

Alphabetical index

Alphabet

Type	Hardened	Steel	Brass Bronze	Alum. Polyamid	Stainless	Technic
	page and color					
	blue	white	yellow	grey	red	-
A						
Acid proof steels						T 28-32, 42
Adhesives anaerobic				F 69		T 85-89
Adjusting rings		J 42-44			J 74	
Aluminium						T 44
Anaerobic adhesives						T 84-87
Anchor bolts		B 30				
Anchor plugs		B 32-34	B 40	B 36-37	B 53	
Anchor plugs with internal thread		B 31				
Assembly	A 52					T 20-24
B						
Baking						T 78-79
BENERI circlips	F 58-59				F 99	
BENERI dispensers	F 59					
Bent eye metric bolts, light type		B 13				
Bent eye wood screws		E 32				
Beveled washers	A 50	F 22-23				
Blind rivets POP		J 57-58	J 56	J 59-60	J 63	
Brass						T 44
Breaking torques						T 16, 29
Brick wall anchors WECO			B 40			
Button head screws with 6-lobe socket	C 51					
Button head screws with hexagon socket	C 47-50				C 98-99	
C						
Calculation of screw dimensions						T 10-13
Cap nuts		D 38	D 58		D 76	
Car body washers		F 17				
Carrige bolts		B 2-3			B 45	
Castel nuts	D 29	D 40			D 75	
Certificates						T 90-91
Cheese head screws, cross recessed		G 20-21				
Cheese head screws, slotted	G 14-15	G 1-4	G 32-35	G 44	G 46-49	
Chemical composition						T 16, 17, 30
Chemical resistance						T 32-41, 45
Chipboard screws		E 35-41			E 68-71	
Circlips	F 58-59				F 99	

Type	Hardened	Steel	Brass Bronze	Alum. Polyamid	Stainless	Technic
	page and color					
	blue	white	yellow	grey	red	-
Clamps		B 26				
CLICKER plugs		B 32-33			B 53	
Coating thickness						T 77
Coatings						T 76-79
Coiled straight pins, heavy duty	J 15					
Coiled straight pins, standard duty	J 14				J 68	
Conical flange nuts	D 14					
Conical pins	J 20-21	J 26-27			J 70	
Conical spring lock washers	F 39					
Conical spring washers	F 48-51				F 94-95	
CONNEX pins	J 10-13				J 66-67	
Conical seats	F 46					
Core hole sizes						T 72-75
Corrosion protecting coatings						T 76-79
Corrosion resistant steel						T 28-32
Cotter pins		J 46-48	J 55		J 76-77	
Countersunk head rivets				J 54		
Countersunk head tapping screws, cross recessed	E 8				E 58	
Countersunk head wood screws		E 28-29	E 43		E 49	
Countersunk nuts		D 48				
Countersunk plow bolts		B 4				
Countersunk socket head screws	C 52-56				C 102-105	
Countersunk square neck bolts		B				
Countersunk washers			F 75			
Cross recessed chipboard screws		E 35-38			E 68-69	
Cross recessed machine screws		G 20-31			G 62-67	
Cross recessed oval washer head screws		G 31				
Cross recessed tapping screws	E 7-9				E 57-59	
Cup rivets				J 61-62		
Curved spring lock washers	F 36-38				F 90-91	
D						
Dacromet plating						T 78-79
DELTA anchor plugs				B 37		
DELTA seal						T 78
DIN standard list						011-015
Disc spring	F 47					
Discs without hole		F 22				
Domed nuts	D 24	D 38-39	D 58-59	D 65	D 76	
Double coil spring lock washers	F 34					
Dowel pins	J 16-19	J 23-25			J 69	

Type	Hardened	Steel	Brass Bronze	Alum. Polyamid	Stainless	Technic
	page and color					
	blue	white	yellow	grey	red	-
Dowel pins with internal thread	J 19					
Drill hole sizes						T 72-75
Dynamic force						T 10-13
E						
Electroplated coatings						T 76-77
Embrittlement						T 78-79
EN history						036-037
EN standard list						016-018
ENSAT threaded insert	D 32				D 81	
Estimation of screw diameters						T 10-13
Eye bolts		B 10-12			B 47	
F						
Failure loads for nuts						T 19
Fatigue strength						T 13
Fender bolts		B 27				
Fine thread nuts			D 36, 40			D 70
Fine thread rods		H 18				
Fine thread screws	A 28-29					
Fine threads						T 53
Finishing washers		F 23	F 74	F 82	F 87	
Flange bolts	A 32-36					
Flange nuts	D 13,25-27					
Flat head chipboard screws, 6-lobes		E 40-41			E 70-71	
Flat head chipboard screws, cross recessed		E 36-37			E 68-69	
Flat head grooved pins		J 34-35				
Flat head machine screws, cross recessed		G 24-25, 29			G 64-65	
Flat head machine screws, slotted	G 16	G 8-13, 17	G 38-43	G 45	G 53-59	
Flat head PT-screws	E 20					
Flat head rivets				J 54		
Flat head socket screws	C 52-56				C 102-105	
Flat head square neck bolts		B				
Flat head structural bolts		B				
Flat head tapping screws	E 3, 8				E 53, 58, 61	
Flat head wood screws		E 28-29	E 43		E 49	
Flat round head rivets		J 51		J 53		
Flat trim head screws		G 17			G 60	
Flat washers	A 49, F 39-41	F 5-20	F 70-73	F 78-79, 81	F 83-86	
Flat washers (fender washers)		F 12-13		F 79	F 85	
Flat washers for car bodies		F 17				

Type	Hardened	Steel	Brass Bronze	Alum. Polyamid	Stainless	Technic
	page and color					
	blue	white	yellow	grey	red	-
Flat washers, for clevis pins		F 19			F 86	
Flat washers, for steel constructions		F 20				
Flat washers, thick		F 15				
Flat washers, thin		F 16	F 73			
Fork joints		B 28				
Freedrive cross recessed pan head machine screws		G 19				
Friction coefficient				F 69		T 20,31,43,85
G						
Galvanique coatings						T 76-77
General tolerances						T 58-67
Grooved head pins		J 34-35				
Grooved pins		J 31-36				
Grooved round nuts		D 52-54				
H						
Half-length parallel grooved pins with neck		J 36				
Hammer drive screws	J 22					
Hanger bolts		B				
Hardened washers	F 40-43					
Hastelloy						T 42
Head cap screws	C 1-45			C 86	C 87-96	
Heat resistant fasteners						T 26-27, 42
Heavy duty spring pins with serrated slot	J 10-11				J 66-67	
Heavy duty spring pins with serrated slot, grinded	J 13					
Helical spring lock washers	F 32-33				F 88	
Hex coupling nuts		D 37			D 71	
Hex flange bolts	A 38, 32-37					
Hex head bolts	A 14-27 ,8, 41	A 63-67, 68			A 84-88, 80	
Hex head bolts ISO	A 8	A 62, 66-67			A 80	
Hex head bolts, fine thread	A 28-29					
Hex head bolts, UNC / UNF thread	A 26-27					
Hex head screw plugs		C 81-82	C 85		C 113	
Hex head screws	A 1-13, 40	A 60-62	A 70-74	A 75-76	A 77-83	
Hex head screws with small width across flat	A 39					
Hex head screws, slotted	A 30					
Hex head shoulder bolts		A 55				
Hex head structural bolts		A 56-59				
Hex head tapping screws	E 5				E 55	
Hex head wood screws		E 22-24			E 47	
Hex key with pilot	C 78					

Type	Hardened	Steel	Brass Bronze	Alum. Polyamid	Stainless	Technic
	page and color					
	blue	white	yellow	grey	red	-
Hex keys	C 76-78					
Hex nuts	D 2-8, 10-30	D 9, 33-37	D 56-57, 63	D 64, 67	D 68-72	
Hex nuts 1,5 d with spherical face	D 15					
Hex nuts ISO	D 10-11	D 9			D 69	
Hex nuts, height 1d	D 12	D 12				
Hex nuts, pipe thread					D 72	
Hex thin nuts		D 34-36	D 57		D 70	
Hex thin nuts, fine thread		D 36			D 70	
Hexalobular -> see Six-lobe	C 51,77, E 19	E39-41			E 60, 70, G68	T 71
High collar spring lock washers	F 35				F 89	
High temperature resistant fasteners	B 8-9					T 26-27
High-strength anchors		B 32-33			B 53	
High-strength heavy hex bolts	A 44-47					
High-strength heavy hex nuts	A 48					
Hinge rings		F 18				
Hook wood screws		E 33				
Hot dip galvanized coatings						T 78
Hot yield point						T 26, 30
Hydrogen embrittlement						T 78-79
I						
IMEX cup rivets				J 61-62		
Inconel						T 42
Insert nuts	D 31				D 79	
ISO history						036-037
ISO standard list						016-018
ISO threads						T 53
J						
Jam nuts		D 34-36	D 57		D 70	
K						
KAFLOK locking nylon-polyamid patch	A 31, C 7			F 68		T 84
Keys for 6-lobe socket screws	C 77					
Keys for hexagonal socket screws	C 76-78					
Keys, parallel		J 38-41			J 72-73	
K-item list						021-022
Knurled nuts		D 50	D 61			
Knurled thumb screws		H 20-21	H 27-28			
Kuprodur						T 44

Type	Hardened	Steel	Brass Bronze	Alum. Polyamid	Stainless	Technic
	page and color					
	blue	white	yellow	grey	red	-
L						
Left hand threaded nuts	D 5	D 34			D 68	
Left hand threaded rods		H 18				
Lifting eye bolts		B 15-16			B 48	
Lifting eye nuts		B 17,15			B 49	
Light duty spring pins	J 8-9					
Light metal						T 44
Lock nuts	D 18-25	D 54			D 73-74	
Lock washers	F 28-47		F 64		F 92-98	
Lock washers, serrated	F 45				F 93	
Locking elements against loosening						T 80-84
Locking elements against unscrewing (falling appart)						T 80-83, 85
Locking elements, limitation						T 81
Locking of fasteners						T 80-89
Locking pins		J 49				
Logistics						004-005
Low head socket cap screws	C 36-45				C 92-97	
Low temperature material						T 26-27
Lubrication	A 53					T 43
M						
Machine tool list						T 92-94
Malleable casting wing nuts		D 51				
Malleable casting wing screws		B 6				
Mechanical properties, non-ferrous fasteners						T 44
Mechanical properties, polyamid						T 45
Mechanical properties, stainless steel fasteners						T 30
Mechanical properties, steel nuts						T 18
Mechanical properties, steel nuts fine pitch						T 19
Mechanical properties, steel screws						T 15
Mechanical zinc plating						T 78-79
Microencapsulated adhesive						T 85
MOLYKOTE	A 48,53	D 9				T 43
N						
Ninomic						T 42
Nuts	A, B, D	D	D	D	D	
Nuts for T-slots	D 17					
Nylon anchor plugs				B 36-37		
Nylon-polyamid patches						T 84

Type	Hardened	Steel	Brass Bronze	Alum. Polyamid	Stainless	Technic
	page and color					
	blue	white	yellow	grey	red	-
O						
OMNI-FIT adhesives				F 69		T 86-89
Operation force						T 11
Oval head machine screws, cross recessed		G 26-27,30			G 66-67	
Oval head machine screws, slotted		G 12-13	G 42-43	G 45	G 57-59	
Oval head tapping screws	E 4, 9				E 54, 59	
Oval head wood screws		E 30-31	E 44-46		E 50	
P						
Package quantity						008-010
PAL self locking nuts	D 30					
Pan head machine screws		G 5, 22, 28	G 36-37	G 44	G 50-52, 62, 68	
Pan head chipboard screws, 6-lobes		E 39				
Pan head chipboard screws, cross recessed		E 35				
Pan head machine screws, cross recessed		G 22-23,28			G 62-63	
Pan head machine screws, slotted		G 5-7	G 36-37	G 44	G 50-52	
Pan head tapping screws	E 2, 7				E 52, 57, 60	
Panel screws	E 6				E 56	
Pan-head PT-screws	E 18				E 66	
Parallel keys		J 38-41			J 72-73	
Pins	J	J			J	
Pins for fork joints		B 29				
Pipe plugs		C 79-83	C 73-74		C 112-113	
Pipe thread, hex nuts					D 72	
Plain washers	A 49, F 39-41	F 5-20	F 70-73	F 78-79,81	F 83-86	
Platings						T 76-79
Plow bolts		B				
Polyamid						T 45, 84
POLYSEAL						T 78
POP rivets		J 57-58	J 56	J 59-60	J 63	
PRECOTE, microencapsulated adhesive				F 68		T 83, 85
Preload	A 53					T 20-23, 31
Prevailling torque flange nuts	D 25					
Prevailling torque flange nuts all metal	(D 25)					
Prevailling torque hex lock nuts, all metal	D 18-19, 23				D 73	
Prevailling torque hex lock nuts, polyamid insert	D 20-22				D 74	
Prevailling torque lock nuts	D 18-25	D 54			D 73-74	
Prevailling torque slotted round nuts GUK		D 54				
Product grades						T 58-67
Property classes						T 14, 26
Protection plugs				B 38-39		

Type	Hardened	Steel	Brass Bronze	Alum. Polyamid	Stainless	Technic
	page and color					
	blue	white	yellow	grey	red	-
PRYM spiral pins	J 14-15				J 68	
PT-screws	E 17-21				E 66	
Q						
Quality management						T 90-91
R						
Raised countersunk --> see Oval						
RAWL PLUG anchor plugs		B 34				
Rawmaterial for Brass,Aluminium, Kuprodur						T 44
Rawmaterial for stainless steel fasteners						T 32
Rawmaterial for steel nuts						T 16, 24-25
Rawmaterial for steel screws						T 17, 24-25
Rectangular nuts		D 42				
Retaining rings	F 60-67				F 100-103	
Rhomboid nuts		D 43				
Rib bolts		B 5				
Ribbed hex bolts	A 34-36					T 22
Ribbed hex flange nuts, Verbus Ripp	D 27					T 22
Ribbed lock washers SCHNORR	F 44				F 92	
Rib-Lock washers	F 45				F 93	
Rivet nuts		D 46				
Rivets		J 50-51		J 52-53	J 75	
Round head rivets		J 50		J 52	J 75	
Round head square neck bolts		B 2-3			B 45	
Round head woods screws		E 26-27	E 42		E 48	
Round nuts		D 49	D 60			
S						
SCHNORR, ribbed lock washers	F 44				F 92	
Sealing paste						T 86-89
Sealing rings			F 76	F 80		
SEEGER rings	F 60-67				F 100-103	
Self drilling tapping screws	E 14-15				E 65	
Self-locking nuts Comby-S	D 28					
Sems		F 49, E 51				
Serrated cup point set screws	C 75					
Serrated hex bolts	A 32-33					T 22
Serrated hex flange nuts	D 26					T 22
Serrated lock washers	F 55-57		F 77		F 98	
Services, technical and logistical						T 95

Type	Hardened	Steel	Brass Bronze	Alum. Polyamid	Stainless	Technic
	page and color					
	blue	white	yellow	grey	red	-
Set screws with socket	C 57-75				C 106-111	
Set screws, slotted		H 1-10	H 25	H 29	H 31	
Shim rings	F 42-43	F 21				
Shoulder bolts	C 46	A 55				
Shoulder bolts with hex head		A 55				
Shoulder bolts with socket cap head	C 46					
Six-lobe keys	C 77					
Six-lobe metal screws					G 68-69	
Six-lobe PT-screws	E 19					
Six-lobe socket button head screws	C 51					
Six-lobe socket chipboard screws		E 39-41			E 70-71	
Six-lobe tapping screws					E 60-61	
Six-lobe thread forming screws					E 64	
Size of sockets, hexagon and six-lobe						T 71
Sizes of cross recesses						T 69
Sizes of slots						T 69
SKIFFY sealing rings				F 79		
Slotted hex head screws	A 30					
Slotted machine screws	G	G	G	G	G	
Slotted round nuts		D 49	D 60			
Slotted set screws		H 1-10	H 25	H 29	H 31	
Slotted set screws, partially threaded		H 11				
Slotted spring pins	J 1-7				J 64-65	
Slotted tapping screws	E 2-4				E 52-54	
Slotted wood screws		E 26-31	E 42-46		E 48-50	
SN standard list						019-020
Socket button head screws	C 47-50				C 98-99	
Socket countersunk screws	C 52-56				C 102-105	
Socket head cap screws	C 1-45			C 86	C 87-96	
Socket head cap screws with low head	C 36-45				C 92-97	
Socket head cap screws with low head and pilot	C 40-43				C 94-97	
Socket head cap screws with special low head	C 44-45					
Socket head shoulder screws	C 46					
Socket keys	C 76-78					
Socket plugs		C 79-81	C 84-85		C 112-113	
Socket set screws	C 57-75				C 106-111	
Spacers, bolts		H 22-24				
Spacers, flat washers	F 42-43	F 21				
Spherical washers	F 46					
Spiral plugs				B 37		
Split pins		J 46-48	J 55		J 76-77	

Type	Hardened	Steel	Brass Bronze	Alum. Polyamid	Stainless	Technic
	page and color					
	blue	white	yellow	grey	red	-
Spot weld nuts		D 45			D 78	
Spring lock washers	F 32-39				F 88-91	
Spring lock washers napped	F 38					
Spring pins CONNEX	J 10-13				J 66-67	
Spring washers	F 52-53				F 96	
Square beveled washers for T-section		F 25				
Square beveled washers for U-section		F 24				
Square hook wood screws		E 34				
Square neck bolts		B 2-3			B 45	
Square nuts		D 41-43				
Square tapered washers	A 50	F 22-23				
Square tapered washers for high-strength bolting	A 50					
Square washers, for wood constructions		F 26				
Stainless steel						T 28-32, 42
Standard list						011-022
Steel anchor plugs CLICKER		B 32-33			B 53	
Straightness of bolts						T 66
Stripping of nuts						T 19
Structural bolting, countersunk head bolts		B				
Structural bolting, high-strength application	A 42-53					
Structural shoulder bolts		A 55				
Stud bolts with reduced shank	B 8					T 26-27
Studs	H 13-15	H 12			H 32	
Supporting rings	F 42					
Surface treatments						T 76-79
T						
Tab washers for slotted nuts		F 28				
Tab washers with nose		F 29				
Tab washers with one tap		F 30				
Tab washers with two taps		F 31				
Table of tolerances						T 68
Tamper proof screws					C 100	
Taper pins	J 20-21	J 26-27			J 70	
Taper pins with external thread		J 28-29				
Taper pins with internal thread		J 30				
Tapered washers	A 50	F 22-23				
Tapping screws	E 2-9				E 52-61	T 72-75
TAPTITE, thread forming screws	E 10-11				E 62-64	
Technical information						T
TENSILOK, serrated hex bolts	A 32-33					T 22

Type	Hardened	Steel	Brass Bronze	Alum. Polyamid	Stainless	Technic
	page and color					
	blue	white	yellow	grey	red	-
TENSILOK, serrated nuts	D 26					T 22
T-head bolts		B 18-20				
Thermoplastics						T 45
Thick hexagon nuts with collar	D 16					
Thread cutting screws	E 12-13					
Thread forming screws	E 10-11				E 62-64	
Thread tolerances						T 54-57
Threaded inserts ENSAT	D 32				D 81	
Threaded rods	H 16-17	H 16-19	H 26	H 30	H 33	
Threads overview						T 46-52
Thumb screws		B 7				
Tightening of fastener, guidelines	A 52					T 20-24
Tightening torques, high strength structural bolting	A 53					
Tightening torques, non-ferrous fasteners						T 44
Tightening torques, polyamid fasteners						T 45
Tightening torques, screws with reduced heads						T 25
Tightening torques, serrated bolts						T 22
Tightening torques, stainless fasteners						T 32
Tightening torques, steel 8.8 - 12.9						T 20-24
Tightening torques, threadforming screws						T 22
Titanium						T 42
T-nuts for slots	D 17					
T-nuts with pronges		D 47				
Tolerances, bolts and nuts						T 58-66
Tolerances, washers						T 67
Toothed lock washers	F 54				F 97	
Torque meter	A 54					
Torques	A 53					T 20, 31, 44
TORX --> see Six-lobe	C 51, 77, E 19	E39-41			E 60, 70, G 68	T 71
Truss head screws		G 18			G 61	
TUFLEX anchors plugs				B 36		
TUFLOK nylon-polyamid patch						T 84
Tumbuckles		B 22-23				
U						
U-bolts round bend		B 21			B 52	
UNC,UNF bolts	A 26-27					
UNC,UNF nuts	D 6					
V						
VERBUIS RIPP	A34-36, D27					T 22
VSM standard list						019-020

Type	Hardened	Steel	Brass Bronze	Alum. Polyamid	Stainless	Technic
	page and color					
	blue	white	yellow	grey	red	-
W						
Washer head PT screws	E 21					
Washers	A 49, F 39-46	F 4-26	F 70-74	F 78-79,81-82	F 83-87	
Washers for high-strength bolting	A 49					
Washers, Range of flat washer	F 1-5	F 1-5	F 1-5	F 1-5	F 1-5	
WECO anchor plugs			B 40			
Weights of bolts and screws						T 2-7
Weights of nuts						T 1
Weights of threaded bars						T 7
Weights of washers						T 8
Weld nuts		D 44			D 77	
Weld studs with external thread		B 25		B 44	B 50	
Weld studs with internal thread					B 51	
WHITWORTH nuts	D 7					
Widths across flats						T 70
Widths across flats, new to ISO	A 8, D 10-11	A 62, 67, D 9			A 80, D 69	
Wing nuts		D 51	D 62	D 66	D 80	
Wing screws		B 6	B 42-43		B 46	
Wing self drilling screws	E 16					
Wire rope clamps		B 26				
Wood screws		E 22-33	E 42-46		E 47-50	
WOODRUFF keys		J 37				