

# 8 Benefits

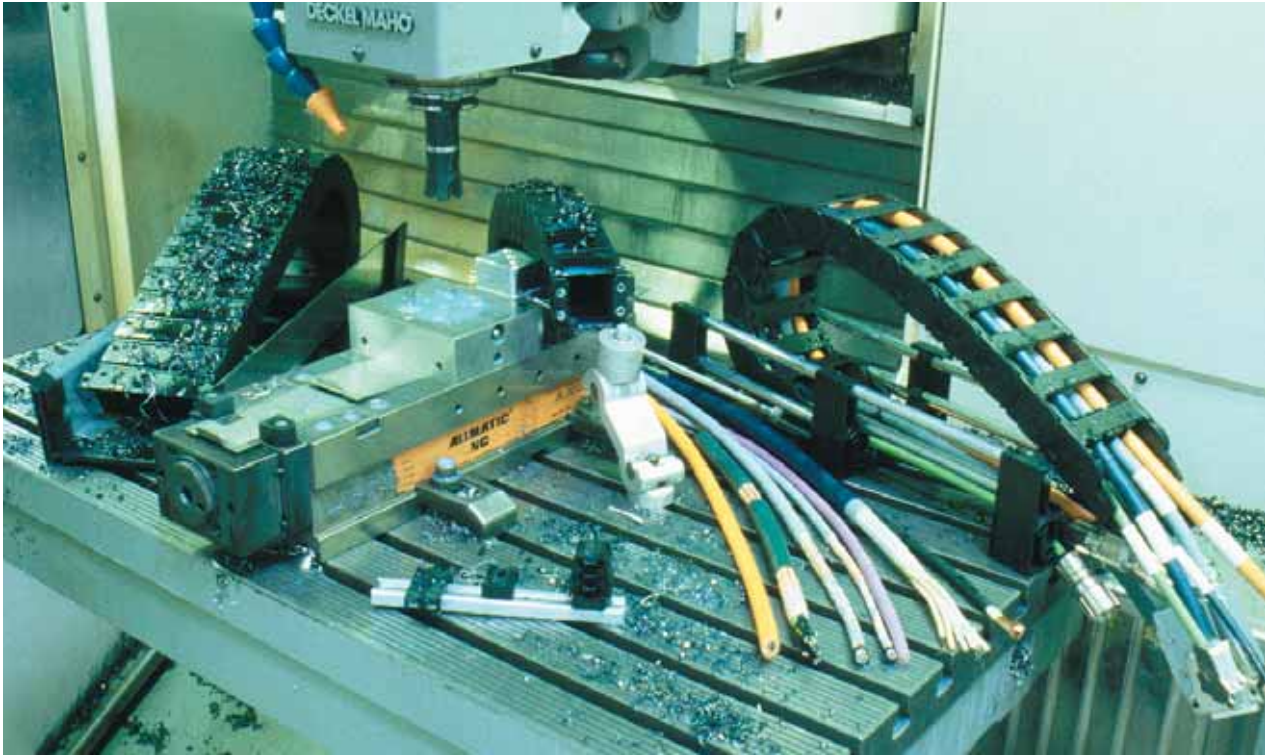
For Machine Tool Manufacturers



igus<sup>®</sup>

Energy Chain Systems<sup>®</sup>

igus® Energy Chain Systems® aim is twofold: Your automated system must run nonstop! - worldwide!



Energy Chain Systems® are the lifeline of any modern machine.

They conduct energy, data and are constantly on the move. Our goal is to offer you all components as a system and guarantee that these components function correctly.



igus® Energy Chain Systems® save time and money in purchasing and assembly.

In order to achieve this, we offer:

- Innovative, easily installed, and cost-effective products
- Over 28,000 products available from stock to suit all your design needs
- Fast, experienced, and helpful engineering support
- The industries first "complete system", all-inclusive guarantee
- Fast delivery, usually from stock

## 8 benefits for machine tool manufacturers

### 1 Diversity: The right product for every application

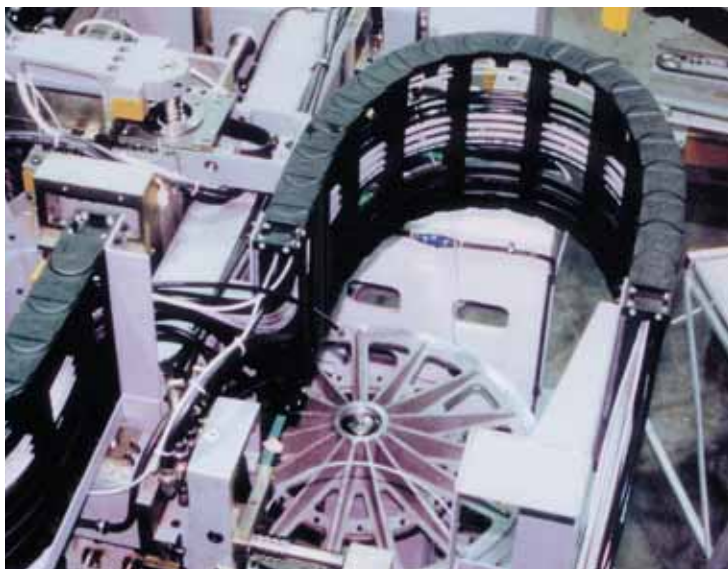
igus® Energy Chain Systems® are tested under real-life conditions for all applications in igus' own test labs.

#### Example: Cost Efficiency

Energy Chains assembled on the side (turned by 90°) cut cost, because 2 axis can be realized with 1 carrier.

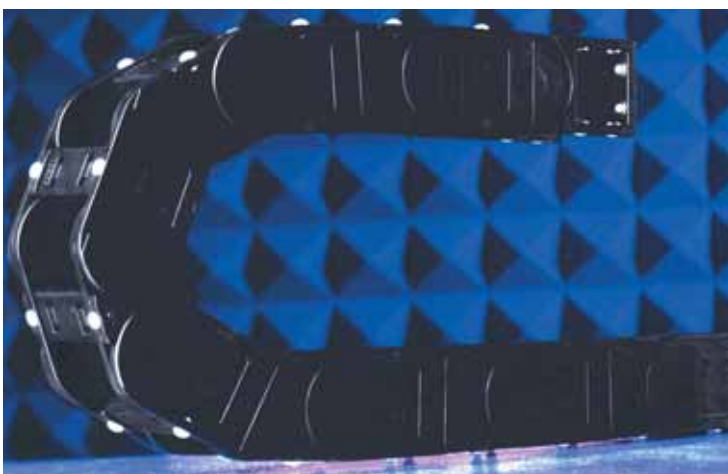
#### Example: Stability

Vertically hanging and standing Energy Chains can be attached universally with locking "KMA" mounting brackets. A strain relief for cables and hoses can be integrated through an integral profile rail and igus Chainfix® strain relief clamps.



#### Example: Low-noise design

The new E4/101 Energy Chain series is the quietest on the market. Dampening elements on the outside of the chain links make the E4/101 a full 12dB quieter than our conventional Energy Chains.



#### Example: Multi-axial movements

New Triflex® Energy Chains® with E-Z Chain® fast and easy insertion of hoses and cables for complex multi-axial movements. It is possible to implement three-dimensional applications with only one Energy Chain®.



## 8 benefits for machine tool manufacturers



### 2 Repels chips and extends service life

R100 - The new, money-saving Energy Tube line was developed specifically for maximum protection of cables. Covered pins and a smooth exterior effectively prevent chips from lodging in place. These characteristics extend the service life of the system and save you money on replacement cables.



Small pitch

KMA mounting brackets

### 3 Quiet operation

E2 - Series 68 Energy Tubes, feature chain links with a very small pitch. This reduced length of the links allows for a rounder radius, which when combined with a specially designed stop dog produces less vibration and quieter movement. The E4/100 Series is available in both Energy Chain® and Energy Tube and is ideal for machines with linear motors or high performance recirculating ball screw drives.



### 4 Fast installation

E-Z Chain® allows cables and hoses to be pressed easily into the Energy Chain through overlapping links on either the inner or outer radius. This easy access saves time and money in installation and service.

igus Energy Chain and Tubes can be opened, closed, and adjusted quick and easily with only a screwdriver.

## 8 benefits for machine tool manufacturers

### 5 Certified safety standards

The igus® product line currently includes over 500 types of Chainflex® cable. All products are CE-compliant and available from stock. In addition, many varieties of Chainflex® comply with the UL, CE, CSA and CIE Standards.



### 6 Harnessed systems save money

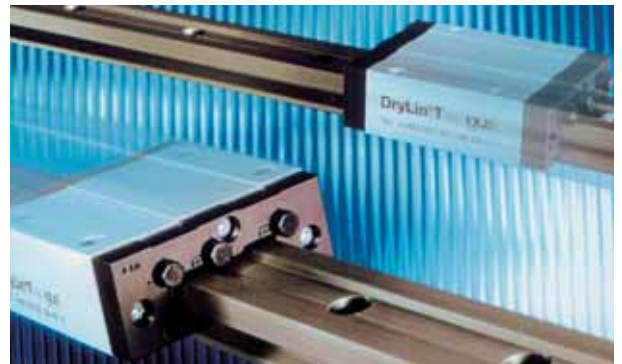
Energy Chain Systems® are available in many sizes, designs, and price ranges, with or without connectors.

As a ready to install system, you simply attach the E-Chain and insert the connectors. However, if you only need cables for your drive system, we can supply assembled Chainflex cable sets for your Energy Chain. For more information on Chainflex cables, you can refer to Section 9 of our Energy Chain Systems catalog or go to [www.igus.com](http://www.igus.com).



### 7 Maintenance-free

igus® Energy Chain Systems® are maintenance-free. DryLin® R & T, linear guides are designed for maintenance-free, lubricant-free operation. Since they are resistant to dirt, chips and coolants, they are ideal for use with machine tools. Furthermore, the fact that they are lightweight and inexpensive make igus line of products especially attractive.



### 8 Saves money

- Quick delivery from stock saves warehouse space and limits inventory costs
- Easily installed Energy Chain Systems save time and money
- Over 28,000 product options in stock save on design time and cost

