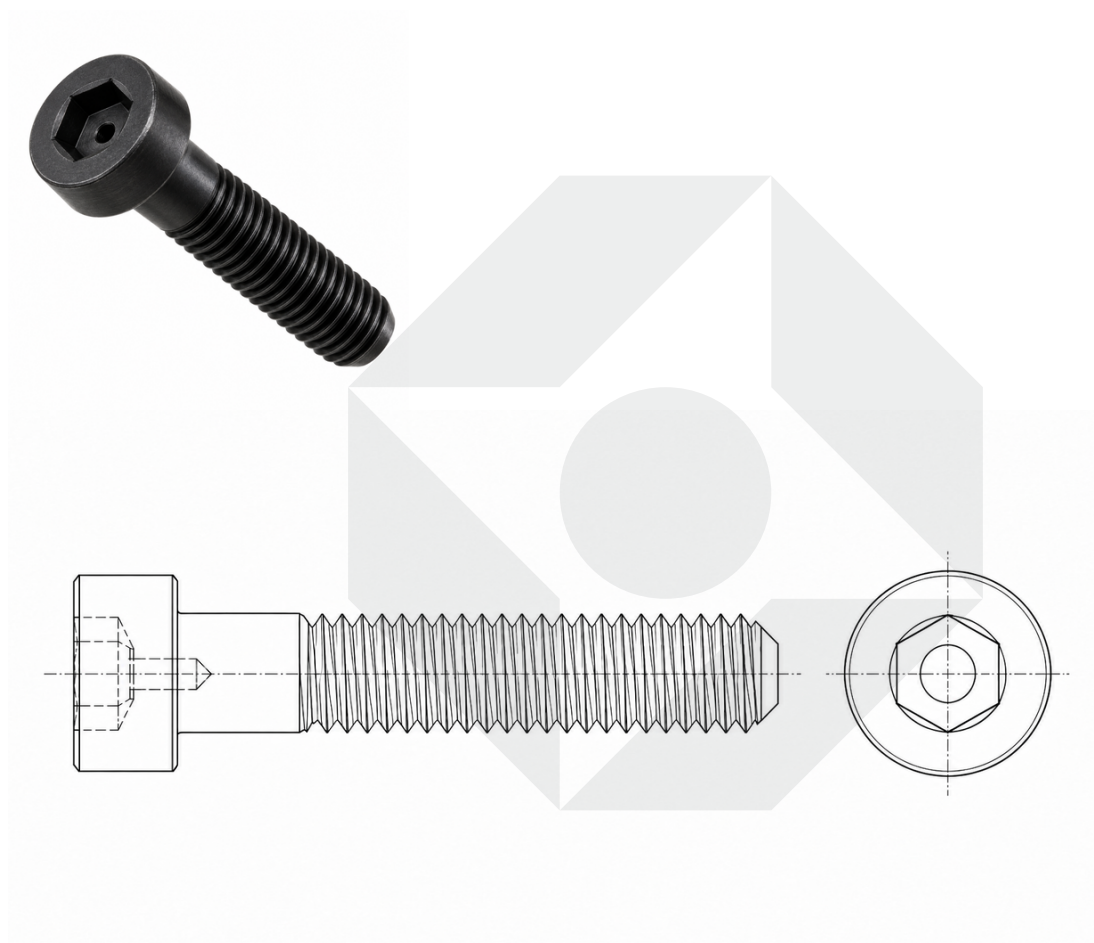


DIN 6912

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.

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.



d: thread · P: pitch · dk: head diameter · k: head height · s: hexagon socket · t1: reference socket depth · t2: minimum depth including pilot recess.

Identification drawing, not a manufacturing drawing.

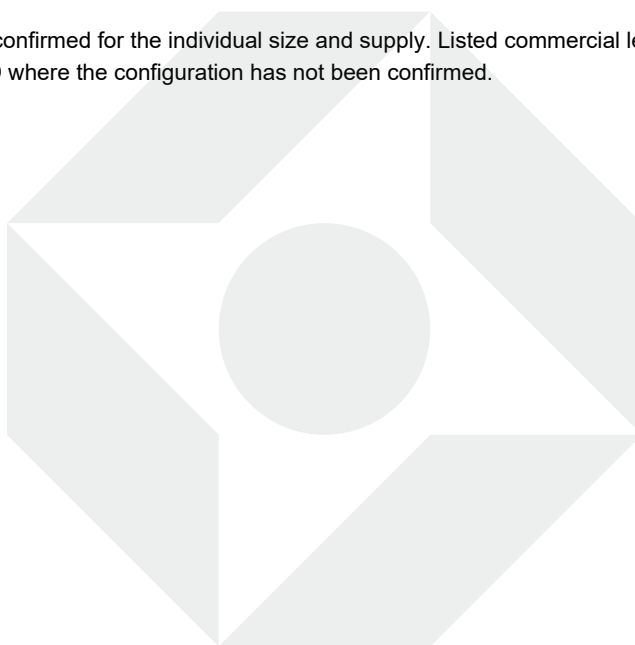
Dimensional range

Dimensions in millimetres.

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

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.

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.



Commercial lengths by diameter

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.

M	L (mm)
M5	10, 12, 14, 16, 18, 20, 25, 30, 35, 40, 45, 50, 55, 60
M6	10, 12, 14, 16, 18, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 80
M8	12, 14, 16, 18, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 80
M10	16, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 80, 90
M12	16, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 80, 90, 100
M14	20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 80, 90, 100
M16	20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 80, 90, 100



Indicative weight by size - steel

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.

M	L (mm)	kg / 1,000
M5	10	2.2
M5	12	2.5
M5	14	2.8
M5	16	3.1
M5	18	3.4
M5	20	3.7
M5	25	4.4
M5	30	5.1
M5	35	5.8
M5	40	6.5
M5	45	7.2
M5	50	7.9
M5	55	8.6
M5	60	9.3
M6	10	3.6
M6	12	3.9
M6	14	4.2
M6	16	4.5
M6	18	4.8
M6	20	5.1
M6	25	6.2
M6	30	7.3
M6	35	8.3
M6	40	9.5
M6	45	10.5
M6	50	11.5
M6	55	12.5
M6	60	13.6
M6	70	15.8
M6	80	17.9

M	L (mm)	kg / 1,000
M8	12	7.7
M8	14	8.2
M8	16	8.8
M8	18	9.5
M8	20	10.2
M8	25	12.5
M8	30	14.0
M8	35	15.7
M8	40	17.5
M8	45	19.5
M8	50	21.5
M8	55	23.4
M8	60	25.3
M8	70	29.1
M8	80	32.8
M10	16	15.5
M10	20	17.0
M10	25	20.2
M10	30	22.0
M10	35	25.5
M10	40	28.5
M10	45	31.6
M10	50	34.8
M10	55	37.5
M10	60	40.3
M10	70	46.0
M10	80	52.5
M10	90	57.8
M12	16	22.3
M12	20	25.5
M12	25	29.5
M12	30	32.5

M	L (mm)	kg / 1,000
M12	35	36.5
M12	40	40.0
M12	45	44.0
M12	50	48.0
M12	55	52.0
M12	60	57.0
M12	70	65.0
M12	80	72.0
M12	90	80.0
M12	100	88.0
M14	20	37.9
M14	25	42.5
M14	30	48.0
M14	35	53.0
M14	40	58.0
M14	45	63.0
M14	50	69.5
M14	55	75.5
M14	60	82.0
M14	70	92.5
M14	80	104.0
M14	90	116.0
M14	100	127.0
M16	20	52.6
M16	25	56.5
M16	30	63.0
M16	35	69.7
M16	40	78.7
M16	45	85.3
M16	50	91.5
M16	55	99.0
M16	60	107.0

M	L (mm)	kg / 1,000
M16	70	122.0
M16	80	140.0
M16	90	154.0
M16	100	169.0



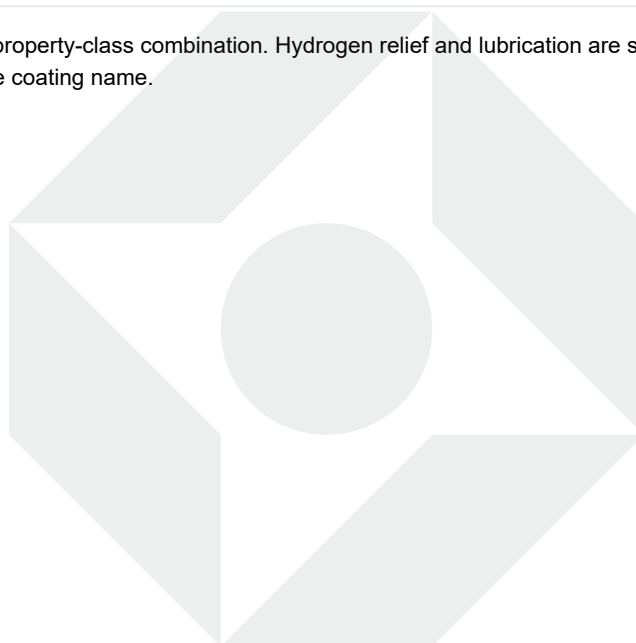
Materials and classes

Material	Class / hardness	M	Supply
Steel to mechanical specification	8.8	M5–M16	On request
Steel to mechanical specification	10.9	M5–M16	On request

Finishes and treatments

Finish	Material	Class	M
Black oxide	Steel to mechanical specification	8.8	M5–M16
Black oxide	Steel to mechanical specification	10.9	M5–M16

Select the finish for the material/property-class combination. Hydrogen relief and lubrication are separate process requirements, not certificates and not implied by the coating name.



Standards, documents and enquiry

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.

For this reduced-loadability geometry, select the nut, washer and tightening conditions through a joint assessment. Do not automatically transfer mating-component or preload recommendations from a full-loadability screw of the same property class.

Supply documentation

Declaration of conformity; Material certificate; EN 10204 2.2 test report; EN 10204 3.1 inspection certificate; Dimensional inspection report; Coating report; Other documentation

Documents are subject to order agreement; no batch certificate is automatically included.

Related components

DIN 7984, ISO 4762. Match nominal diameter, pitch, strength, material, finish and joint conditions.

Request a quote

Specify standard, diameter, pitch and length where applicable, material, property class or hardness, finish, quantity and documents. Other sizes and dedicated production can be assessed on request, with agreed minimum quantities.

Reference technical configurations: these do not represent stock quantities.

Other materials and specifications

For requirements beyond the tabulated combinations, enquire about aluminium, brass, nylon, duplex, superduplex or an ASTM specification. Alloy or grade, dimensions, mechanical requirements and finish are defined for the enquiry; the geometric reference does not automatically imply conformity with the product standard.

