

ISO 7379

Hexagon socket head shoulder screws



Standard	ISO 7379		
Product Type	Lays down the specification for products with metric dimensions and nominal shoulder diameters form 6,5 mm up to and including 25 mm; gives geometrical tolerances; includes specifications with reference to International Standards; gives an example for the designation.		
Material	Alloy Steel, Stainless Steel		
Property Class	12.9 (ISO 898-1) · A2-70 (ISO 3506-1)		
Surface Finish	Blackened, Plain		
Size Range	M5 - M20	Length Range	10-100 mm
Thread	ISO metric coarse pitch		

BASIS OF SPECIFICATION

WHICH STANDARD GOVERNS WHAT

Dimensions to	ISO 7379:1983
Carbon steel / Alloy steel mechanical properties to	ISO 898-1:2013
Stainless steel mechanical properties to	ISO 3506-1:2020
Product grade	A
Length tolerance	to be agreed
Thread length	to be agreed
Minimum usable thread length	to be agreed

MECHANICAL PROPERTIES

REQUIRED VALUES PER ISO 898-1

Class	Rm min.	Yield requirement	Elongation requirement	Hardness	Source
12.9	1220 MPa	Rp0.2 min. 1100 MPa	A min. 8 %	385 - 435 HV	ISO 898-1

MECHANICAL PROPERTIES

REQUIRED VALUES PER ISO 3506-1

Class	Rm min.	Yield requirement	Elongation requirement	Hardness	Source
A2-70	700 MPa	Rp0.2 min. 450 MPa	0,4d mm	-	ISO 3506-1

DIMENSIONAL DATA - SIZES WE SUPPLY

ALL DIMENSIONS PER THE STANDARD

d	P	ds	ds (min)	ds (max)	b (min)	b (max)	dk (min)	dk (max)	k (min)	k (max)	s	t (min)
Diameter - mm	Thread Pitch - mm	Shoulder Diameter - mm	Shoulder Diameter - mm	Shoulder Diameter - mm	Effective Thread Length - mm	Thread Length - mm	Head Diameter - mm	Head Diameter - mm	Head Height - mm	Head Height - mm	Hex Socket Size - mm	Socket Depth - mm
M5	0.8	6.5	6.451	6.487	9.25	9.75	9.78	10	4.32	4.5	3	2.4
M6	1	8	7.951	7.987	10.75	11.25	12.73	13	5.32	5.5	4	3.3
M8	1.25	10	9.951	9.987	12.75	13.25	15.73	16	6.78	7	5	4.2
M10	1.5	13	12.941	12.984	15.6	16.4	17.73	18	8.78	9	6	4.9
M12	1.75	16	15.941	15.984	17.6	18.4	23.67	24	10.73	11	8	6.6
M16	2	20	19.928	19.98	21.6	22.4	29.67	30	13.73	14	10	8.8
M20	2.5	25	24.928	24.98	26.6	27.4	35.61	36	15.73	16	12	10

MARKING

Carbon steel / Alloy steel

Head marking to ISO 898-1:2013

Stainless steel

Head marking to ISO 3506-1:2020

Marking requirements are set by the material standard named above, not by the product standard. Confirm the ordered property class before production.

INSPECTION DOCUMENTS WE CAN ISSUE

EN 10204 3.1 material certificate

Can be included when agreed in the order.

Dimensional inspection report

Can be provided for the agreed inspection scope.

Certificate of conformity

Can be issued against the confirmed order requirements.

Mechanical test report

Available when the required tests are agreed before production.

Chemical analysis report

Available when the material verification scope is agreed.

Coating inspection report

Can record the coating checks agreed for the order.

REFERENCES & NOTES

Note: Dimensional values follow the selected execution standard. Material properties and batch test results are included only when declared or supported by the applicable certificate or test report.