

igus polymers provide high machine reliability at low cost

igus, the plastics expert presents a new tribo-tape and other new products for the machine tool industry

Pricing pressure is increasing in the machine tool industry in order to keep pace with international competitors. Therefore, it is necessary for manufacturers to be able to use high-quality and reliable components at a low cost. igus offers products for machine tools that are high quality and also cost effective. The tribo-tape made of a new material, the lubricant-free polymer slewing ring bearing with individually adjustable swivel angle, or the new chip-proof R2.75 energy tube.

"Save money – safe quality": This igus slogan symbolises the provision of reliability in conjunction with cost savings to the customer. Thus product and process costings for machine tool manufacturers should be reduced without compromising on quality. A novelty is the tribo-tape made of the material iglidur V400. The liner is now available in a more wear-resistant material. This withstands temperatures of up to 200°C, is extremely resistant to media and easy to bond. An example of this would be in machine beds; the iglidur tribo-tape provides great freedom in the construction of gliding surfaces.

Protection against chips, dirt and dust – the chip-proof R2.75 energy tube with snap-open lids on both sides

Constructed on the basis of the cost efficient E2 principle (two parts per chain link) made of tribologically optimised plastics, the energy tube of the R2 series also provides, in addition to the advantages of freedom from lubricants and maintenance, protection against external dirt accumulation and flying chips. The contours of the lid are smooth and its curvature and narrow manufacturing tolerances guarantee that there is no accumulation of chips between the stop dogs. At the same time the two-side flip-open lid saves assembly time, since they need not be completely removed to equip the energy tube with cables. Due to the double stop dogs the R2.75 energy tube can absorb high additional loads and handle even long unsupported lengths. The integrated grid also

ensures a firm hold of the interior separation, even in side-mounted applications. All cables are effectively protected from abrasion and wear by smooth interiors and modular partitioning systems using snap-on separators.

Ready to install iglidur PRT slewing ring bearings with individually adjustable swivel angle

The ready to install iglidur PRT slewing ring bearings, widely used in the pivoting arms of control panels and screens of machine tools, are now available with individually adjustable angle stop. The angle range is freely selectable and adjustable in increments of 2°. If a subsequent adjustment of the angle is necessary during operation, this can be easily performed by manually converting the stop dogs. The conversion of the variable twist limitation does not require anything more than the manual loosening and shifting of stop dogs and pins. Plastic gliding elements made from the proven igus material iglidur J are used in the slewing ring bearings, so that any external lubrication and maintenance can be fully dispensed with, avoiding machine downtimes. The ruggedness against chips, dirt or dust is increased, since there is no oil or grease for adhesion. For a low-friction operation, the counter-running surfaces of the polymer gliding elements are hard anodised. In addition to the ready to install standard slewing ring bearings, slewing ring bearings can be universally installed by means of special universal gliding elements made of iglidur J; by joining together individual parts, slewing ring systems can be manufactured from an inner diameter of 500 mm to virtually infinite, as desired. The slewing ring bearing with a diameter of one metre constructed on the basis of these gliding elements, depending on the version, can be loaded with up to ten tonnes.

Captions:



Image PM3514-1

The iglidur tribo-tape for machine guides made of the iglidur V400 material is extremely wear-resistant and withstands temperatures up to 200°C continuously. (Source: igus GmbH)



Image PM3514-2

The chip-proof R2.75 energy tube has snap-open lid on both sides, whereby the installation time is reduced. (Source: igus GmbH)

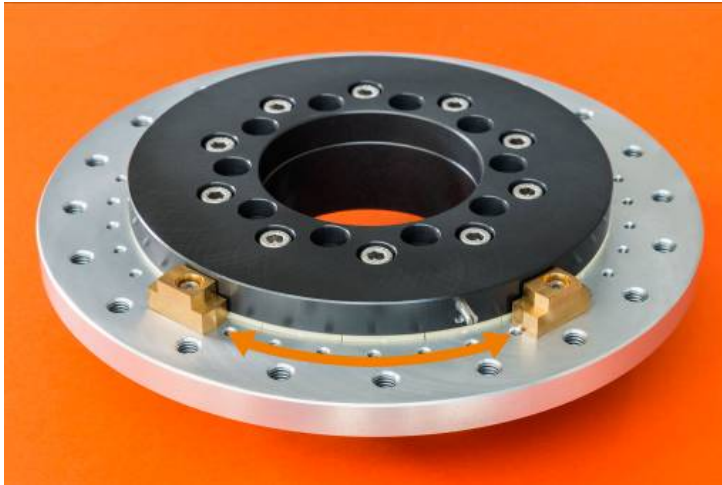


Image PM3514-3

The ready to install iglidur PRT slewing ring bearings are now available with individually adjustable angle stops. (Source: igus GmbH)

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ABOUT IGUS:

igus GmbH is a globally leading manufacturer of energy chain systems and polymer plain bearings. The Cologne-based family business has offices in 35 countries and employs around 2,400 people around the world. In 2013, igus generated a turnover of 427 million euros with motion plastics, plastic components for moving applications. igus operates the largest test laboratories and factories in its sector to offer customers quick turnaround times on innovative products and solutions tailored to their needs.

The terms 'igus, e-ketten, e-kettensysteme, chainflex, readycable, easychain, e-chain, e-chainsystems, energy chain, energy chain system, flizz, readychain, robolink, pikchain, triflex, twisterchain, invis, drylin, iglidur, igubal, xiros, xirodur, plastics for longer life, CFRIP, dryspin, manus and vector' are protected by trademark laws in the Federal Republic of Germany and internationally, where applicable.