

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

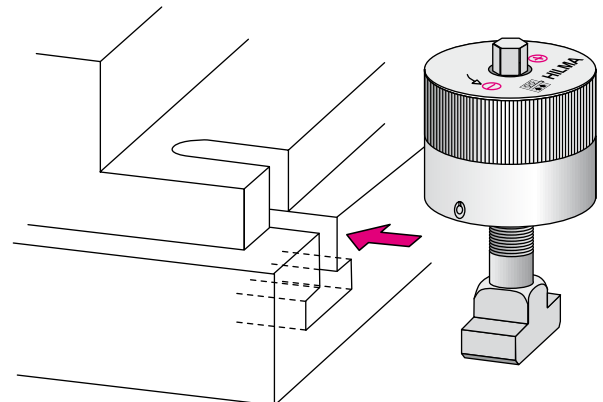
Function:

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





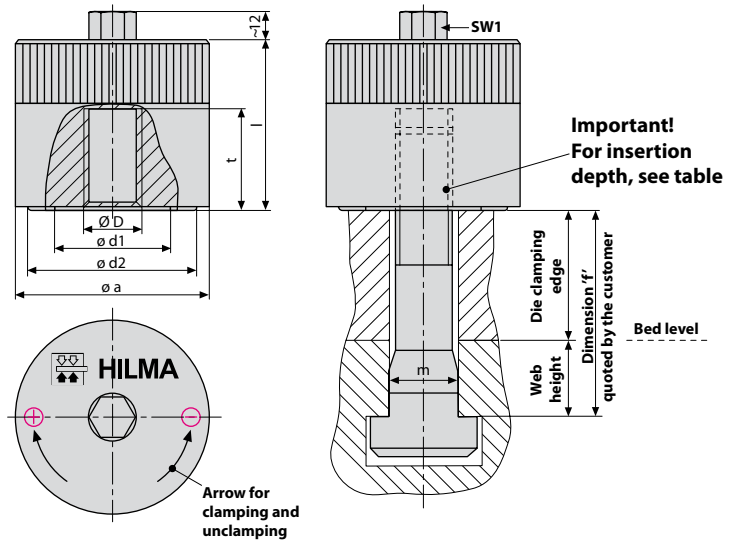
Clamping nut, mechanical, type MS

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	17
Insertion depth min. (mm)	16	16	25	30	30	35
Insertion depth max. (mm)	24	24	35	40	40	45
Clamping nut with T-bolt Part no.	2275-816	2275-820	2276-824	2277-830	2277-836	2278-836
Approx. weight (kg)	2,0	2,1	3,2	5,5	6,5	6,5
Clamping nut without T-bolt Part no.	2275-716	2275-720	2276-724	2277-730	2277-736	2278-736
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

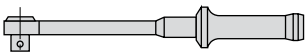
Accessories:

Torque wrench 20 - 100 Nm

Part no. 9.3792.6610

Torque wrench 40 - 200 Nm

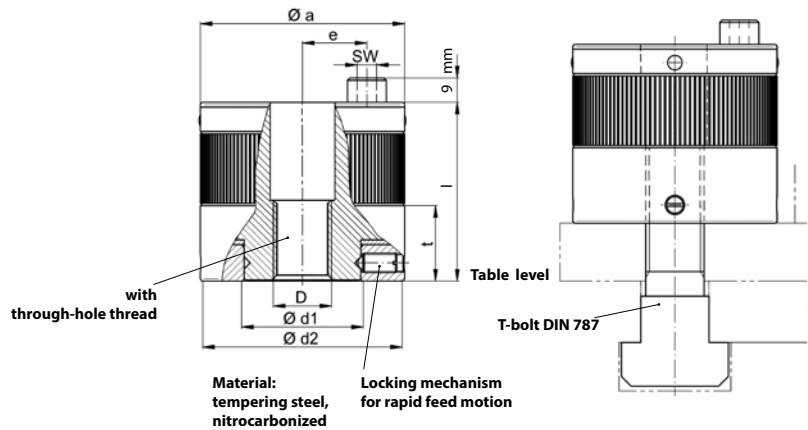
Part no. 9.3792.6620



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
Clamping nut, separate Part no.	8.2275.0005	8.2275.0006	8.2275.0007	8.2276.0004	8.2277.0004	8.2277.0005
Approx. weight (kg)	1,6	1,6	1,6	2,5	3,9	3,8
T-bolt Part no.	1.0787.1210*	1.0787.1169	1.0787.0211	1.0787.1246	1.0787.0308	1.0787.0422

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

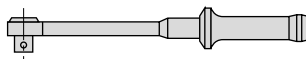
Accessories:

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

