

our division dedicated to fasteners for



AIRCRAFT



SPACE



DEFENCE

according to

LN – EN – DIN – ISO ASN – NFL Co-engineered series Customized series Customer QPL

Cheese head screws with internal serration

Standard Parts / Description	Material
LN 29950 / Aerospace Cheese head screw with internal serration, titanium alloy - 1100 MPa	3.7164.7
DIN 65540 / Aerospace Cheese head bolt with internal serration, MJ thread, reduced shank, titanium alloy for temperatures up to 315 °C - 1100 MPa	3.7164.7
DIN 65517 / Aerospace Cheese head bolt with internal serration, close tolerance, MJ thread, short thread, titanium alloy for temperatures up to 315°C - 1100 Mpa	3.7164.7
DIN 65515 / Aerospace Cheese head bolt with internal serration, MJ thread, short thread, titanium alloy for temperatures up to 315 °C - 1100 MPa	3.7164.7
LN 29949 / Aerospace Cheese head screw with internal serration, corrosion- resisting steel, for temperatures up to 650 °C - 1100 MPa	1.4944.6

Six Lobe Recess bolts

Standard Parts / Description	Material
DIN EN ISO 14579 / Hexalobular socket head cap screw - depending on material and thread size	A2/50/70 A4/50/70
DIN EN ISO 14580 / Hexalobular socket cheese head screw – depending on material and thread size	A2/50/70 A4/50/70
DIN EN ISO 14581 / Hexalobular socket countersunk flat head – depending on material and thread size	A2/50/70 A4/50/70
DIN EN ISO 14583 / Hexalobular socket pan head screw – depending on material and thread size	A2/50/70 A4/50/70
ASN A0090 / Pan head screw with six lobe recess, ISO M thread – see NFL bolts / see NFL bolts	A2/50/70 A4/50/70 3.7164.7

Hexagon and Double Hexagon Bolts

Standard Parts / Description	Material
DIN 65265 / Aerospace Hexagon screw with MJ-thread, titanium alloy, threaded approximately to head for temperatures up to 315 °C - 1100 Mpa	3.7164.7
DIN 65522 / Aerospace Hexagon screw with MJ-thread, corrosion-resisting steel, threaded approximately to head for temperatures up to 425 °C - 700 Mpa	1.4541 A2-70
DIN EN ISO 4762 (DIN 912) / Hexagon socket head cap screw, steel, corrosion-resisting steel, nonferrous metall - depending on material and thread size	A2/50/70 A4/50/70 3.7164.7
DIN EN ISO 10642 (DIN 7991) (UNI 5933) / Hexagon socket countersunk head screw, steel, corrosion-resisting steel, nonferrous metall - depending on material and thread size	A2/50/70 A4/50/70 3.7164.7
DIN 65338 / Hexagon bolts, close tolerance, with short-length MJ thread, shoulder, titanium alloy, nominal tensile strength 1 100 MPa, for temperatures up to 315 °C;	3.7164.7
DIN 65339 / Hexagon bolts, close tolerance, with short-length MJ thread, corrosion-resisting steel - Nominal tensile strength 1100 MPa, for temperatures up to 425 °C	1.4944.6
LN 65056 / Aerospace Double hexagon head bolt, close tolerance, from titanium alloy, medium thread length - 1100 Mpa	3.7164.7
LN 29902 / Aerospace Double hexagon screw, close tolerance, heat-resisting steel, for temperatures up to 650°C - 900 Mpa	1.4944.4
LN 29551 / Aerospace Double hexagon screw, corrosion-resisting steel for temperatures up to 650°C - 900 Mpa	1.4944.4
NFL 22-232 / Bihexagonal bolt with locking hole, ISO M thread, 4h class - depending on code letter (material)	TX(3.7164.7) CM(1.4944.4) CX (1.4944.6)
NFL 22-237 / Bihexagonal bolt with locking hole, ISO M thread, 4g class - depending on code letter (material)	TX(3.7164.7) CM(1.4944.4) CX (1.4944.6)

Pan Head and Countersunk Bolts

Standard Parts / Description	Material
DIN EN 4178 / Aerospace Pan head, six lobe recess, coarse tolerance normal shank, medium length thread, titanium, anodized, MoS2 - 1100 Mpa	3.7164.7
LN 9139 / Aerospace Round head screw, cross-recessed, non-magnetizable - 700 Mpa	1.4541 A2-70
LN 9441 / Aerospace Countersunk head screw, cross-recessed, titanium alloy - 1100 Mpa	3.7164.7
LN 9442 / Aerospace Pan head screw, cross-recessed, titanium alloy - 1100 Mpa	3.7164.7
LN 29958 / Aerospace Pan head screw with internal offset cruciform ribbed drive recess, titanium alloy, threaded to head - 1100 Mpa	3.7164.7
DIN EN 3759 / Aerospace pan head screws, offset cruciform recess, threaded to head, heat and corrosion resisting steel, passivated - 1100 Mpa	1.4944.6
DIN EN 3760 / Aerospace 100° countersunk normal head, offset cruciform recess, threaded to head, heat and corrosion resisting steel, passivated - 1100 Mpa	1.4944.6
DIN 65324 / Aerospace Pan head screw, close tolerance, with internal offset cruciform ribbed drive recess, titanium alloy, short length MJ-thread, for temperatures up to 315 °C - 1100 Mpa	3.7164.7
DIN 65179 / Aerospace Countersunk head screw, close tolerance, with internal offset cruciform ribbed drive recess, titanium alloy, short length MJ-thread, for temperatures up to 315°C - 1100 Mpa	3.7164.7
DIN 65316 / Aerospace Countersunk head screw, close tolerance, with internal offset cruciform ribbed drive recess, corrosion-resisting steel, short length MJ-thread, for temperatures up to 425°C - 1100 Mpa	1.4944.6
LN 9136 / Aerospace Countersunk head screw, cross-recessed, non-magnetizable - 700 Mpa	1.4541 A2-70
DIN EN 3037 / Aerospace Pan head, offset cruciform recess, close tolerance normal shank, short thread, titanium, anodized, MoS2 - 1100 Mpa	3.7164.7
DIN EN 3038 / Aerospace Pan head, offset cruciform recess, close tol. Normal shank, short thread, corrosion resistant steel, passivated - 1100 Mpa	1.4944.6
DIN EN 3304 / Aerospace Countersunk reduced head, offset cruciform recess, close tolerance, short thread, titanium, anodized, MoS2 - 1100 Mpa	3.7164.7

Torq-set screws

Standard Parts / Description	Material
DIN 65284 / Aerospace Countersunk head screw with ribbed torq-set recess and MJ-thread, fully threaded, corrosion-resisting steel, for temperatures up to 425°C - 1100 Mpa	1.4944.6
DIN 65285 / Aerospace; countersunk head screws, with ribbed TORQ-SET (ACR) recess and MJ thread, short thread length,corrosion-resistant steel. Nominal tensile strength 1100MPa, for temperature up to 425°C	1.4944.6
LN 29787 / Aerospace Countersunk head screw with torq-set recess, fully threaded to head, titanium alloy - 1100 Mpa	3.7164.7
LN 29974 / Screws, countersunk head TORQ-SET recess Nearly threaded to the head	3.7164.7

Nuts

Standard Parts / Description	Material
DIN 65281 / Nuts, hexagon, thin, with MJ thread, corrosion-resisting steel, classification: 1100 MPa/315 °C/425 °C	1.4944
LN 9338 / Aerospace - Hexagon washer nuts, self-locking, for temperatures up to 235 °C	1.4944 A2/50/70 A4/50/70 3.7164.7

Washers

Standard Parts / Description	Material
LN 9025 / Aerospace Washer	1.4944
LN 9016 / Aerospace Washer, bevelled	1.4944
DIN 65209 / Washers, countersunk	1.4944

Manufacturing Technologies and Acceptance Requirements for Fasteners

