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Euro-Tech Corporation to Highlight New German-Engineered Clamping Sleeves

Menomonee Falls, WI . . . Euro-Tech Corporation will spotlight Kostyrka German-engineered clamping sleeves at IMTS – The International Manufacturing Technology Show 2010, being held at Chicago's McCormick Place September 13-18. Euro-Tech Corporation is in Booth #W-2453, which is located in the Tooling & Workholding Systems Pavilion in the West Building.

Made to order for each application, Kostyrka slotted clamping sleeve technology is based on the idea of creating a shaft-hub joint actuated by hydraulic pressure to efficiently support the workholding function of modern machine tools.

Flexible metal plastic composite bushes in housings surround the part and clamp it by applying pressure oil to the sleeve jacket. The oil pressure is converted loss- and reaction-free into a radially acting clamping force. The sleeves spring back to their starting position after the oil pressure is removed and the clamped part is released. The surfaces of the clamped parts are not damaged with this adherence-actuated form of power transmission..

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Precision and longevity of the Kostyrka clamping sleeves are a prerequisite for smooth, continuous manufacturing. Users can depend on reliable operation day after day and year after year. The part being clamped can withstand a holding force in excess of 22,000 lb-ft. with only negligible axial movement.

The clamping sleeve's main body consists of a copper/tin, copper/tin/zinc or a copper aluminum alloy. Sleeves subjected to high stress may be made from case hardened steel or spring steel. The plastic jacket with a double-sided O-ring/back-up ring combination is manufactured from PA or POM and is resistant to mineral oils, brake fluid and low-flammability hydraulic fluids (up to 100°C). The working pressure is 50-450 bar (700-6,500 psi). General tolerances are: outer diameter $D = g6$, inner diameter $d = H7$, Length $L = -0.1\text{mm}$ (-0.004 in.). Seals of the sleeves are resistant in the temperature range of -30°C to +110°C.

Special versions are for higher operating temperatures and working pressures outside the standard of 50-450 bar (700-6,500 psi) range. Special tolerances are possible. For high temperature applications sleeve seals will use VITON® O-rings.

Euro-Tech Corporation

Since 1993, Euro-Tech Corporation has represented unique European-made gages, tooling products such as arbors, chucks, drills, taps, measurement systems and accessories. Euro-Tech also offers the state-of-the-art PG 1000 Cutting Tool Inspection System and the Pinhead Flexible Fixturing Systems for CMMs. Both are manufactured in the U.S. .

Euro-Tech products are used to make manufacturers in the automotive, aerospace, small engine, medical and wind power industries more productive. The company is headquartered in Menomonee Falls, WI where a highly skilled team is committed to the continuous development of state-of-the-art solutions.

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