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Evolutionary innovation

Higher precision, lower friction and more dynamic motion: INOCON is introducing new precision double tube linear units in many different variants to allow for a seamless upgrade from current linear units.

Friction and roller bearing versions

The new precision double tube linear unit PD is backed by a comprehensive system that combines numerous variants with regard to tube diameter, travel distances, spindle direction, guide element size and materials. The guide element is moved by a trapezoidal or fine thread spindle or a recirculating ball screw. It can make use of quadruple friction bearings or – for even greater precision – roller bearings with linear bushes.

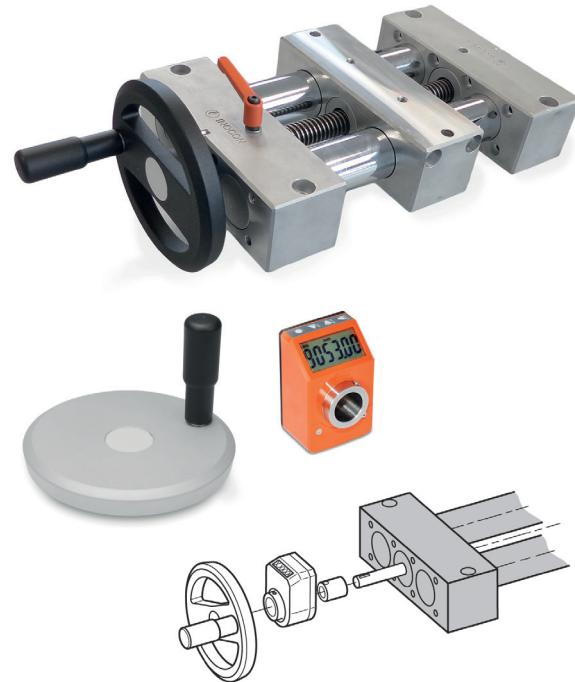
All newly developed versions enable kinematics with considerably reduced maintenance requirements and higher repeatable precision. The movement forces required are also reliably low, even under load.

New spreading mechanism replaces clamping slits

Instead of using a clamping slit, the end caps and the two guide tubes are fastened with an elegant internal spreading mechanism to ensure precise spacing and parallel alignment. Coupled with the adjustment range of the guide element with friction bearing, this results in minimal play and enables applications with high precision requirements. If necessary, the spindle can be secured against unintended turning with an integrated clamp. All linear units can be ordered in the material combinations of aluminum/steel and aluminum/stainless steel plus an entirely stainless steel version.

Backwards-compatible and ready for the future

Because the new precision double tube linear units PD are an evolutionary improvement over established types, they can easily be used as replacements for the other models, which are still included in Inocon's product range.



Precision double tube linear unit PD - Accessories

Accessories adapted to standard

The shaft end of the spindle can be present on one or both sides. The shaft length is based on the respective features – with hand wheels, position indicators or combinations of both elements. The adaptation of angle gears and transmission units is also provided for; both are available separately as standard accessories. Bellows for protection of the guide tubes and the spindle, connecting plates and additional following guide elements further expand the range of applications; these are available on request.

More about this online at www.inocon.de

Innovative design elements

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