

Roller and ball bars for easy and safe die change



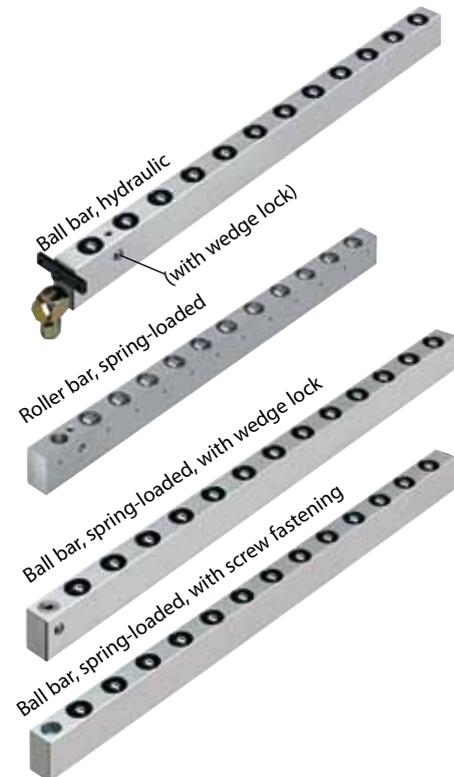
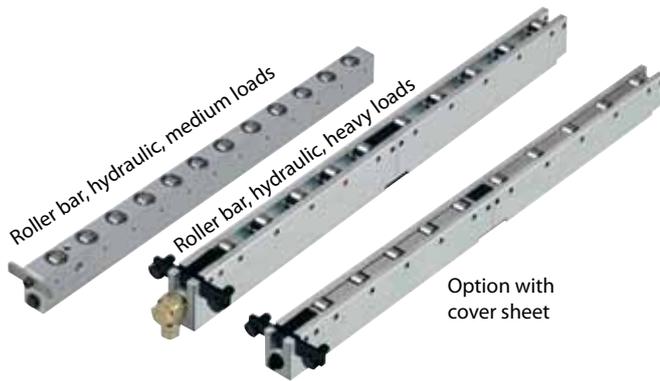
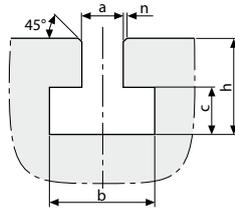
ROEMHELD
HILMA ■ STARK

T-slot tolerances acc. to DIN 650

a	b	c	h min.	h max.	n max.
18 H8	30 ⁺²	12 ⁺²	30	36	1,6
22 H8	37 ⁺³	16 ⁺²	38	45	1,6
28 H8	46 ⁺⁴	20 ⁺²	48	56	1,6
36 H8	56 ⁺⁴	25 ⁺³	61	71	2,5

Dimensions in mm

$h_{min.}$ = smallest dimension acc. to DIN 650



Load: 20 - 100 kg
Hole: 20 - 40 mm

Load: 40 - 220 kg
Hole: 20 - 40 mm

Applications:

- in T-slots and rectangular slots of press beds for easy die change
- die change streamlining

Roller bar, hydraulically lifted

for heavy loads, for linear movement of dies:

On the underside of the roller bar lifting pistons are provided. Pressure is applied to these pistons using hydraulic pressure generators, which lift then the complete roller bar. The die positioned on the roller bars is not in contact with the table top and can be easily moved and positioned. The basic bodies are made from a high-strength and robust aluminium alloy.

Max. operating pressure: 400 bar

Load-bearing capacity: up to 160 kN/m, roller spacing 50 mm.

Any length up to 2500 mm is possible using modular segments.

Fastening of the roller bar using a fastening plate.

Roller bar, hydraulically lifted

for medium loads, for linear movement of dies:

The lifting pistons are provided below each roller allowing rollers to be lifted individually. The basic bodies are made from a high-strength aluminium alloy. Lifting pistons are provided below each roller allowing each roller to be lifted individually.

Max. operating pressure: 120 bar.

Max. load-bearing capacity: 99 kN/m, flexible roller spacing and orientation.

Any variable length in a single piece design up to 2900 mm.

Fastening of the roller bar using a fastening plate or a wedge lock.

Ball bar, hydraulically lifted for medium loads , for flexible horizontal movement of dies:

Oil pressure is applied using a hydraulic pressure generator to lift each ball bar individually. The die positioned on the ball bars is not in contact with the table top and can be easily moved.

Max. operating pressure: 100 bar

Max. load-bearing capacity: 55 kN/m, flexible ball spacing.

Any length in a single piece design up to 2900 mm.

Fastening of the ball bar using a fastening plate or a wedge lock.

Ball bar with spring pack for lightweight loads

for flexible horizontal movement of dies:

When preloaded, the balls project over the table level by up to 2 mm.

When the die is clamped, the balls are pressed into the bar body against the spring force until they are flush with the table level.

Max. load-bearing capacity: 27 kN/m, flexible ball spacing.

Any variable length in one-piece design up to 2900 mm.

Fastening of the ball bar using a fastening crossbar or a wedge lock.

Roller bar with spring pack

for medium loads, for linear movement of dies:

Function and design of the roller bar similar to spring-loaded ball bars.

Load-bearing capacity slightly increased thanks to the use of rollers.

Max. load-bearing capacity: 66 kN/m, flexible roller spacing and orientation.

Any variable length in one-piece design up to 2900 mm.

Fastening of the roller bar using a fastening crossbar or a wedge lock.

Ball and roller inserts with spring pack

For installation in tables without T-slots:

The spring-loaded ball and roller inserts are individually inserted into drilled holes. The function is similar to that of ball or roller bars with a spring pack.

Max. load-bearing capacity: 2200 N, stroke up to 3 mm.