

ISO 14586

Hexalobular socket countersunk head tapping screws



Standard	ISO 14586		
Product Type	ISO 14586:2011 specifies the characteristics of hexalobular socket countersunk head tapping screws with thread sizes from ST2,9 to ST6,3 inclusive. If, in special cases, specifications other than those listed in ISO 14586:2011 are required, they can be selected from existing International Standards, for example ISO 1478, ISO 2702, ISO 4759-1.		
Material	Stainless Steel, Carbon Steel		
Surface Finish	Passivated, Plain, Zinc Plated, Dacromet		
Size Range	ST2.9 - ST6.3	Length Range	4.5-50 mm
Thread	Tapping screw thread (ST) per ISO 1478		

BASIS OF SPECIFICATION

WHICH STANDARD GOVERNS WHAT

Dimensions to	ISO 14586:2011
Carbon steel / Alloy steel mechanical properties to	ISO 2702:2022
Stainless steel mechanical properties to	ISO 3506-4:2025
Product grade	A
Thread length	to be agreed
Minimum usable thread length	to be agreed

DIMENSIONAL DATA - SIZES WE SUPPLY

ALL DIMENSIONS PER THE STANDARD

d	P	a (max)	dk (max)	dk	dk (min)	k	r (max)	Socket	A (ref)	t (max)	t (min)	y (ref)	y (ref)	y (ref)
Diameter - mm	Thread Pitch - mm	Thread Runout - mm	Theoretical Head Diameter - mm	Head Diameter - mm	Head Diameter - mm	Nominal Head Height - mm	Radius - mm	Number	Hexalobular Socket A - mm	Socket Depth - mm	Socket Depth - mm	Point Length - C - mm	Point Length - F - mm	Point Length - R - mm
ST2.9	1.1	1.1	6.3	5.5	5.2	1.7	1.2	10	2.8	0.91	0.65	2.6	2.1	-
ST3.5	1.3	1.3	8.2	7.3	6.9	2.35	1.4	15	3.35	1.3	1	3.2	2.5	2.7
ST4.2	1.4	1.4	9.4	8.4	8	2.6	1.6	20	3.95	1.58	1.14	3.7	2.8	3.2
ST4.8	1.6	1.6	10.4	9.3	8.9	2.8	2	25	4.5	1.78	1.39	4.3	3.2	3.6
ST5.5	1.8	1.8	11.5	10.3	9.9	3	2.2	25	4.5	2.03	1.65	5	3.6	4.3
ST6.3	1.8	1.8	12.6	11.3	10.9	3.15	2.4	30	5.6	2.42	2.02	6	3.6	5

TECHNICAL SPECIFICATIONS

Surface Finish	Passivated, Plain, Zinc Plated, Dacromet
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MARKING

Steel — No marking clause

What	None. Neither the product standard nor ISO 2702 contains a marking clause
Sizes	
Clause	ISO 2702:2011, Clauses 1 to 6 (Scope, Normative references, Materials, Requirements, Acceptance, Test methods), none of which is a marking clause

Checked at both ends: the product standard runs only to Clause 5 Designation, and ISO 2702:2011 has no marking clause at all, so steel tapping screws to this standard carry no marking obligation.

This standard is steel only - its Material row prints a single column - so it has no ISO 3506-4 stainless marking route.

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.