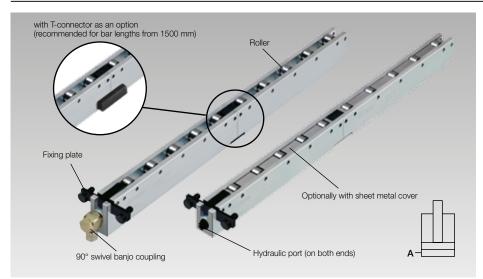


Roller Bars, Hydraulic

with lifting of the bar max. load 160 kN/m, max. operating pressure 400 bar



Advantages

- Easy and safe die change
- Hydraulic lifting of the complete bar
- Very high loads
- Lengths up to 2500 mm in 250 mm long segments
- The hydraulic supply is protected inside the slot base
- Easy cleaning of the bars and rollers by open design
- Low weight (version in aluminium)

Application

- In T-slots and rectangular slots of the press bed for easy die change without any problems
- Die change streamlining

Delivery

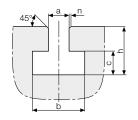
- Roller bar
- Fixing plate
- 90° swivel banjo coupling

Description

Roller bar with hydraulic lifting of the complete bar for heavy loads and linear movement of the 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 linearly and positioned.

T-slot tolerances as per DIN 650



			h	h	n
а	b	С	min.	max.	max.
22 H12	37+3	16 ⁺²	38	45	1.6
28 H12	46+4	20+2	48	56	1.6
36 H12	56+4	25 ⁺³	61	71	2.5

Dimensions in mm

 $\mathbf{h}_{\text{min.}}$ = minimum dimension as per DIN 650

The height of the roller bars is designed for the dimension $h_{\text{min.}}$ of the slot dimension.

Technical data

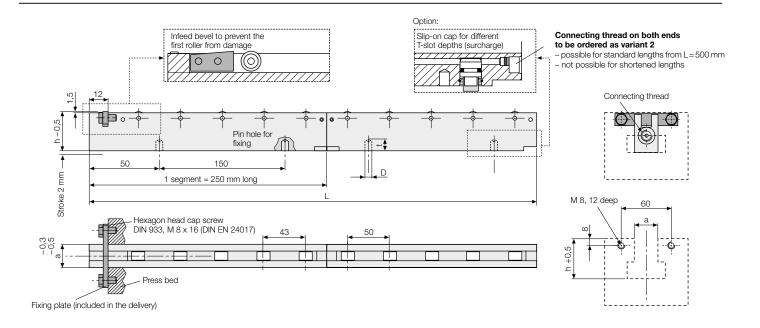
Max. operating pressure	e [bar]	400
Max. load	[kN/m]	160
Roller spacing	[mm]	50
Material of the bar		aluminium (steel on request)
Fixing of the bar		fixing plate or positioning pin
Standard lengths	[mm]	250 2500 consisting of 250 mm long segments
Intermediate lengths	[mm]	shortening of the segments in 50 mm increments

Application example



Roller bars with hydraulic lifting

Technical data • Dimensions • Accessories



Technical data

Max. temperature 100 °C

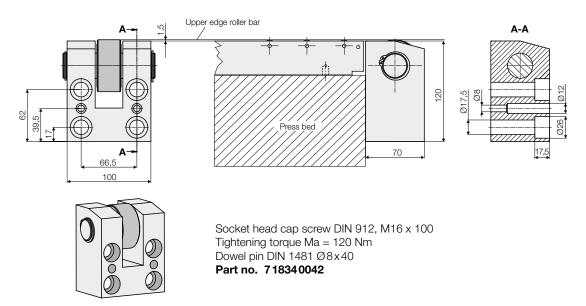
Slot width (a)	[mm]	22	28	36
Slot depth (h)		38	48	61
Slot depth max. (h)	[mm]	45	56	71
Load/roller	[kN]	6.0	6.4	8.0
Number of rollers/segment (= 2	250 mm)	5	5	5
Number of pistons/segment (=	5	4	5	
Connecting thread	G 1/8	G 1/8	G 1/4	
Max. operating pressure [bar]		400	400	400
Roller Ø x width [mm]		16 x 12	16 x 12	19 x 12
Stroke	[mm]	2	2	2
Oil volume/segment	[cm³]	1.54	1.60	2.00
D	[mm]	6.5	8.5	8.5
t	[mm]	9	12	12

Fixing plate and 90° swivel banjo coupling are included in the delivery.

Accessories

Infeed support

to protect the first rollers



Dimensions in [mm]

2

Standard lengths

Part no.

for slot width a = 22 mm		for slot width a = 28 mm			for slot width a = 36 mm			
Length (L)	Load [kN] at 400 bar	Part no.	Length (L)	Load [kN] at 400 bar	Part no.	Length (L)	Load [kN] at 400 bar	Part no.
250	30	818345100L250	250	32	8 1834 6100L250	250	40	8 1834 7100L250
500	60	818345110L500	500	64	8 1834 6110L500	500	80	818347110L500
750	90	8 1834 5115L750	750	96	8 1834 6115L750	750	120	8 1834 7115L750
1000	120	818345120L1000	1000	128	8 1834 6120L1000	1000	160	818347120L1000
1250	150	818345130L1250	1250	160	8 1834 6130L1250	1250	200	8 1834 7130L1250
1500	180	818345140L1500	1500	192	8 1834 6140L1500	1500	240	818347140L1500
1750	210	818345150L1750	1750	224	8 1834 6150L1750	1750	280	8 1834 7150L1750
2000	240	818345160L2000	2000	256	8 1834 6160L2000	2000	320	818347160L2000
2250	270	8 1834 5170 L2250	2250	288	8 1834 6170L2250	2250	360	8 1834 7170L2250
2500	300	818345180L2500	2500	320	8 1834 6180L2500	2500	400	8 18347180L2500

Intermediate lengths

Possible intermediate lengths: 300 to 2450 mm. Produced by shortening of the segments in 50 mm increments.

Determination of the carrying force for intermediate lengths

for slot width a = 22 mm

for slot width a = 28 mm

for slot width a = 36 mm

Shortening by [mm]	Carrying force reduction [kN]	Shortening by [mm]	Carrying force reduction [kN]	Shortening by [mm]	Carrying force reduction [kN]
50	6	50	8	50	8
100	12	100	16	100	16
150	18	150	16	150	24
200	24	200	24	200	32

Examples for intermediate lengths of roller bar L = 500 mm

Part no.

for slot width a = 22 mm

for slot width a = 28 mm

for slot width a = 36 mm

Length (L) [mm]	Load [kN] at 400 bar	Part no.	Length (L) [mm]	Load [kN] at 400 bar	Part no.	Length (L) [mm]	Load [kN] at 400 bar	Part no.
300	36	818345110L300	300	40	818346110L300	300	48	8 18347 110L300
350	42	818345110L350	350	48	818346110L350	350	56	8 18347 110L350
400	48	818345110L400	400	48	818346110L400	400	64	8 18347 110L400
450	54	818345110L450	450	56	818346110L450	450	72	8 18347 110L450

Connecting thread on both ends: Variant "2"

- possible for standard lengths from L=500 mm
- not possible for shortened lengths

Part no.

add "-2" to the part no. of the roller bar

Example: 818345110L500-2

Special versions

Sheet metal cover

The roller bars are also available with sheet metal cover between the rollers on request.

T-connector

For bar lengths from 1500 mm, it is recommended to equip the individual segments with T-connectors (see figure on page 1). Thus, the roller bars are reinforced and the dimensional stability is increased.

Customised special versions

Different heights, lengths, strokes, roller and piston number per segment, other customised versions as well as inch versions are available on request.

Subject to modifications