Dimension table DIN 7991 / ISO 10642 — hexagon socket countersunk head screws (90°)

Dimensions in mm to ISO 10642 (M3–M20; DIN 7991 has been superseded by it) and DIN 7991 (M24). dk = theoretical head diameter, k = head height, s = hexagon socket size. Stainless steel: tighten slowly and use assembly paste where needed to prevent galling; tightening torques as specified by your supplier.

Dimensions

size	pitch P	head diameter dk	head height k	key size s
M3	0.5	6.72	1.86	2
M4	0.7	8.96	2.48	2.5
M5	0.8	11.2	3.1	3
M6	1	13.44	3.72	4
M8	1.25	17.92	4.96	5
M10	1.5	22.4	6.2	6
M12	1.75	26.88	7.44	8
M16	2	33.6	8.8	10
M20	2.5	40.32	10.16	12
M24	3	39	14	14

Property classes (ISO 3506-1 / ISO 898-1)

A2-50	stainless steel A2 (AISI 304), tensile strength 500 N/mm², 0.2 % proof stress 210 N/mm²
A2-70	stainless steel A2, cold worked, 700 N/mm², proof stress 450 N/mm²
A4-70	stainless steel A4 (AISI 316, acid resistant), 700 N/mm²
8.8 / 10.9	zinc-plated or plain steel, 800 resp. 1,000 N/mm² (ISO 898-1)