



REKOR VIDA

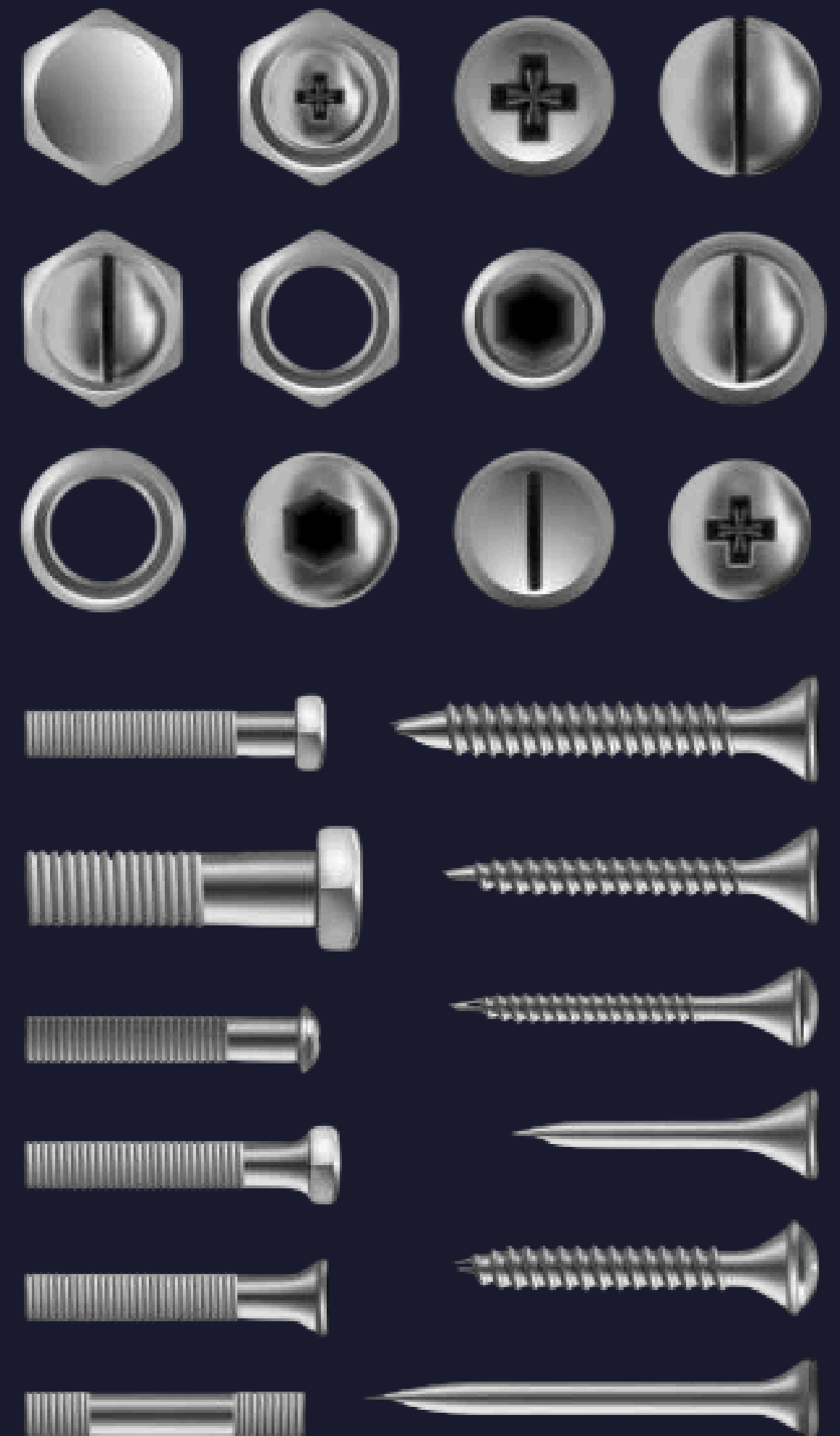
We Shape Wire

Professional Fasteners

rekorvida.com

rekor@rekorvida.com

(0216) 452 08 68





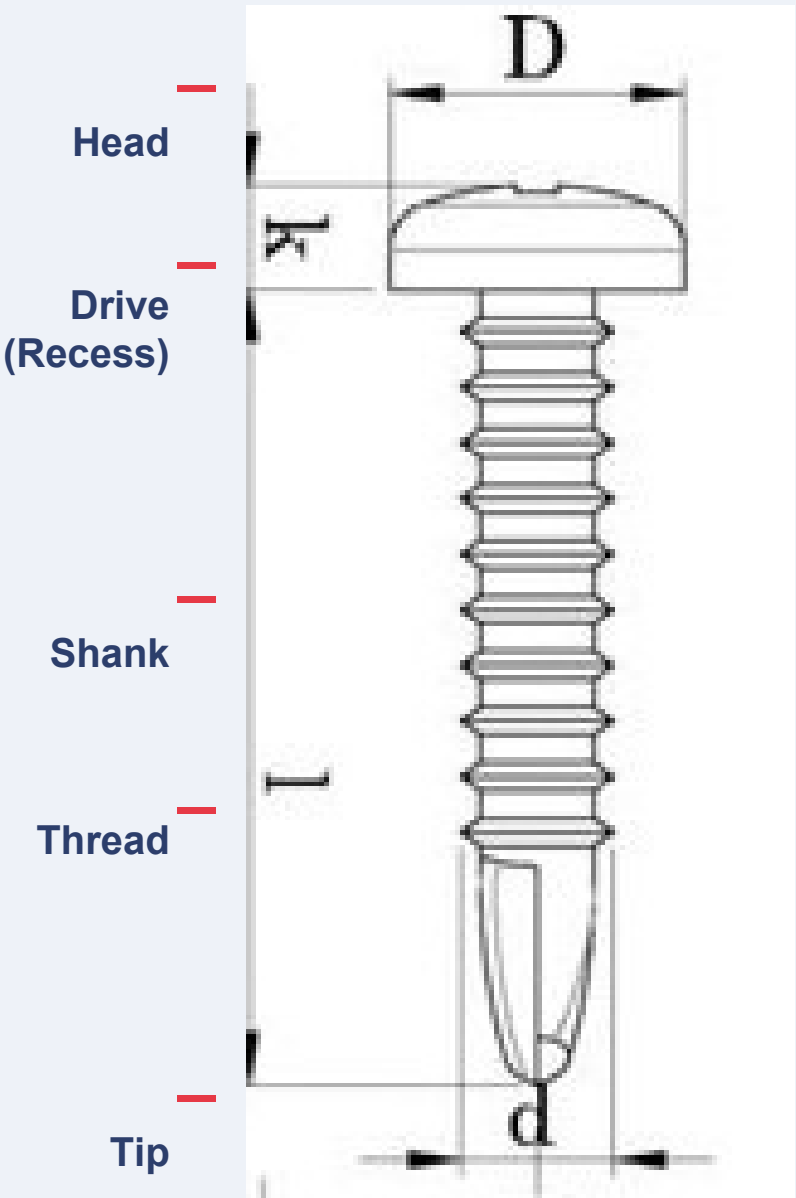
SCREW DEFINITION

A screw is a mechanical fastener with a helical thread on its outer surface, used to connect or secure materials through a rotational motion. It consists of three main parts: the head, the shank (body), and the thread. The thread forms a secure joint by engaging the base material or the internal thread of a nut.

MANUFACTURING PROCESS

01	Hammadde Seçimi	Raw Material Selection Steel wire or rod (SAE 1008, 10B21, stainless steel 304/316, etc.) is sourced.
02	Cold Forming (Cold Heading)	The wire is formed under pressure between dies to create the screw head and shank. The material is not cut; it is compressed, which increases strength.
03	Thread Forming (Thread Rolling)	A helical thread is created by rolling between two cylindrical dies. Unlike cutting, rolling does not cut the metal's fiber flow; thread strength is 30% higher.
04	Heat Treatment	Mechanical properties (hardness, toughness) are adjusted to target values through martensitic hardening, tempering, or annealing.
05	Surface Coating (Plating)	Coatings such as zinc (Cr3+/Cr6+), nickel, chrome, Geomet, and black oxide improve corrosion resistance and appearance.
06	Quality Control	Dimensional tolerances, torque testing, tensile force, and coating thickness are measured according to DIN/ISO standards.

SCREW ANATOMY



Material: Steel 8.8 · 10.9 · 12.9 | Stainless steel 304–316 | Low-carbon steel 4.8–6.8



DIN 7981
ISO 7049



Pan Head Sheet Metal Screw

It is a pan (round) head sheet metal screw. It is installed via a Phillips drive recess. It is preferred for thin sheet metal, electrical panels, automotive body parts, and ventilation ducts. Because the head surface is flat, the fastening point remains visible and it can be removed again.

Thread Diameter: 2,9 – 3,5 – 3,9 – 4,2 – 4,8 – 5,5 – 6,3

Length: 6,5 – 9,5 – 13 – 16 – 19 – 22 – 25 – 32 – 38 – 45 – 50 – 60 mm

Material: Steel (4.8 / 6.8) · Stainless steel 304–316

Coating: Zinc (Cr3+) · Zinc (Cr6+) · Black Oxide · Geomet

⚠ No pilot hole required; thanks to the cutting thread at the tip, it creates its own hole.

DIN 7982
ISO 7050
ISO 15482



Cross-recessed countersunk head tapping / sheet metal screw

It is a conical countersunk head sheet metal screw. When installed, the head sits flush with the surface (flush mount). This is ideal for applications that require a clean visual surface (electronic enclosures, automotive body panels, door profiles).

Thread Diameter: 2,9 – 3,5 – 3,9 – 4,2 – 4,8 – 5,5 – 6,3

Length: 6,5 – 9,5 – 13 – 16 – 19 – 22 – 25 – 32 – 38 – 45 – 50 – 60 mm

Material: Steel (4.8 / 6.8) · Stainless steel 304–316

Coating: Zinc (Cr3+) · Zinc (Cr6+) · Nickel · Chrome

⚠ 90° countersink angle. Pre-drilling or countersinking is recommended.



Screw Manufacturer - Since 1983

DIN 7985
ISO 7045

PHILLIPS PAN HEAD MACHINE SCREW (METRIC)



Machine screws are used for metal-to-metal joints, together with a nut or in pre-drilled materials. The pan head version is common in electrical panels, electronic enclosures, and machine guards. ISO metric thread (M series).

Thread: M3 – M4 – M5 – M6 – M8

Length: 6 – 8 – 10 – 12 – 15 – 20 – 25 – 30 – 35 – 40 – 45 – 50 – 60 – 70 mm

Material: Steel 4.8 / 8.8 · Stainless steel 304–316

Coating: Zinc (Cr3+) · Zinc (Cr6+) · Nickel · Chrome · Black Oxide

⚠ In applications using a nut, use together with a DIN 934 hex nut.

DIN 965
ISO 7046

PHILLIPS COUNTERSUNK (FLAT HEAD) MACHINE SCREW (METRIC)



90° conical countersunk head. Preferred where flush mounting is required: door hinges, furniture joints, electrical device assembly. Do not confuse with DIN 7991: DIN 965 is Phillips (cross-recess) drive, whereas DIN 7991 is hex socket (Allen) drive.

Thread: M3 – M4 – M5 – M6 – M8

Length: 6 – 8 – 10 – 12 – 15 – 20 – 25 – 30 – 35 – 40 – 45 – 50 – 60 – 70 mm

Material: Steel 4.8 / 8.8 · Stainless steel 304–316

Coating: Zinc (Cr3+) · Zinc (Cr6+) · Nickel · Chrome

⚠ 90° countersink angle. With a countersunk hole, the head becomes fully recessed.



DIN 912
ISO 4762

HEXAGON SOCKET HEAD CAP SCREW (CYLINDER HEAD)



A high-strength cylinder head cap screw with an internal hex (Allen) socket. It can be produced in property class 12.9, which is the highest strength class in standard fasteners. Preferred in tight spaces and in high-torque applications such as machinery, presses, and dies. The head height provides sufficient grip for easy removal.

Thread: M3 – M4 – M5 – M6 – M8

Length: 8–12–16–20–25–30–35–40–45–50–60–70–80–90–100–120–140–160–180–200 mm

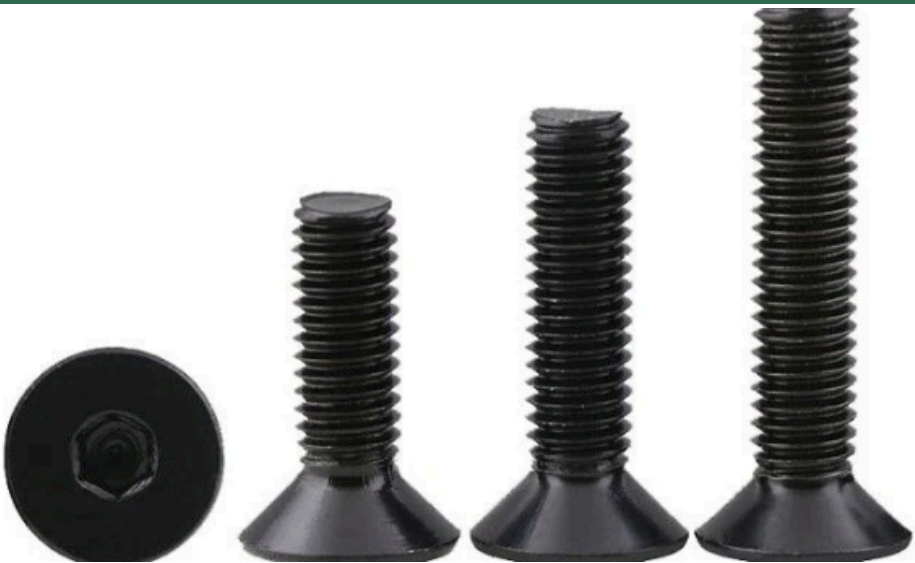
Material: Steel 8.8 / 10.9 / 12.9 · Stainless steel 304–316

Coating: Zinc (Cr3+) · Zinc (Cr6+) · Black Oxide · Geomet · Nickel

⚠ Property class 12.9 tensile strength: 1220 MPa. Ideal for high-pressure applications.

DIN 7991
ISO 10642

HEXAGON SOCKET COUNTERSUNK (FLAT HEAD) CAP SCREW



For high-strength applications that require flush mounting. The conical countersunk head is tightened with an Allen key. Used on machine tables, machine tools, as a cover screw, and in robot frames. The head does not protrude; the risk of impact or abrasion damage is zero.

Thread: M3 – M4 – M5 – M6 – M8

Length: 8 – 10 – 12 – 16 – 20 – 25 – 30 – 35 – 40 – 45 – 50 – 60 – 70 – 80 – 90 – 100 mm

Material: Steel 8.8 / 10.9 · Stainless steel 304–316

Coating: Zinc (Cr3+) · Zinc (Cr6+) · Black Oxide · Nickel

⚠ 90° countersink. Countersinking of the mounting hole is mandatory.



DIN 7505

SV



CHIPBOARD / MDF SCREW

A special-profile countersunk screw with partial thread (lower half threaded). It can be driven easily into sheet materials such as chipboard, MDF, and plywood without pre-drilling or with a small pilot hole. Thanks to its aggressive wavy thread, it provides strong holding power between wood fibers. It is one of the most commonly used screw types in furniture manufacturing.

Thread Diameter: 3 – 3,5 – 4 – 4,5 – 5 – 6 mm

Length: 13 – 16 – 18 – 20 – 25 – 30 – 35 – 40 – 45 – 50 – 60 – 70 – 80 – 90 – 100 – 120 – 140 – 150 mm

Material: Steel 4.8 · Stainless steel 304

Coating: Zinc (Cr3+) · Zinc (Cr6+) · Yellow zinc (yellow passivated) · Geomet

⚠ Pozidriv (PZ2–PZ3) drive is recommended. Pilot hole Ø should be ~70% of the screw Ø.

DIN 571

TV



HEXAGON HEAD WOOD SCREW (TRIFON)

A hexagon head, large-diameter wood screw, also known as “Trifon”. Used to join solid timber beams, structural timber, and roof structures; also used in bridges, scaffolding, and garden structures. Installed with a wrench or socket; high tightening torque can be applied.

Thread Diameter: 6 – 8 – 10 mm

Length: 30 – 40 – 50 – 60 – 70 – 80 – 90 – 100 – 110 – 120 – 130 – 140 – 150 – 160 – 180 – 200 mm

Material: Steel 4.8 · Stainless steel 304–316 · Galvanized

Coating: Hot-dip galvanized · Zinc (Cr3+) · Geomet

⚠ A pilot hole of ~70% diameter must be drilled before the screw to prevent splitting.



DIN 7504K
ISO 15480

ROOFING SCREW — SELF-DRILLING



A hex head roofing screw with a self-drilling point (single- or twin-wing drill point) and an EPDM bonded sealing washer under the head. Used to fasten trapezoidal sheet panels, sandwich panels, and roofing sheets to the supporting structure. The EPDM washer provides watertight sealing. Drilling and fastening are performed in a single operation.

Thread Diameter: 4,2 – 4,8 – 5,5 – 6,3 mm

Length: 16 – 19 – 25 – 32 – 38 – 50 – 60 mm

Material: Steel 4.8 · Stainless steel 304–316

Coating: Hot-dip galvanized · RAL color coated · Geomet · Zinc (Cr6+)

⚠ The EPDM sealing washer maintains watertightness for many years. Do not exceed the recommended tightening torque..

ODM 205-207

AV

DRYWALL SCREW (BUGLE HEAD) COARSE / FINE / SELF-DRILLING



Designed for fastening drywall sheets to metal profiles or wooden structures with a black phosphate finish, wide bugle head, and sharp point. Three variants: coarse thread (ODM-206, for wood), fine thread (ODM-207, for metal), self-drilling (ODM-205, for metal profiles without pre-drilling). The phosphate coating provides short-term corrosion protection.

Thread Diameter: 3,5 mm

Length: 25 – 35 – 45 mm

Material: Steel 4.8 — Black Phosphated

Coating: Black Phosphate

⚠ For metal profiles, using a drill/driver with a bit holder is recommended. Excess torque can damage the drywall.



DIN 916
ISO 4029

HEXAGON SOCKET SET SCREW (CUP POINT)



A headless, fully threaded clamping screw with an internal hex (Allen) socket. Used in shaft–hub connections, belt pulleys, gears, and valve shafts. The cup point provides secure grip on the surface; it leaves a mark on the shaft but prevents slipping. Fully threaded; the screw itself locks the connection.

Thread: M3 – M4 – M5 – M6 – M8 – M10 – M12 – M14 – M16

Length: M3: 5-6-8-10-12-16 | M5-M8: 20-25-30-35 | M10-M12: 40-50-60-70 mm

Material: Steel 45H (HRC 45–53) · Stainless steel 304–316

Coating: Zinc (Cr3+) · Black Oxide · Geomet

⚠ Steel grade 45H. After tightening, Loctite 243 is recommended; for vibration-prone applications...

DIN 7976
ISO 1479

HEXAGON HEAD TAPPING SCREW



A hex head tapping screw used on thin sheet applications without pre-drilling: electrical installation boxes, rack profiles, door frames, and ventilation equipment. The head provides a wide bearing surface without a washer. Easy installation/removal with a wrench or socket, enabling easy reassembly.

Thread: 4,2 – 4,8 – 5,5 – 6,3 mm

Length: 9,5 – 13 – 16 – 19 – 22 – 25 – 32 – 38 – 45 – 50 – 60 mm

Material: Steel 4.8 / 6.8 · Stainless steel 304–316

Coating: Zinc (Cr3+) · Zinc (Cr6+) · Black Oxide · Geomet

⚠ ST 4.2 → 5.5 mm. Sheet thickness should be at least 1.5× the screw diameter; otherwise the thread will not hold.



Screw Manufacturer - Since 1983

CODE / DIN	PRODUCT	DRIVE	THREAD Ø	LENGTH	KULLANIM ALANI
DIN 7504P	Countersunk Self-Drilling Screw	Pozidriv (PZ)	3,9 – 4,2 – 4,8	13–16–19–22–25– 32–38–45–50–60– 70–80–90–100	Sheet metal / wood; flush head
DIN 7504N	Pan Head Self-Drilling Screw	Pozidriv (PZ)	3,9 – 4,2 – 4,8	13–16–19–22–25– 32–38–45–50–60– 70–80–90–100	Metal sheet; raised head
DIN 7504K	Trapezoidal Roofing Screw (Self-Drilling)	Hexagon	4,2 – 4,8 – 5,5 – 6,3	16–19–25–32–38– 50–60	Roofing sheet, trapezoidal panel
DIN 7504K1	Panel Screw (Self-Drilling)	Hexagon	5,5	66–75–90–105–120– 135–145–165–180– 200	Sandwich panel; long drill point
ODM 201	Washer Head Self-Drilling Screw	Pozidriv (PZ)	3,9 – 4,2	13–16–19–25	Metal sheet; wide washer head
ODM 205	Drywall Screw (Self-Drilling)	Pozidriv (PZ)	3,5	25 – 35 – 45	Drywall to metal frame
ODM 202	Concrete Screw (Buldex)	Hexagon	7,5	60–80–100–120– 130–150–180–200	Concrete/brick surface; plug-free





Screw Manufacturer - Since 1983

MATERIAL CLASSES				
CLASS	MATERIAL	TENSILE (MPa)YIELD	TYIELD (MPa)	TYPICAL USE
4.8	Mild steel	420 MPa	340 MPa	General use, light loads
6.8	Medium-carbon steel	600 MPa	480 MPa	Medium load; sheet metal, furniture
8.8	Alloy steel	800 MPa	640 MPa	Machinery, automotive
10.9	Alloy + heat treated	1040 MPa	940 MPa	High load; presses, dies
12.9	Hardened	1220 MPa	1100 MPa	Critical joints; DIN 912
A2-70	Stainless 304	700 MPa	450 MPa	Corrosive environments; food
A4-80	Stainless 316	800 MPa	600 MPa	Marine; acid/chemical

COATING TYPE & CORROSION RESISTANCE		
Zinc (Cr3+)	96+ hours	RoHS compliant; blue/white corrosion (white rust)
Zinc (Cr6+)	120+ hours	Aesthetic; oil sealing recommended
Geomet	480+ hours	Salt spray tested; heavy-duty
Black Oxide	24 hours	Aesthetic; oil sealing recommended
Nickel	200+ hours	Bright; electronics, food
Chrome	300+ hours	Bright decorative; hardness + Hot-dip Galvanized — 1000+ hours — Structural; 85 µm thickness
Hot-dip Galvanized	1000+ hours	Chloride-free environments; food
Stainless 304	unlimited*	Chloride-free environments; food
Stainless 316	unlimited*	Salt water; chemical



Screw Manufacturer - Since 1983

CODE	EN ADI		DİŞ	UZUNLUK	MALZEME
DIN 7981	Yıldız Silindir Başlı Saç Vidası (YSB)	Pan Head Sheet Metal Screw	2,9–6,3	6,5–60 mm	Çelik·Paslanmaz
DIN 7982	Yıldız Havşa Başlı Saç Vidası (YHB)	Flat Head Sheet Metal Screw	2,9–6,3	6,5–60 mm	Çelik·Paslanmaz
DIN 7976	Altıköşe Başlı Saç Vidası (AKB)	Hex Head Tapping Screw	4,2–6,3	9,5–60 mm	Çelik·Paslanmaz
DIN 7985	Yıldız Silindir Başlı Metrik Vida	Pan Head Machine Screw	M3–M8	6–70 mm	Çelik·Paslanmaz
DIN 965	Yıldız Havşa Başlı Metrik Vida	Flat Head Machine Screw	M3–M8	6–70 mm	Çelik·Paslanmaz
DIN 912	Soket Başlı İmbus Civata (SB)	Socket Cap Screw	M3–M30	8–200 mm	8.8/10.9/12.9·PS
DIN 7991	Havşa Başlı İmbus Civata (HB)	Flat Head Socket Screw	M3–M20	8–100 mm	8.8/10.9·Paslanmaz
DIN 916	Setskur (Cup Point)	Hex Socket Set Screw	M3–M16	5–70 mm	45H·Paslanmaz
DIN 7505	Sunta Vidası	Chipboard Screw	3–6 mm	13–150 mm	Çelik·Paslanmaz
DIN 571	Altıköşe Başlı Ağaç Vidası (Trifon)	Hex Head Wood Screw	6–16 mm	30–200 mm	Çelik·Galv.
DIN 7504P	YHB Matkap Uçlu Vida	Flat Head Self-Drilling	3,9–4,8	13–100 mm	Çelik·Paslanmaz
DIN 7504N	YSB Matkap Uçlu Vida	Pan Head Self-Drilling	3,9–4,8	13–100 mm	Çelik·Paslanmaz
DIN 7504K	Trapez Vida (Matkap Uçlu)	Roofing Screw Self-Drilling	4,2–6,3	16–60 mm	Çelik·Galv.
DIN 7504K1	Panel Vida (Matkap Uçlu)	Composite Panel Screw	5,5	66–200 mm	Çelik·Galv.
ODM 201	Yıldız Pul Başlı Matkap Uçlu	Cross Washer Head Self-Drill	3,9–4,2	13–25 mm	Çelik
ODM 202	Beton Montaj Vidası (Buldeks)	Concrete Screw	7,5	60–200 mm	Çelik
ODM 205	Alçıpan Vidası (Matkap Uçlu)	Drywall Self-Drilling Screw	3,5	25–45 mm	Çelik Fosfat
ODM 206	Alçıpan Vidası (Seyrek Dişli)	Drywall Screw Coarse	3,5	25–45 mm	Çelik Fosfat
ODM 207	Alçıpan Vidası (Sık Dişli)	Drywall Screw Fine	3,5	25–45 mm	Çelik Fosfat
ODM 203	Punta Vidası (Bakır/Paslanmaz)	Welding Stud Weld Screw	M3–M6	5–30 mm	Bakır·Paslanmaz
DIN 967	Yıldız Pul Başlı Metrik Vida	Cross Washer Head Machine	M3–M8	5–100 mm	Çelik·Paslanmaz
DIN 968	Yıldız Pul Başlı Saç Vidası	Cross Washer Head Tapping	2,9–6,3	6,5–60 mm	Çelik·Paslanmaz



Rekor Vida

rekorvida.com

rekor@rekorvida.com

(0216) 452 08 68

Sheet metal screw / tapping
screw (self-tapping)

Machine screw (metric)

Hex Socket Screws

Wood & Chipboard Screws

Roofing & Trapezoidal
Screws

Drywall Screws

Set Screws

Self-Drilling Screws

Manufactured to DIN / ISO Standards · Large Inventory · Fast Delivery · Technical Support