Low socket head screw with pilot recess

A low head and hexagon socket with a pilot recess for the tool. Intended for restricted axial space, this geometry differs from low-head screws without a pilot recess: check the housing, tool and required load.

The low head and pilot recess reduce the load-bearing section. Do not automatically apply the load or torque of an ISO 4762 screw of the same class. A leading zero in the class marking denotes reduced loadability, not a different material.

Dimensional range

M5-M16

Thread

Metric · coarse pitch

Configuration

Reduced-loadability head



Technical drawing

d

thread

P

pitch

dk

head diameter

k

head height

s

hexagon socket

t1

reference socket depth

t2

minimum depth including pilot recess.

Variants and dimensional data

Commercial dimensions M5-M16. Lengths are recorded for each diameter; other diameters and lengths can be assessed on request, including dedicated production for substantial quantities.

Dimensions in mm. Identification drawing, not a manufacturing drawing.

M	Pitch P	dk max.	k max.	s	t1 ref.	t2 min.
5	0.8	8.5	3.5	4	2	4
6	1	10	4	5	2.5	5
8	1.25	13	5	6	3	6.5
10	1.5	16	6.5	8	3.5	7.5
12	1.75	18	7.5	10	4	9
14	2	21	8.5	12	4.5	10
16	2	24	10	14	5.5	11.5

Full or partial threading must be confirmed for the individual size and supply. Listed commercial lengths do not guarantee a plain-shank length; b remains ND where the configuration has not been confirmed.

Indicative supplier-catalogue weight for each steel diameter/length combination. It is not a normative or certified batch weight; do not transfer values to stainless steel.

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Table dimensions refer to the stated execution. DIN/UNI, polymer and special variants require verification of their own dimensions; they do not automatically inherit reference geometry, weight or performance.

Materials, classes, finishes and treatments

Executions are distinguished by reference, material, class and finish. DIN, ISO and UNI references do not imply dimensional equivalence or availability of every size in each material. Supply and batch documents require quotation confirmation.

Execution reference	Material	Class / hardness	Documented finishes
DIN 6912	Steel	8.8 (reduced loadability)	Plain; Zinc plated
DIN 6912	Steel	08.8	GEOMET 321A; Plain; Zinc plated
DIN 6912	Steel	010.9	Plain; Zinc plated
DIN 6912	Stainless A2	To be specified	To be specified
DIN 6912	Stainless A4	To be specified	To be specified
DIN 6912	Steel	10.9 (reduced loadability)	Zinc plated

“To be specified” is a requirement not established by this selection; it does not imply class 70/80, HV hardness or an automatic finish. Steel property classes do not apply to nylon/polyamide; PA6 and PA66 are distinguished only where stated. For nuts with non-metallic inserts, the material shown is the body material.

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.

ISO, DIN and UNI: key differences

DIN 6912

DIN 6912 identifies the pilot-recess configuration. Confirm commercial dimensions with supply tolerances and specifications; it is not equivalent to DIN 7984 without a pilot recess.