Hexagon socket cylindrical head tapping screw

ST tapping thread for pre-drilled sheet metal. Geometry, executions and materials are shown separately; enter the required length freely in the quotation request.

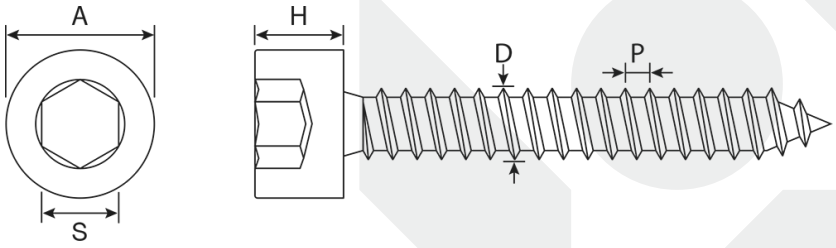
UNI 6947

Dimensional reference: UNI 6947 · Thread: ST · Drive: Hexagon socket · Units: mm



Representative geometry photograph. Material and finish are specified separately.

Technical drawing



A	Head diameter
H	Head height
S	Hexagon socket
D	External thread diameter
P	Indicative pitch
L / l	Length to specify in the enquiry; not listed in the table.

Reference geometry

Dimensions in mm. Supply lengths are not listed: specify the required length in your enquiry.

Dimensions of the Ambrovit execution identified in the sources. The ~ symbol denotes an approximate value. The table identifies geometry, not availability. For ISO executions, other point forms or a PZ recess, check differences on the variant drawing.

Thread	Limit	A	H	S	D	P
ST 4,8	Min.	9,50	5,82	5,02	4,62	~1,60
ST 4,8	Max	10,00	6,00	5,14	4,80	~1,60
ST 5,5	Min.	9,50	5,82	5,02	5,28	~1,81
ST 5,5	Max	10,00	6,00	5,14	5,46	~1,81
ST 6,3	Min.	9,50	5,82	5,02	6,03	~1,81
ST 6,3	Max	10,00	6,00	5,14	6,25	~1,81

Materials, grades, finishes and treatments

Material	Requirements	Finish
Case-hardened / hardened steel	Tapping screw requirements; specify execution	white zinc plated - documented VIPA executions
Stainless steel A2	Specify tapping screw hardness class	To be specified
Stainless steel A4	Specify tapping screw hardness class	To be specified

Material, coating, hardness and execution are confirmed in the quotation. Not all combinations are implied. Metric screw property classes such as 8.8 must not be automatically transferred to tapping screws.

Documentation

Document	Status
Declaration of conformity	Subject to order agreement
Material certificate	Subject to order agreement
EN 10204 2.2 test report	Subject to order agreement
EN 10204 3.1 inspection certificate	Subject to order agreement
Dimensional inspection report	Subject to order agreement
Coating report	Subject to order agreement
Other documentation	Subject to order agreement

Batch documents are not automatically included: specify your requirements in the RFQ.

Standards, executions and application

The screw forms its thread in a prepared hole: it is not self-drilling. Pilot-hole diameter, sheet thickness and material must be checked by assembly trials; no universal pilot-hole size is specified. ST thread is distinct from metric M thread. Related DIN, UNI and ISO references do not declare dimensional identity.

Cone point; other executions require drawing verification.

Technical references

Ambrovit 79870 · Inoxmare - catalogo / catalogue · Kilton 031 · VIPA - materiali e finiture / materials and finishes