

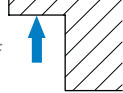
# Mechanical Clamping Nut

MKD

## Application area

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

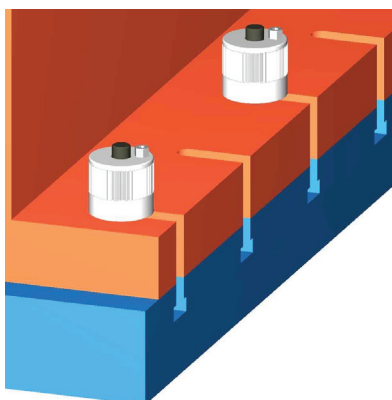
## Mode of operation

- The clamping nut is pushed manually into the U-recess of the die and the T-slot on the machine. 
- The clamping nut is then adjusted manually to the required clamping dimension.
- The required clamping force is created by turning the operating hexagon clockwise with a wrench. A planetary gear provides a multiple torque increase.
- Unclamping occurs by turning the operating hexagon counter-clockwise.

## Description

The transmission ratio provides multiple torque amplification which is then transmitted to the nut via the planetary wheels. The rotation of the nut causes the clamping stroke for the screwed-in T-bolt. The clamping force is safely applied, depending on the operating torque and the spring stiffness of the entire system.

The clamping and operating forces are supported by axial bearings and a pressure plate directly to the machine bed or slide or the fixture. This clamping mechanism guarantees self-locking in all clamping positions. The line MKD is designed with a threaded through bore and a lateral operating hexagon.



## Note

We recommend the use of a torque wrench in order to reliably guarantee the required clamping force and to protect the clamping mechanism from damage by excessively high torque. Under certain conditions, the use of a standard socket wrench, ring spanner or racking end wrench may be acceptable for clamping. It must be ensured that the screwed-in T-bolts are tight, i.e. cannot turn with the clamp unit.



## Advantages

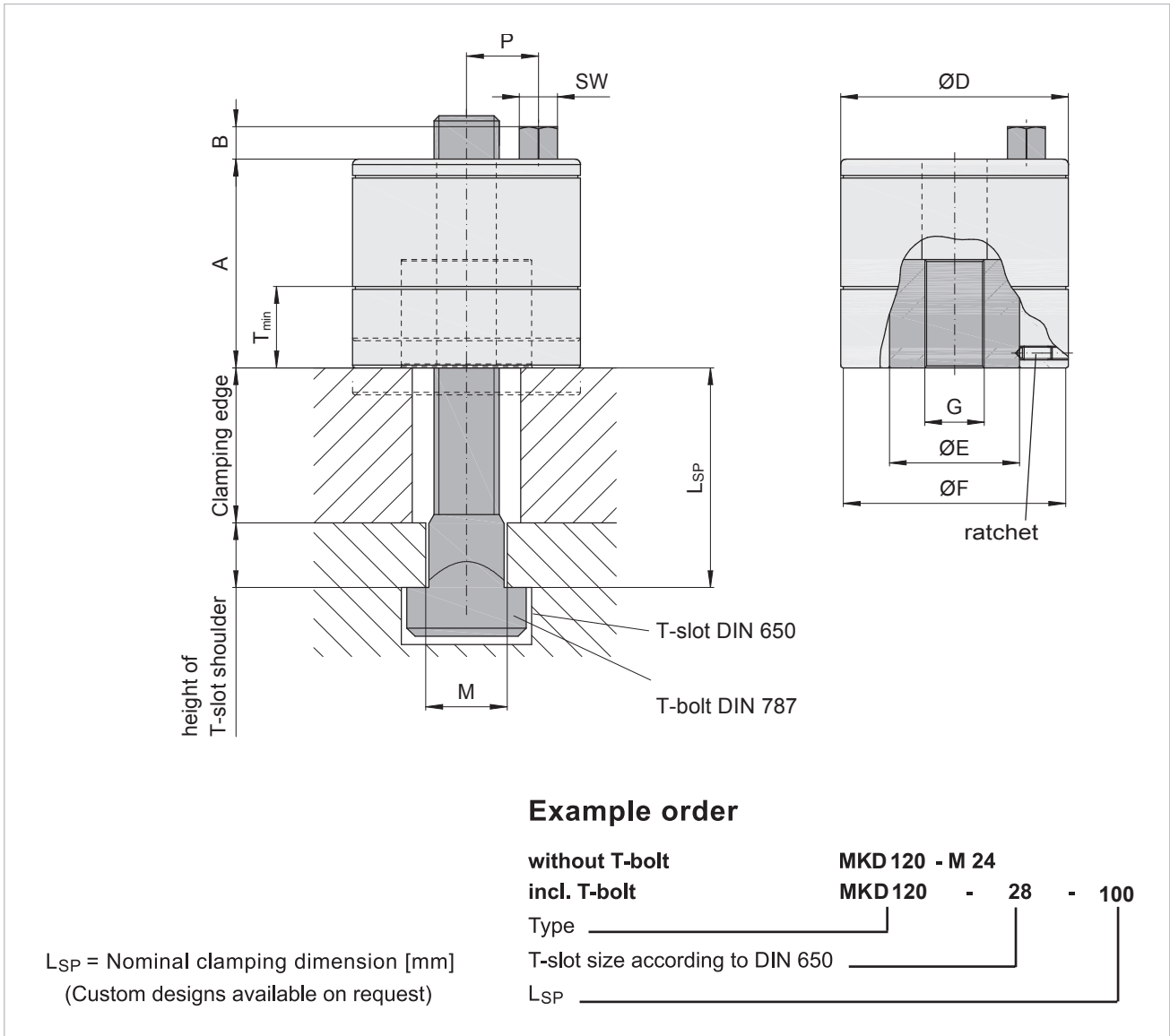
- Infinitely variable adaptation to various die sizes
- Large clamping dimension tolerance
- Corrosion protected
- Highest level of clamping force with manual operation
- Mechanically self-locking
- Suitable for retrofitting
- Maintenance free
- Easy installation
- Versatile
- Max. operating temperature 200°C

## Accessories

- T-bolts

# Mechanical Clamping Nut

## MKD



Type	Clamping force (kN)	nominal actuation torque (Nm)	max. loading force <sup>1)</sup> (kN)	Weight approx. (kg)	M T-slot	L <sub>SP</sub> min.	A	B	Ø D	Ø E	Ø F	G *	P	T min.	SW
MKD 60	60	30	70	1,6	14	14	58	11	74	40	72	M12	21,5	23	14
		35	120	1,6	18	18						M16			
		40	120	1,6	22	22						M20			
MKD 120	120	65	130	2,6	18	18	73,5	11	84	50	82	M16	26,5	32	14
		70	200	2,6	22	22						M20			
		75	240	2,5	28	28						M24			
		80	240	2,4	36	36						M30			
MKD 180	180	90	300	4,0	28	28	78	11	105	64	103	M24	35	37	14
		100	300	3,9	36	36						M30			
		110	400	3,8	42	42						M36			
		115	450	3,7	48	48						M42			
		125	450	3,7	54	54						M48			

\* T-bolt strength classes up to M24 minimum Q 10.9, from M30 Q 8.8

1) Mechanical damage may occur at higher loads.