

## Fastening materials

<b>Screws</b>	page 1646
<b>Nuts</b>	page 1650
<b>Washers</b>	page 1653
<b>Fasteners</b>	page 1654
<b>Screw caps</b>	page 1658



## screws carriage bolts



No.	Part-No.	TS	L (mm)	Qty (pc)
1	560020	M5	30	10

## countersunk screws DIN 7991



No.	Part-No.	TS	L (mm)	A/F	material	Qty (pc)
1	560040	M5	12	3	SS	20
2	560039	M5	14	3	SS	20
3	560041	M5	16	3	SS	20
4	560042	M5	20	3	SS	20
5	560043	M6	12	4	SS	20
6	560201	M6	14	4	SS	1
7	560044	M6	16	4	SS	20
8	560337	M6	20	4	SS	1
9	560045	M6	20	4	SS	20
10	692037	M10	20	6	SS	1

## DIN 963



No.	Part-No.	TS	L (mm)	material	Qty (pc)
1	560320	M3	14	SS	20
2	560075	M4	6	SS	20
3	560076	M4	10	SS	20
4	560211	M4	14	SS	20
5	560212	M4	20	SS	20
6	560263	M4	25	SS	20
7	560213	M4	30	SS	20
8	560077	M5	10	SS	20
9	560215	M5	14	SS	20
10	560300	M5	16	SS	1
11	560216	M5	20	SS	20
12	560217	M5	30	SS	20
13	560218	M6	10	SS	20
14	560273	M6	16	SS	20
15	560220	M6	20	SS	20
16	560222	M6	30	SS	20

## DIN 965



No.	Part-No.	TS	L (mm)	material	Qty (pc)
1	560322	M3	10	steel	1
2	560267	M5	25	SS	1
3	560299	M5	75	SS	1

## UNC



No.	Part-No.	TS	L (mm)	material	Qty (pc)
1	691393	8/32" UNC	9.3	stainless steel	1

## cylinder head bolts DIN 912



No.	Part-No.	TS	th.le (mm)	A/F	material	Qty (pc)
1	560025	M4	10	3	SS	20
2	560026	M4	16	3	SS	20
3	560027	M5	10	4	SS	20
4	560315	M5	12	4	SS	20
5	560028	M5	14	4	SS	20
6	560326	M5	14	4	steel zinc plated	1
7	560335	M5	20	4	SS	1
8	560029	M5	20	4	SS	20
9	560030	M5	25	4	SS	20
10	527170	M6	8	5	SS	1
11	560031	M6	10	5	SS	20
12	560032	M6	14	5	SS	20
13	560033	M6	20	5	SS	20
14	560034	M6	25	5	SS	20
15	528693	M8	16	6	steel zinc plated	1
16	520455	M8	20	6	SS	1
17	560316	M8	25	7	SS	20
18	527168	M10	20	8	SS	1



No.	Part-No.	TS	L (mm)	th.le (mm)	A/F	material	Qty (pc)
1	560347	M6	30	25	5	SS	20
2	560225	M4	30	20	3	SS	1
3	560035	M6	35	30	5	SS	20
4	560338	M6	55	25	4	SS	1
5	112021	M8	45	30	6	steel zinc plated	1
6	700132	M8	50	30	6	SS	1
7	529123	M8	80	30	6	SS	1
8	560191	M10	80	30	8	SS	1
9	560190	M10	80	35	-	steel zinc plated	-

other



No.	Part-No.	TS	th.le (mm)	material	Qty (pc)
1	550130	M3	10	-	10
2	510953	M5	25	stainless steel	1
3	529877	M6	6	brass	1
4	693311	M6	15	SS	1
5	529878	M8	6	brass	1

flat-headed bolts  
DIN 7985



No.	Part-No.	TS	th.le (mm)	material	Qty (pc)
1	560019	M3	6	SS	20
2	560021	M3	10	SS	20
3	560060	M4	5	SS	20
4	560061	M4	6	SS	20
5	101528	M4	8	steel	4
6	560062	M4	10	SS	20
7	696275	M4	10	stainless steel	1
8	560063	M4	16	SS	20
9	560064	M4	20	SS	20
10	560065	M4	25	SS	20
11	560058	M4	45	SS	20
12	560066	M5	6	SS	20
13	560067	M5	10	SS	20
14	560281	M5	16	SS	1
15	560068	M5	16	SS	20
16	560228	M5	20	SS	1
17	560069	M5	20	SS	20
18	560070	M5	25	SS	20

No.	Part-No.	TS	th.le (mm)	material	Qty (pc)
19	560282	M5	30	SS	1
20	560071	M5	30	SS	20
21	560018	M6	10	SS	20

DIN 84



No.	Part-No.	TS	th.le (mm)	material	Qty (pc)
1	560353	M4	7	SS	1
2	560275	M5	8	SS	20
3	560276	M5	12	SS	20
4	560178	M5	40	steel	1

UNF



No.	Part-No.	TS	th.le (mm)	material	Qty (pc)
1	560183	1/4" UNF	31	SS	1
2	560264	5/16" UNF	14	SS	1
3	560073	10/32" UNF	9	stainless steel	1

grub screws  
DIN 913



No.	Part-No.	TS	L (mm)	A/F	Qty (pc)
1	504733	M4	5	2	1
2	560346	M5	6	2.5	20
3	560177	M6	6	3	10
4	560022	M6	12	3	20
5	560024	M6	16	3	20

DIN 914



No.	Part-No.	TS	L (mm)	A/F	Qty (pc)
1	560165	M2	3	1	1
2	560169	M3	4	1	1
3	697410	M5	6	2.5	1
4	560174	M5	6	2.5	20
5	504230	M5	8	2.5	20
6	697417	M5	10	2.5	1



No.	Part-No.	TS	L (mm)	A/F	Qty (pc)
7	560250	M6	4	3	1
8	510906	M6	8	3	1
9	560176	M6	12	3	10
10	560224	M8	10	4	1
11	560175	M8	16	4	1

## DIN 916



No.	Part-No.	TS	L (mm)	A/F	Qty (pc)
1	560170	M3	8	1.5	20
2	560171	M3	10	1.5	20
3	504734	M4	6	2	1
4	560172	M4	8	2	20
5	560173	M4	10	2	20
6	696272	M5	6	2.5	1
7	696273	M5	10	2.5	1
8	560207	M8	10	4	1

## hexagonal screws DIN 933



No.	Part-No.	TS	th.l <sub>e</sub> (mm)	material	A/F	Qty (pc)
1	560080	M4	8	SS	7	20
2	560081	M4	10	SS	7	20
3	560082	M4	16	SS	7	20
4	560083	M5	10	SS	8	20
5	560351	M5	12	SS	10	1
6	560084	M5	16	SS	8	20
7	560085	M5	20	SS	8	20
8	560274	M5	25	SS	8	20
9	560254	M5	30	SS	8	1
10	560253	M5	60	SS	8	1
11	524423	M6	10	SS	10	1
12	560086	M6	10	SS	10	20
13	560079	M6	12	SS	10	20
14	524118	M6	16	SS	10	1
15	560087	M6	16	SS	10	20
16	560088	M6	20	SS	10	20
17	560089	M6	25	SS	10	20
18	560090	M6	30	SS	10	20
19	560252	M6	40	SS	10	1

No.	Part-No.	TS	th.l <sub>e</sub> (mm)	material	A/F	Qty (pc)
20	560266	M8	8	SS	13	1
21	503122	M8	10	SS	13	1
22	506175	M8	14	SS	13	20
23	506447	M8	15	SS	13	1
24	550682	M8	20	SS	13	1
25	560204	M8	25	SS	13	1
26	560205	M8	30	SS	13	1
27	560206	M8	35	SS	14	1
28	506446	M8	40	SS	13	1
29	560309	M10	16	SS	17	1
30	560311	M10	20	SS	17	1
31	560202	M10	25	SS	17	1
32	560203	M10	30	SS	17	1
33	506445	M10	35	SS	17	1
34	560308	M16	20	SS	24	1

## UNF



No.	Part-No.	TS	th.l <sub>e</sub> (mm)	material	A/F	Qty (pc)
1	691404	10/32" UNF	12	stainless steel	8	1

## knurled screws



No.	Part-No.	TS	th.l <sub>e</sub> (mm)	σ (mm)	H (mm)	material
1	505255	1/4"	13	15	22.5	SS
2	695354	M4	10	10	6	SS
3	505034	M5	7	20	3	SS
4	694115	M5	10	12	6	brass
5	697481	M6	8	14	6	aluminium
6	506172	M6	9	22	6	SS
7	524080	M6	10	18	4	SS



No.	Part-No.	TS	th.l <sub>e</sub> (mm)	σ (mm)	H (mm)	material
1	504228	M6	13	24	4	SS
2	510112	M10	10	22	4.5	SS



No.	Part-No.	TS	th.le (mm)	ø (mm)	H (mm)	material
1	510307	M6	8	28	-	SS
2	517066	M8	8	30	3	SS

oval head screws



No.	Part-No.	TS	L (mm)	intake	Qty (pc)
1	691467	8/32" UNC	9.3	safety torx	1
2	560057	M5	13	Phillips	1

raised countersunk head screws



No.	Part-No.	TS	th.le (mm)	material	Qty (pc)
1	560270	M5	12	stainless steel	20
2	560271	M5	14	stainless steel	20
3	560272	M5	16	stainless steel	20

sheet metal screws  
DIN 14585



No.	Part-No.	ø (mm)	L (mm)	material	Qty (pc)
1	560348	4.2	13	SS	1

DIN 7981



No.	Part-No.	ø (mm)	L (mm)	material	Qty (pc)
1	560095	2.9	9.5	SS	20
2	560096	2.9	13	SS	20
3	560323	2.9	19	SS	20
4	560097	3.5	6.5	SS	20
5	560098	3.5	9.5	SS	20
6	560099	3.5	13	SS	20
7	560100	3.5	19	SS	20
8	560101	3.5	22	SS	20

No.	Part-No.	ø (mm)	L (mm)	material	Qty (pc)
9	560102	3.9	9.5	SS	20
10	560103	3.9	13	SS	20
11	560104	3.9	19	SS	20
12	560105	3.9	25	SS	20
13	560106	3.9	32	SS	20
14	560107	3.9	38	SS	20
15	560108	4.2	13	SS	20
16	560109	4.2	16	SS	20

DIN 7982



No.	Part-No.	ø (mm)	L (mm)	material	Qty (pc)
1	560230	2.9	6.5	SS	20
2	560231	2.9	9.5	SS	20
3	560232	2.9	13	SS	20
4	560233	2.9	16	SS	20
5	560234	2.9	22	SS	20
6	560235	3.5	9.5	SS	20
7	560236	3.5	16	SS	20
8	560237	3.5	19	SS	20
9	560238	3.5	25	SS	20
10	560239	3.9	9.5	SS	20
11	560249	3.9	13	SS	20
12	560240	3.9	16	SS	20
13	560241	3.9	19	SS	20
14	560242	3.9	25	SS	20
15	560243	3.9	32	SS	20
16	560244	4.2	9.5	SS	20
17	560245	4.2	16	SS	20
18	560246	4.2	19	SS	20
19	560247	4.2	25	SS	20
20	101923	4.2	27	steel zinc plated	1
21	560248	4.2	32	SS	20
22	560059	4.2	40	SS	20

other



No.	Part-No.	ø (mm)	L (mm)	material	Qty (pc)
1	560000	4.8	16	SS	1



## side bolts



No.	Part-No.	TS	L (mm)	Qty (pc)
1	560050	M4	10	20
2	560051	M4	16	20
3	560052	M5	10	20
4	560053	M5	16	20

No.	Part-No.	TS	L (mm)	Qty (pc)
5	560054	M6	10	20
6	560038	M6	13	20
7	560055	M6	16	20

## wing screws



No.	Part-No.	TS	th.le (mm)
1	693607	M6	20

## wood screws DIN 571



No.	Part-No.	TS	L (mm)	Qty (pc)
1	560345	M5	22	1
2	560037	M6	10	20

No.	Part-No.	TS	L (mm)	Qty (pc)
3	560289	M6	12	1

No.	Part-No.	ø (mm)	L (mm)	Qty (pc)
1	560006	5	30	20
2	560008	5	40	20
3	560009	5	50	20
4	560010	6	40	20

No.	Part-No.	ø (mm)	L (mm)	Qty (pc)
5	560011	6	50	20
6	560012	6	60	20
7	560013	6	70	20

## DIN 7997



No.	Part-No.	TS	L (mm)	Qty (pc)
1	560298	M6	20	1

## threaded rods DIN 975



No.	Part-No.	TS	L (mm)	material
1	560184	M4	1000	SS
2	560185	M5	1000	SS
3	560186	M6	1000	SS
4	527174	M8	26	stainless steel
5	527172	M8	40	steel
6	514019	M8	45	brass
7	560187	M8	1000	SS
8	560325	M10	1000	SS

No.	Part-No.	ø (mm)	L (mm)	Qty (pc)
1	560255	3.5	30	20
2	560256	3.5	40	20
3	560257	4	30	20
4	560258	4	40	20

No.	Part-No.	ø (mm)	L (mm)	Qty (pc)
5	560259	4	50	20
6	560260	5	30	20
7	560261	5	40	20
8	560262	5	50	20

## nuts

### hexagonal nuts DIN 439



No.	Part-No.	TS	H (mm)	material	A/F	Qty (pc)
1	521129	M10x1	6	SS	17	1

### DIN 6923



No.	Part-No.	TS	H (mm)	material	A/F	Qty (pc)
1	507448	M8	8	SS	13	1

DIN 934



No.	Part-No.	TS	H (mm)	material	A/F	Qty (pc)
1	560223	M3	2.4	SS	5.5	1
2	560130	M3	2.4	SS	5.5	20
3	560340	M4	3.2	SS	7	1
4	560131	M4	3.2	SS	7	20
5	560129	M5	4	SS	8	1
6	560132	M5	4	SS	8	20
7	560277	M5L	4	SS	8	1
8	511212	M6	5	SS	10	1
9	560133	M6	5	SS	10	20
10	560278	M6L	5	SS	10	1
11	560134	M8	6.5	SS	13	20
12	560279	M8L	6.5	SS	13	1
13	517174	M8x1	6.5	SS	13	1
14	560197	M10	8	SS	17	1
15	560199	M10	8	SS	17	10
16	560280	M10L	8	SS	17	1
17	505200	M12	10	SS	19	1
18	506166	M12	10	SS	19	1

DIN 985



No.	Part-No.	TS	H (mm)	material	A/F	type	Qty (pc)
1	560227	M3	4	SS	5.5	self-locking	1
2	560140	M4	4.8	SS	7	self-locking	20
3	560141	M5	5.4	SS	8	self-locking	20
4	560142	M6	6	SS	10	self-locking	20
5	560143	M8	8.5	SS	13	self-locking	20
6	560072	M16	16	SS	24	self-locking	1

hexagonal nuts inch thread



No.	Part-No.	TS	H (mm)	A/F	material	Qty (pc)
1	361181	1/8"	4.5	14	nickel-plated brass	1
2	503045	1/4"	4.5	17	brass	1
3	361182	1/4"	5	17	nickel-plated brass	1
4	521003	1/4"	6.3	20	chrome-plated brass	1
5	501318	1/4"	6.5	22	SS	1
6	507051	1/4"	7.5	17	brass	1
7	511472	3/8"	4	21	brass	1
8	361183	3/8"	6	20	nickel-plated brass	1

No.	Part-No.	TS	H (mm)	A/F	material	Qty (pc)
9	506024	3/8"	6	22	SS	1
10	503042	3/8"	6	22	brass	1
11	501288	3/8"	8	22	brass	1
12	501290	3/8"	8	24	plastic	1
13	511182	3/8"	8	24	brass	1
14	507054	3/8"	10	20	brass	1
15	506194	1/2"	3	24	nickel-plated brass	1
16	501299	1/2"	5	27	SS	1
17	361184	1/2"	6	24	nickel-plated brass	1
18	510331	1/2"	7	30	SS	1
19	560293	1/2"	8	27	stainless steel	1
20	501319	1/2"	8	27	brass	1
21	519058	1/2"	8	28	SS	1
22	521102	1/2"	8	32	stainless steel	1
23	520234	3/4"	5	30	brass	1
24	695979	3/4"	7	32	chrome-plated brass	1
25	511200	1"	6	45	brass	1
26	520233	1"	6	47	brass	1
27	514363	1"	12.5	46	stainless steel	1
28	507334	1 1/4"	5.5	46	brass	1
29	520232	1 1/4"	8	47	brass	1
30	514022	1 1/2"	12	59	stainless steel	1



No.	Part-No.	TS	ø (mm)	H (mm)	A/F	material	Qty (pc)
1	511309	1 1/2"	66	9	51	brass	1
2	511469	3/8"	30	7	20	brass	1
3	511470	1/2"	40	8	25	brass	1
4	503012	1/2"	40	8	25	chrome-plated brass	1
5	511471	3/4"	46	8	30	brass	1



No.	Part-No.	TS	H (mm)	A/F	material	Qty (pc)
1	691394	8/32" UNC	4	9	stainless steel	1
2	694194	5/8" UNF	8	24	brass	1

other



No.	Part-No.	TS	H (mm)	A/F	material	Qty (pc)
1	527169	M3	2.8	5.5	brass	1
2	521103	M4	3	7	brass	20
3	102497	M6x0.75	3	8	steel	1
4	560014	M8x1	4.7	12	chrome-plated brass	1
5	540436	M10	4	13	brass	1
6	501303	M10	8	17	brass	1
7	100779	M10x0.75	3	14	brass	2
8	101860	M10x1	4	14	chrome-plated brass	1
9	520231	M10x1	6	14	steel zinc plated	1
10	507330	M10x1	7	13	stainless steel	1
11	507331	M12	10	19	SS	1
12	345351	M12x0.75	1.6	14	chrome-plated brass	1
13	101501	M12x0.75	2	16	brass	1
14	521131	M12x1	3.5	17	SS	1
15	520229	M12x1	4	16	steel zinc plated	1
16	101566	M12x1	10	19	SS	1
17	550261	M14x1	4	19	SS	1
18	521133	M14x1	6	19	steel zinc plated	1
19	521101	M14x1.5	5	19	SS	1
20	520230	M14x1.5	5	19	steel zinc plated	1
21	101345	M15x1	3	19	brass	1
22	105567	M16x1	4.5	19	steel zinc plated	1
23	501172	M16x1.5	5	22	SS	1
24	101394	M17x1	3	19	brass	1
25	695111	M18x1.5	-	27	brass	1
26	691862	M18x1.5	5	22	SS	1
27	691861	M20x1	-	24	-	-
28	527269	M26x1.5	5.7	32	brass	1

cap nuts



No.	Part-No.	TS	A/F	material	Qty (pc)
1	560135	M4	7	SS	20
2	560136	M5	8	SS	20
3	695119	M5L	10	SS	1
4	560137	M6	10	SS	20
5	560138	M8	13	SS	20

knurled nuts



No.	Part-No.	TS	ø (mm)	H (mm)	material
1	518281	M5	20	4	SS
2	518028	M5	25	4	SS
3	512092	M6	28	4	SS
4	524095	M8	24	6	SS
5	511009	M8	30	4.5	SS
6	101228	M8x0.75	14	4	brass
7	504516	M8x1	25	6	SS
8	504547	M8x1	25	6	SS
9	512257	M10L	30	6.5	SS
10	504503	M10x1	30	4	SS
11	512212	M10x1.5	30	6.4	SS
12	504528	M12x1	35	6	SS
13	505171	M14x1	35	5	SS
14	507434	M17x1	30	5	SS
15	510346	M17x1	35	6	SS
16	529728	M18x1	27	4	brass



No.	Part-No.	TS	ø (mm)	H (mm)	material
1	802018	M5	16	14	steel
2	691258	M6	19	15	chrome-plated steel
3	802001	M6	21	13	steel

long nuts



No.	Part-No.	TS	L (mm)	A/F	material	Qty (pc)
1	560150	M6	18	10	SS	10
2	560151	M8	24	13	SS	10
3	547967	M8	30	10	brass	1
4	540438	M10	25	13	brass	1



**plate nuts**



No.	Part-No.	Lø (mm)	L (mm)	B (mm)
1	101922	2.2	13	11
2	560004	2.9	17	12
3	524435	3	25	11

No.	Part-No.	Lø (mm)	L (mm)	B (mm)
4	524032	4.2	25	11
5	560046	M5	16	10



1

No.	Part-No.	Lø (mm)	L (mm)	B (mm)
1	560188	2.2	12	6
2	560265	2.7	42	10

3

No.	Part-No.	Lø (mm)	L (mm)	B (mm)
3	690997	3.5	20	13

**wing nuts**



No.	Part-No.	TS	Qty (pc)
1	560145	M4	20
2	560146	M5	20
3	560147	M6	20

No.	Part-No.	TS	Qty (pc)
4	560148	M8	20
5	697300	M12	-

**washers**  
**spring rings**



No.	Part-No.	int. ø (mm)	ext. ø (mm)	material	Qty (pc)
1	560121	4.2	8	SS	20
2	691309	5	8.3	stainless steel	1
3	560122	5.2	10	SS	20
4	560123	6.3	11	SS	20
5	560124	8.3	15	SS	20
6	560208	8.3	15	stainless steel	1
7	560209	10.3	17.2	stainless steel	1

**spring washers**



No.	Part-No.	int. ø (mm)	ext. ø (mm)	Qty (pc)
1	696253	12	25	1
2	697479	14	21	1
3	698267	15	19	1
4	697478	19	26	1

No.	Part-No.	int. ø (mm)	ext. ø (mm)	Qty (pc)
5	696254	19	32	1
6	695659	32	39	1
7	521005	40	52	1

**spring washers**



No.	Part-No.	nominal-ø (mm)	ext. ø (mm)	material
1	560056	4	10	spring steel

**tooth lock washers**  
**DIN 6798A**



No.	Part-No.	int. ø (mm)	ext. ø (mm)	material	Qty (pc)
1	560036	3.1	5.7	SS	10
2	560343	4.2	8	SS	1
3	560125	4.2	8	SS	20
4	560229	5.2	10	SS	1
5	560126	5.2	10	SS	20
6	560127	6.2	11	SS	20
7	560342	6.5	11	SS	1
8	560128	8.3	15	SS	20
9	503121	8.4	15	stainless steel	1
10	560192	10.4	18	SS	1
11	560193	10.4	18	steel zinc plated	1

**other**



No.	Part-No.	int. ø (mm)	ext. ø (mm)	material	Qty (pc)
1	520228	15.3	24	steel	1

## washers DIN 125A



No.	Part-No.	int. ø (mm)	ext. ø (mm)	t (mm)	material	Qty (pc)
1	560110	3.2	7	0.5	SS	20
2	560332	4.3	9	0.8	SS	1
3	560111	4.3	9	0.8	SS	20
4	560112	5.3	10	1	SS	20
5	560113	6.4	12	1.6	SS	20
6	560114	8.4	16	1.6	SS	20
7	511481	8.4	16	1.6	steel zinc plated	1

## DIN 9021



No.	Part-No.	int. ø (mm)	ext. ø (mm)	t (mm)	material	Qty (pc)
1	560115	4.3	12	1.2	SS	20
2	560118	4.3	16	1.6	SS	20
3	560116	5.3	15	1.5	SS	20
4	560251	5.3	15	1.5	SS	1000
5	560119	5.3	20	1.6	SS	20
6	560117	6.4	18	1.5	SS	20
7	560120	6.4	24	2	SS	20
8	560210	11	30	2	SS	1

## other



No.	Part-No.	int. ø (mm)	ext. ø (mm)	t (mm)	material	Qty (pc)
1	521104	4.3	8	0.5	brass	20
2	560330	5	8	1	aluminium	1
3	560328	5	8.5	1	copper	-
4	691294	5.3	11	0.8	SS	1
5	560352	7	10	0.5	stainless steel	1
6	560301	7	22	2	SS	1
7	560329	8	12	1	brass	1
8	560074	8.5	14	0.3	steel	1
9	560091	8.5	14	0.8	steel	1
10	560214	8.5	31.5	-	-	1
11	504270	8.6	24	2	SS	1
12	527159	9	15.4	1	brass	1
13	560349	9.3	18.6	1.2	SS	1
14	560350	9.5	13	0.5	brass	-
15	529242	10	13	2	brass	1
16	560093	10	14	0.3	steel	1

No.	Part-No.	int. ø (mm)	ext. ø (mm)	t (mm)	material	Qty (pc)
17	560092	10	19	0.8	steel	1
18	560290	10.6	40	3	steel zinc plated	1
19	529239	11	32	0.8	brass	1
20	560167	12	16	0.8	steel	1
21	529862	12.3	18	1	brass	1
22	560144	13	22	0.8	steel	1
23	560179	13	38	8	brass	1
24	560166	16.2	21	0.8	stainless steel	1
25	560094	17	24	0.5	steel	1
26	527148	17	28	2	brass	1
27	529238	18	32	1.2	brass	1
28	529237	21	32	1.2	brass	1
29	560152	23	29	1.5	steel	1
30	560149	25.6	39	0.8	steel	1

## fasteners

### cable clamps



No.	Part-No.	for wire ø (mm)
1	516193	4

No.	Part-No.	for wire ø (mm)
2	693247	5

### cable ties



No.	Part-No.	Description
1	550249	adhesive base 19x19mm Qty 100pc



No.	Part-No.	B (mm)	L (mm)	Qty (pc)
1	550250	2.5	100	100
2	550251	2.5	160	100
3	550254	3.6	140	100

No.	Part-No.	B (mm)	L (mm)	Qty (pc)
4	550252	3.6	200	100
5	550253	3.6	290	100

clips



No.	Part-No.	ø (mm)	material	Qty (pc)
1	520110	8-12	SS	10
2	520111	10-16	SS	10
3	520444	11-19	stainless steel	1
4	520120	12-20	SS	1
5	520112	12-20	SS	10
6	520121	16-27	SS	1
7	520113	16-27	SS	10
8	520114	20-32	SS	10
9	520115	25-40	SS	10
10	520116	32-50	SS	5
11	520117	40-60	SS	5
12	504026	47-67	SS	1
13	520118	50-70	SS	5
14	520119	60-80	SS	5
15	520454	70-90	SS	1



No.	Part-No.	ø (mm)	material	Qty (pc)
1	520084	5-10	SS	1
2	520065	5-10	SS/brass	5
3	520078	7-12	SS	1
4	520066	7-12	SS/brass	5
5	520079	9-14	SS	1
6	520067	9-14	SS/brass	5
7	520080	12-17	SS	1
8	520068	12-17	SS/brass	5
9	520081	14-19	SS	1
10	520069	14-19	SS/brass	5
11	520082	16-21	SS	1
12	520070	16-21	SS/brass	5
13	520083	17-22	SS	1
14	520071	17-22	SS/brass	5
15	520085	20-25	SS	1
16	520073	20-25	SS/brass	5
17	520086	22-27	SS	1
18	520074	22-27	SS/brass	5
19	520087	24-29	SS	1
20	520075	24-29	SS/brass	5
21	520088	25-30	SS	1
22	520076	25-30	SS/brass	5
23	520089	28-33	SS	1
24	520077	28-33	SS/brass	5



No.	Part-No.	nominal-ø (mm)	wire gauge ø (mm)	Qty (pc)
1	560344	7	1	1
2	513268	8	1	1
3	511147	10	1.5	1
4	520442	16	1.8	1
5	520449	22	3	1
6	520407	26	2.5	1
7	520406	28	2.5	1
8	505190	38	3	1
9	511286	38	3.2	1
10	505191	54	3.5	1



No.	Part-No.	ø (mm)	Qty (pc)
1	520408	17-14	1
2	505079	186-172	1

No.	Part-No.	ø (mm)	Qty (pc)
3	505080	235-215	1



No.	Part-No.	size (mm)	material	Qty (pc)
1	520443	14-18	plastic	1
2	520441	16-20	plastic	1
3	520409	20-25	plastic	1



No.	Part-No.	ø (mm)
1	510923	10



No.	Part-No.	pipe ø (mm)	material
1	504110	30	SS



1

No.	Part-No.	pipe ø (mm)
1	501068	50

### hose clamp assortments



1

No.	1
Part-No.	520127
material	SS
delivery program	4.5m tensioning belt, 12 x tension locks
type	EASYROLL

### mounting spigots



No.	Part-No.	nominal-ø (mm)	TS	L (mm)
1	524030	7	M4x0.8	13
2	524031	7	M5	38

### pipe clips



No.	Part-No.	pipe ø (mm)	Lø (mm)
1	695584	31	4.5

### plastic dowels with collar



No.	Part-No.	size (mm)	for bolt ø	Qty (pc)
1	560015	6	3.5 to 5mm	50
2	560016	8	4.5 to 6mm	50

### without collar



No.	Part-No.	size (mm)	for bolt ø	Qty (pc)
1	560001	6	3.5 to 5mm	50
2	560002	8	4.5 to 6mm	50
3	560003	10	6 to 8mm	50

### cotter pins



No.	Part-No.	ø (mm)	L (mm)
1	528762	1.8	17

No.	Part-No.	ø (mm)	L (mm)
2	695209	2	20

### mounting clips



1

2

3

No.	Part-No.	nominal-ø (mm)	L (mm)	B (mm)	BA (mm)
1	524029	3	26	12	18
2	691449	4	25	11	18
3	524387	7	30	16	-

### retainer clips



No.	Part-No.	L (mm)	wire gauge ø (mm)
1	691471	54	2.5
2	693457	73	3

retaining rings  
DIN 471



No.	Part-No.	spindle ø (mm)	t (mm)	material
1	692065	6	0.7	-
2	560302	8	0.8	stainless steel
3	524246	9	1	stainless steel
4	519248	10	1	stainless steel
5	523107	11	1	stainless steel
6	516222	12	1	stainless steel
7	512260	14	1.2	steel
8	528689	15	1	steel
9	529702	16	1	steel
10	529457	17	1	stainless steel
11	504519	17	1	stainless steel
12	523105	18	1.3	steel
13	691403	19	1.2	stainless steel
14	514030	20	1.3	steel
15	693061	25	1.2	steel
16	697244	30	-	-
17	691621	40	1.8	steel
18	510244	60	2	steel

DIN 472



No.	Part-No.	bore ø (mm)	t (mm)	material
1	528099	11	1	-
2	527257	16	1	stainless steel
3	516016	18	1	stainless steel
4	528518	22	1.2	steel
5	523106	28	1.3	steel
6	523104	30	1.6	stainless steel
7	698003	35	1.5	steel
8	698004	40	1.9	steel
9	523100	42	1.75	steel
10	523002	45	1.6	steel
11	692029	47	1.8	steel
12	523102	47	1.8	steel
13	511248	48	1.9	stainless steel
14	523103	52	2	steel
15	523101	62	2	steel
16	695955	65	2	steel
17	695829	85	2.5	stainless steel

DIN 6799



No.	Part-No.	D1 ø (mm)	D2 ø (mm)	material	thickness (mm)
1	529724	4	9	stainless steel	0.7
2	528709	4	9	steel	0.8
3	518557	5	11	stainless steel	0.7
4	523004	5	13.5	stainless steel	0.7
5	524284	6	12	stainless steel	0.7
6	516198	6	12	stainless steel	0.7
7	507015	7	14	stainless steel	0.9
8	691470	8	16	stainless steel	1
9	529268	9	18	stainless steel	1.3

rivets/riveting nuts  
rivet nuts



No.	Part-No.	TS	ø (mm)	L (mm)	Qty (pc)
1	560154	M4	5.9	11.5	10
2	560155	M5	6.9	13	10
3	560156	M6	8.9	15	20
4	560153	M8	11	16	10



No.	Part-No.	TS	nominal width (mm)	L (mm)	Qty (pc)
1	550775	M5	7	12	1
2	550776	M6	10	15	1



No.	Part-No.	TS	nominal width (mm)	L (mm)	Qty (pc)
1	550777	M10	13	22	1



## rivets blind rivets



No.	Part-No.	ø (mm)	L (mm)	material	Qty (pc)
1	560157	3.2	6	SS	50
2	560158	3.2	8	SS	50
3	560159	3.2	10	SS	50
4	560160	3.8	6	SS	50
5	560161	3.8	9	SS	50
6	560049	4	7.5	SS	1
7	560048	4	8	aluminium	1
8	560163	4.8	9	SS	50
9	560164	4.8	10	SS	50
10	560047	4.8	11.3	steel	1

## sealed blind rivets



No.	Part-No.	ø (mm)	L (mm)	material	Qty (pc)
1	560180	3.2	10	SS	50

## roll pins



No.	Part-No.	ø (mm)	L (mm)
1	550904	1.2	10
2	691398	3	14
3	692013	3	16
4	691637	3	20
5	516091	3	22
6	504003	3	24
7	516242	3	26

No.	Part-No.	ø (mm)	L (mm)
8	516092	3	30
9	100945	3.2	10
10	691397	4	26
11	550798	4	45
12	691725	4.5	15
13	690968	5	20
14	693090	6	36

## slot nuts



No.	Part-No.	B (mm)	H (mm)	L (mm)
1	692006	5	5	20
2	560283	5	5	25
3	560287	6	6	20
4	560286	6	6	25
5	560269	6	6	30

No.	Part-No.	B (mm)	H (mm)	L (mm)
6	560284	6	6	35
7	560181	6	6	40
8	560288	8	7	25
9	560285	8	7	30
10	560268	8	7	35

No.	Part-No.	B (mm)	H (mm)	L (mm)
11	560182	10	8	40



No.	Part-No.	B (mm)	H (mm)	L (mm)
1	697225	5	6	15
2	697226	6	8	21
3	694214	6.4	7.6	16

No.	Part-No.	B (mm)	H (mm)	L (mm)
4	697227	8	11	27
5	697243	10	16	42

## screw caps



No.	Part-No.	TS	A/F
1	505257	1/8"	13
2	520705	1/8"	16
3	520706	1/4"	17

No.	Part-No.	TS	A/F
4	520707	3/8"	21
5	520708	1/2"	21
6	510233	1/2"	27



No.	Part-No.	TS	A/F
1	520701	1/8"	-
2	520702	1/4"	16

No.	Part-No.	TS	A/F
3	520703	3/8"	20
4	520704	1/2"	25