

4 Type
R Clamping by clockwise rotation (d₂ = right-hand thread)

1 d ₁		2 d ₂	3 Length l	h ₁	h ₂	r ₁	r ₂	s ₁	s ₂	A/F	x ±0,2	z ±0,2	Max. tightening torque in Nm	Max. clamping force F in kN
Nominal dimension	Actual dimension													
9	9,2	M 4	8	3	3	4	4,6	1	0,6	2,5	3,5	4,2	1,5	0,09
12	11,7	M 5	10	4	3,5	5	5,7	1,16	0,7	3	4,2	5,2	2	0,1
14	14,2	M 6	12	5	4,5	6,1	7,1	1,44	1	4	5,4	6,4	5	0,3
18	18	M 8	16	6	5,5	7,7	9	1,84	1,2	5	6,6	8	22	2,7
22	22,2	M 10	20	7	6,5	9,4	11,1	2,16	1,7	6	8,3	9,8	35	4,0
26	25,8	M 12	24	9	8	11,6	13,6	2,53	1,9	8	10,1	12	45	5,4

Specification

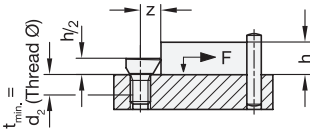
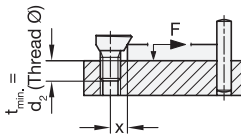
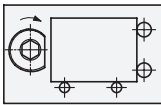
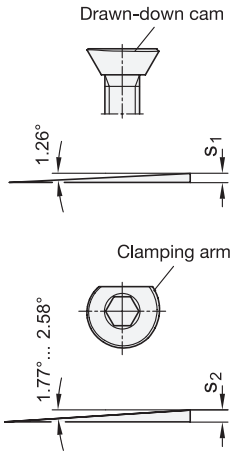
- Steel
 - Case-hardened HRC 56 ±1
 - Property class 8.8
 - Zinc plated, blue passivated
- *Strength Values of Screws* → Page 2152
- RoHS

Information

Cam point screws GN 418.2 are sturdy and compact elements, requiring a minimum of installation space and offering ultimate convenience and ease in handling.

The clamping forces F given in the table refer to the maximum permitted tightening torque and the specified screw-in depth t.

How to order	1 d ₁
	2 d ₂
	3 Length l
GN 418.2-26-M12-24-R	4 Type



Function

The head of the cam point screw has two cams: a radial clamping cam (with additional 30° taper) and an axial draw-down cam.

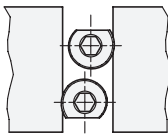
The cam ensures that the clamping force is the same in any angular position. The cam is also self-locking.

Force components act on the clamping point which generate a draw-down effect and which, in addition to the friction, cause the workpiece to be pressed against a fixed stop. An additional draw-down effect is created by the thread and the 30° taper.

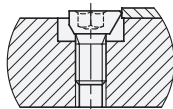
Assembly instructions

- Position the thread bore(s) as specified
- Screw the cam point screw in to the desired height and place it with its flat side facing the workpiece (note the minimum screw-in depth t)
- For clamping effect above the head taper, the minimum clamping height should be h_2
- A turn of approx. 135° is required for clamping

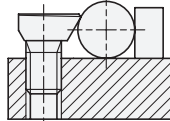
Application examples



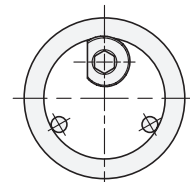
Multiple clamps in the narrowest of space



Clamping flat workpieces (sheet metal)



Clamping round workpieces



Centric clamping in a bore hole

1.1
1.2
1.3
1.4
2.1
2.2
2.3
2.4

