

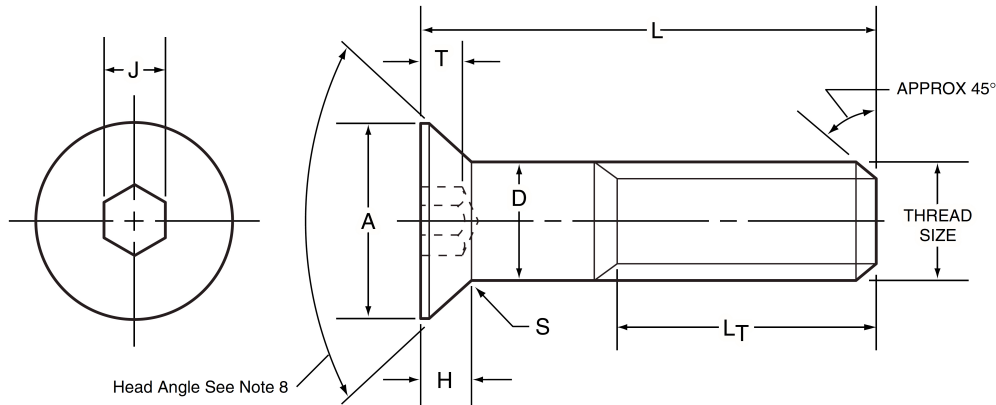
SOCKET SCREWS / METRIC SERIES

Countersunk Socket Head Screws

ISO 10642

ראש שקוע

REV. 05 / TECHNICAL SUPPLEMENT



DIMENSION TABLE

Selected dimensions / mm

Thread	Pitch	A max.	H ref.	J nom.
M3	0.5	6.72	1.7	2
M4	0.7	8.96	2.3	2.5
M5	0.8	11.2	2.8	3
M6	1	13.44	3.3	4
M8	1.25	17.92	4.4	5
M10	1.5	22.4	5.5	6
M12	1.75	26.88	6.5	8
M16	2	33.6	7.5	10
M20	2.5	40.32	8.5	12

Pitch — thread pitch; A — head diameter; H — head height; J — hex socket size. max. — maximum; nom. — nominal; ref. — reference dimension.

TECHNICAL NOTES

See page 2 for product scope, properties and application notes.

A is maximum to the theoretical sharp corner. Head angle: 90-92 degrees for displayed sizes. M24 remains excluded pending product identification. Supplier data does not establish stock, coating or full conformity to the named standard.

PROPERTIES & APPLICATION NOTES

Verified properties and application notes

Scope - These properties apply to the specified supplier product; it does not certify every Metal-Ad item or establish full conformity to the named DIN/ISO standard.

Property class - 12.9

Hardness - Rc 38-43

Tensile stress - 1040 MPa

Yield stress - 945 MPa

Thread class - 4g 6g

Threads - ANSI B1.13M; ISO 262, coarse series only

Shear stress - 630 MPa

Head angle - 90-92 degrees through M20; 60-62 degrees for larger sizes in this supplier catalog. M24 remains excluded pending product identification.

Dimensions / standard reference - B18.3.5M. DIN EN ISO 10642 is listed as an applicable or similar specification. DIN 7991 equivalence is not assumed.

Application - The supplier recommends flat and button heads for moderate fastening applications such as guards, hinges and covers; not critical high-strength applications.

Length tolerance - Up to 16 mm: +/-0.3 mm; over 16 through 60 mm: +/-0.5 mm; over 60 mm: +/-0.8 mm.

Torque guidance - Supplier torque values apply to plain screws and are calculated to induce 420 MPa in the threads. They are guidelines only; induced loads may vary by +/-25% with mating interface conditions, lubrication, finish, hardness and bolt/joint compliance. No universal installation torque is specified here.

Finish and supply - No verified Metal-Ad coating or availability is established here.