

Clamping elements for slideways

Instantaneously acting and powerful holding

KOSTYRKA® clamping elements for clamping flat guides in mechanical engineering, such as bridges, pallets, slides, stands, supports, tailstocks, capstans and much more. They offer convincing arguments with very high clamping forces, lightning-quick reaction times, an unusually compact design and virtually no maintenance requirement. In short: KOSTYRKA® clamping strips, discs and cassettes are ideal for use in modern, particularly high-performance machine tools.

KOSTYRKA® clamping strips and cassettes

Clamping strips are forced out of their housing like a piston when pressure is applied. They contact the component to be clamped and then clamp it securely, as dictated by the amount of oil pressure. In the process, the O-ring is strongly press-fitted as the sealing part. The O-ring takes its original form again after the oil pressure is removed, and the clamping strip disengages from the clamping surface. The main advantages of this principle: Clamping strips respond immediately, clamp with more force and accommodate the designer with their exceptionally small space requirement. Clamping strips are parts integrated into the clamping cassettes. They also offer solutions for space limitations that make the direct installation of tightening and clamping elements difficult.

KOSTYRKA® clamping discs

The functionality of clamping discs corresponds primarily to that of the clamping strips. However, the clamping discs „spring“ back approx. 0.01 mm after the removal of oil pressure. The seal in the location hole is not moved in the process. The convincing result: Practically no wear and tear and a nearly unlimited life time.

KOSTYRKA® clamping rings

Clamping rings are made of bronze with particularly good elastic properties. Their special form enables their expansion by oil pressure. When the pressure is released, the clamping ring returns to its original position. Clamping rings are highly efficient and extremely compact constructional clamping elements.

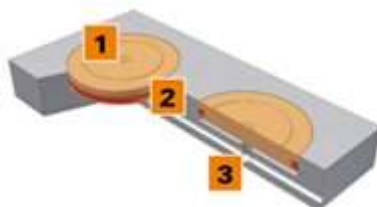


Clamping elements for slideways - the Principle



KOSTYRKA® clamping strips and cassettes for holding and releasing, e.g. slides.

- 1 Clamping strips
- 2 Seal
- 3 Oil feed



KOSTYRKA® clamping discs for holding and releasing, e.g. tailstocks.

- 1 Clamping disc
- 2 Seal
- 3 Oil feed



KOSTYRKA® clamping rings for holding and releasing, e.g. rotary tables.

- 1 Clamping ring
- 2 Seal
- 3 Oil feed

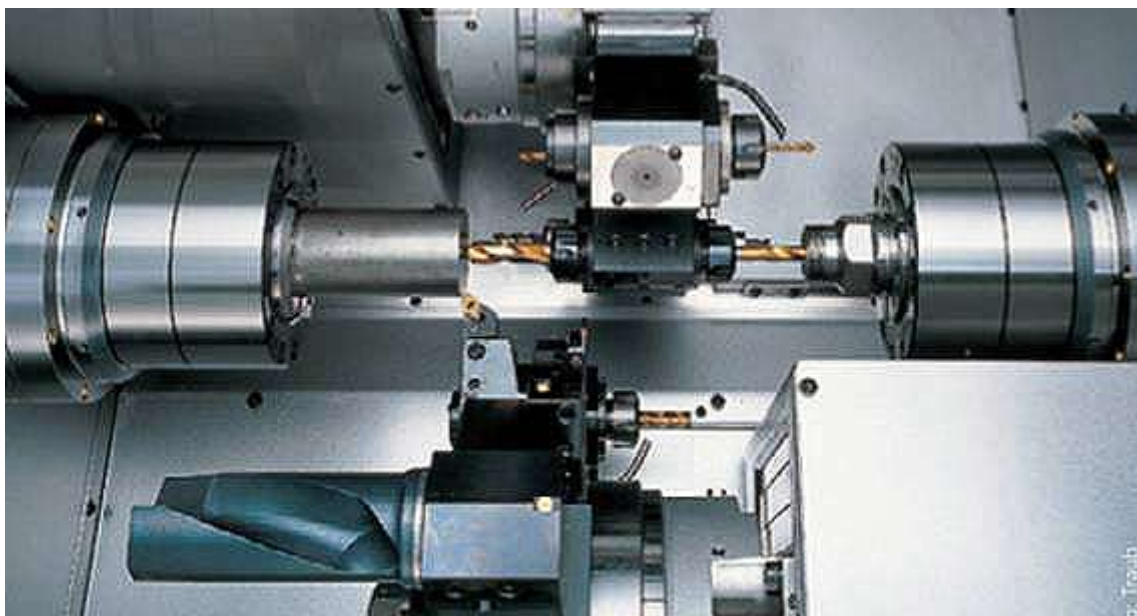
Clamping elements for slideways - References



KLINGELBERG

Orlikon bevel gear cutting machines from Klingelberg. At Klingelberg KOSTYRKA[®] clamping strips and discs are used for an extremely broad range of duties.

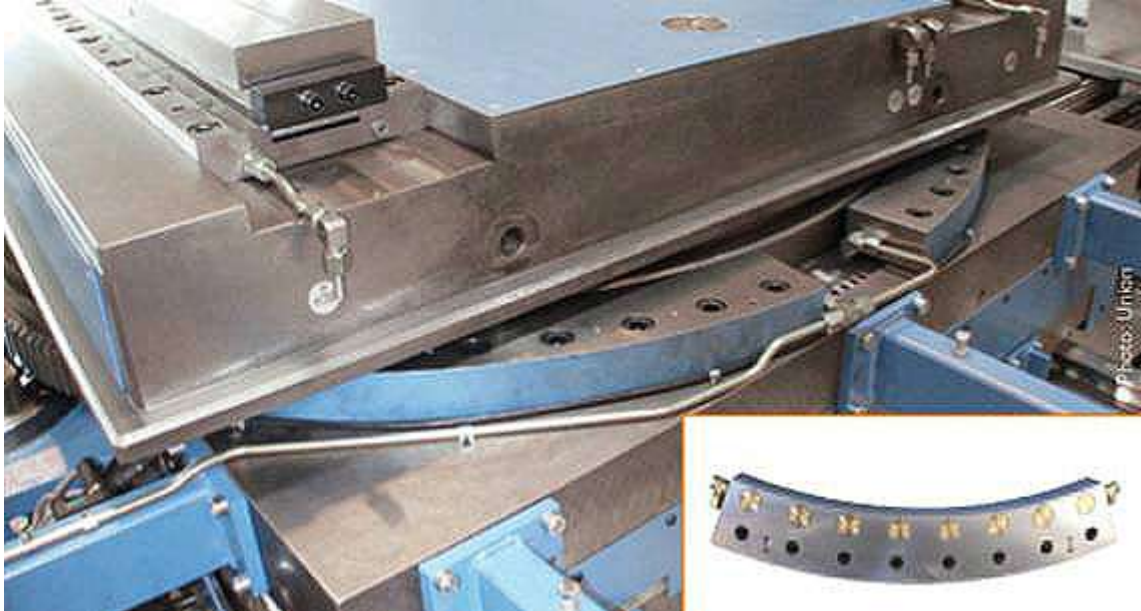
Clamping elements for slideways - References



TRAUB

The slide and tailstock clamps in Traub machining centres require clamping cycles up to 30 minutes and longer. Ready-to-install KOSTYRKA[®] clamping cassettes guarantee maintenance-free operation.

Clamping elements for slideways - References



UNION

The Union drilling and milling centres require the control of great forces during short cycle times. The working table is kept secure with KOSTYRKA[®] clamping discs, cycle after cycle.