



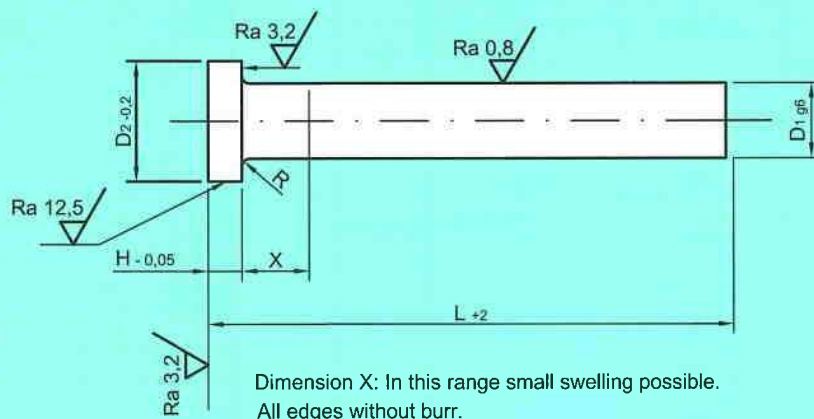
Copper core pins Type A

- with cylindrical head



similar DIN ISO 6751

(former similar to DIN 1530 Teil 1)



Application

Well-directed cooling of mould parts and injection moulds with highly heat conductive core pins or profiled ejector pins.

Advantages

- better product quality by optimized temperature distribution
- reduction of cycle time
- long bore hole life time by optimized surface
- higher heat conductivity than WS- or WAS-core pins

Dimensions

Refer to chart overleaf - all dimensions are shown in "mm"

Tolerances

Shaft diameter D_1

	1,5 - 3 Ø	3,2 - 6 Ø	7 - 10 Ø	12 - 16 Ø
g 6	- 0,002 - 0,008	- 0,004 - 0,012	- 0,005 - 0,014	- 0,006 - 0,017

Overall length $L +2$

For other tolerances please refer to drawing or chart.
Untoleranced dimensions according to DIN ISO 2768-m.

Material

Special beryllium-free copper alloy

Characteristics

- conductivity approx. 6 times higher than regular tool steel
- similar heat expansion coefficient to that of tool steel
- corrosion resistant
- very good workability (turning, milling, polishing, corroding, sparking)
- possibility of surface coating

Technical data

Tensile strength R_m : 650 - 750 N/mm²
 Yield point R_p (0,2 % creep limit) 500 - 650 N/mm²
 Specific heat approx. 380 J/kgK
 Heat conductivity at 20° C / 68° F approx. 200 W/mK
 Heat expansion coefficient 20 - 200° C 0,00016 K
 Softening point 420° C / 788° F

Hardness

Shaft: HB 185 - 210

Finish

Ground shaft, hot forged cylindrical head

Shaft-Ø D ₁ g6	Head-Ø D ₂ -0,2	Head height H -0,05	Radius R +0,2	Overall length L + 2							
				100	160	200	250	315	400	500	
2,0	4	2	0,2								
2,5	5										
2,7		6	3	0,3							
3,0											
3,2	7										
3,5											
3,7	8										
4,0											
4,2	10	5	0,5								
4,5											
5,0	12	7	0,8								
5,2											
6,0	14	7	0,8								
6,2											
7,0	16	7	0,8								
8,0											
8,2	18	7	0,8								
10,0											
12,0	22	7	0,8								
14,0											
16,0											

The marked squares indicate **DREI-S** standard sizes.
Other sizes on request.

Remarks

Before injecting glass fibre reinforced plastics a surface coating for reducing abrasive wearout is recommended.
 Consultation and coating:
Company Novo-Plan, Robert-Bosch-Street 41, 73431 Aalen (phone: 0049 7361 / 9284-0), or your local coating company.