

## High loads, long distances

News from igus at the TOC Europe in Hamburg

**In crane construction, operational safety requirements are extremely demanding on account of the very long distances involved. Expensive downtimes must be avoided. If a ship has to remain in the port longer than necessary due to technical problems with the crane equipment, this is expensive for ship owners and terminal operators among others. Energy chain systems play a very important role here, when power is to be routed to the moving parts. Because they ensure that energy and data transmission work over hundreds of metres.**

### **New: Quite profiled roller chain for long distances**

At the moment, there are more than 1,000 systems with conventional roller energy chains in permanent use all over the world. And the requirements made by industry on length of travel, filling weight and travel speeds are becoming more demanding all the time. For this reason, Cologne-based igus launching a completely new energy chain series called "P4" at the TOC Europe (Hamburg). This is a profiled roller chain for very long travel distances which is extremely quiet at speeds of up to 10 m/s. Special design features: first of all, the rollers of the new P4 series are divided into profiles in the centre, which allows them to roll on one level. Secondly, the pitch length of the chain links with and without roller is now identical, which means the energy chain achieves particularly smooth and vibration-free movement in the radius. The rollers are firmly integrated in the sides of the energy chain.

### **New: Highly loadable energy chain "4040 Heavy Duty"**

Its "big sister" - the energy chain "5050 Heavy Duty" is already in operation worldwide. The energy chain series "4040" - from the igus system E4/4 and with an inner height of 56 mm - is now available. It is an extremely robust "Heavy Duty" (HD)

version, designed for higher load weights and longer travels. Potential application fields include crane technology, but also opencast mining, power stations, steelworks, conveyor technology and mechanical engineering. "4040 HD" has side walls 9mm thicker than the standard version. The tensile strength of this more powerful version is about 20 % higher. The pin-boring surface has been increased by about 140 %. E4/4 "4040" HD is now available with and without rollers.

### **System partner of crane manufacturers and users**

Energy chain specialist igus can already look back on 15 years of testing experience in its own laboratory and more than eight years of experience of crane applications including cables designed for maximum voltages and capacities. As a system partner for crane manufacturers and users all over the world, completely harnessed energy chain systems are almost always used in the meantime (so-called "Ready Chains"). Theo Diehl, Product Manager for energy chain systems for cranes and material handling: "The customer benefits from this in more ways than one: The system is delivered complete to the site, saving a lot of mounting time and excluding mounting faults to a major extent."



Picture PM0506-01: igus GmbH, Cologne

Crane construction: New profiled roller chain "P4" from igus for smooth, vibration-free running.

## igus - press release

"Furthermore," says Diehl, "we offer to carry out an acceptance test on the system before it is put into operation and to check over the installation again - if it should have been carried out by the crane manufacturer instead of by ourselves."



**Picture PM0506-02: igus GmbH, Cologne**

*The new energy chain series "4040 Heavy Duty" is particularly compact.*



**Picture PM0506-03: igus GmbH, Cologne**

*STS cranes in Antwerp with igus energy chain system for energy and data supplies to centenary and main trolley.*

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