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Press information

Top quality and outstanding precision meet extreme durability: the brand-new MITUTOYO Linear Scales

The new Linear Scales made by MITUTOYO for position detection in CNC machine tools and measuring machines count amongst the most precise, robust and durable on the market. Now the premium manufacturer adds three new models to the product portfolio.

Neuss, March 2017. The highly precise, robust and durable Linear Scales are employed wherever extreme accuracy is first priority – for instance in high-accuracy measuring machines and devices as well as in NC machine tools. The portfolio comprises models with incremental position detection method as well as ABSOLUTE capacitive-type scales. The latter detect and display the absolute position in relation to a fix reference point, rendering zero-setting unnecessary. Now Mitutoyo expand their product program by three newly developed models.

The new exposed type ABS ST1300 is specially suited for automation that involves large travelling distances. It boasts outstanding performance at compact design. Depending upon the NC controller, it reaches a maximum feed speed of up to 8 m/s at a maximum effective range of enormous 12 metres. The resolution amounts to as low as one nanometre. At 20°C the ABS ST1300 stands out with an accuracy of 10 µm. These Absolute Linear Scales work with optical position detection, making them impervious to oil and dust. The ABS ST1300 is compatible with Fanuc, Mitsubishi, Yaskawa and Panasonic NC systems.

The special design of the new compact type incremental Linear Scale ST46-EZA qualifies it for the use in especially narrow spaces in special machines or test benches. It comes either as a metal band scale or a reflective glass type in four or two measuring range, respectively. Depending upon the variant, the resolution reaches values up to 0,05 µm. It applies a RS 422/2Vpp output signal for a fast controller connection.

High-speed machining centres like lathes or grinding machines are where the new sealed Absolute Linear Scale AT500 is employed – now featuring a Siemens DRIVE-CLiQ interface. The highly solid S series impresses with a shock resistance of up to 35g and a vibration resistance of up to 20g. The highly precise H series offers – owing to its temperature compensation – a brilliant accuracy $2+2L/1000(\mu\text{m})$. The customer has the choice of a resolution of 1 or 10 nanometres. Its drive speed of up to 2,5 m/s makes it one of the fastest sealed systems on the market.

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