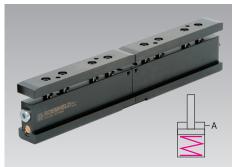


Double-T Clamping Bars single or double acting, max. operating pressure 400 bar

Issue 5-22 US



single acting, with spring return



double acting, without carrying rollers



Application

- For clamping of dies on the press bed and press ram
- When the available space is limited

Advantages

- The complete clamping surface can be used
- No collision edges
- Easy and quick retrofit
- Ideal, uniform force transmission

Double-T clamping bar, single acting, with spring return, without carrying rollers For use in the press ram, but also suitable for the press bed.

Installation of the double-T clamping bar by insertion into the T-slots of the press ram or the press bed in any desired position. The bar is manually secured in position with locking screws in the T-slot.

The double-T design requires T-slots in the die and in the press ram or press bed.

The clamping force is generated by applying hydraulic pressure to the pistons, and unclamping is carried out mechanically by spring return.

Double-T clamping bar, double acting, without carrying rollers

For use in the press ram, but also suitable for the press bed.

Installation of the double-T clamping bar and generation of the clamping force are as described above, but with one additional clamping circuit for unclamping.

Double-T clamping bar, double acting, with carrying rollers for lifting and clamping preferably for the use in the press bed.

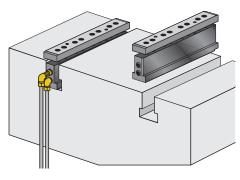
Installation and function as described above, however equipped with carrying rollers.

A double-acting piston causes the lifting of the carrying rollers and the following clamping of the die by a second clamping circuit. Before clamping is made, the die positioned on the carrying rollers is not in contact with the table plate and can be easily moved and positioned. Lifting, moving, positioning and clamping with one element only.

Insertion chamfer

If the dies have a slight lateral offset when loading into the machine, the double-T clamping bars are protected by insertion chamfers at the connection side.





Accessory guiding bar

If the die offset is larger (up to 1.5 mm) or the dies are not fed on the connection side of the double-T clamping bars of the machine, we recommend separate guiding bars. They are fastened in the T-slot using clamping bolts. Special guide bar designs are available on request (e.g. with hydraulic ports for the connection side).



Guiding bar	Part no.
for T-slot 18	718320015
for T-slot 22	718320016
for T-slot 28	718320017

Application example

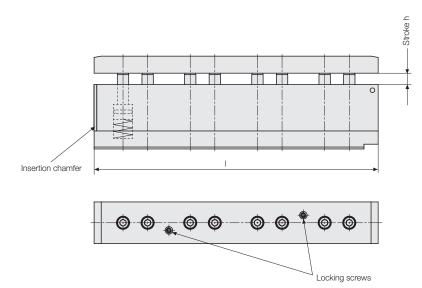


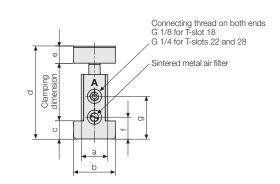
Double-T clamping bar on press bed and ram

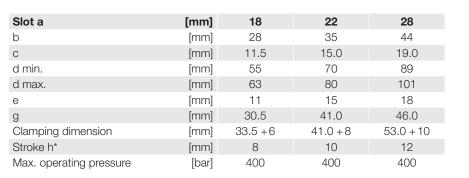
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Subject to modifications

Double-T clamping bars single acting with spring return • without carrying rollers







Note

All double-T bars are composed of modular segments. Thus, different lengths can be delivered. When clamping or unclamping, make sure that there is an overlap of >90 % of the segment length.

Segment lengths: T-slot 18 \triangleq 150 mm T-slot 22 \triangleq 300 mm T-slot 28 \triangleq 300 mm

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* Reduction of stroke on request

T-slot a [mm]	Length I* [mm]	Clamping force at 400 bar [kN]	Oil volume [cm ³] Clamping	Part no.
18	150	16.6	5.7	818321810**
18	300	33.2	11.4	818321812
18	450	49.8	17.1	818321814
18	600	66.4	22.8	818321816
18	750	83.0	28.5	818321818
22	300	39.2	18.5	818322210**
22	600	78.4	37	818322212
22	900	117.6	55.5	818322214
22	1200	156.8	74	818322216
22	1500	196.0	92.5	818322218
28	300	64.0	34	818322810**
28	600	128.0	67.9	818322812
28	900	192.0	101.8	818322814
28	1200	256.0	135.8	818322816
28	1500	320.0	169.7	818322818

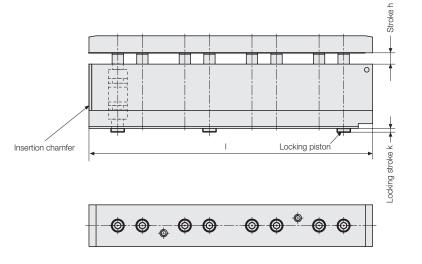
* Intermediate lengths and extra-long bars on request

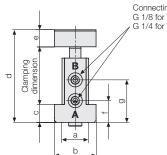
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** Connection thread on one end

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Double-T clamping bars double acting • without carrying rollers





Connecting thread on both ends G 1/8 for T-slot 18 G 1/4 for T-slots 22 and 28

Slot a	[mm]	18	22	28
b	[mm]	28	35	44
С	[mm]	11.5	15.0	19.0
d min.	[mm]	55	70	89
d max.	[mm]	63	80	101
е	[mm]	11	15	18
f	[mm]	13.5	18.0	23.0
g	[mm]	30.5	41.0	46.0
Clamping dimension	[mm]	33.5+6	41.0+8	53.0+10
Stroke h*	[mm]	8	10	12
Locking stroke k**	[mm]	2.5	3.0	4.0
Max. operating pressure	[bar]	400	400	400

Note

All double-T bars are composed of modular segments. Thus, different lengths can be delivered. When clamping or unclamping, make sure that there is an overlap of >90 % of the segment length.

Segment lengths: T-slot 18 ≙ 150 mm T-slot 22 ≙ 300 mm T-slot 28 ≙ 300 mm

* Reduction of stroke on request

** Locking screw (see double-T bar single-acting) instead of locking piston on request.

T-slot a [mm]	Length I* [mm]	Clamping force at 400 bar [kN]	Oil volume [cm³] Clamping Unclamping		Part no.
18	150	16.6	3.3	5.7	8 1832 1820**
18	300	33.2	6.6	11.4	8 1832 1822
18	450	49.8	9.9	17.1	818321824
18	600	66.4	13.3	22.8	818321826
18	750	83.0	16.6	28.5	818321828
22	300	39.2	9.8	18.5	818322220**
22	600	78.4	19.6	37	818322222
22	900	117.6	29.4	55.5	818322224
22	1200	156.8	39.2	74	818322226
22	1500	196.0	49.0	92.5	818322228
28	300	64.0	19.3	34	818322820**
28	600	128.0	38.6	67.9	818322822
28	900	192.0	57.9	101.8	818322824
28	1200	256.0	77.2	135.8	818322826
28	1500	320.0	96.5	169.7	818322828

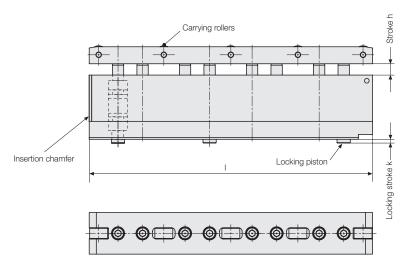
* Intermediate lengths and extra-long bars on request

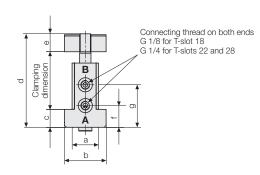
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** Connection thread on one end

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Double-T clamping bars double acting • with carrying rollers • for lifting and clamping





Slot a	[mm]	18	22	28
b	[mm]	28	35	44
С	[mm]	11.5	15.0	19.0
d min.	[mm]	56	71	90
d max.	[mm]	64	81	102
е	[mm]	12	16	19
f	[mm]	13.5	18.0	23.0
g	[mm]	30.5	41.0	46.0
Clamping dimension	[mm]	33.5+6	41.0+8	53.0+10
Stroke h*	[mm]	8	10	12
Locking stroke k**	[mm]	2.5	3.0	4.0
Max. operating pressure	[bar]	400	400	400

Note

All double-T bars are composed of modular segments. Thus, different lengths can be delivered. When clamping or unclamping, make sure that there is an overlap of >90 % of the segment length.

Segment lengths: T-slot 18 ≙ 150 mm T-slot 22 ≙ 300 mm T-slot 28 ≙ 300 mm

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* Reduction of stroke on request

T-slot a [mm]	Length I* [mm]	Load at 400 bar [kN]	Clamping force at 400 bar [kN]	Number of carrying rollers	Oil volur Clamping	ne [cm³] Unclamping	Part no.
18	150	9	16.6	3	3.3	6.4	818321830**
18	300	18	33.2	6	6.6	12.9	818321832
18	450	27	49.8	9	9.9	19.4	818321834
18	600	36	66.4	12	13.3	25.8	818321836
18	750	45	83.0	15	16.6	32.3	8 1832 1838
22	300	32	39.2	5	9.8	20.9	818322230**
22	600	64	78.4	10	19.6	41.8	818322232
22	900	96	117.6	15	29.4	62.7	818322234
22	1200	128	156.8	20	39.2	83.6	818322236
22	1500	160	196.0	25	49.0	104.5	818322238
28	300	37.5	64.0	5	19.3	40.2	818322830**
28	600	75.0	128.0	10	38.6	80.4	818322832
28	900	112.5	192.0	15	57.9	120.6	818322834
28	1200	150.0	256.0	20	77.2	160.8	818322836
28	1500	187.5	320.0	25	96.5	201.0	818322838

* Intermediate lengths and extra-long bars on request

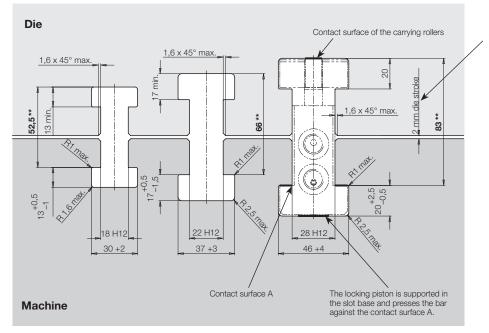
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** Connection thread on one end

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Presentation: Die in lifted mode

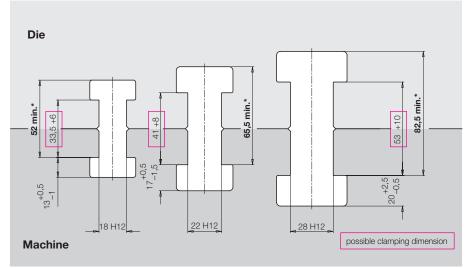
(lifted by double-T clamping bars with carrying rollers or external roller or ball bars)



Note: The die stroke of 2 mm is exemplary (e.g. for larger die stroke, reduce the slot depth accordingly).

** Dimension of the double-T clamping bars with carrying rollers in lifted or unclamped mode (= d max. - c)

Presentation: Die in clamped mode



* Minimum slot dimension when using double-T clamping bars without carrying rollers, height in unclamped condition +0,5 mm (= d max. -c + 0.5)

T-slots based on DIN 650

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