Hexagon socket set screw with cone point

Headless screw for locking and positioning. Dimensions, materials and surface treatments grouped in one data sheet.

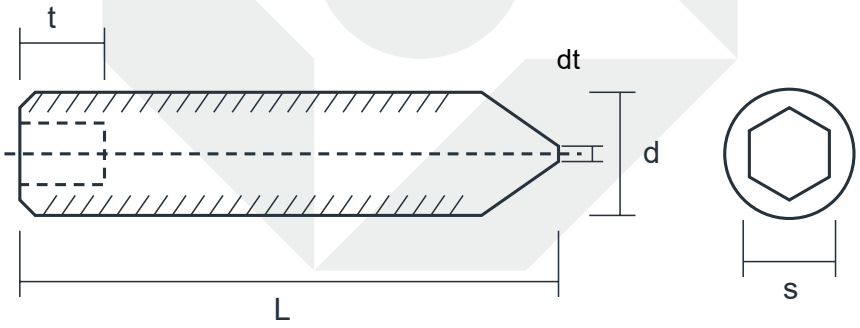
ISO 4027 / DIN 914

Dimensional reference: ISO 4027 · DIN reference: DIN 914 · Drive: Hexagon socket · Units: mm



Representative geometry photograph. Material and finish are specified separately.

Technical drawing



Schematic, not to scale. The table defines dimensions.

d: Nominal thread · L: Overall length · s: Hexagon socket size · t: Minimum socket depth · dt max.: Point diameter

Reference geometry

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

Values separated by / distinguish geometric executions. Socket depth and point form depend on the execution and must be confirmed on the required drawing.

d	s	t min.	dt max.	α (°)
M3	1.5	1.2 / 2	0.75	120 / 90
M4	2	1.5 / 2.5	1	120 / 90
M5	2.5	2 / 3	1.25	120 / 90
M6	3	2 / 3.5	1.5	120 / 90
M8	4	3 / 5	2	120 / 90
M10	5	4 / 6	2.5	120 / 90
M12	6	4.8 / 8	3	120 / 90
M14	6	5.6 / 9	4	120 / 90
M16	8	6.4 / 10	4	120 / 90
M18	10	7.2 / 11	5	120 / 90
M20	10	8 / 12	5	120 / 90
M22	12	9 / 13.5	6	120 / 90
M24	12	10 / 15	6	120 / 90

Materials, grades, finishes and treatments

Material	Grade / hardness	Finish
Steel	45H	Uncoated; Zinc plated clear; zinc flake
Stainless steel A2	To specify according to ISO 3506-3	To specify
Stainless steel A4	To specify according to ISO 3506-3	To specify

45H is a set-screw hardness class according to ISO 898-5, not tensile property class 8.8 or 10.9. For stainless steel, specify the class according to ISO 3506-3. Dueemme confirms material, finish and size in its quotation.

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, types and application

The dimensional table refers to ISO 4027. DIN 914 and UNI 5927 are related references: verify the edition and differences before substitution.

Set screws lock by point pressure against the component. They are not intended for tensile loading like headed screws. Assess tightening torque and component strength for the actual joint.

For high-hardness steels with electroplated finishes, assess hydrogen embrittlement and ISO 4042 requirements; post-treatment alone does not guarantee elimination of the risk.

Technical references

Berardi - ISO 4027 / DIN 914

Inoxmare - ISO 4027 / DIN 914 A2 / A4

Vite senza testa (grano) estremità conica DIN 914 acciaio classe 45H Zincato bianco

Vite senza testa (grano) estremità conica DIN 914 inox A2

Vite senza testa (grano) estremità conica DIN 914 acciaio classe 45H Zinco lamellare Geomet® 321

Vite senza testa (grano) estremità conica DIN 914 acciaio classe 45H