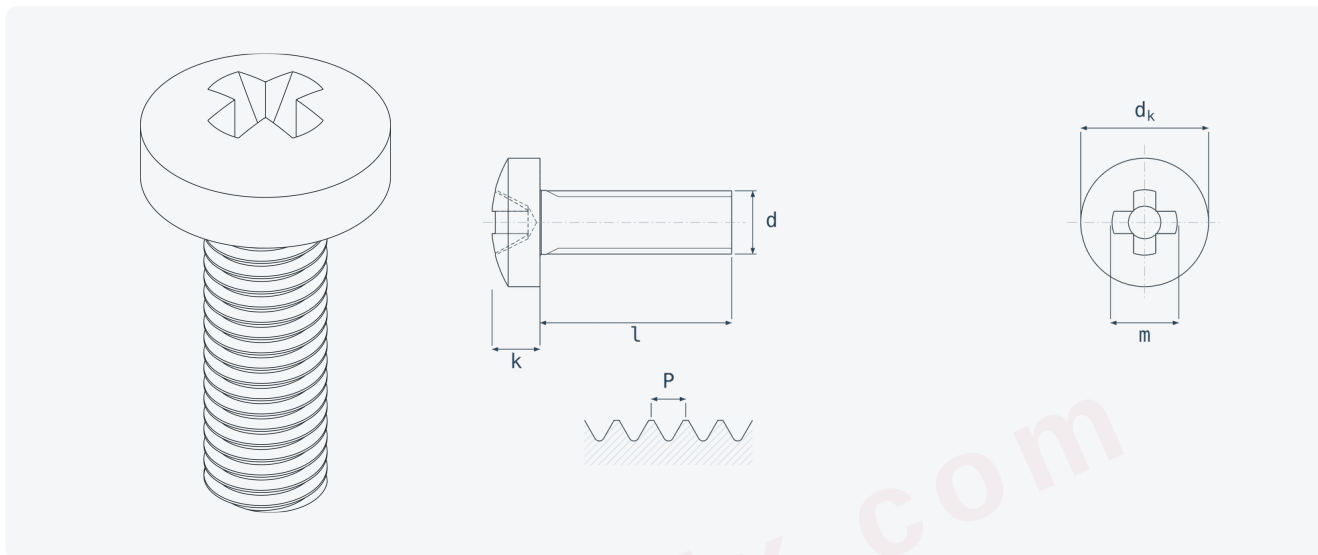


DIN 7985 Phillips Pan Head Machine Screw



STANDARD

DIN 7985 Cross Recessed Pan Head Screw · withdrawn

THREAD

ISO metric coarse pitch

SIZES

M1.6 - M10 · lengths 6 – 300 mm

MATERIAL

Stainless Steel, Carbon Steel

PROPERTY CLASS

A2-70, A4-80 (ISO 3506-1) · 4.8, 8.8 (ISO 898-1)

SURFACE

Passivated, Plain, Zinc Plated, Nickel Plated, Phosphate, Blackened

DIN 7985 is a withdrawn legacy standard; the current standard for this product is ISO 7045. This sheet follows DIN 7985. The two can differ in some dimensions; our website compares them size by size.

BASIS OF SPECIFICATION

DIMENSIONS

DIN 7985:1990-08

CARBON STEEL / ALLOY STEEL

DIN ISO 898 part 1

STAINLESS STEEL

ISO 3506-1:2020

LENGTH TOLERANCE

to be agreed

THREAD LENGTH

to be agreed

MINIMUM USABLE THREAD LENGTH

to be agreed

DIMENSIONS

mm · DIN 7985

d	P	dk	k nom.
M1.6	0.35	3.2	1.3
M2	0.4	4	1.6
M2.5	0.45	5	2
M3	0.5	6	2.4
M3.5	0.6	7	2.7
M4	0.7	8	3.1
M5	0.8	10	3.8
M6	1	12	4.6
M8	1.25	16	6
M10	1.5	20	7.5

P thread pitch dk head diameter k nominal head height

MECHANICAL PROPERTIES

ISO 3506-1

Class	Rm min.	Yield requirement	Elongation requirement	Hardness
A2-70	700 MPa	Rp0.2 min. 450 MPa	0,4d mm	—
A4-80	800 MPa	Rp0.2 min. 600 MPa	0,3d mm	—

MECHANICAL PROPERTIES

ISO 898-1

Class	Rm min.	Yield requirement	Elongation requirement	Hardness
4.8	420 MPa	Rpf min. 340 MPa (not a test value)	Af min. 0.24	130 - 220 HV
8.8 up to M16	800 MPa	Rp0.2 min. 640 MPa	A min. 12 %	250 - 320 HV

MARKING

Carbon steel / Alloy steel: head marking to DIN ISO 898 part 1.

Stainless steel: head marking to ISO 3506-1:2020.

Marking requirements are set by the material standard named above.

Confirm the ordered property class before production.

DOCUMENTS

EN 10204 3.1 material certificate, dimensional inspection report and mechanical test report, on request.