

# Clamping nut, mechanical with integral planetary gear



Clamping nut

T-bolt



Planetary gear inside the clamping nut for clamping force multiplication

## Applications:

- for clamping and locking dies on press beds and rams
- on beds of machine tools
- when the available space is limited

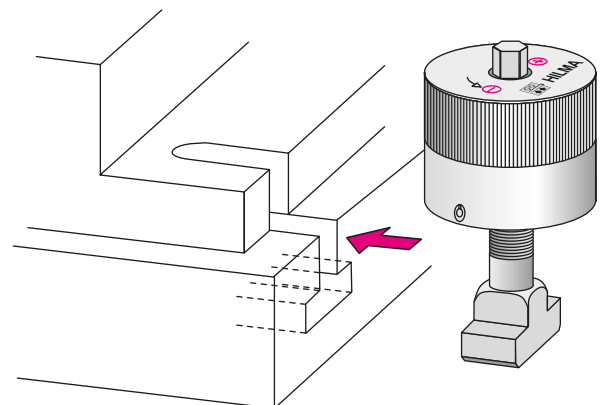
## Function:

Following manual positioning of the clamping nut against the clamping edge, the integral planetary gear is brought into action by turning the hexagon nut. As a result of the gear transmission, the tightening torque is multiplied. In order to reliably ensure the required clamping force, we recommend that a torque wrench is used.

## Special features:

- ◇ suitable for retrofit
- ◇ compact design allows for multiple clamping
- ◇ intensification of clamping force possible in case of multiple clamping
- ◇ high clamping force with low torque
- ◇ compensates for large clamping edge tolerances
- ◇ easy manual clamping and unclamping

## Example of application





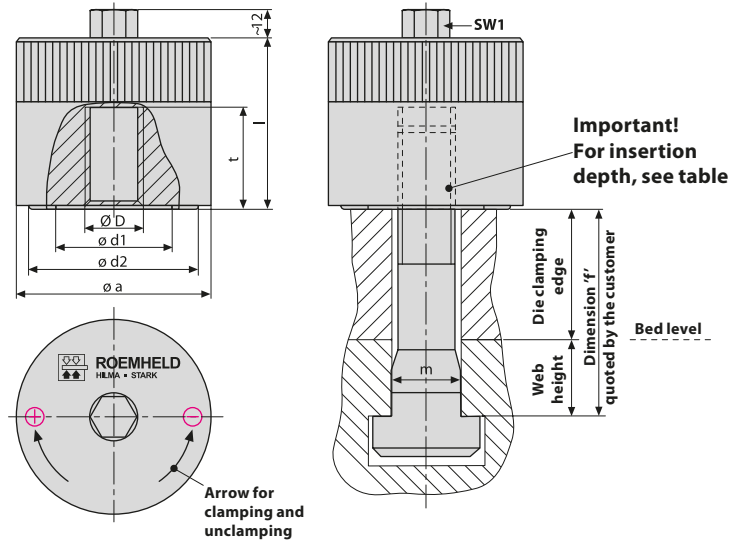
## Clamping nut, mechanical, type MS

### Example of ordering: **2275-820/ F80**

Clamping nut, mechanical  
T-slot: 22 mm  
Clamping force: 60 kN

Functional dimension  
'f' = 80 (mm)  
to be quoted  
in the order

**Functional dimension 'f':**  
die clamping edge  
+ web height of T-slot  
= dimension 'f'



### Clamping nut with blind hole thread, type MS

T-slot DIN 650 (mm)	18	22	28	36	42	42
Clamping force (kN)	60	60	100	150	150	200
Tightening torque (Nm)	25	30	45	70	75	120
D (mm)	M 16	M 20	M 24	M 30	M 36	M 36
a (mm)	62	62	73	83	83	120
d1 (mm)	32	32	42	52	52	82
d2 (mm)	60	60	71	81	81	118
l (mm)	50	50	70	75	75	80
t (mm)	24	24	35	40	40	45
SW 1 (mm)	13	13	15	17	17	19
Insertion depth min. (mm)	16	16	25	30	30	35
Insertion depth max. (mm)	24	24	35	40	40	45
<b>Clamping nut with T-bolt Part no.</b>	<b>2275-816</b>	<b>2275-820</b>	<b>2276-824</b>	<b>2277-830</b>	<b>2277-836</b>	<b>2278-836</b>
Approx. weight (kg)	2,0	2,1	3,2	5,5	6,5	6,5
<b>Clamping nut without T-bolt Part no.</b>	<b>2275-716</b>	<b>2275-720</b>	<b>2276-724</b>	<b>2277-730</b>	<b>2277-736</b>	<b>2278-736</b>
Approx. weight (kg)	0,9	0,85	1,7	2,2	2,1	4,6

Other sizes and threads (e.g. inch) are available on request.  
Maximum temperature range -30 °C to + 200 °C

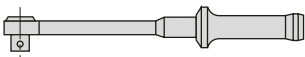
#### Accessories:

Torque wrench 20 - 100 Nm

**Part no. 9.3792.6610**

Torque wrench 40 - 200 Nm

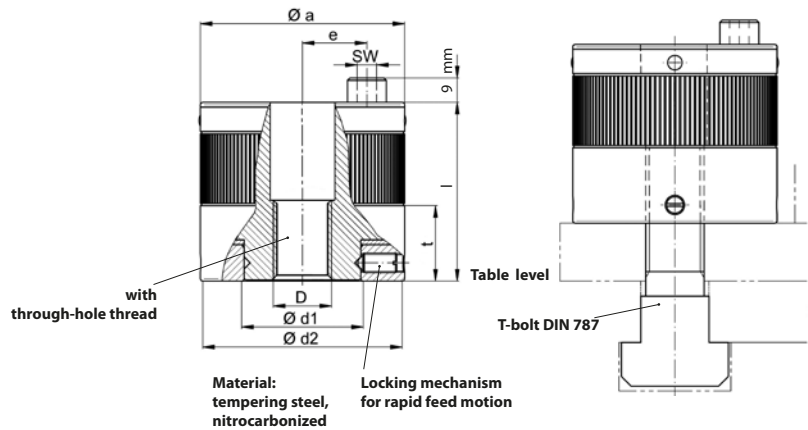
**Part no. 9.3792.6620**



# Clamping nut, mechanical, type MD



**ROEMHELD**  
HILMA ■ STARK



## Clamping nut with through-hole thread, type MD

T-slot DIN 650 (mm)	14	18	22	28	36	42
Clamping force (kN)	60	60	60	120	180	180
Tightening torque (Nm)	30	35	40	85	100	110
D (mm)	M 12	M 16	M 20	M24	M 36	M 42
a (mm)	74	74	74	84	105	105
d1 (mm)	40	40	40	50	64	64
d2 (mm)	72	72	72	82	103	103
l (mm)	58	58	58	74	78	78
t (mm)	23	23	23	32	37	37
SW (mm)	8	8	8	8	8	8
<b>Clamping nut, separate Part no.</b>	<b>8.2275.0005</b>	<b>8.2275.0006</b>	<b>8.2275.0007</b>	<b>8.2276.0004</b>	<b>8.2277.0004</b>	<b>8.2277.0005</b>
Approx. weight (kg)	1,6	1,6	1,6	2,5	3,9	3,8
<b>T-bolt Part no.</b>	<b>1.0787.1210*</b>	<b>1.0787.1169</b>	<b>1.0787.0211</b>	<b>1.0787.1246</b>	<b>1.0787.0308</b>	<b>1.0787.0422</b>

Other sizes and threads (e.g. inch) are available on request.

\* For T-slot 14 mm grade 12.9 is required

Maximum temperature range -30 °C to + 200 °C

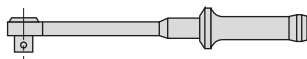
Accessories:

Torque wrench 20 - 100 Nm

**Part no. 9.3792.6610**

Torque wrench 40 - 200 Nm

**Part no. 9.3792.6620**



Example of application:  
Power clamping nut  
Product line MD  
for clamping chain  
wheels during milling

