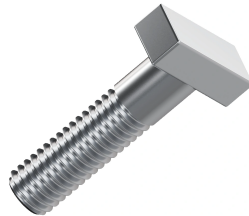


DIN 261

T-head bolts



Standard	DIN 261		
Product Type	Metric T-head bolts for slots and machine constructions, M8 to M100x6.		
Material	Stainless Steel, Carbon Steel		
Property Class	A2-70, A4-80 (ISO 3506-1) · 8.8 (ISO 898-1)		
Surface Finish	Passivated, Plain, Zinc Plated		
Size Range	M8 - M100	Length Range	30-400 mm
Thread	ISO metric coarse pitch		

BASIS OF SPECIFICATION

WHICH STANDARD GOVERNS WHAT

Dimensions to	DIN 261:2010-12
Carbon steel / Alloy steel mechanical properties to	DIN EN ISO 898-1
Stainless steel mechanical properties to	ISO 3506-1:2020
Product grade	C
Length tolerance	to be agreed
Thread length	to be agreed
Minimum usable thread length	to be agreed

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
A4-80	800 MPa	Rp0.2 min. 600 MPa	0,3d mm	-	ISO 3506-1

MECHANICAL PROPERTIES

REQUIRED VALUES PER ISO 898-1

Class	Rm min.	Yield requirement	Elongation requirement	Hardness	Source
8.8	800 MPa	Rp0.2 min. 640 MPa	A min. 12 %	250 - 320 HV	ISO 898-1 (d ≤ M16)

DIMENSIONAL DATA - SIZES WE SUPPLY

ALL DIMENSIONS PER THE STANDARD

d Diameter - mm	P Thread Pitch - mm	b (l ≤ 120) Thread Length - mm	b (120 < l ≤ 200) Thread Length - mm	b (l > 200) Thread Length - mm	ds (max) Body Diameter - mm	ds (min) Body Diameter - mm	k (max) Head Height - mm	k (min) Head Height - mm	n (max) Head Thickness - mm	n (min) Head Thickness - mm	m (max) Head Width - mm	m (min) Head Width - mm
M8	1.25	22	-	-	8.58	7.42	5.9	5.1	8.75	7.25	18.9	17.1
M10	1.5	26	-	-	10.58	9.42	7.5	6.5	10.75	9.25	22	20
M12	1.75	30	-	-	12.7	11.3	8.75	7.25	12.9	11.1	27	25

d Diameter - mm	r Minimum Radius (approx.) - mm	da (max) Underhead Diameter - mm	db Internal Thread	t Internal Thread Length - mm
M8	0.4	10.2	-	-
M10	0.4	12.2	-	-
M12	0.6	14.7	-	-

FURTHER SIZES IN THIS STANDARD

ALL DIMENSIONS PER THE STANDARD

Not held in stock. Available to order; minimum order quantity applies.

d Diameter - mm	P Thread Pitch - mm	b (l ≤ 120) Thread Length - mm	b (120 < l ≤ 200) Thread Length - mm	b (l > 200) Thread Length - mm	ds (max) Body Diameter - mm	ds (min) Body Diameter - mm	k (max) Head Height - mm	k (min) Head Height - mm	n (max) Head Thickness - mm	n (min) Head Thickness - mm	m (max) Head Width - mm	m (min) Head Width - mm
M16	2	38	44	57	16.7	15.3	11.4	9.6	16.9	15.1	31	29
M20	2.5	46	52	65	20.84	19.16	13.9	12.1	21	19	37.25	35.75
M24	3	54	60	73	24.84	23.16	15.9	14.1	25	23	44.25	41.75
M30	3.5	66	72	85	30.84	29.16	20	18	31	29	55.5	52.5
M36	4	78	84	97	37	35	24	22	37.25	34.75	67.5	64.5
M42	4.5	90	96	109	34	33	27	25	43.25	40.75	81.5	78.5
M48	5	-	108	121	38	37	31	29	49.25	46.75	89.75	86.25
M56	5.5	-	124	137	45	44	36.25	33.75	57.5	54.5	103.75	100.25
M64	6	-	130	143	50	49	41.25	38.75	65.5	62.5	116.75	113.25
M72	6	-	-	169	55	53.8	46.25	43.75	73.5	70.5	130	126
M80	6	-	-	185	65	63.8	51.25	48.75	81.5	78.5	142	138
M90	6	-	-	205	70	68.8	56.5	53.5	91.75	88.25	157	153
M100	6	-	-	225	80	78.8	63.5	60.5	101.75	98.25	172	168

d Diameter - mm	r Minimum Radius (approx.) - mm	da (max) Underhead Diameter - mm	db Internal Thread	t Internal Thread Length - mm
M16	0.6	18.7	-	-
M20	0.8	24.4	-	-
M24	0.8	28.4	-	-
M30	1	35.4	-	-
M36	1	42.4	M12	22
M42	1.2	48.6	M12	22
M48	1.6	56.6	M12	22
M56	2	67	M16	26
M64	2	75	M16	26
M72	2	83	M16	26
M80	2	92	M20	33
M90	2.5	102	M20	33
M100	2.5	113	M20	33

MARKING

Carbon steel / Alloy steel	Head marking to DIN EN ISO 898-1
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.