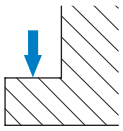
Mechanical T-Slot Clamp Type MEE

Application area

- For all types of presses
- For various die sizes and clamping dimensions
- For clamping upper and lower dies
- For dies with straight clamping edges
- For applications in the construction of jigs and fixtures

Mode of operation



- The mechanical T-slot clamp is pushed manually into the machine T-slot. This allows the bracket to be swung into the clamping position.
- The clamping screw is then fed manually to the required clamping dimension.
- The required clamping force is created by turning the operating hexagon clockwise with a wrench. A wedge clamp system provides a multiple torque increase.
- Unclamping occurs by turning the operating hexagon counter-clockwise.

Description

A wedge clamp system provides a multiple torque increase.

After pushing the bracket into the T-slot and possibly swinging it, the MEE T-slot clamp can be quickly and precisely positioned by the socket head cap screw (SW3, please see back page).

After adjusting the clamping screw (SW2) to the relevant clamping dimension, a wedge slide is moved axially in the clamping direction by turning the the operating hexagon (SW1) clockwise.

This presses the wedge outwards, which in turn pushes against the wedge bearing, thereby transmitting the clamping force into the press table, slide or fixture.

The clamping mechanism enables a high clamping stroke. The clamping stroke can be checked via the operating hexagon's turns.

The wedge system is mechanically self-locking so that the clamping force is maintained.

Advantages

- Infinitely variable adaptation to various die sizes
- Large clamping dimension tolerance
- Corrosion protected
- Highest level of clamping force with manual operation
- Mechanically self-locking
- Suitable for retrofitting
- Maintenance free
- Easy installation
- Versatile

Accessories

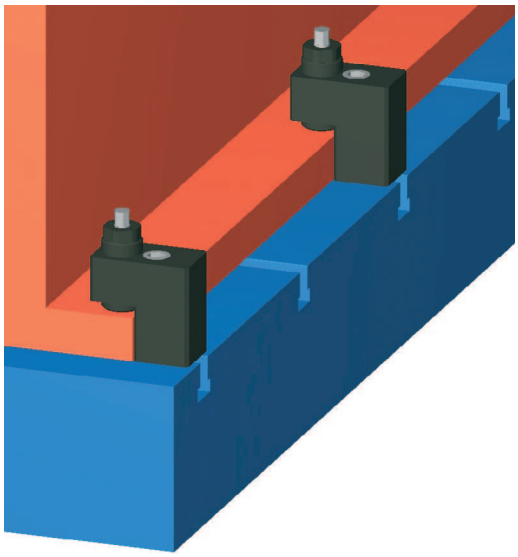
- T-bolts

Note

We recommend the use of a torque wrench in order to reliably guarantee the required clamping force and to protect the drive and clamping mechanism from damage by excessively high torque.

Under certain conditions, the use of a standard socket wrench or ring spanner may be acceptable for clamping.

The clamping screws are lubricated-for-life and are maintenance free under normal operating conditions.



Technical data

Type	MEE 30	MEE 60	MEE 100
Clamping force [kN]	30	60	100
Max torque "SW1" [Nm]	35	80	130
Max. stroke	1.5	2.2	2.5
Max. loading force [kN]	60	120	200
Max. adjusting stroke "V"	22	25	35
Weight [kg] aprox.	3	5	8
T-slot "M" DIN 650*	18 22	22 28	28 36

* Additional T-slot dimensions avaialble on request.

Technical specifications are subject to change without notice!

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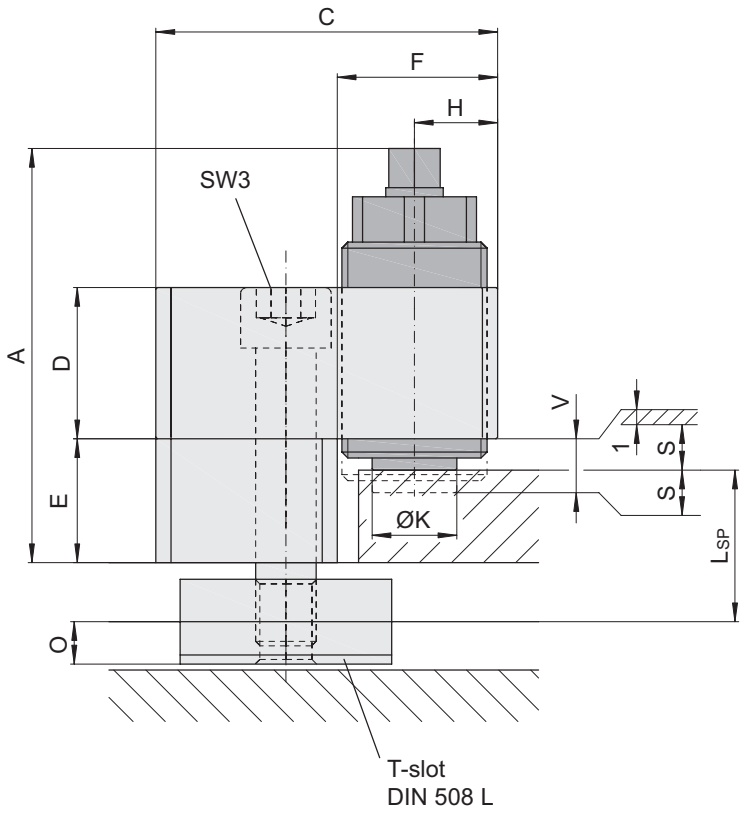

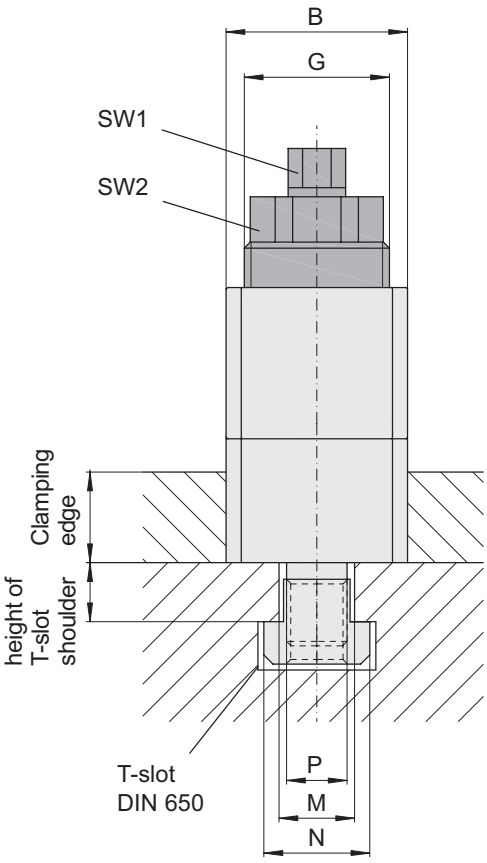

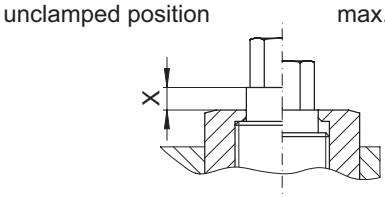

A total clamping stroke of 2.5 mm (approx. 2 turns of the operating hexagon) can be achieved once the clamping screw has been manually adjusted to the clamping edge. The clamping stroke can be checked via the stop height “X”.
The maximum clamping position is reached when the lower edge of the operating hexagon is flush with the housing edge.
By turning the operating hexagon counterclockwise until it reaches its internal stop, the clamping mechanism returns to its initial position.
Under normal operating conditions the clamping screws are lubricated-for-life and are maintenance free.

Example order

MEE 60 - 60 - 22

Type

E

T-slot size according to DIN 650

L_{SP} = Nominal clamping dimension [mm]
(Custom designs available on request)

Type	M T-slot	V	S	Clamping edge min.	Clamping edge max.	A min.	A max.	B	C	D	E*	F	G Thread	H	K	N	O	P	SW 1	SW 2	SW 3
MEE 30	18 22	22	10.5	8 28 48	29 49 69	100 120 140	120 142 162	50	90	40	30 50 70	40	M36 x 3	21	19	28 35	10 14	M16	13	30	14
MEE 60	22 28	25	12	15 35 55	39 59 79	125 145 165	150 170 190	60	113	50	40 60 80	53	M48 x 3	28	28	35 44	14 18	M20	17	41	17
MEE 100	28 36	35	17	15 45	49 79	145 175	180 210	80	150	60	50 80	70	M64 x 4	37	39	44 54	18 22	M24	19	55	19

* Preferred range for clamping height "E"; custom clamping heights on request available of request.

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