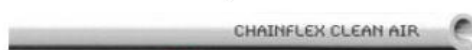
## Pneumatic Hoses: -

### chainflex® pneumatic hoses - product overview

#### CF.Air - pneumatic hose



#### CF.CleanAir - pneumatic hose



chainflex® pneumatic hoses for energy chains are hoses for heavy duty use. The pneumatic hoses are tested in e-chains® with many million cycles. The PU or PE pneumatic hoses are abrasion, oil and coolant resistant as well as halogen free.

The chainflex® pneumatic hoses have external tolerances. chainflex® pneumatic hoses can even be used at high speeds and rapid accelerations as well as in cleanrooms and vacuums.



## igus / Application video links-

igus Youtube - <https://www.youtube.com/user/igusDE>

Plastics in Motion - igus® Image Film - <https://www.youtube.com/watch?v=KLSOoj3Y7WY>

igus India Plastics for longer life- <https://www.youtube.com/watch?v=okoBIYKAAK4>

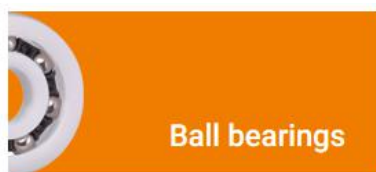
igus German test lab- <https://www.youtube.com/watch?v=iqB5IWGTTrDE>

Application ref- <https://www.youtube.com/watch?v=Yt1k0wrgD28>

igus port & crane ref- <https://www.youtube.com/watch?v=7nv2HS-als0>

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# High-performance polymers for motion



Why igus®  
motion  
plastics®?



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life



Improve  
technology ...  
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200,000  
customers from 60  
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Ready to ship in as  
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No minimum order  
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## JISigus Middle East FZE– Exclusive promoter for igus GmbH products in Middle East

Mit freundlichen Grüßen / Kind Regards,

Kiran.Kurian  
Technical Sales Head- Middle East

JISigus Middle East FZE  
FF07, Jebel Ali Free Zone  
PO Box- 17483  
Dubai, United Arab Emirates

Mobile: +971 50 913 9789

Tel. : +971 4222 1185

Fax. : +971 4222 1186

Mail: [kiran@jisigus.com](mailto:kiran@jisigus.com)  
[www.jisigus.com](http://www.jisigus.com)

igus HQ address- igus® GmbH, Spicher Str. 1a, 51147 Köln, AG Köln, HRB 27158, <https://www.igus.de>

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