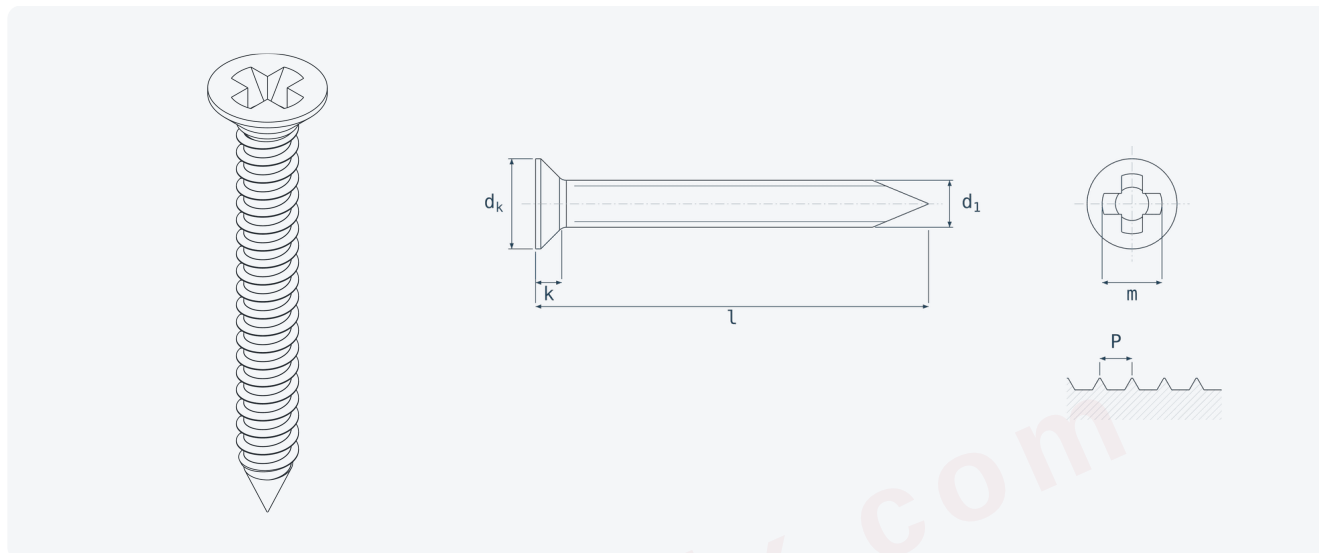


ISO 7050 Phillips Countersunk Self-Tapping Screw



STANDARD

ISO 7050 Cross-recessed countersunk head tapping screws

SIZES

ST2.2 - ST9.5 · lengths 4.5 – 50 mm

SURFACE

Passivated, Plain, Zinc Plated, Dacromet, Ruspert, Phosphate

THREAD

Tapping screw thread (ST) per ISO 1478

MATERIAL

Stainless Steel, Carbon Steel

Dimensions follow the standard named on this sheet. Material properties and batch test results come with the order's certificate or test report.

BASIS OF SPECIFICATION

DIMENSIONS

ISO 7050:2011

CARBON STEEL / ALLOY STEEL

ISO 2702:2022

STAINLESS STEEL

ISO 3506-4:2025

PRODUCT GRADE

A

Email: sales@taurusfix.com

 Web: taurusfix.com
DIMENSIONS

mm · ISO 7050

d	P	a _{max}	dk _{max}	dk	dk _{min}	k _{nom.}	r _{max}	Recess Number	m _{ref}	Type H Penetration _{max}	Type H Penetration _{min}	m _{ref}	Type Z Penetration _{max}
ST2.2	0.8	1.6	4.4	3.8	3.5	1.1	0.8	0	1.9	1.2	0.9	2	1.2
ST2.9	1.1	2.2	6.3	5.5	5.2	1.7	1.2	1	3.2	2.1	1.7	3	2.01
ST3.5	1.3	2.6	8.2	7.3	6.9	2.35	1.4	2	4.4	2.4	1.9	4.1	2.2
ST4.2	1.4	2.8	9.4	8.4	8	2.6	1.6	2	4.6	2.6	2.1	4.4	2.51
ST4.8	1.6	3.2	10.4	9.3	8.9	2.8	2	2	5.2	3.2	2.7	4.9	3.05
ST5.5	1.8	3.6	11.5	10.3	9.9	3	2.2	3	6.6	3.3	2.8	6.3	3.18
ST6.3	1.8	3.6	12.6	11.3	10.9	3.15	2.4	3	6.8	3.5	3	6.6	3.45
ST8	2.1	4.2	17.3	15.8	15.4	4.65	3.2	4	8.9	4.6	4	8.8	4.6
ST9.5	2.1	4.2	20	18.3	17.8	5.25	4	4	10	5.7	5.1	9.8	5.64

d	Type Z Penetration _{min}	y _{ref}	y _{ref}	y _{ref}
ST2.2	0.95	2	1.6	—
ST2.9	1.76	2.6	2.1	—
ST3.5	1.75	3.2	2.5	2.7
ST4.2	2.06	3.7	2.8	3.2
ST4.8	2.6	4.3	3.2	3.6
ST5.5	2.73	5	3.6	4.3
ST6.3	3	6	3.6	5
ST8	4.15	7.5	4.2	6.3
ST9.5	5.19	8	4.2	—

P thread pitch a thread runout dk theoretical head diameter k nominal head height r radius m type h recess width y point length - c

MARKING

Steel (no marking clause): 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.

Stainless steel (not mandatory on the part; required on the package): Marking the part is not mandatory. Where the hardness class symbol is marked, the manufacturer identification mark shall be there as well, as far as technically possible; the mark shall carry the steel group and hardness class, for example A4-20H. On the package, marking is required without exception: manufacturer and/or distributor identification, the steel group and hardness class symbol, and the manufacturing lot number to ISO 16426. Position: On the part where marked, and on the package in every case. Sizes: All sizes. Clause: ISO 3506-4:2009, 3.2.1 to 3.2.4, with 3.3 on delivery condition.

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.

DOCUMENTS

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