

Spare parts catalog

BE 500NZ

**HÖFLER**

**Speed Viper 300**



Cylindrical Gear Grinding Machine



**Hero Motors**  
**IN**  
Machine no.  
**433021**

## LEGAL NOTICE



### GLOSSARY:

V	Wear part
E	Spare part
S	Service part



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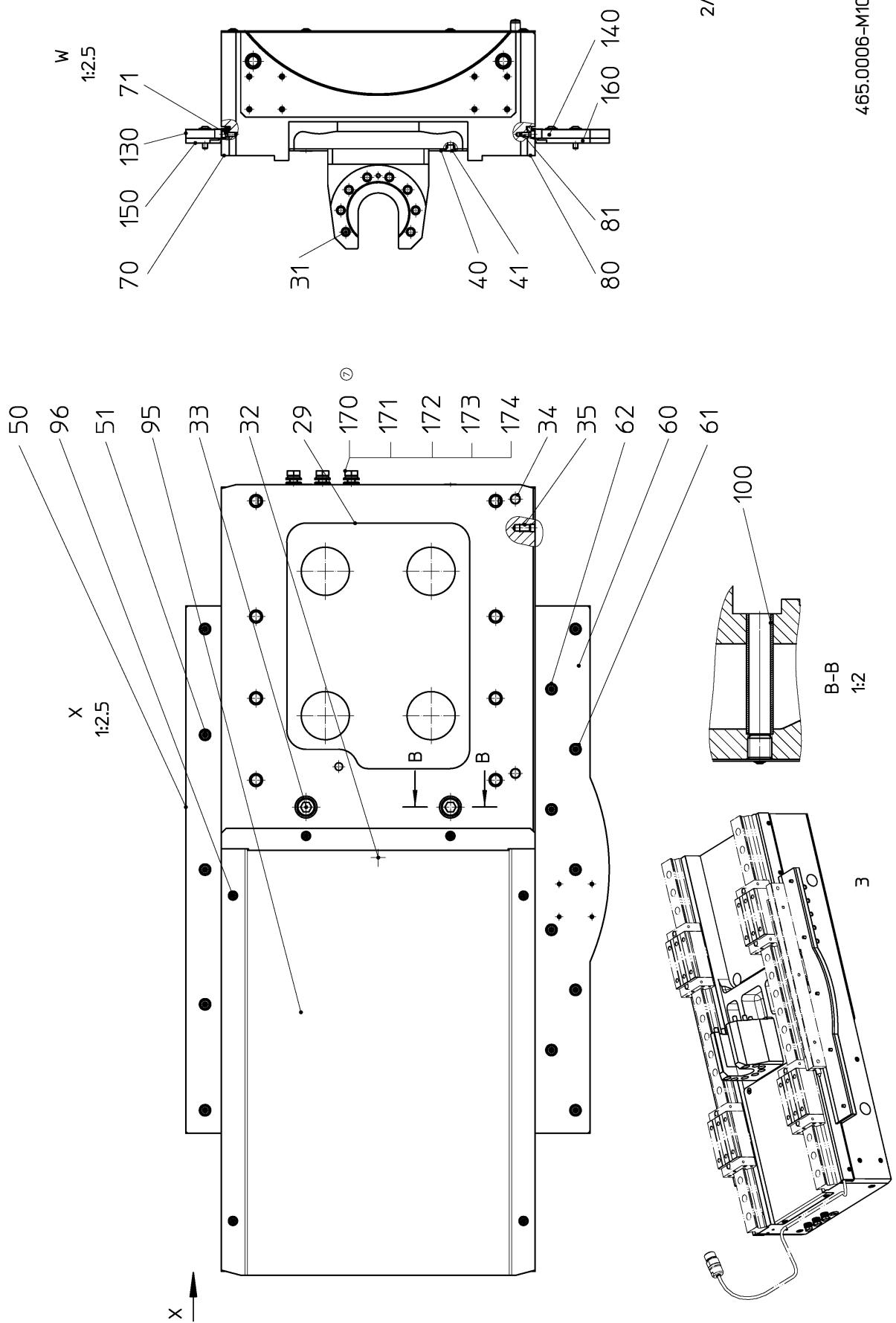
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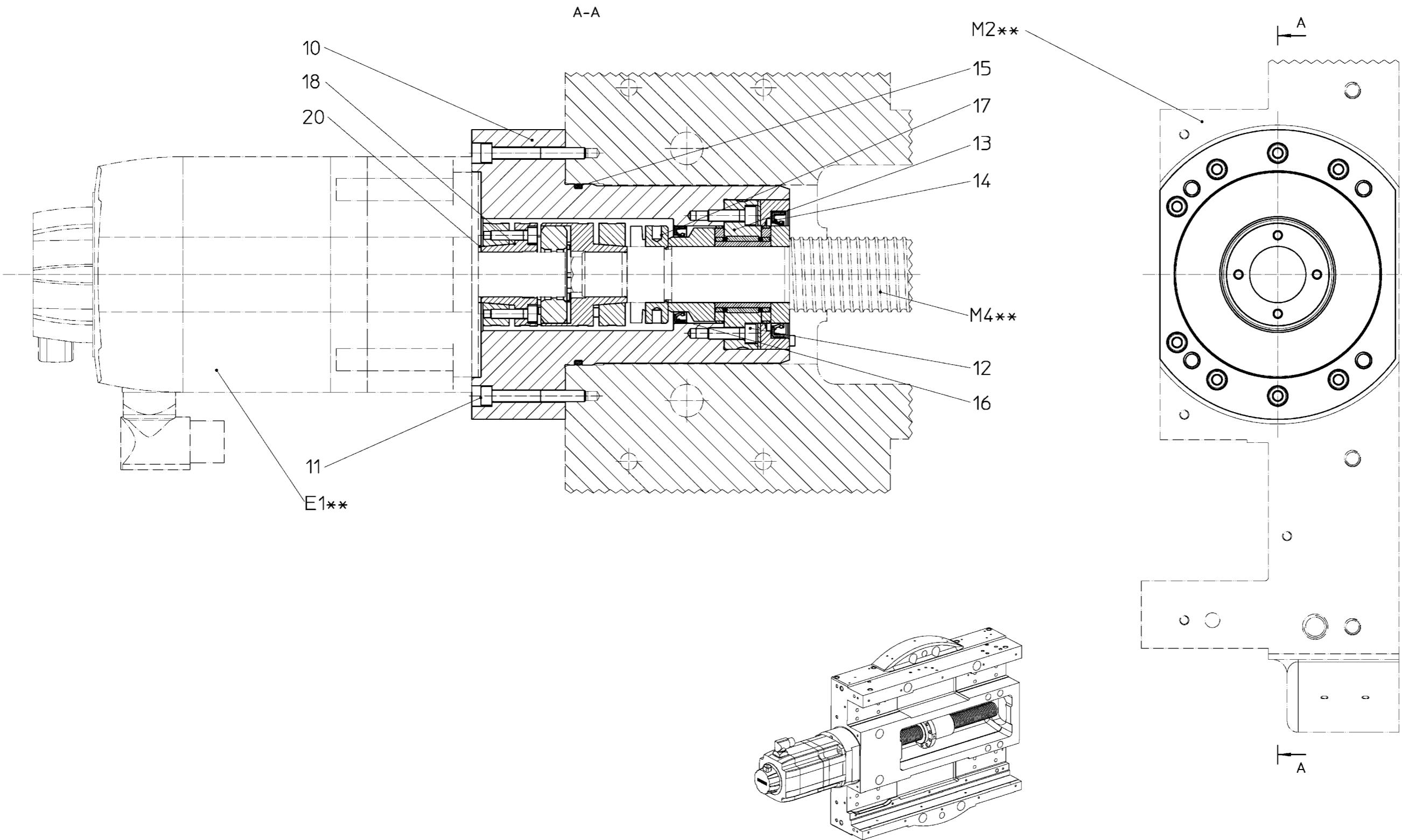


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## SpeedViper 300 Y axis headstock

Material no. 451748\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
29	486623\$	Shift slide		1	ST		
31	281193A	Socket head screw M8x100		8	ST		
32	050976A	Threaded pin M8x8 (quality 45H)		1	ST		
33	147437A	Threaded pin M20x20 (quality 45H)		2	ST		
34	259208A	Cylindrical pin 10 M6x28		2	ST		
35	050975A	Threaded pin M8x6 (quality 45H)		4	ST		
40	489879A	Sheet steel		1	ST		
41	050945A	Countersunk head screw M6x12 (strength class 8.8)		4	ST		
50	489882A	Spring plate		1	ST		
51	461554A	Oval flange head screw M5x20 (strength class 10.9, black)		5	ST		
60	489548\$	Spring plate		1	ST		
61	461554A	Oval flange head screw M5x20 (strength class 10.9, black)		5	ST		
62	289080A	Oval flange head screw M5x8		4	ST		
70	489528\$	Steel rail		1	ST		
71	144420A	Socket head screw M4x10		8	ST		
80	489545\$	Steel rail, bottom		1	ST		
81	144420A	Socket head screw M4x10		8	ST		
95	491646A	Cover sheet		1	ST		
96	280725A	Oval flange head screw M4x8 (strength class 10.9)		6	ST		
100	455039\$	Pipe 22x2		2	ST		
110	481760A	Holder		1	ST		
120	050936A	Socket head screw M6x12		2	ST		
130	489540\$	Rail		1	ST		
140	489547\$	Rail		1	ST		
150	489930A	Linear wiper, top		1	ST		
160	489931A	Linear wiper, bottom		1	ST		



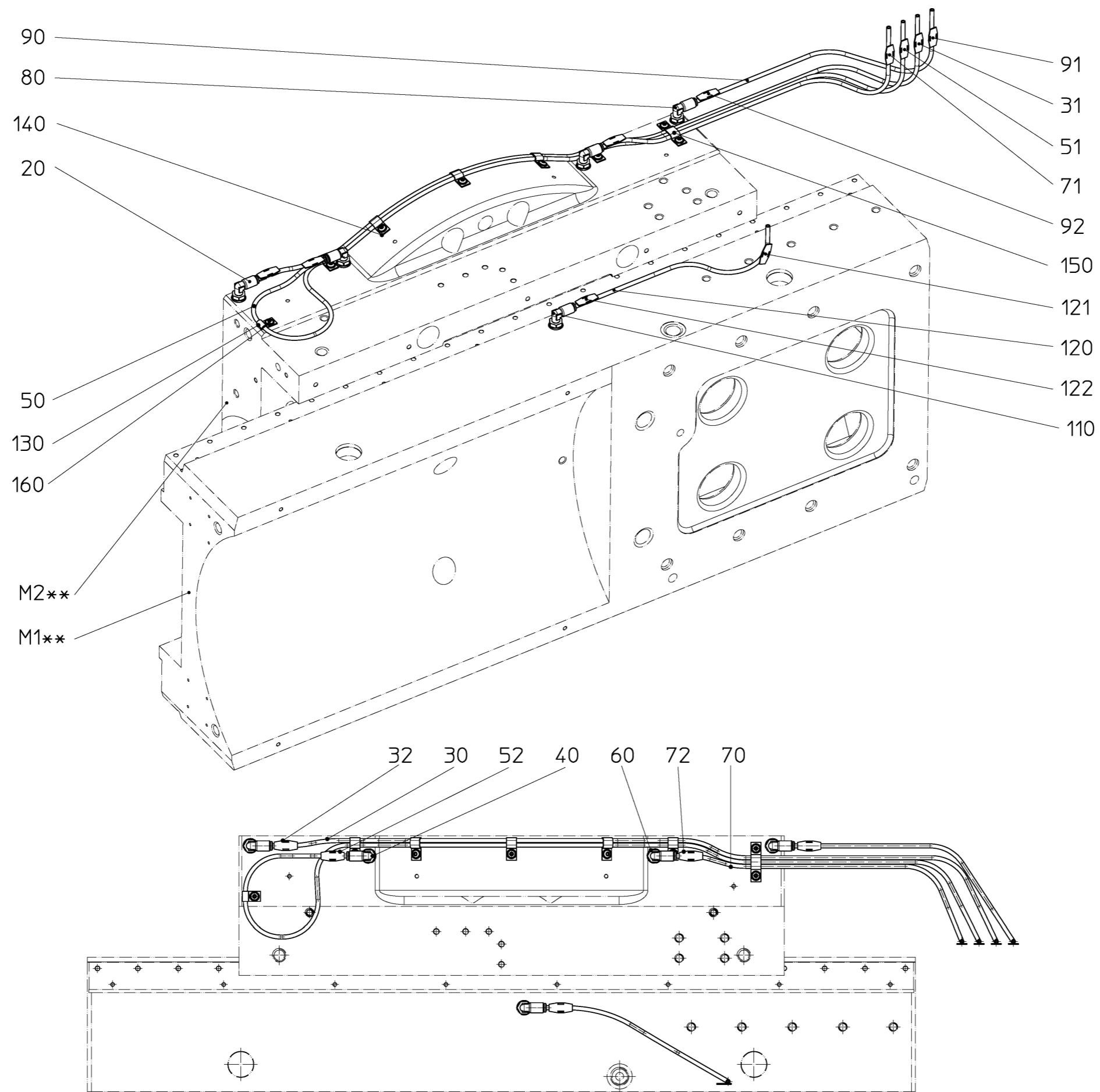
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## SpeedViper 300 Y axis drive

Material no. 451751\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	451701\$	Motor carrier		1	ST		
11	050940A	Socket head screw M6x50		8	ST		
12	050937A	Socket head screw M6x20		12	ST		
13	153882A-2	Needle roller/axial cylindrical roller bearing AXZF 3080-x-l-tvpb		1	ST		
14	267132A-2	Seal carrier DRS 3080		1	ST		
15	074798A	O-ring 92.00x3.00 (NBR 70)		1	ST		
16	055360A	Sealing ring A 40x52x7 (NBR)		1	ST		
17	299143A	Groove nut AM 30 M30X1.5		1	ST		
18	454027A	Rotex coupling GS 24 98 SHA-GS		1	ST		
20	451754\$	Spacer ring		1	ST		



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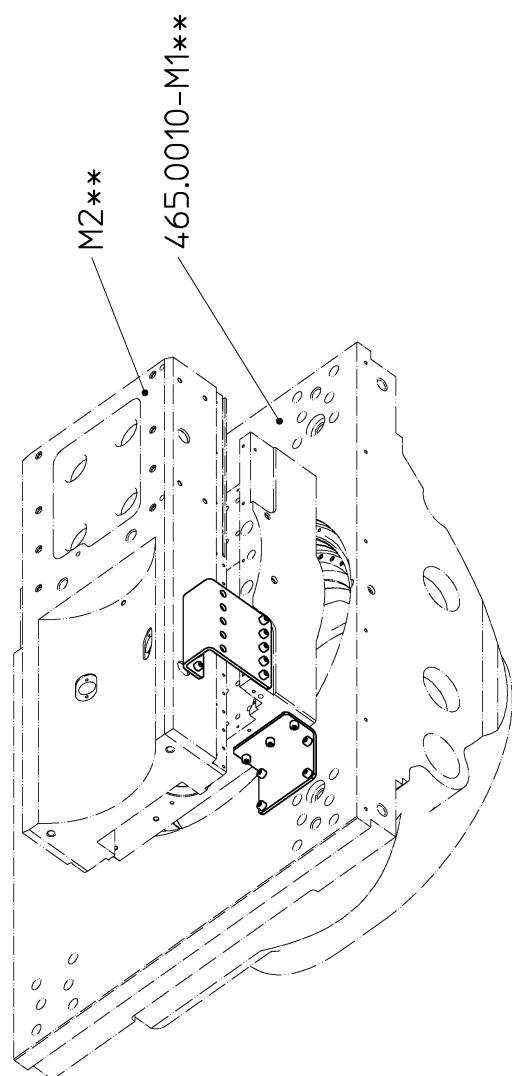
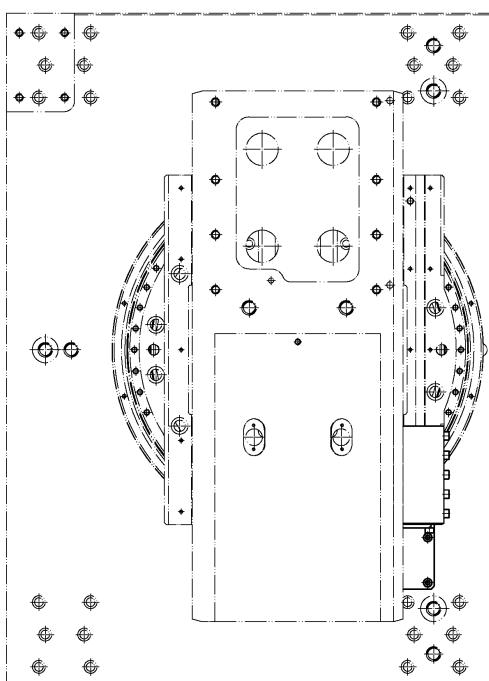
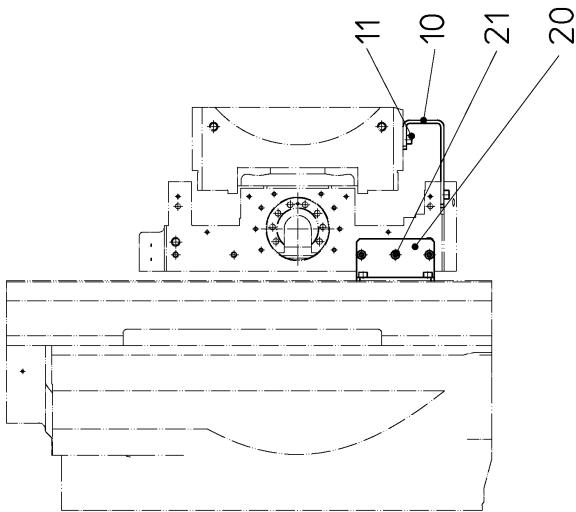


## SpeedViper 300 Y axis, pulse lubrication

Material no. 451760\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
20	376612A	Swing screw-fitting Ø4-M10X1 504-102-VS		1	ST		
30	058650A	Pipe 4x0.85 (P PA 11 weiss)		870	MM		
40	376612A	Swing screw-fitting Ø4-M10X1 504-102-VS		1	ST		
50	058650A	Pipe 4x0.85 (P PA 11 weiss)		1100	MM		
60	376612A	Swing screw-fitting Ø4-M10X1 504-102-VS		1	ST		
70	058650A	Pipe 4x0.85 (P PA 11 weiss)		450	MM		
80	376612A	Swing screw-fitting Ø4-M10X1 504-102-VS		1	ST		
90	058650A	Pipe 4x0.85 (P PA 11 weiss)		350	MM		
110	376612A	Swing screw-fitting Ø4-M10X1 504-102-VS		1	ST		
120	058650A	Pipe 4x0.85 (P PA 11 weiss)		260	MM		
130	061856A	Mounting clip 1x 4 (steel, zinc-plated)		1	ST		
140	279129A	Mounting clip 2x4 (steel, zinc-plated)		5	ST		
150	083782A	Mounting clip 3x4 (steel, zinc-plated)		1	ST		
160	454841A	Oval flange head screw M4x6 (strength class 10.9) black		8	ST		
1000	455387\$	Set of signs		1	ST		

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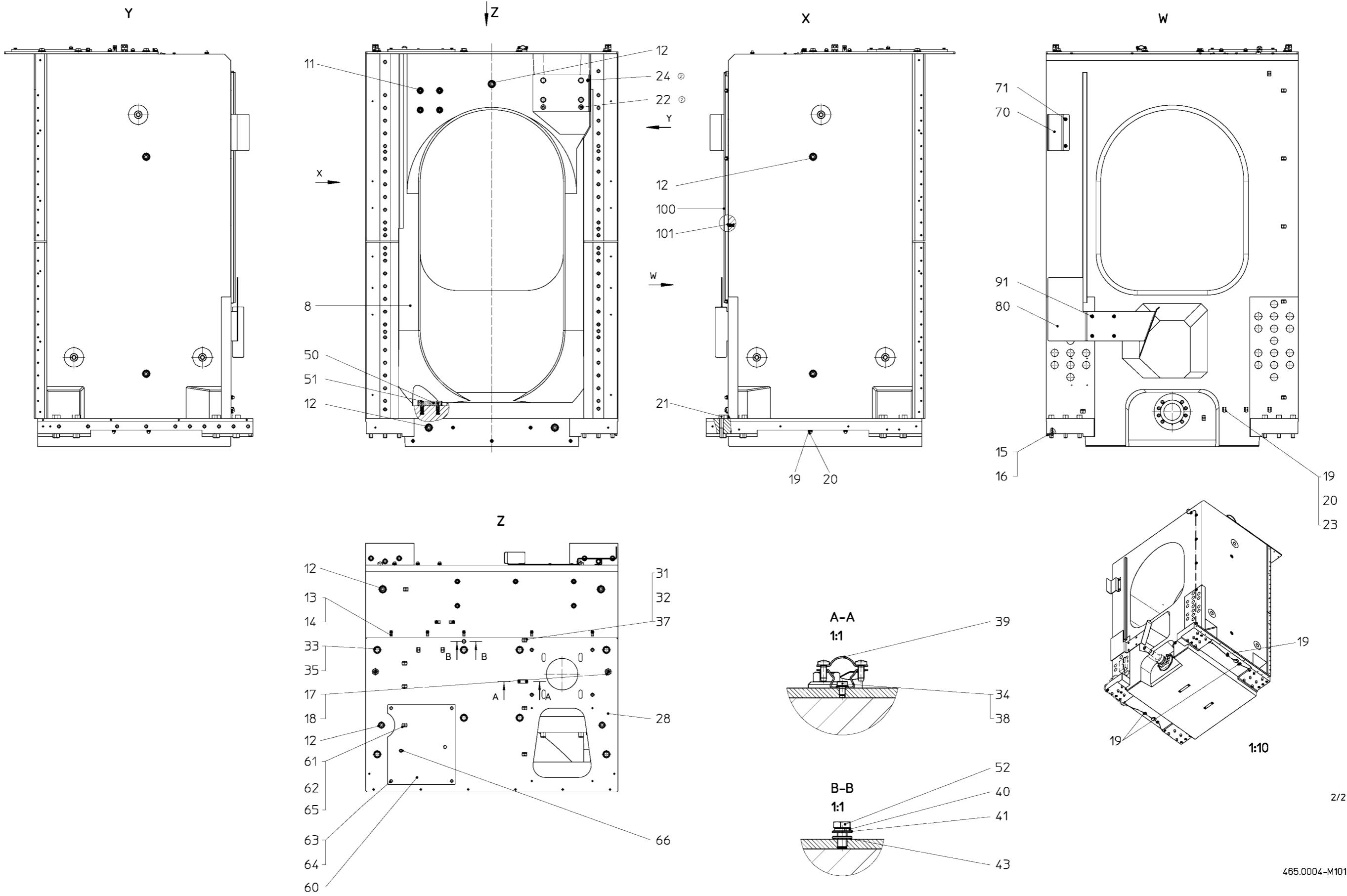


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**SpeedViper 300 Y axis, transport**

Material no. 451761\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	452261A	Transport lock bracket		1	ST		
11	050670A	Socket head screw M8x20		10	ST		
20	457721A	Transport lock bracket		1	ST		
21	050670A	Socket head screw M8x20		7	ST		





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## SpeedViper 300 X axis, radial slide

Material no. 451815\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
8	485771A	Radial slide		1	ST		
11	058973A	Threaded pin M16x16 (quality 45H)		4	ST		
12	178374A	Threaded pin M24x30 (quality 45H)		11	ST		
13	279129A	Mounting clip 2x4 (steel, zinc-plated)		7	ST		
14	280725A	Oval flange head screw M4x8 (strength class 10.9)		7	ST		
15	147525A	Socket head screw M5x8		1	ST		
16	444168A	Cable clamp		1	ST		
17	391162A	Cable gland TOP-TR M20x1.5 6 - 12 mm		2	ST		
18	421263A	Multiple sealing insert MFDE PG13,5 2x5		2	ST		
19	356330A	Hook and loop fastener base KBS 4-20		16	ST		
20	461537A	Hook and loop fastener strap 7.5mm		2000	MM		
21	362730A	Socket head screw M14x80		24	ST		
23	259503A	Countersunk head screw M4x8 (strength class 8.8)		16	ST		
28	486631\$	Plate		1	ST		
31	356330A	Hook and loop fastener base KBS 4-20		7	ST		
32	461537A	Hook and loop fastener strap 7.5mm		560	MM		
33	054304A	Plain washer 30x13x5 KN 311 (structural steel with 50N/mm <sup>2</sup> strength)		8	ST		
34	051145A	Plain washer B5.3 (steel)		1	ST		
35	050733A	Hexagon screw M12x30 (strength class 8.8)		8	ST		
37	259503A	Countersunk head screw M4x8 (strength class 8.8)		7	ST		
38	147398A	Socket head screw M5x8 (strength class 10.9)		1	ST		
39	834189A	Pipe clamp 17-20 mm		1	ST		
40	144081A	Spring-loaded ring A 8 (spring steel, zinc-plated)		1	ST		
41	144078A	Plain washer B8.4 (steel, zinc-plated)		2	ST		
43	144082A	Serrated washer A 8.4 (steel, zinc-plated)		1	ST		
50	455046\$	Plain washer		1	ST		
51	050937A	Socket head screw M6x20		3	ST		
52	144070A	Hexagon screw M8X16 8.8/(galvanized)		1	ST		
60	455047\$	Plate		1	ST		
61	356330A	Hook and loop fastener base KBS 4-20		1	ST		
62	461537A	Hook and loop fastener strap 7.5mm		80	MM		
63	051146A	Plain washer B6,4 (steel)		4	ST		

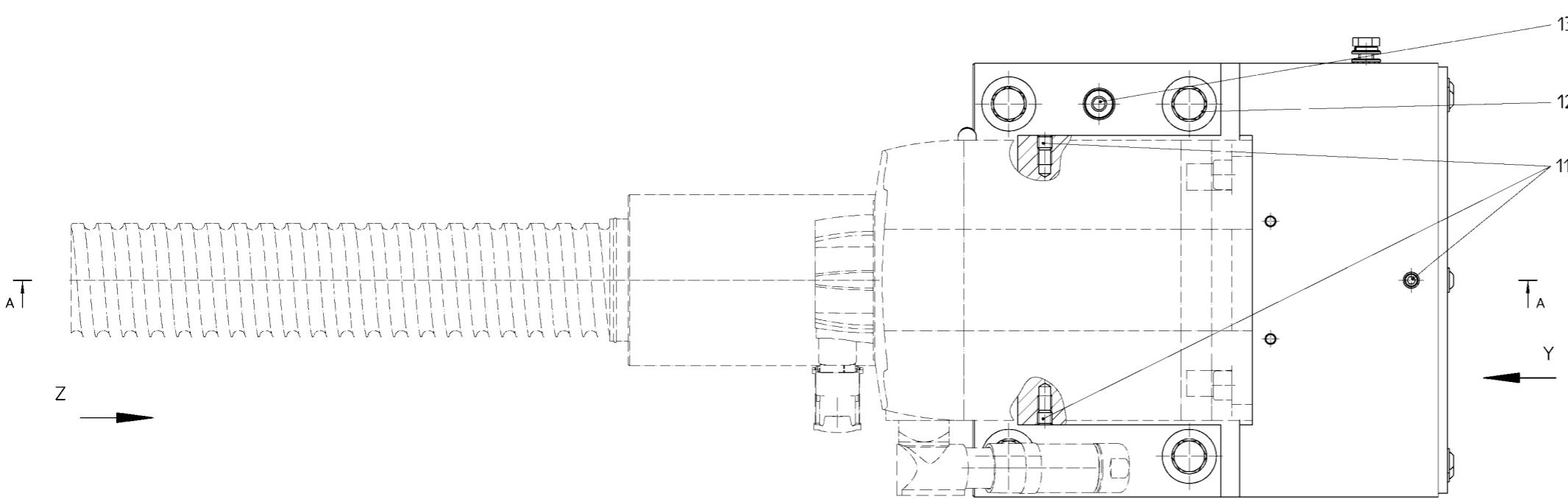
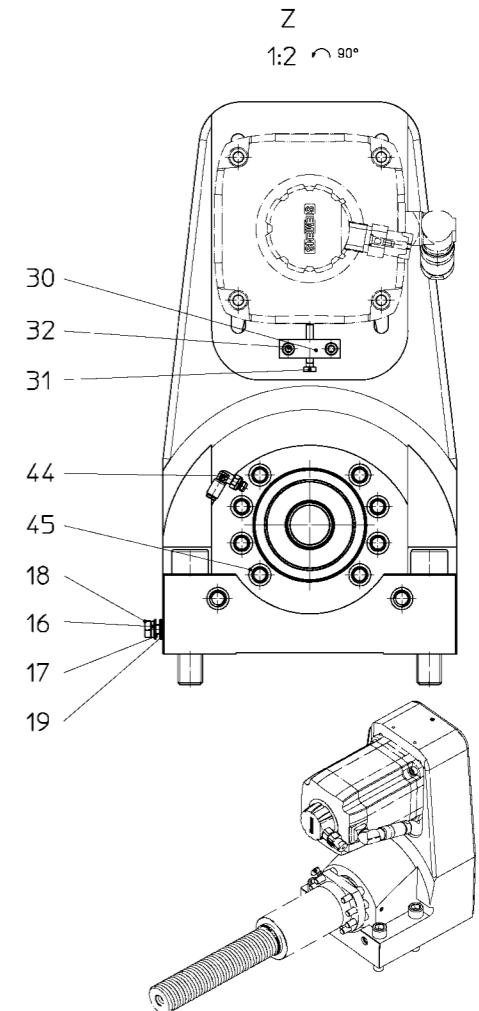
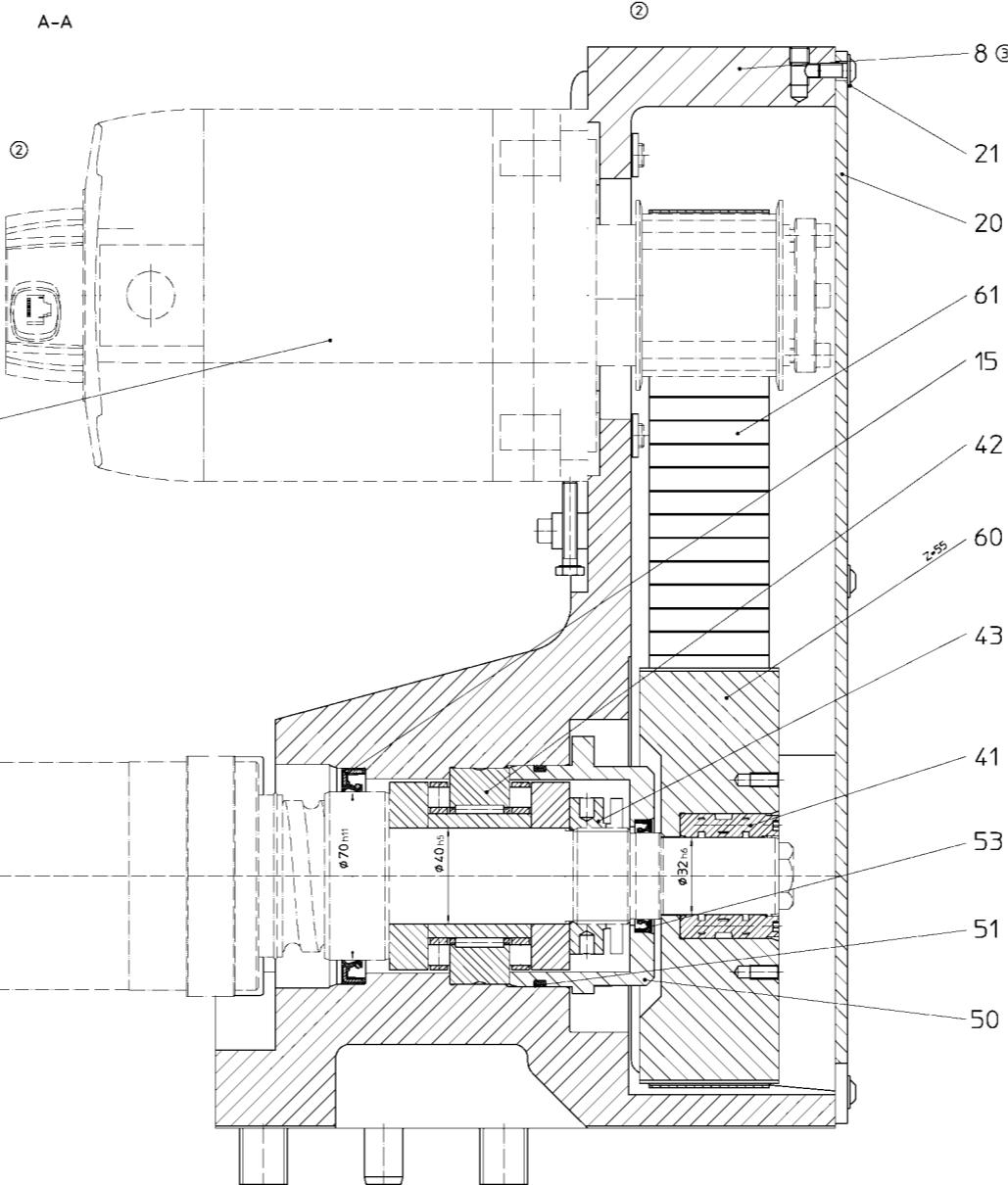
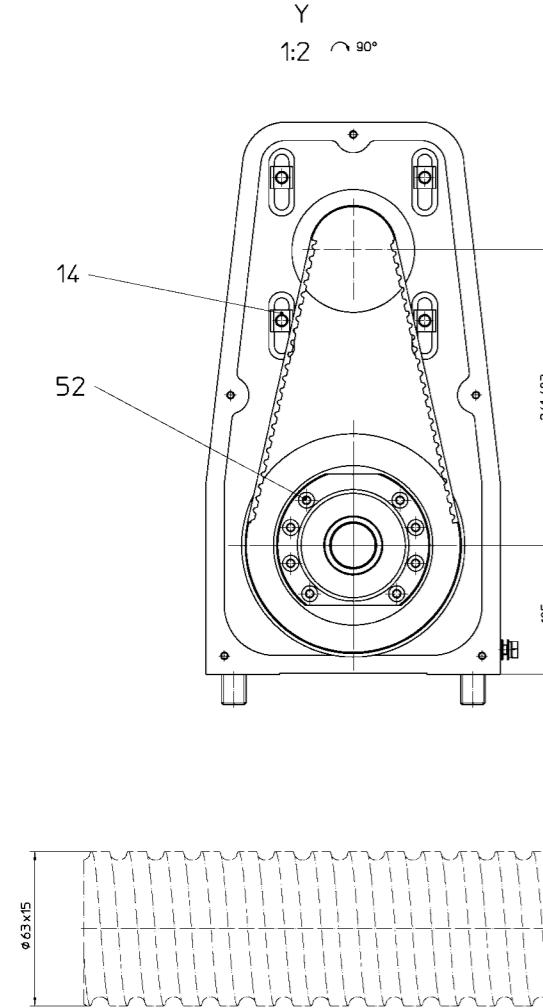


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## SpeedViper 300 X axis, radial slide

Material no. 451815\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
64	050703A	Hexagon screw M6x16 (strength class 8.8)		4	ST		
65	259503A	Countersunk head screw M4x8 (strength class 8.8)		1	ST		
66	322783A	Threaded pin M16x12 (grade 45H, phosphated)		1	ST		
70	460032A	Protective plate		1	ST		
71	288524A	Oval flange head screw M6x16 (strength class 10.9)		2	ST		
80	460033A	Protective plate		1	ST		
91	288524A	Oval flange head screw M6x16 (strength class 10.9)		4	ST		
100	460168A	Cable duct PIK 15/15S L950		1	ST		
101	280725A	Oval flange head screw M4x8 (strength class 10.9)		4	ST		



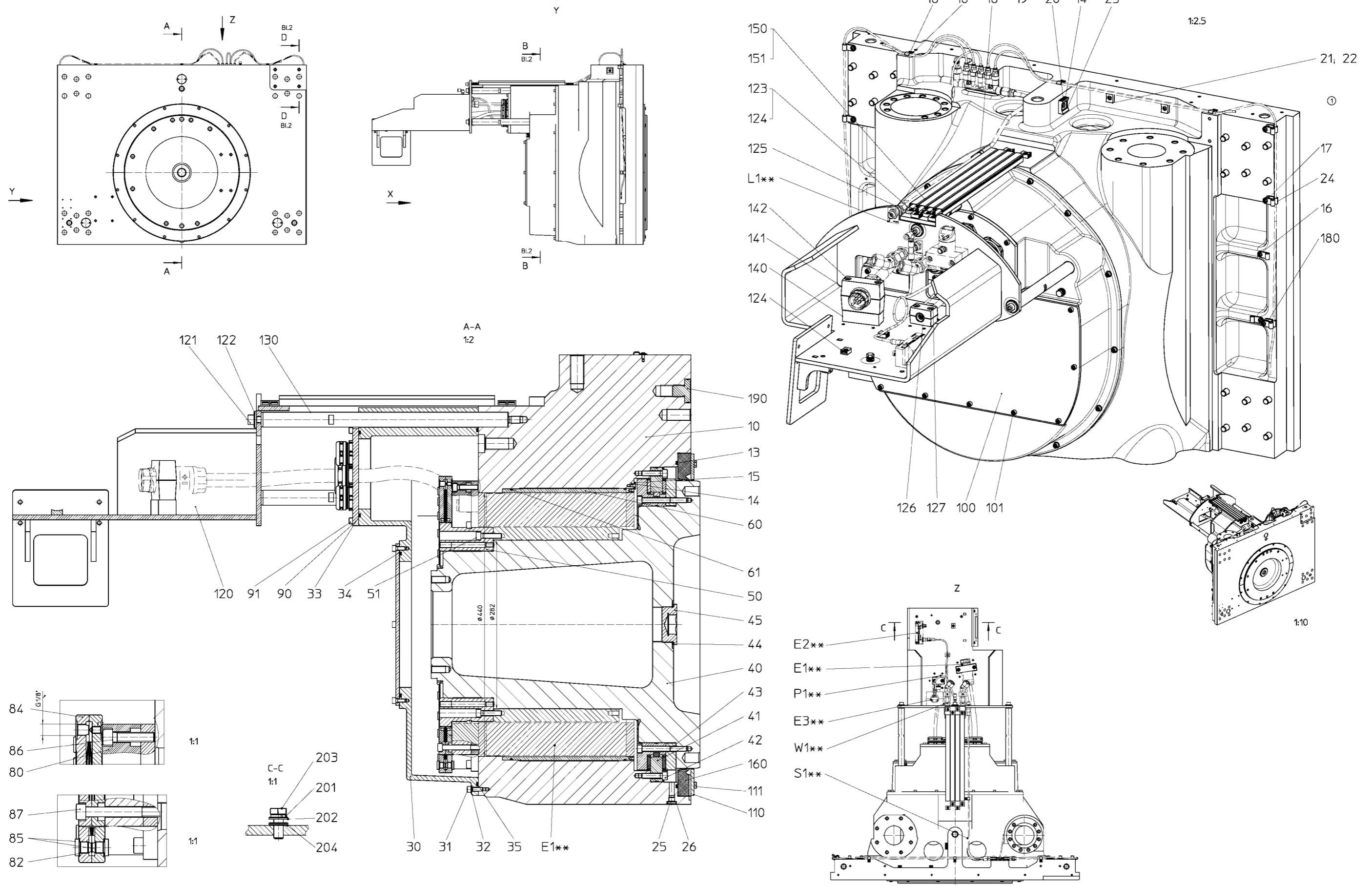
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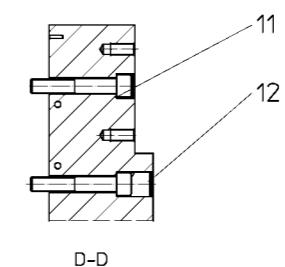
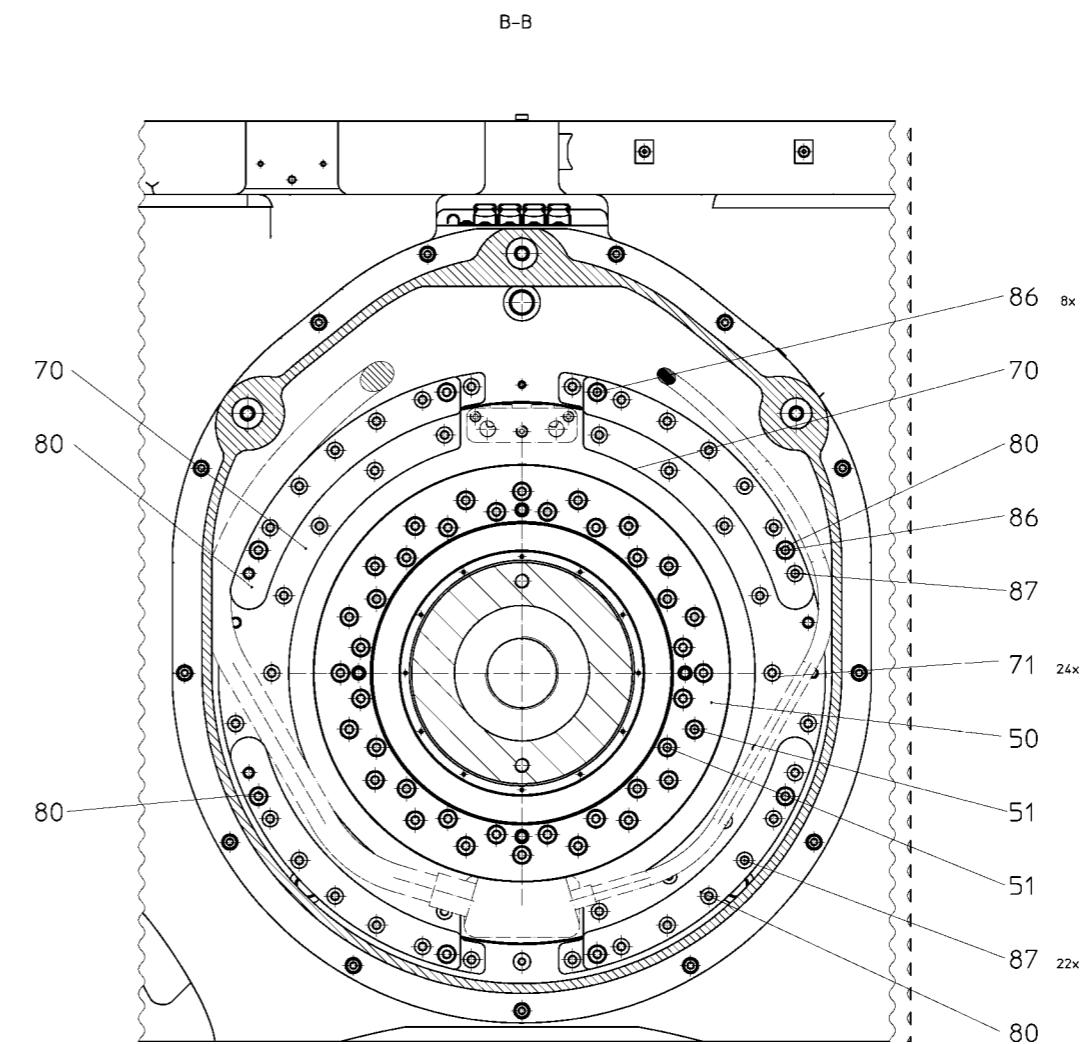
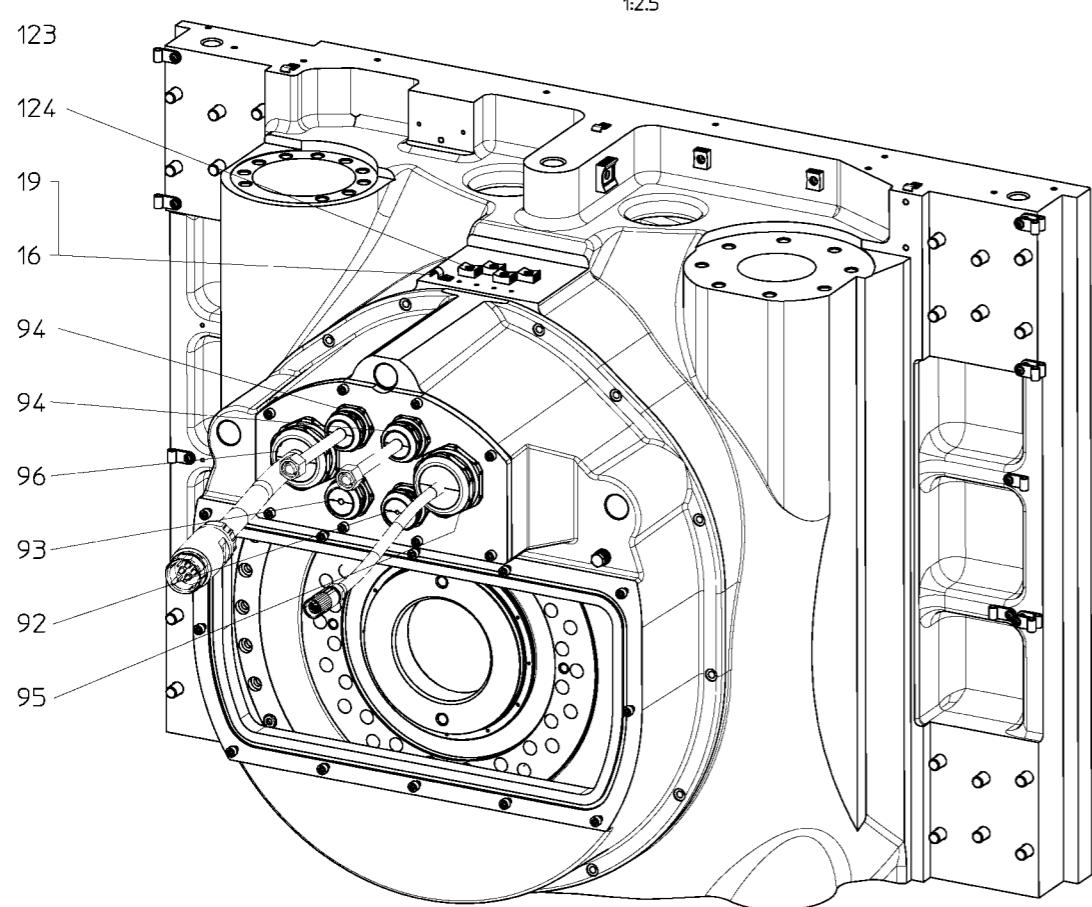
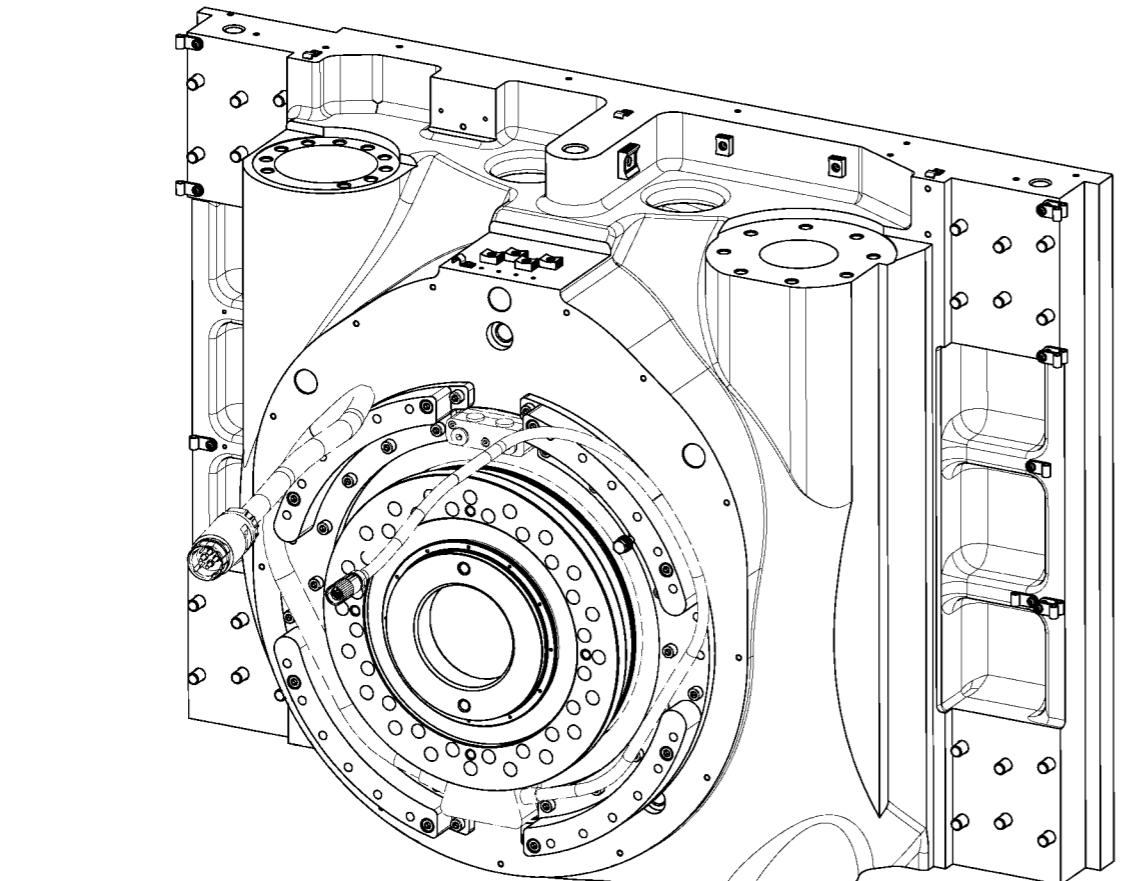


## SpeedViper 300 X axis drive

Material no. 451816\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	451705\$	Drive housing		1	ST		
11	050976A	Threaded pin M8x8 (quality 45H)		3	ST		
12	075181A	Socket head screw M20x90		4	ST		
13	404921A	Cylindrical pin 16 M6x50 -D (steel)		2	ST		
14	054237A	T-nut M10x12 (strength class 8)		4	ST		
15	454080A	Sealing ring AS 70x90x10 (NBR)		1	ST		
16	144081A	Spring-loaded ring A 8 (spring steel, zinc-plated)		1	ST		
17	051147A	Plain washer B8.4 (steel)		2	ST		
18	050711A	Hexagon screw M8x20 (strength class 8.8)		1	ST		
19	144082A	Serrated washer A 8.4 (steel, zinc-plated)		1	ST		
20	452266A	Cover		1	ST		
21	303336A	Oval flange head screw M6x12 (strength class 10.9)		5	ST		
30	451740\$	Rail		1	ST		
31	050707A	Hexagon screw M6x35 (strength class 8.8)		1	ST		
32	050938A	Socket head screw M6x25		2	ST		
41	345845A	Thrust sleeve DSK 32X52 (steel)		1	ST		
42	089198A-2	Needle axial roller bearing AXZN 4090 TVPB		1	ST		
43	299526A	Groove nut AM 40 M40x1.5		1	ST		
44	362744A	Swivel screw fitting Ø4-M8x1 504-101-VS		1	ST		
45	077534A	Socket head screw M12x40		8	ST		
50	337175A	Thrust sleeve		1	ST		
51	279879A	O-ring 85.00x3.55 (NBR 70)		1	ST		
52	050670A	Socket head screw M8x20		8	ST		
53	454082A	Sealing ring AS 36x47x7 (NBR)		1	ST		
60	431818\$	Toothed belt pulley AT10 Z55		1	ST		
61	385192A	Toothed belt 50AT10/880 GEN 3		1	ST		





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## SpeedViper 300 A axis lifting slide

Material no. 451817\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	451692\$	Lifting slide		1	ST		
11	077569A	Socket head screw M12x70 (strength class 12.9)		24	ST		
12	7807655A	Cover plugs MRS 45		24	ST		
13	074885A	Sealing ring 530.00X4.00 (NBR 70)		1	ST		
14	259503A	Countersunk head screw M4x8 (strength class 8.8)		8	ST		
15	457704A	Thrust plate 08180-01		1	ST		
16	280725A	Oval flange head screw M4x8 (strength class 10.9)		9	ST		
17	7835278A	Oval flange head screw M4x20 (strength class 10.9) black		3	ST		
18	279129A	Mounting clip 2x4 (steel, zinc-plated)		3	ST		
19	061859A	Mounting clip 1x8 (steel, zinc-plated)		1	ST		
20	356331A	Hook and loop fastener base KBS 8-35		1	ST		
21	356330A	Hook and loop fastener base KBS 4-20		6	ST		
22	461537A	Hook and loop fastener strap 7.5mm		320	MM		
23	461546A	Hook and loop fastener strap 20mm		150	MM		
24	444168A	Cable clamp		11	ST		
25	054159A	Locking screw G1/8in (steel)		1	ST		
26	055656A	Sealing ring A 10x13.5 (copper)		1	ST		
30	451698\$	Cover		1	ST		
31	050937A	Socket head screw M6x20		13	ST		
32	104070A	Washer B6,4 ST/CHR		13	ST		
33	074858A	O-ring 210.00x4.00 (NBR 70)		1	ST		
34	454296A	O-ring 420.00x4.00		1	ST		
35	454295A	O-ring 585.00x4.00		1	ST		
40	451694\$	Shaft A axis		1	ST		
41	362482A	Axial radial bearing YRT 395		1	ST		
42	076513A	Socket head screw M8x35		45	ST		
43	284811A	Socket head screw M8X75		46	ST		
44	149769A	Screw plug G2 brass		1	ST		
45	252317A	Sealing ring A 60x68 (copper)		1	ST		
50	451693\$	Rotor carrier		1	ST		
51	076513A	Socket head screw M8x35		40	ST		
60	455283\$	Pipe		1	ST		



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## SpeedViper 300 A axis lifting slide

Material no. 451817\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
61	7808696A	Sealing ring 440.00x3.00 (NBR 70)		2	ST		
70	451697\$	Stator carrier, two-part		1	ST		
71	050628A	Socket head screw M8x25		24	ST		
80	451696\$	Clamping ring carrier, four-part		1	ST		
82	055656A	Sealing ring A 10x13.5 (copper)		2	ST		
84	454173A	Rotoclamp RC 340 L		1	ST		
85	054159A	Locking screw G1/8in (steel)		2	ST		
86	076513A	Socket head screw M8x35		8	ST		
87	284811A	Socket head screw M8X75		22	ST		
90	455298\$	Cover connections		1	ST		
91	050937A	Socket head screw M6x20		8	ST		
92	454290A	Universal sealing gland M40x1.5 24055DPMK 1/4.5		1	ST		
93	454291A	Universal sealing gland M40x1.5 24055DPMK 1/6		1	ST		
94	454292A	Universal sealing gland M40x1.5 24055DPMK 1/12		2	ST		
95	454293A	Universal sealing gland M63x1.5 26358DPMK 1/11.5		1	ST		
96	454294A	Universal sealing gland M63x1.5 26358DPMK 1/22		1	ST		
100	455300\$	Cover measurement system		1	ST		
101	050665A	Socket head screw M6x16		12	ST		
110	455301\$	Cover sheet		2	ST		
111	050707A	Hexagon screw M6x35 (strength class 8.8)		12	ST		
120	457705A	Holder cable installation chain		1	ST		
121	068533A	Socket head screw M10x25		3	ST		
122	054299A	Plain washer 28x10.5x4 KN 311 (structural steel with 50N/mm <sup>2</sup> strength)		3	ST		
123	259503A	Countersunk head screw M4x8 (strength class 8.8)		7	ST		
124	356330A	Hook and loop fastener base KBS 4-20		7	ST		
125	461537A	Hook and loop fastener strap 7.5mm		560	MM		
126	442792A	Clamping jaw pair LKP-3-R-20-PP		1	PAA		
127	259206A	Socket head screw M6x35		2	ST		
130	455396\$	Bar		3	ST		
140	455302\$	Rail		1	ST		
141	433713A	Pair of terminal halves LKP-6-R-44.5Pp		1	PAA		
142	280979A	Socket head screw M6x90		2	ST		

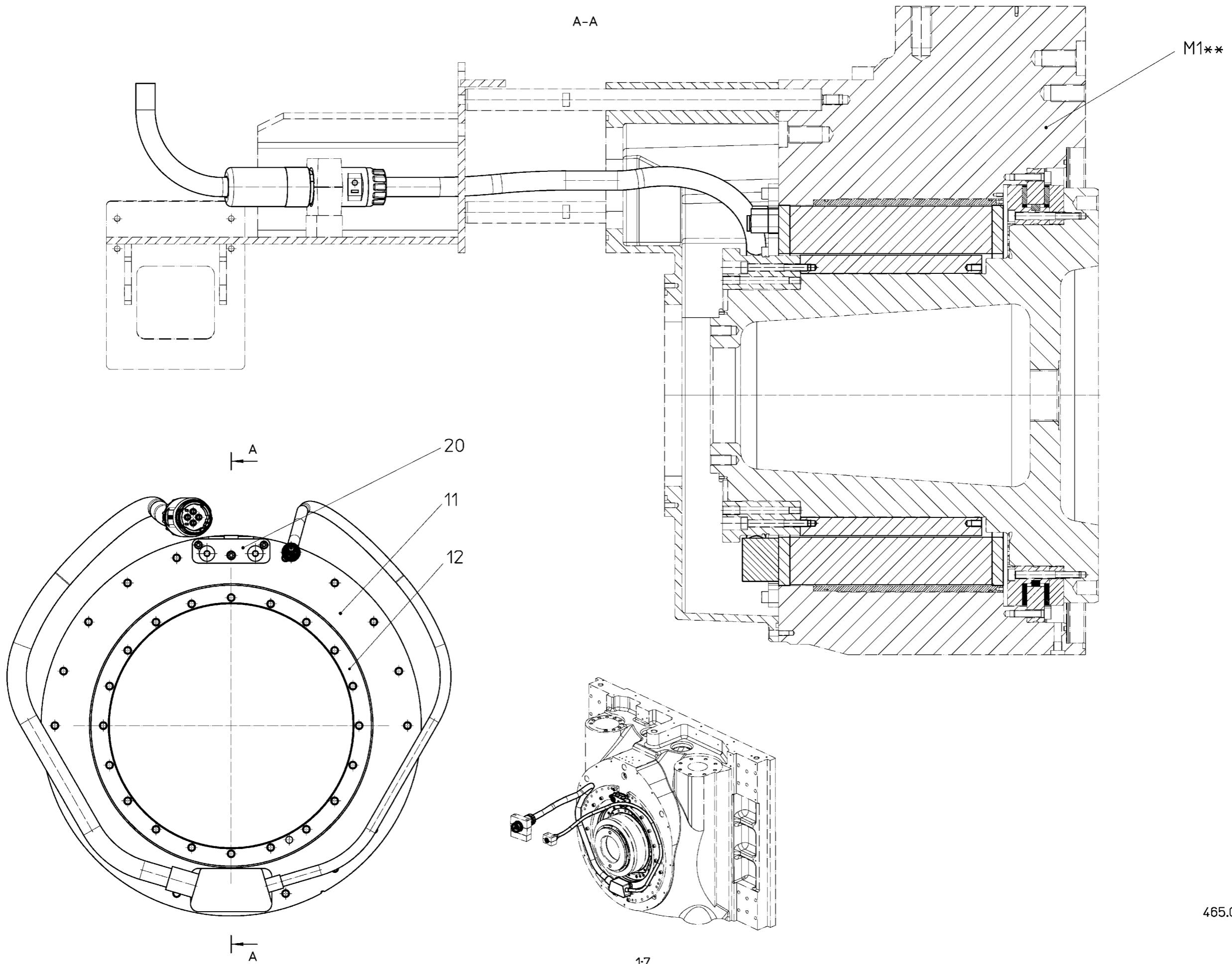


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## SpeedViper 300 A axis lifting slide

Material no. 451817\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
150	457600A	Cable duct PIK 15/15S L360		4	ST		
151	280725A	Oval flange head screw M4x8 (strength class 10.9)		8	ST		
160	452262A	Seal A axis		1	ST		
170	472318A	Holder		1	ST		
171	303336A	Oval flange head screw M6x12 (strength class 10.9)		2	ST		
172	320245A	Socket head screw M3x25		4	ST		
180	455393\$	Pipe 12x1.5		3	ST		
190	431987\$	Threaded plug		3	ST		
201	144081A	Spring-loaded ring A 8 (spring steel, zinc-plated)		2	ST		
202	051147A	Plain washer B8.4 (steel)		4	ST		
203	050711A	Hexagon screw M8x20 (strength class 8.8)		2	ST		
204	144082A	Serrated washer A 8.4 (steel, zinc-plated)		2	ST		



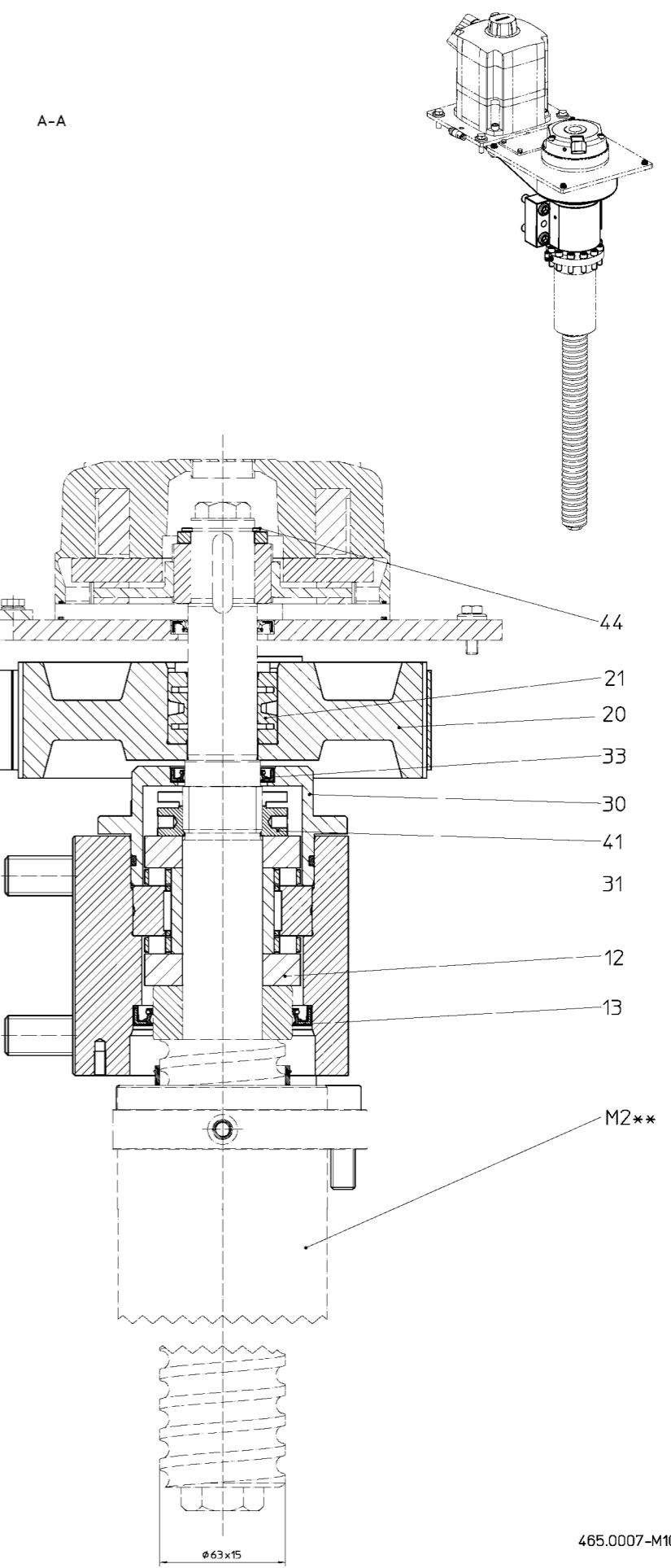
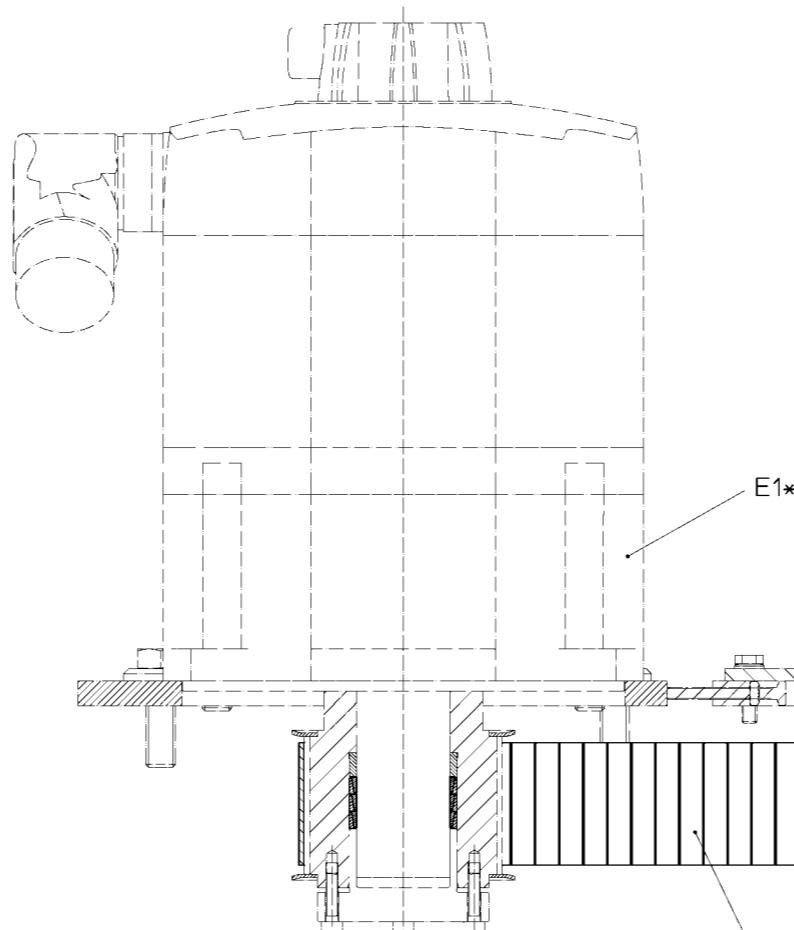
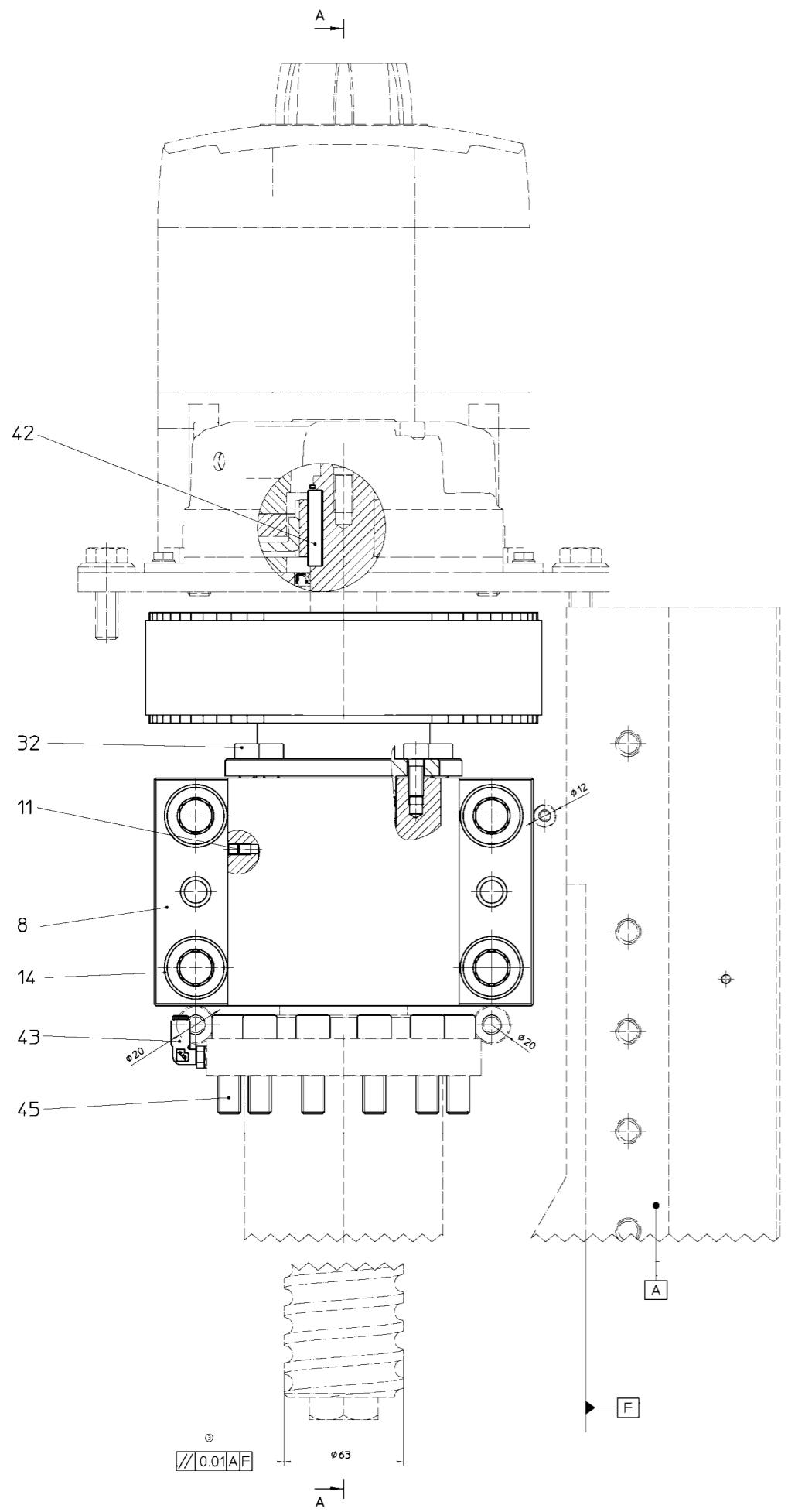
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## SpeedViper 300 A axis, electrical parts, drive

Material no. 451818\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
11	490569A	Stator		1	ST		
12	7835398A	Rotor		1	ST		
20	362194A	Cooling connection adapter 1FW6160-1BA00-0AA0		1	ST		



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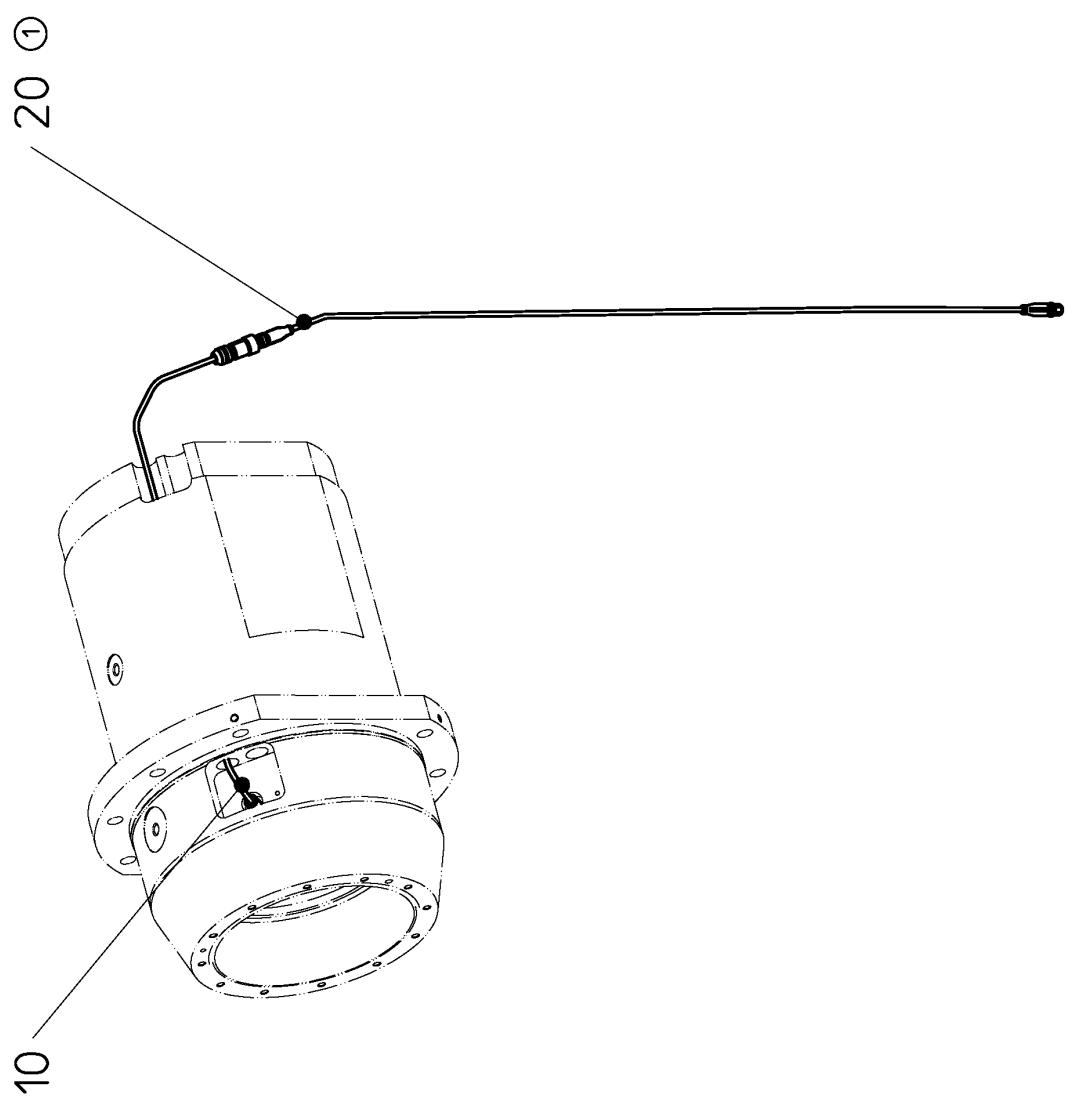


## SpeedViper 300 Drive, Z axis

Material no. 451837\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
8	486625\$	Bearing block		1	ST		
11	050969A	Threaded pin M6x6 (quality 45H)		1	ST		
12	089198A-2	Needle axial roller bearing AXZN 4090 TVPB		1	ST		
13	454080A	Sealing ring AS 70x90x10 (NBR)		1	ST		
14	077586A	Socket head screw M20x70 (strength class 12.9)		4	ST		
17	7837613A	Cylindrical pin 12 M6x60 -D (steel)		2	ST		
20	460867\$	Toothed belt pulley AT10 Z65		1	ST		
21	147576A	Pressure sleeve AL 35X55 (steel)		1	ST		
22	363770A	Toothed belt 50AT10/1100 GEN 3		1	ST		
30	451724\$	Thrust sleeve		1	ST		
31	279879A	O-ring 85.00x3.55 (NBR 70)		1	ST		
32	050670A	Socket head screw M8x20		8	ST		
33	454087A	Sealing ring AS 38x52x7 (NBR)		1	ST		
41	299526A	Groove nut AM 40 M40x1.5		1	ST		
42	052886A	Feather key A 10x8x40 (structural steel with 50N/mm <sup>2</sup> strength and cold-drawn)		1	ST		
43	362744A	Swivel screw fitting Ø4-M8x1 504-101-VS		1	ST		
44	052926A	Retaining ring 32x1.5 (spring steel)		1	ST		
45	077534A	Socket head screw M12x40		10	ST		

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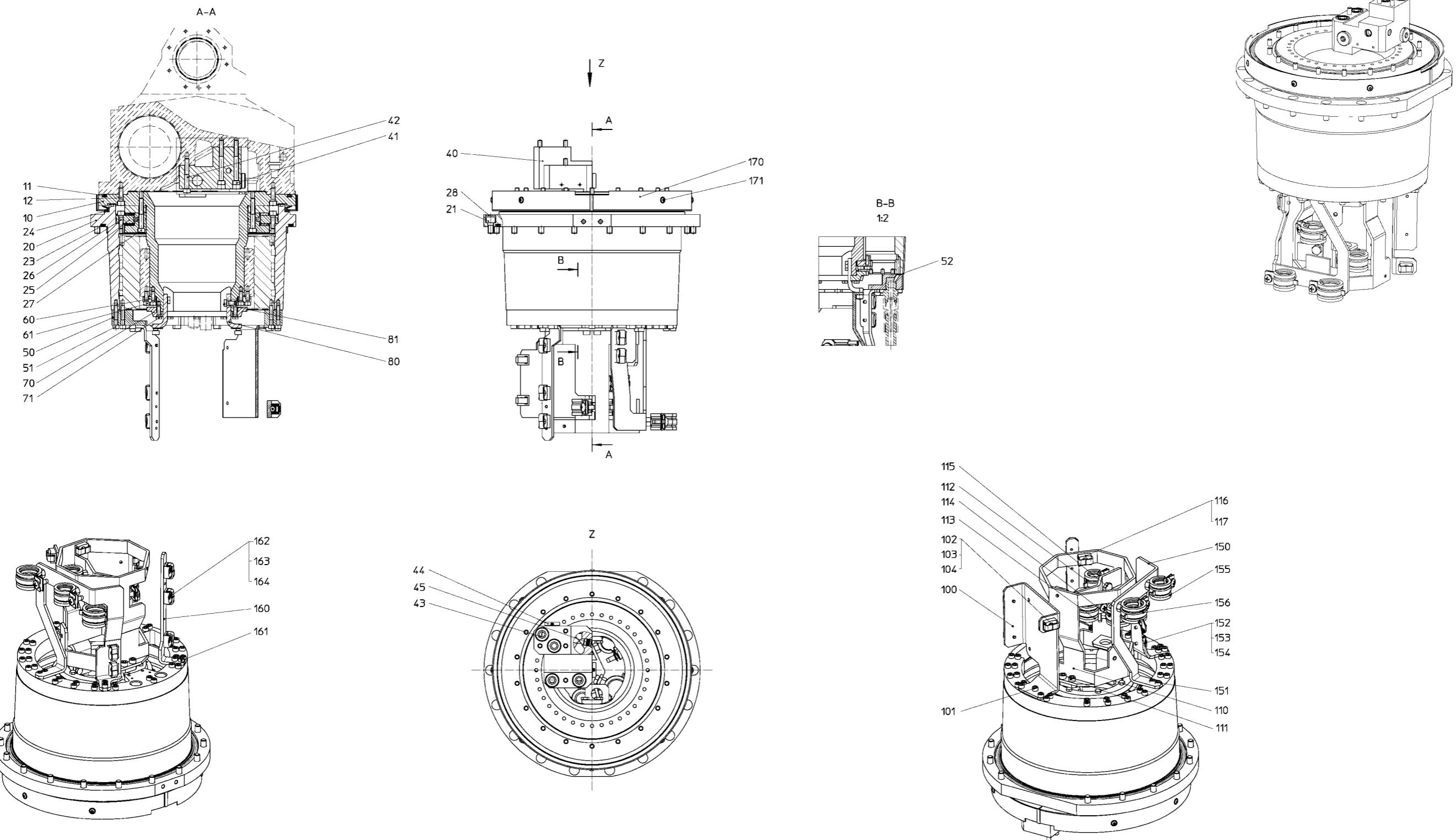




## SpeedViper 300 Temperature sensor

Material no. 451846\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	490030A	Sensor KLGCSMALT15SF0505		1	ST		
20	459636A	Connecting cable AL-WAKS4-03-AL-WASS4/S370		1	ST		



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## SpeedViper 300 Dressing unit headstock

Material no. 455011\$

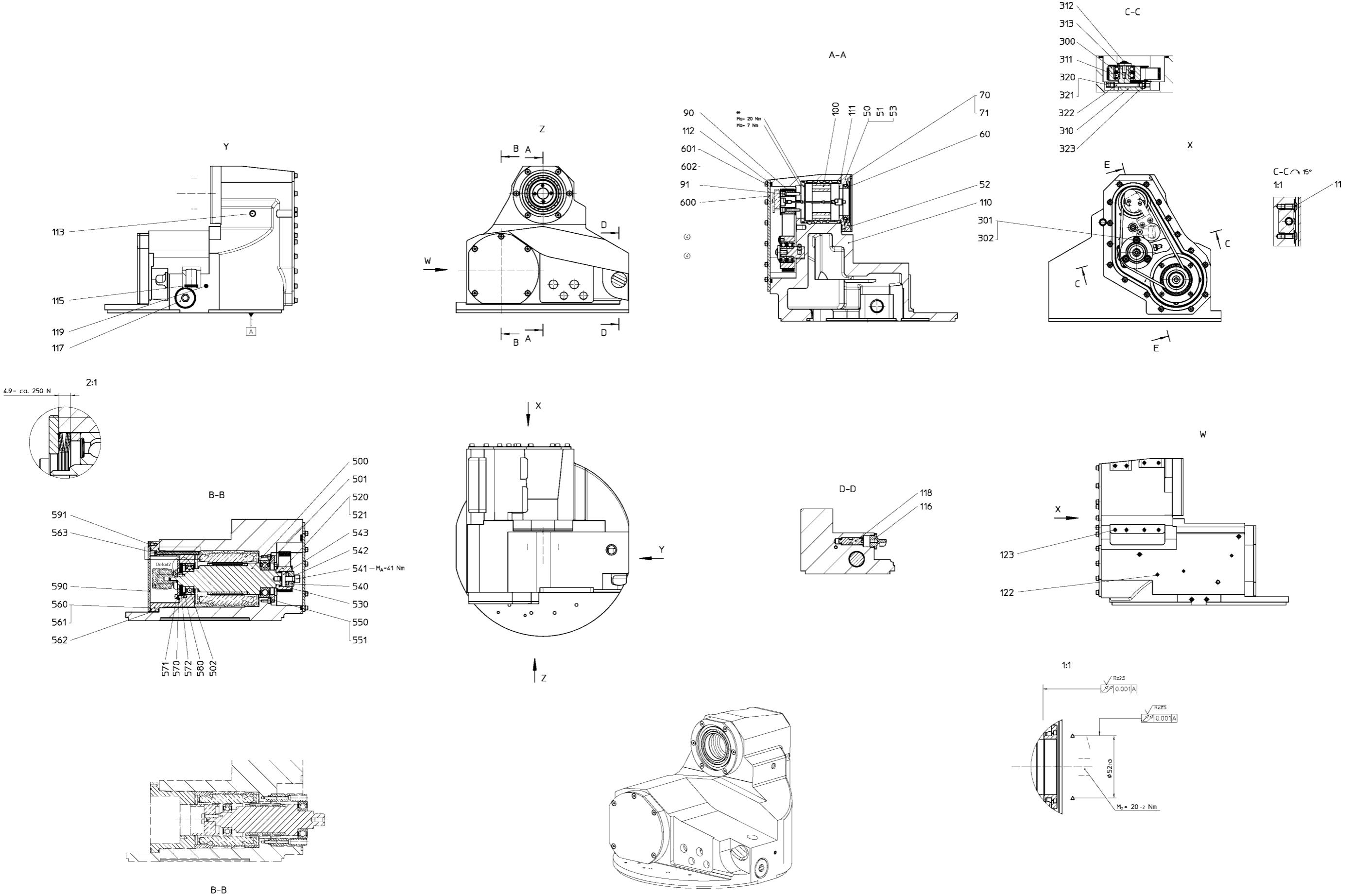
Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	455132\$	Locating socket		1	ST		
11	074869A	Sealing ring 265.00x5.00 (NBR 70)		1	ST		
12	050937A	Socket head screw M6x20		18	ST		
20	455133\$	Base seat		1	ST		
21	050941A	Socket head screw M8x16		16	ST		
23	074869A	Sealing ring 265.00x5.00 (NBR 70)		1	ST		
24	454138A	V-seal V Ø233.0- 260.0 I (N6T50)		1	ST		
25	454046A-11	Axial/radial bearing ARL 150 *IBO		1	ST		
26	050937A	Socket head screw M6x20		36	ST		
27	144216A	Socket head screw M6x45 (strength class 12.9)		34	ST		
28	7807654A	Cover plugs MRS 35		16	ST		
40	455153\$	Distribution list		1	ST		
41	077512A	Socket head screw M6x60		3	ST		
42	144216A	Socket head screw M6x45 (strength class 12.9)		1	ST		
43	074693A	Sealing ring 12.00x3.00 (NBR 70)		4	ST		
44	330606A	Sealing plug VSTI R3/8 IN-ED CF		2	ST		
45	333812A	Expander 10.0		2	ST		
50	455128\$	Fixing ring		1	ST		
51	077507A	Socket head screw M5x30		36	ST		
52	327373A	O-ring 6.00x1.50 (NBR 70)		4	ST		
60	452438A	Rotor carrier		1	ST		
61	077510A	Socket head screw M5x16		47	ST		
70	455135\$	Ring for measurement system		1	ST		
71	050698A	Hexagon screw M5x16 (strength class 8.8)		8	ST		
80	457924A	Angle		2	ST		
81	078435A	Hexagon head screw M6X12 (strength class 8.8)		4	ST		
100	461503A	Angle for DRIVE-CLiQ		1	ST		
101	053888A	Socket head screw M5x10		3	ST		
102	356330A	Hook and loop fastener base KBS 4-20		3	ST		
103	259503A	Countersunk head screw M4x8 (strength class 8.8)		3	ST		
104	461537A	Hook and loop fastener strap 7.5mm		600	MM		
110	461500A	Power supply holder		1	ST		



## SpeedViper 300 Dressing unit headstock

Material no. 455011\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
111	259207A	Socket head screw M6x10		4	ST		
112	B=20	Pipe clamp BISMAT Flash d= 15-18		1	ST		
113	B=20	Pipe clamp BISMAT Flash d= 15-18		1	ST		
114	B=20	Pipe clamp BISMAT Flash d= 15-18		1	ST		
115	050709A	Hexagon head cap screw M8x10 (strength class 8.8)		3	ST		
116	356330A	Hook and loop fastener base KBS 4-20		1	ST		
117	259503A	Countersunk head screw M4x8 (strength class 8.8)		1	ST		
150	461501A	Frame, outside		1	ST		
151	053888A	Socket head screw M5x10		4	ST		
152	356330A	Hook and loop fastener base KBS 4-20		2	ST		
153	259503A	Countersunk head screw M4x8 (strength class 8.8)		2	ST		
154	461537A	Hook and loop fastener strap 7.5mm		400	MM		
155	B=20	Pipe clamp BISMAT Flash d= 15-18		1	ST		
156	B=20	Pipe clamp BISMAT Flash d= 15-18		1	ST		
157	050709A	Hexagon head cap screw M8x10 (strength class 8.8)		2	ST		
160	461502A	Bracket, outside		1	ST		
161	053888A	Socket head screw M5x10		2	ST		
162	356330A	Hook and loop fastener base KBS 4-20		3	ST		
163	259503A	Countersunk head screw M4x8 (strength class 8.8)		3	ST		
164	461537A	Hook and loop fastener strap 7.5mm		600	MM		
170	460494A	Protective ring		2	ST		
171	280725A	Oval flange head screw M4x8 (strength class 10.9)		6	ST		



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## SpeedViper 300 Dressing spindle, complete

Material no. 455013\$

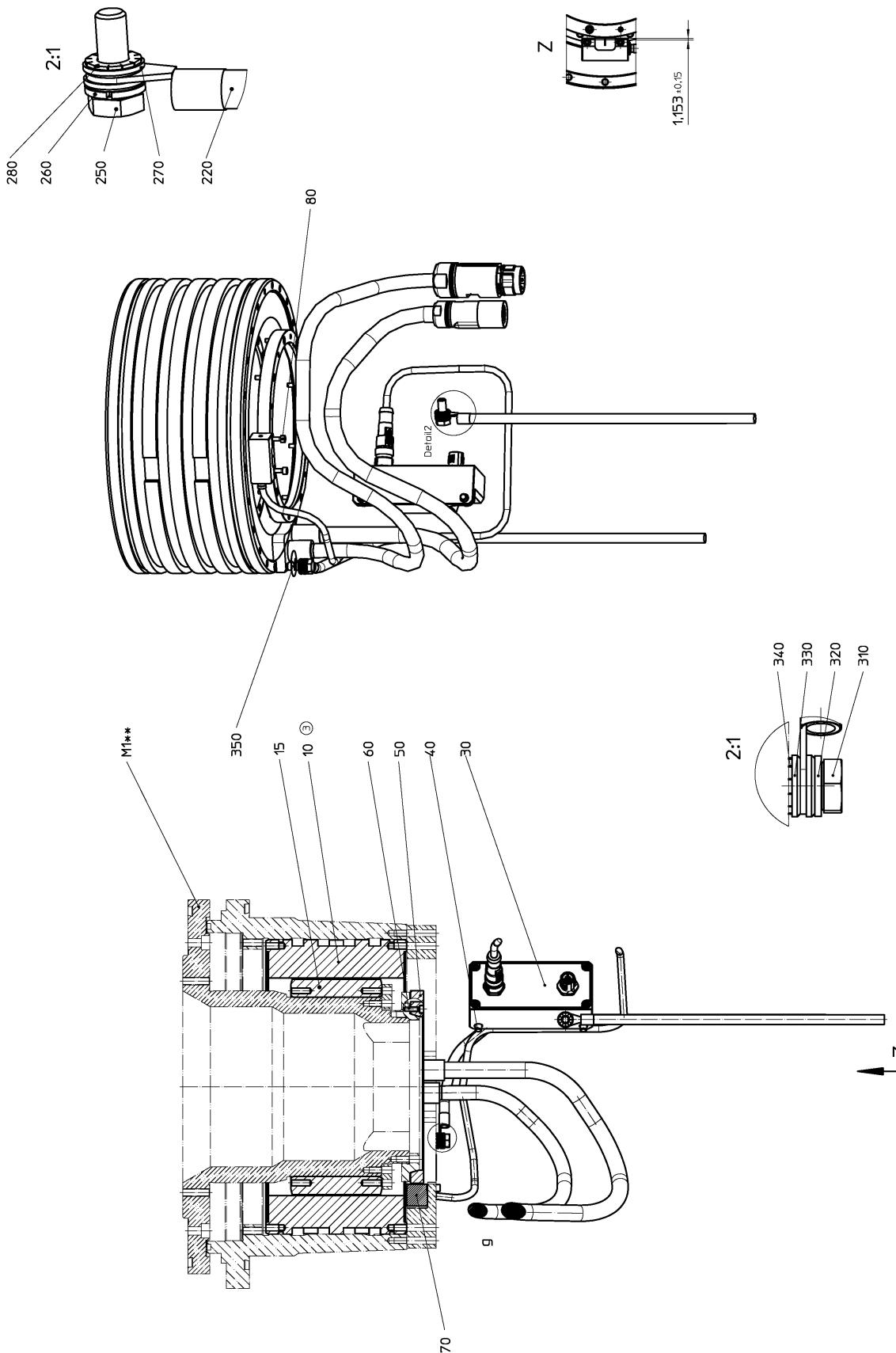
Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
50	455139\$	Pressure flange		1	ST		
51	258980A	Socket head screw M4x16		8	ST		
52	074680A	O-ring 7.00x2.00 (NBR 70)		1	ST		
53	050969A	Threaded pin M6x6 (quality 45H)		1	ST		
60	455140\$	Air distribution ring		1	ST		
70	452440A	Impact ring		1	ST		
71	139555A	Countersunk head screw M4x12 (strength class 8.8)		6	ST		
90	455141\$	Toothed pulley Z265M		1	ST		
91	077505A	Socket head screw M4x25		4	ST		
100	455146\$	Spacer rings		1	ST		
110	455177\$	Dresser housing, complete		1	ST		
111	060491A	Sealing ring 64.00X3.00 (NBR 70)		1	ST		
112	074850A	Sealing ring 180.00x4.00 (NBR 70)		1	ST		
113	333812A	Expander 10.0		2	ST		
114	280725A	Oval flange head screw M4x8 (strength class 10.9)		2	ST		
115	055412A	O-ring 18.00x2.50 (NBR 70)		1	ST		
116	445754A	Threaded plug		1	ST		
117	332907A	Screw plug VSTI R3/4 IN-ED CF		1	ST		
118	454146A	Round clamping element 03350-06 *NLM		1	ST		
119	050972A	Threaded pin M6x12 (quality 45H)		5	ST		
122	050963A	Threaded pin M4x5 (quality 45H)		2	ST		
123	320226A	Threaded pin M5x8 (strength class A2)		8	ST		
300	455147\$	Tensioning belt pulley		1	ST		
301	280725A	Oval flange head screw M4x8 (strength class 10.9)		3	ST		
302	320611A	Plain washer 4.3 (steel, galvanized)		3	ST		
310	455159\$	Tensioning roller mount		1	ST		
311	069434A	Ball bearing 6202-2Z		2	ST		
312	288524A	Oval flange head screw M6x16 (strength class 10.9)		1	ST		
313	322404A	Plain washer 8.4		1	ST		
320	455211\$	Feather key 14x9x40		1	ST		
321	144420A	Socket head screw M4x10		2	ST		
322	138722A	Stud bolt M6x60 (strength class 8.8)		1	ST		



## SpeedViper 300 Dressing spindle, complete

Material no. 455013\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
323	154833A	Hexagon nut M6 (strength class 8, galvanized)		1	ST		
500	455149\$	Motor spindle, complete		1	ST		
501	454152A-7	Ball bearing 6206-2Z C3WT		1	ST		
502	454153A-7	Ball bearing 6205-2RSL/C3LHT23		1	ST		
520	455148\$	Toothed pulley Z26M5-1		1	ST		
521	454101A	Toothed belt HTD 450 5M 20 CXP		1	ST		
530	455154\$	Spacer ring		1	ST		
540	455155\$	Pressure flange		1	ST		
541	050628A	Socket head screw M8x25		1	ST		
542	700520A	Lock washer "S" N-size 8 galvanized		1	ST		
543	143495A	Clamping element 20x25x6.3 (steel)		1	ST		
550	455156\$	Pressure flange		1	ST		
551	258940A	Socket head screw M4x12		4	ST		
560	455157\$	Energy flange		1	ST		
561	258980A	Socket head screw M4x16		8	ST		
562	355320A	Sealing ring 100.00x2.00 (NBR 70)		2	ST		
563	437046A	Socket head screw M4x70 (strength class 8.8)		6	ST		
570	455158\$	Ring		1	ST		
571	144420A	Socket head screw M4x10		3	ST		
572	063436A	Belleville spring washer K 51.5x35.5x0.6 (steel)		6	ST		
580	452451A	Laminated spacer ring		1	ST		
590	452476A	Cover		1	ST		
591	144420A	Socket head screw M4x10		6	ST		
600	452475A	Belt screen		1	ST		
601	144420A	Socket head screw M4x10		16	ST		
602	051144A	Plain washer A 4.3 (steel)		16	ST		





## SpeedViper 300 Dresser, electrical parts, headstock

Material no. 455015\$

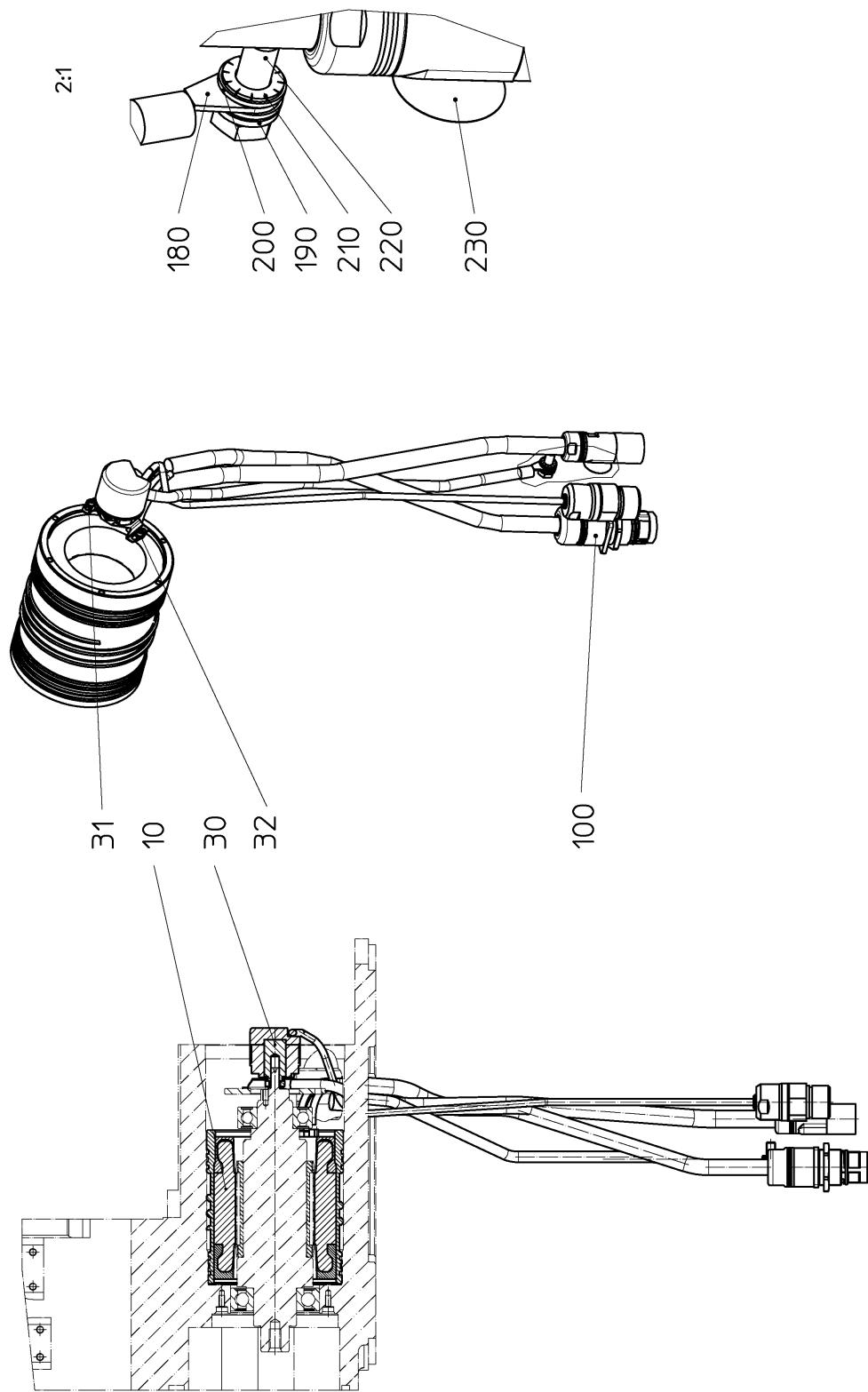
Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	456464A	Stator		1	ST		
15	456465A	Rotor		1	ST		
20	456241A	Power cable		1	ST		
30	448872A	Single Interface DRIVE-CLiQ		1	ST		
40	053888A	Socket head screw M5x10		2	ST		
50	448562A	Grating drum		1	ST		
60	250124A	Socket head screw M3x12		9	ST		
70	448871A	Scanning head		1	ST		
80	272782A	Socket head screw M3x16		2	ST		
90	456243A	Signal cable		1	ST		
100	448706A	DRIVE-CLiQ line		1	ST		
220	392649A	PE conductor		4000	MM		
230	095737A	Ring cable lug A 4665 R		1	ST		
240	258072A	Wire-end sleeve, 6.0/12 yellow		1	ST		
250	422474A	Hexagon head screw M6X16 8.8/(zinc-plated)		1	ST		
260	270658A	Spring-loaded ring A 6 (spring steel, zinc-plated)		1	ST		
270	270657A	Plain washer B6.4 (steel, zinc-plated)		2	ST		
280	272460A	Serrated washer A 6.4 (steel, zinc-plated)		1	ST		
290	097623A	Conductor symbol Earth sign		1	ST		
310	422474A	Hexagon head screw M6X16 8.8/(zinc-plated)		1	ST		
320	270658A	Spring-loaded ring A 6 (spring steel, zinc-plated)		1	ST		
330	270657A	Plain washer B6.4 (steel, zinc-plated)		2	ST		
340	272460A	Serrated washer A 6.4 (steel, zinc-plated)		1	ST		
350	097623A	Conductor symbol Earth sign		1	ST		
360	392649A	PE conductor		4000	MM		
370	095737A	Ring cable lug A 4665 R		1	ST		
380	258072A	Wire-end sleeve, 6.0/12 yellow		1	ST		
400	343316A	Cable rail KEL 24/10		1	ST		
410	077509A	Socket head screw M5x20		4	ST		
420	343347A	Cable grommets BTK		2	ST		
430	343317A	Cable feedthrough bushing KT 4		2	ST		
440	343324A	Cable grommets KT11		2	ST		



## SpeedViper 300 Dresser, electrical parts, headstock

Material no. 455015\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
450	343326A	Cable bushing KT13		1	ST		
460	343327A	Cable bushing		1	ST		
470	343323A	Cable bushing KT10		1	ST		
480	343322A	Cable bushing KT 9		1	ST		
900	456264\$	Set of signs		1	ST		



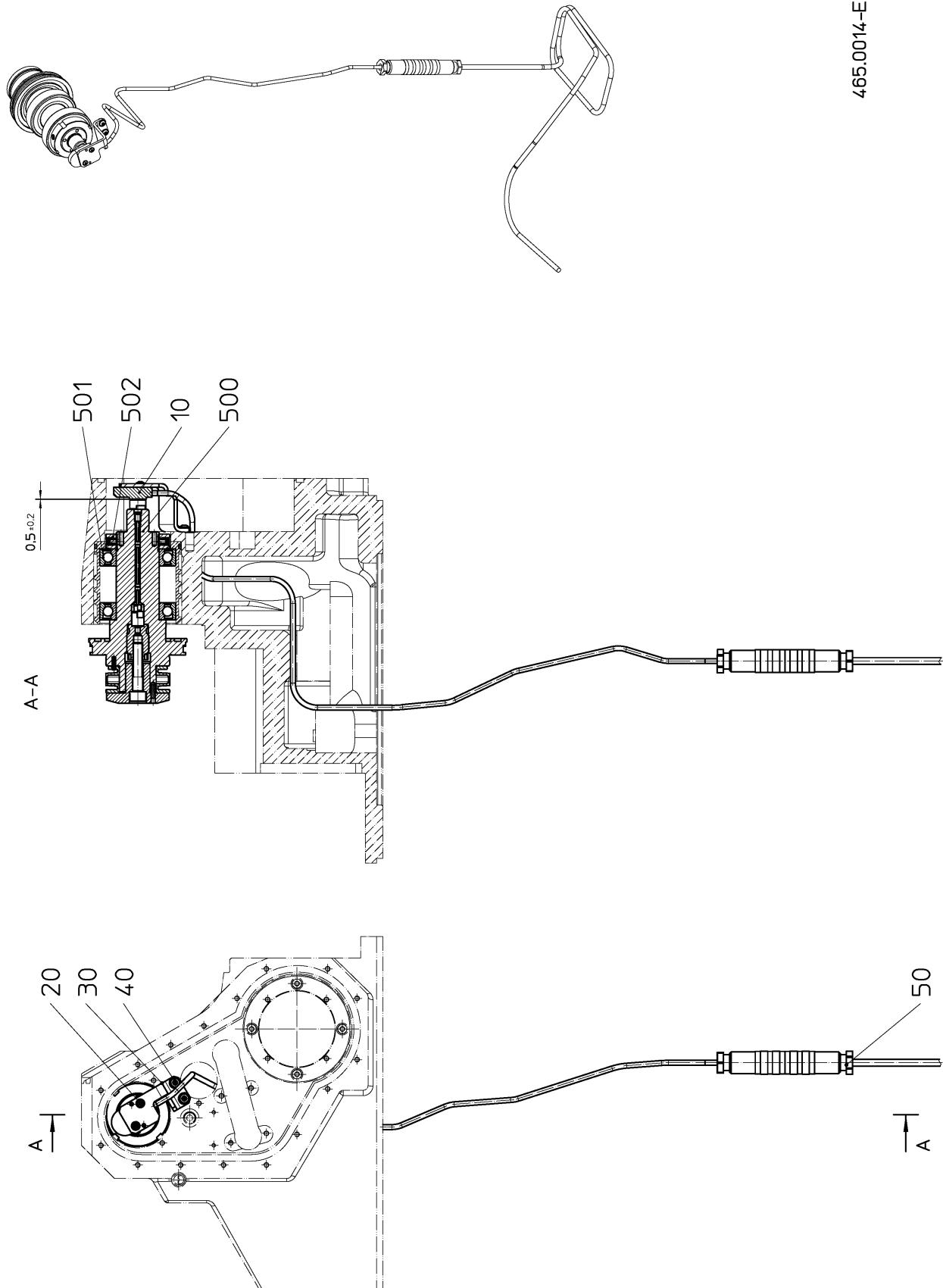


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## SpeedViper 300 Dressing spindle, complete, electrical

parts  
Material no. 455016\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	480510A	Stator		1	ST		
30	448662A	Rotary encoder		1	ST		
31	320624A	Socket head screw M2.5x4 (strength class 12.9/phos)		2	ST		
32	051142A	Plain washer A 2.8 (steel)		2	ST		
80	7835773A	Signal line 6FX8002-2SL00-1AB0		1	ST		
81	274650A	Shrink-fit hose		1000	MM		
82	313773A	Shrink-fit hose, green		1000	MM		
100	456453A	Cable coupling for motor, M25x1.5		1	ST		
101	448234A	Shrink-fit hose		1000	MM		
120	456241A	Power cable		1	ST		
130	392625A	Signal cable 6FX8002-2CB54-1AE0		1	ST		
140	7835777A	Signal cable		1	ST		
170	392649A	PE conductor		1000	MM		
180	095737A	Ring cable lug A 4665 R		2	ST		
190	270658A	Spring-loaded ring A 6 (spring steel, zinc-plated)		1	ST		
200	270657A	Plain washer B6.4 (steel, zinc-plated)		2	ST		
210	272460A	Serrated washer A 6.4 (steel, zinc-plated)		1	ST		
220	422474A	Hexagon head screw M6X16 8.8/(zinc-plated)		1	ST		
230	097623A	Conductor symbol Earth sign		1	ST		
900	456265\$	Set of signs		1	ST		

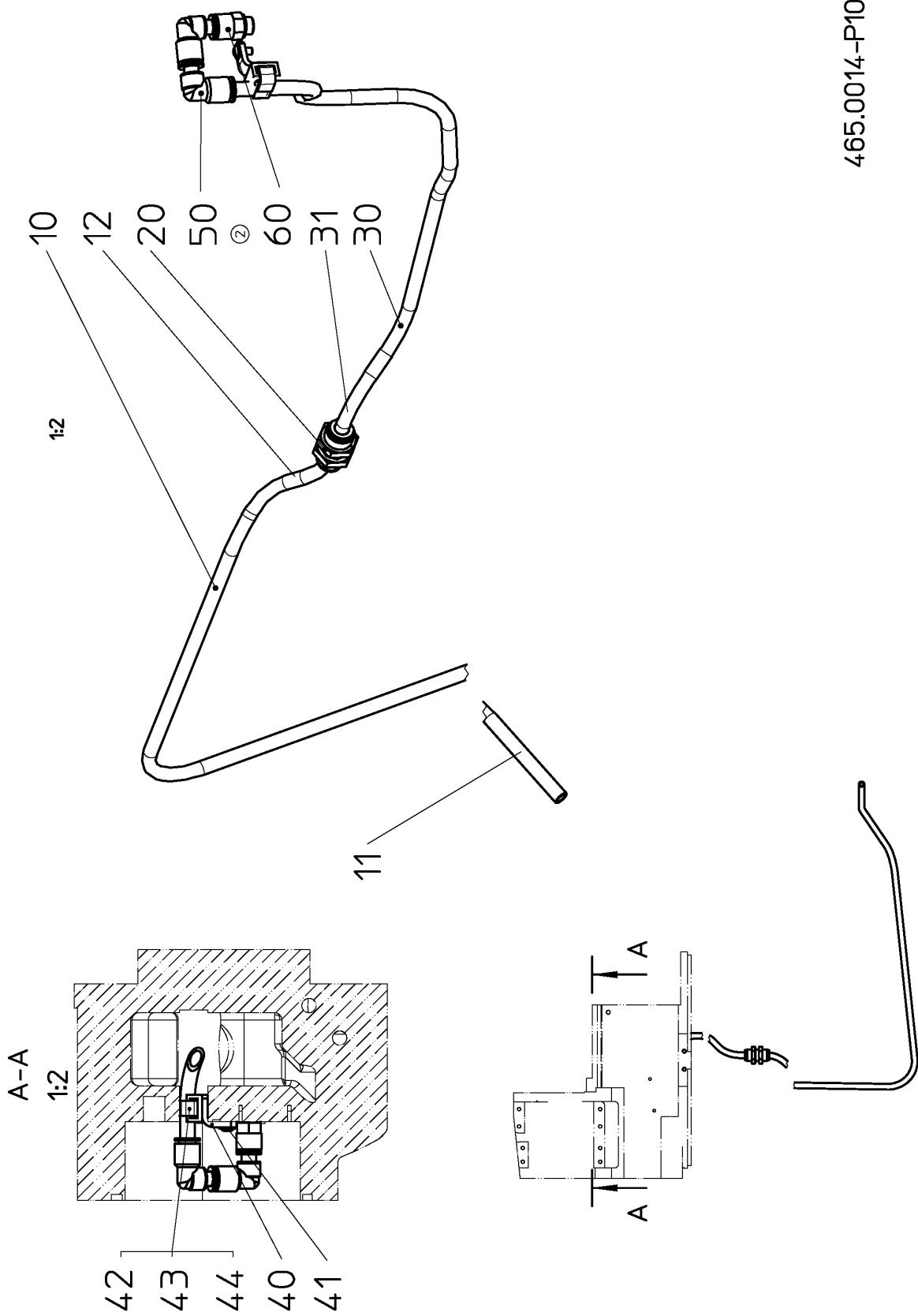




## SpeedViper 300 Dresser, AE sensor system balance

Material no. 455017\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	448822A	AE sensor, static		1	ST		
20	454840A	Oval flange head screw M3x8 (strength class 10.9) black		2	ST		
30	457660A	Angular AE sensor		1	ST		
40	280725A	Oval flange head screw M4x8 (strength class 10.9)		2	ST		
50	448828A	Connection cable		1	ST		
999	7900755\$	Sign set, dresser, AE sensor system		1	ST		

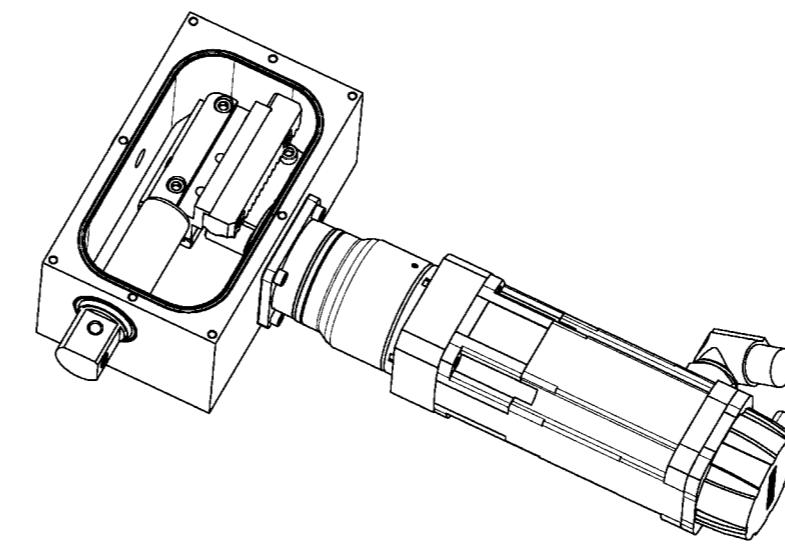
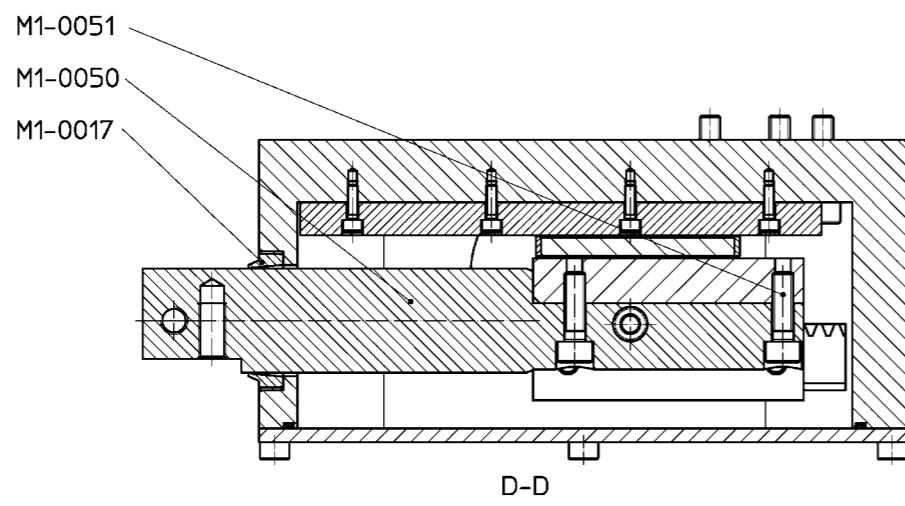
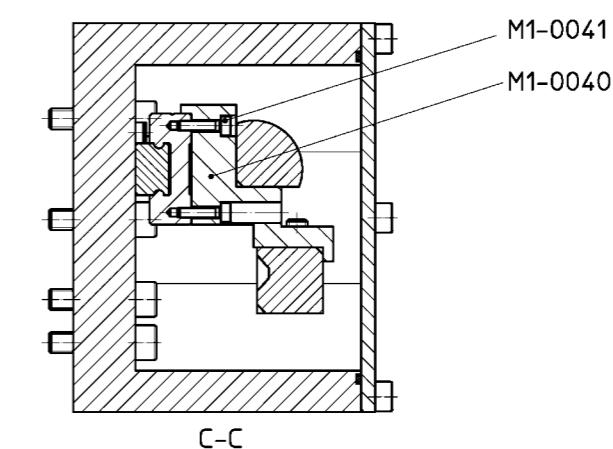
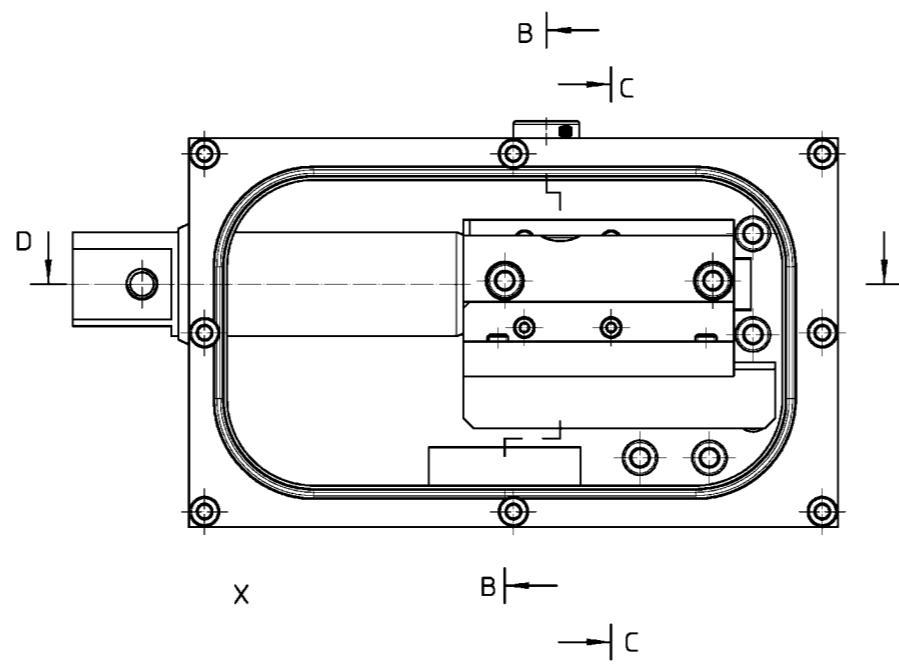
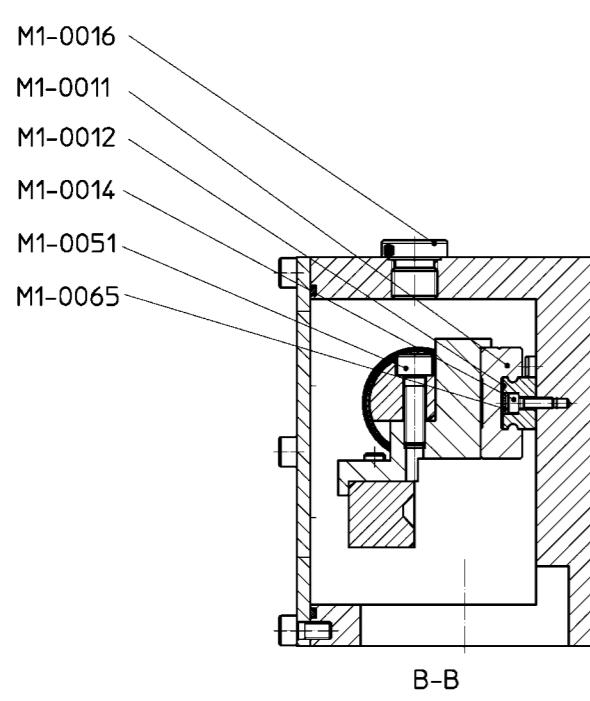
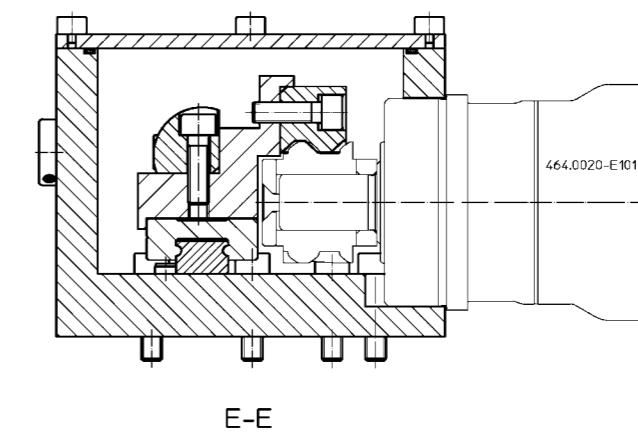
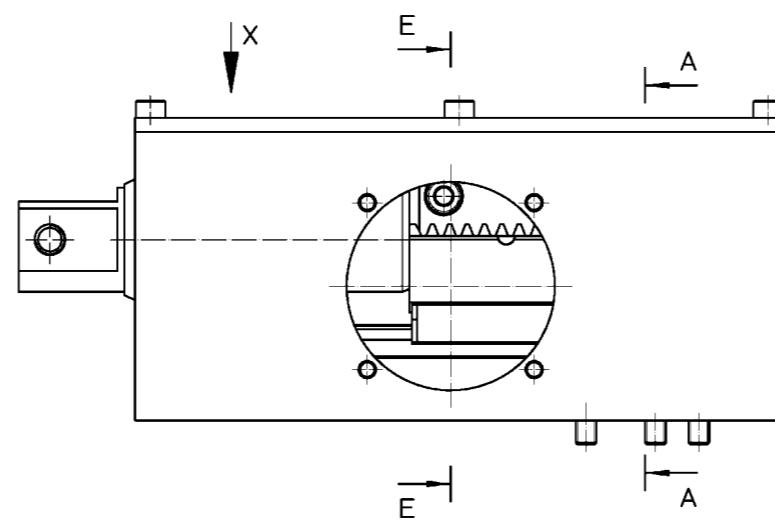
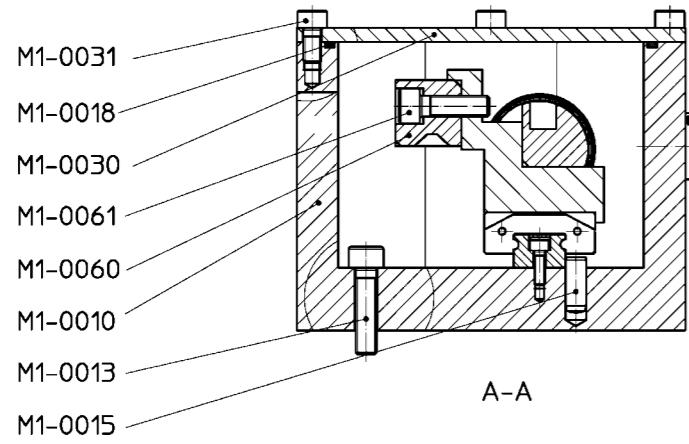




## SpeedViper 300 Dresser, pneumatics

Material no. 455018\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	290792A	Plastic hose		825	MM		
20	356690A	Push-in bulkhead fitting NPQH-H-Q8-E-P10		1	ST		
30	290792A	Plastic hose		500	MM		
40	457659A	Bracket, painted		1	ST		
41	280725A	Oval flange head screw M4x8 (strength class 10.9)		1	ST		
42	356330A	Hook and loop fastener base KBS 4-20		1	ST		
43	461537A	Hook and loop fastener strap 7.5mm		100	MM		
44	259503A	Countersunk head screw M4x8 (strength class 8.8)		1	ST		
50	454155A	L-push-in fitting NPQM-L-Q8-S8-P10		2	ST		
60	407818A	Push-in fitting NPQH-D-G18-Q8-P10		1	ST		
900	455347\$	Set of signs		1	ST		



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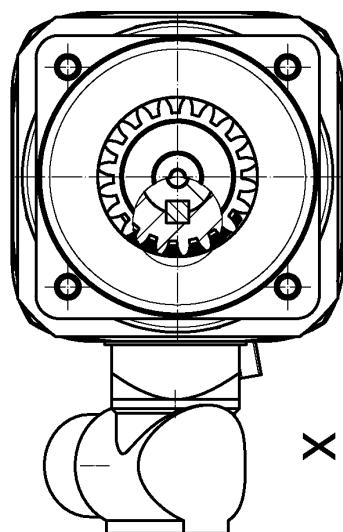
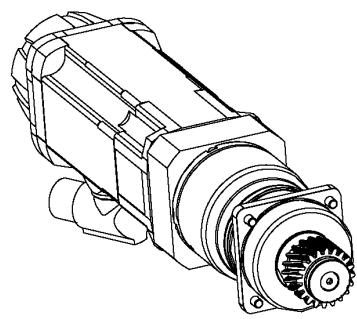
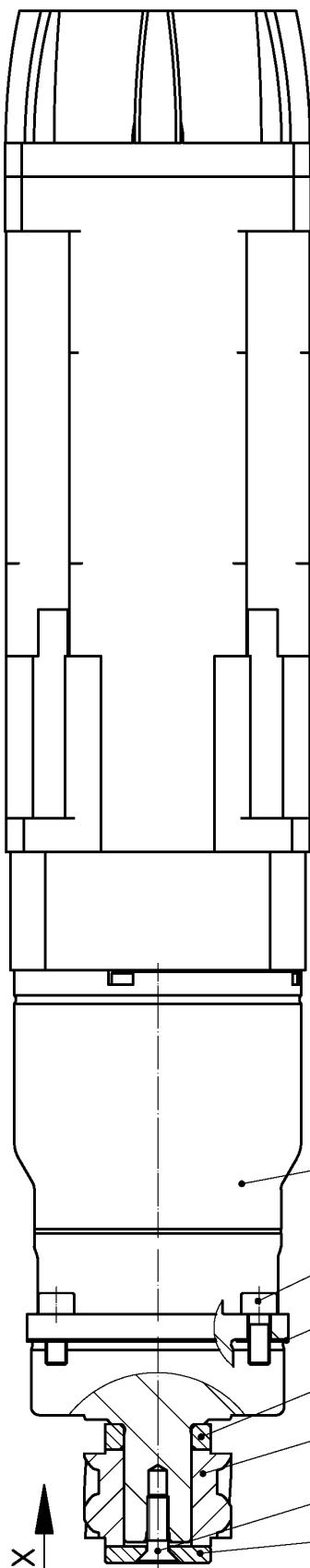


## SpeedViper 300 X1 axis headstock, coolant tracking

Material no. 455026\$

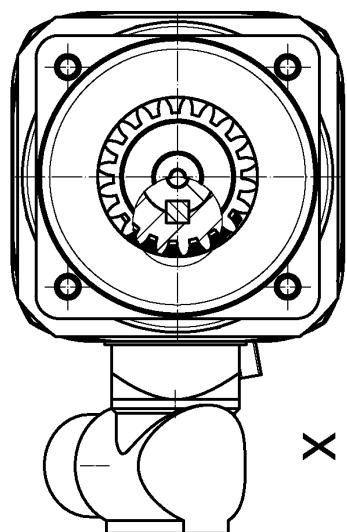
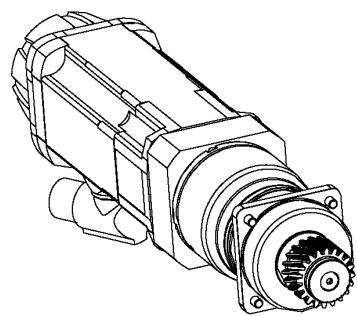
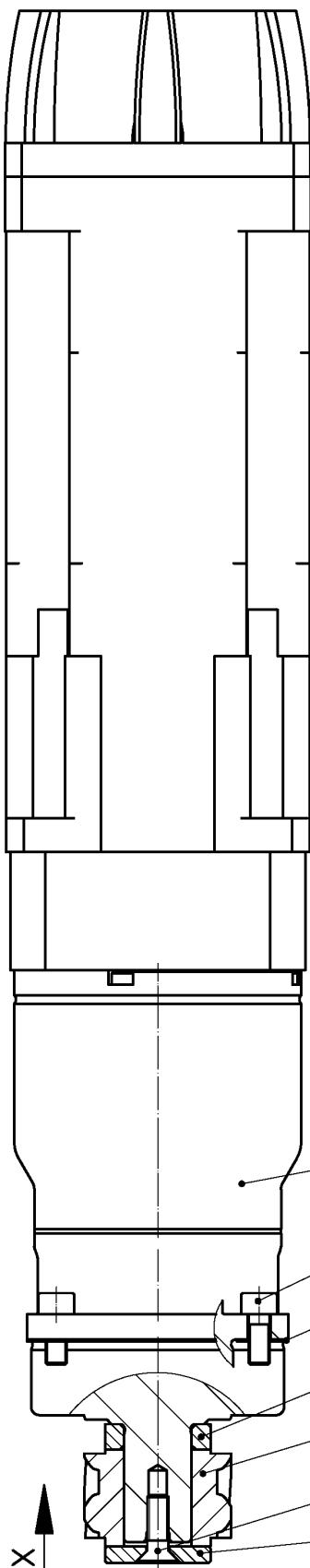
Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	455020\$	Housing, painted		1	ST		
11	454075A	Cart Minirail MNNL 15-G3-LS-AS		1	ST		
12	454076A	Minirail rail MN 15-150-G3-V1		1	ST		
13	050938A	Socket head screw M6x25		5	ST		
14	171774A	Socket head screw M3x10		4	ST		
15	278833A	Cylindrical pin 6 M6x16		2	ST		
16	147365A	Locking screw VSTI R1/4 IN-ED CF		1	ST		
17	133575A	Wiper AS 30- 40- 7 -10		1	ST		
18	7808496A	Sealing ring 140.00x2.00		1	ST		
30	452333A	Cover		1	ST		
31	053888A	Socket head screw M5x10		8	ST		
40	455022\$	Carrier		1	ST		
41	250124A	Socket head screw M3x12		4	ST		
50	455024\$	Guide shaft		1	ST		
51	050937A	Socket head screw M6x20		3	ST		
60	455025\$	Rack		1	ST		
61	050937A	Socket head screw M6x20		2	ST		
65	427096A	Plastic plug MNK 6		4	ST		

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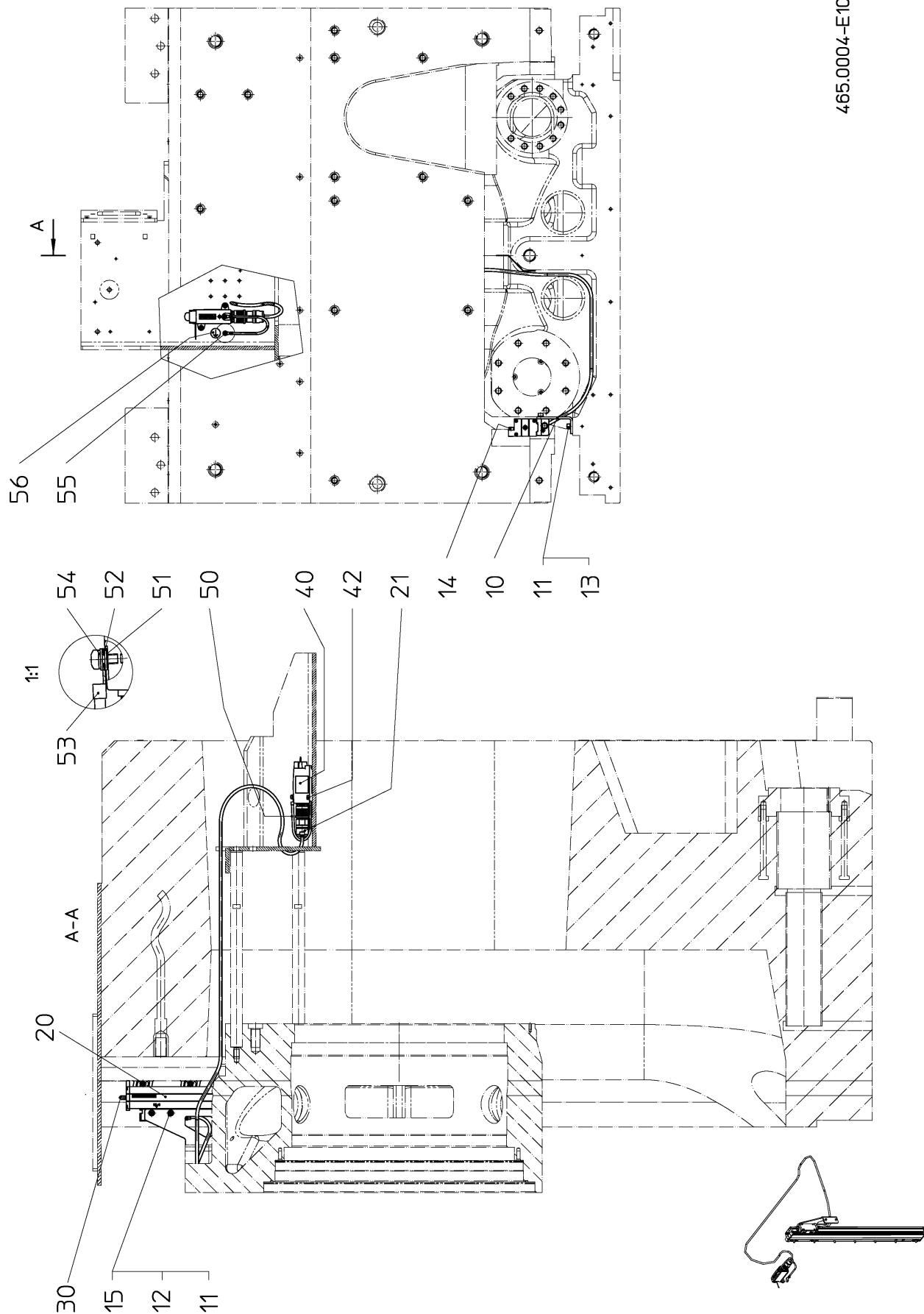
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E1-0021  
E1-0020



## SpeedViper 300 X1 axis, electrical parts, drive

Material no. 455029\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	455027\$	Spacer ring		1	ST		
20	455028\$	Clamping washer		1	ST		
21	261421A	Countersunk head screw M5x16 (strength class 8.8)		1	ST		
30	448820A	Servomotor		1	ST		
31	452339A	Toothed gear module 1.5		1	ST		
32	053887A	Socket head screw M5x12		4	ST		
33	452338A	Seal, motor		1	ST		

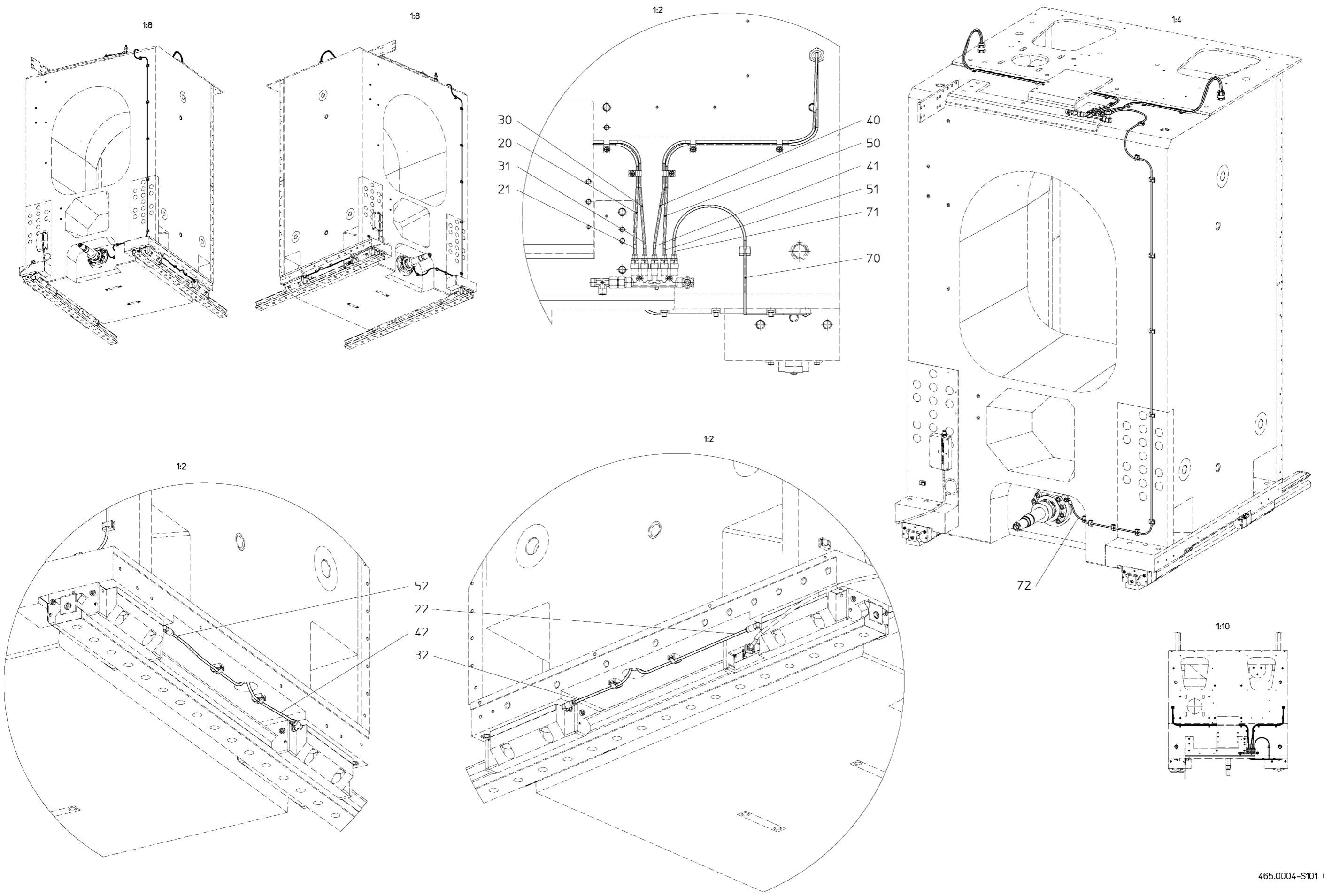




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SpeedViper 300 Z axis, electrical parts, measuring  
system  
Material no. 455031\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	491149A	Reader head holder		1	ST		
11	051146A	Plain washer B6,4 (steel)		4	ST		
12	270659A	Hexagon nut M6 A (strength class 8, galvanized)		2	ST		
13	050936A	Socket head screw M6x12		2	ST		
14	050937A	Socket head screw M6x20		7	ST		
15	077511A	Socket head screw M6x40		2	ST		
20	448792A	Length measuring system LC185 ml= 540 mm		1	ST		
21	390125A	Adapter cable		1	ST		
30	7814355A	Connecting piece with choke		1	ST		
40	391128A	Sensor module SME25 6SL3055-0AA00-5HA3		1	ST		
42	053887A	Socket head screw M5x12		2	ST		
50	163209A	PVC single-core cable, H07V-K 6 mm <sup>2</sup> , green-yellow		500	MM		
51	274325A	Serrated washer A 4.3 (steel, zinc-plated)		2	ST		
52	270026A	Plain washer A 4.3 (steel, zinc-plated)		4	ST		
53	095740A	Ring cable lug A 4643 R		2	ST		
54	270027A	Spring-loaded ring A 4 (spring steel, zinc-plated)		2	ST		
55	262190A	Oval flange head screw M4x8 (strength class 10.9, zinc-plated)		1	ST		
56	097623A	Conductor symbol Earth sign		1	ST		
1000	7901185\$	Set of signs		1	ST		
9980	314755A	Identification code holder km 9/20		2	ST		
9990	314754A	ACS component location designation KSO 20x9L		2	ST		
9999	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		2	ST		



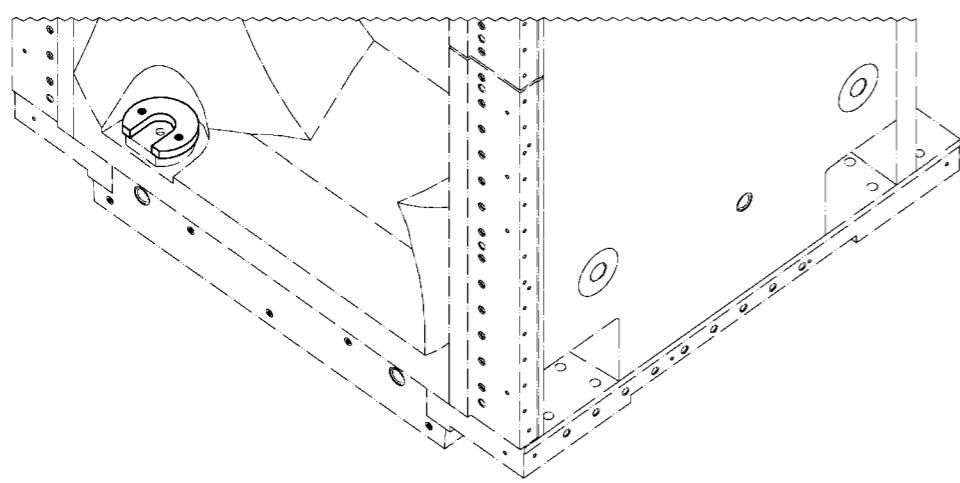
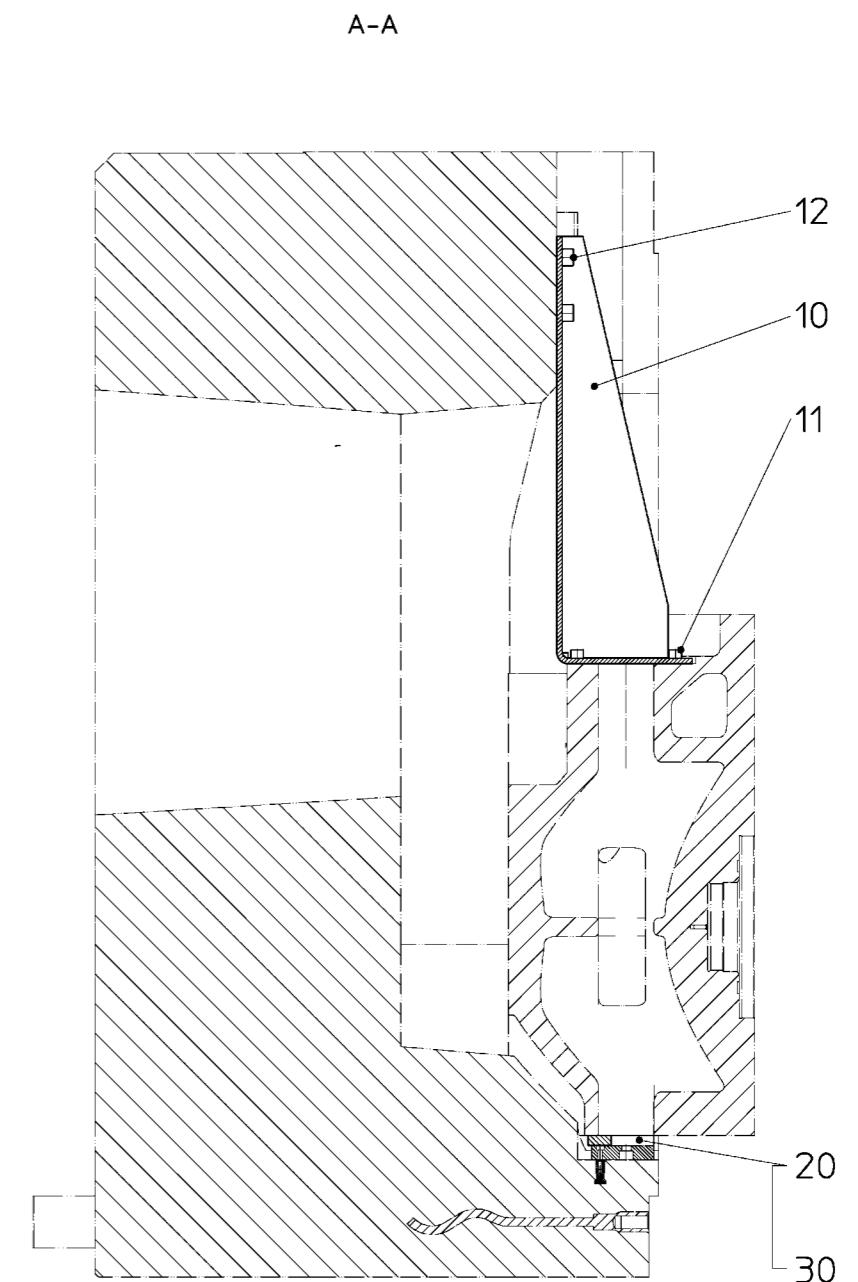
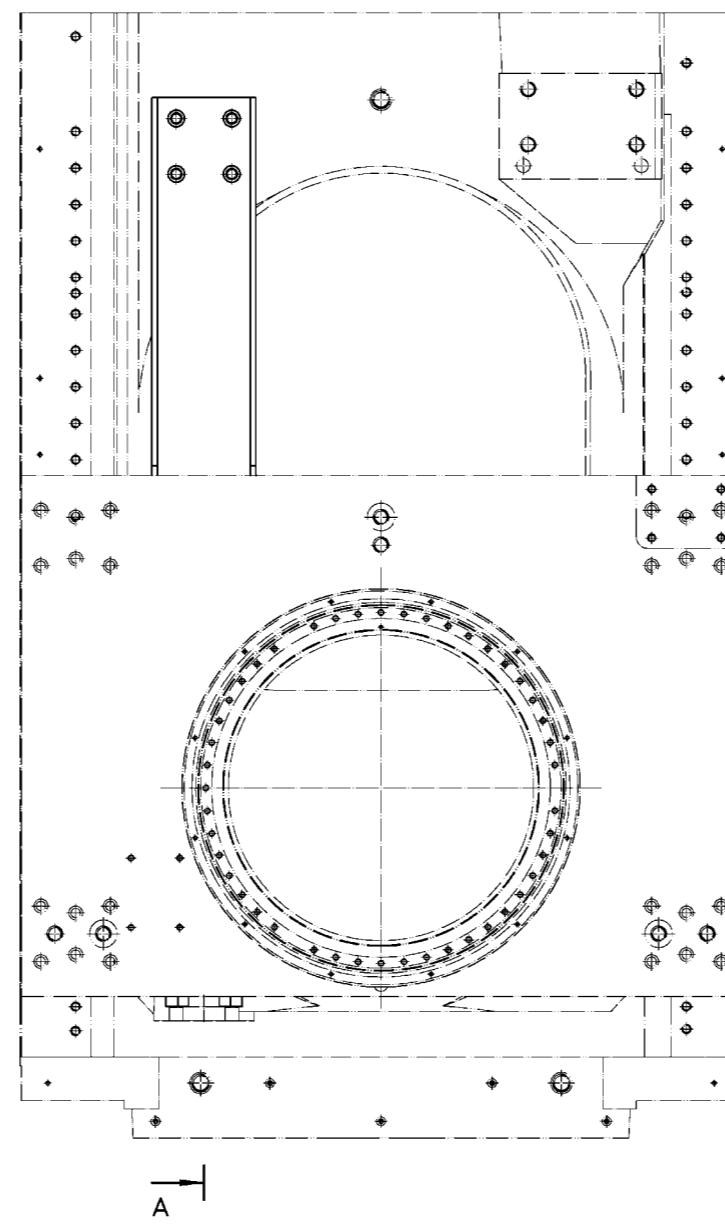
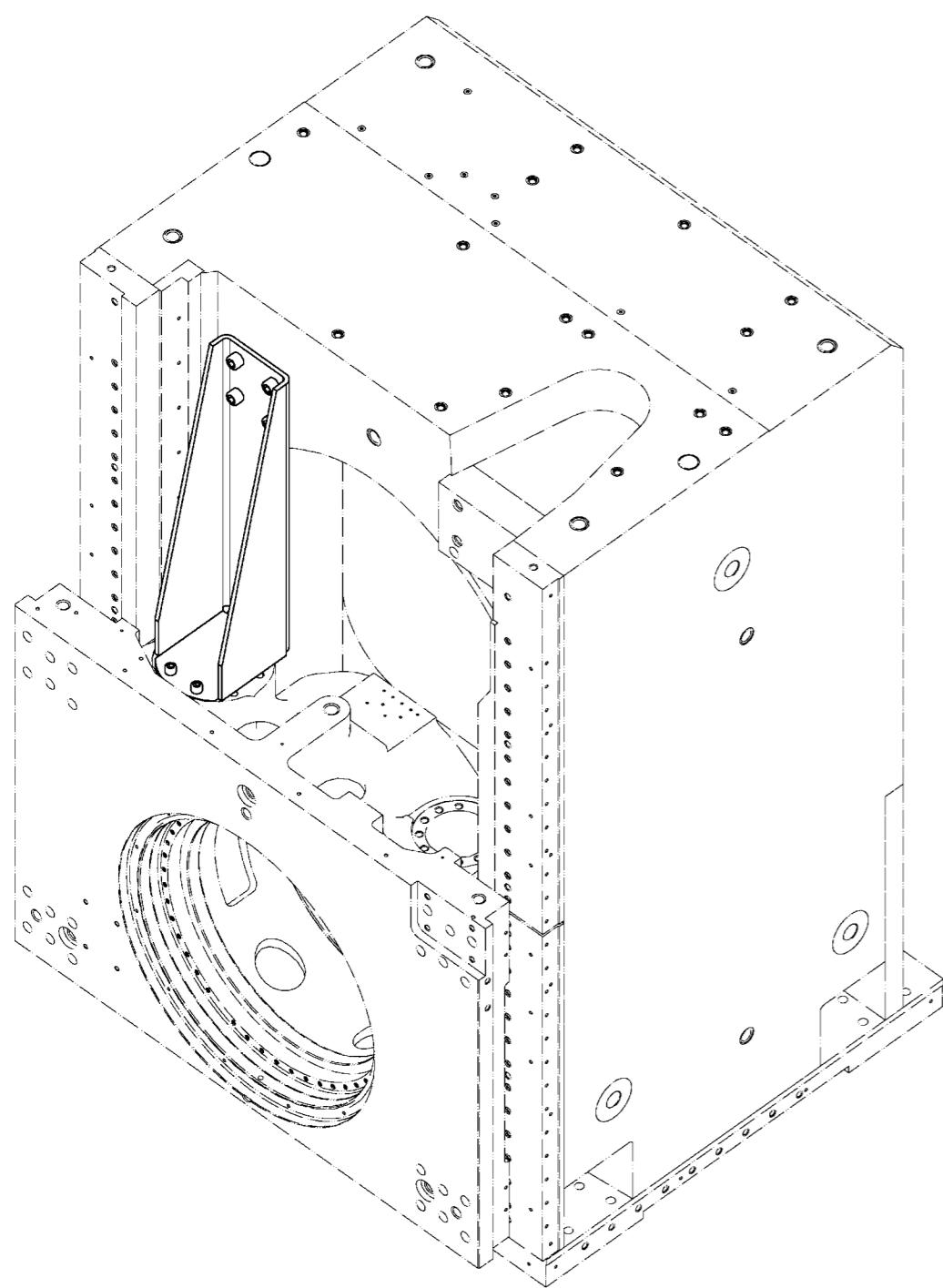
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## SpeedViper 300 X axis, pulse lubrication

Material no. 455032\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
20	058650A	Pipe 4x0.85 (P PA 11 weiss)		2950	MM		
30	058650A	Pipe 4x0.85 (P PA 11 weiss)		2790	MM		
40	058650A	Pipe 4x0.85 (P PA 11 weiss)		2400	MM		
50	058650A	Pipe 4x0.85 (P PA 11 weiss)		2560	MM		
70	058650A	Pipe 4x0.85 (P PA 11 weiss)		2360	MM		
1000	455413\$	Set of signs		1	ST		



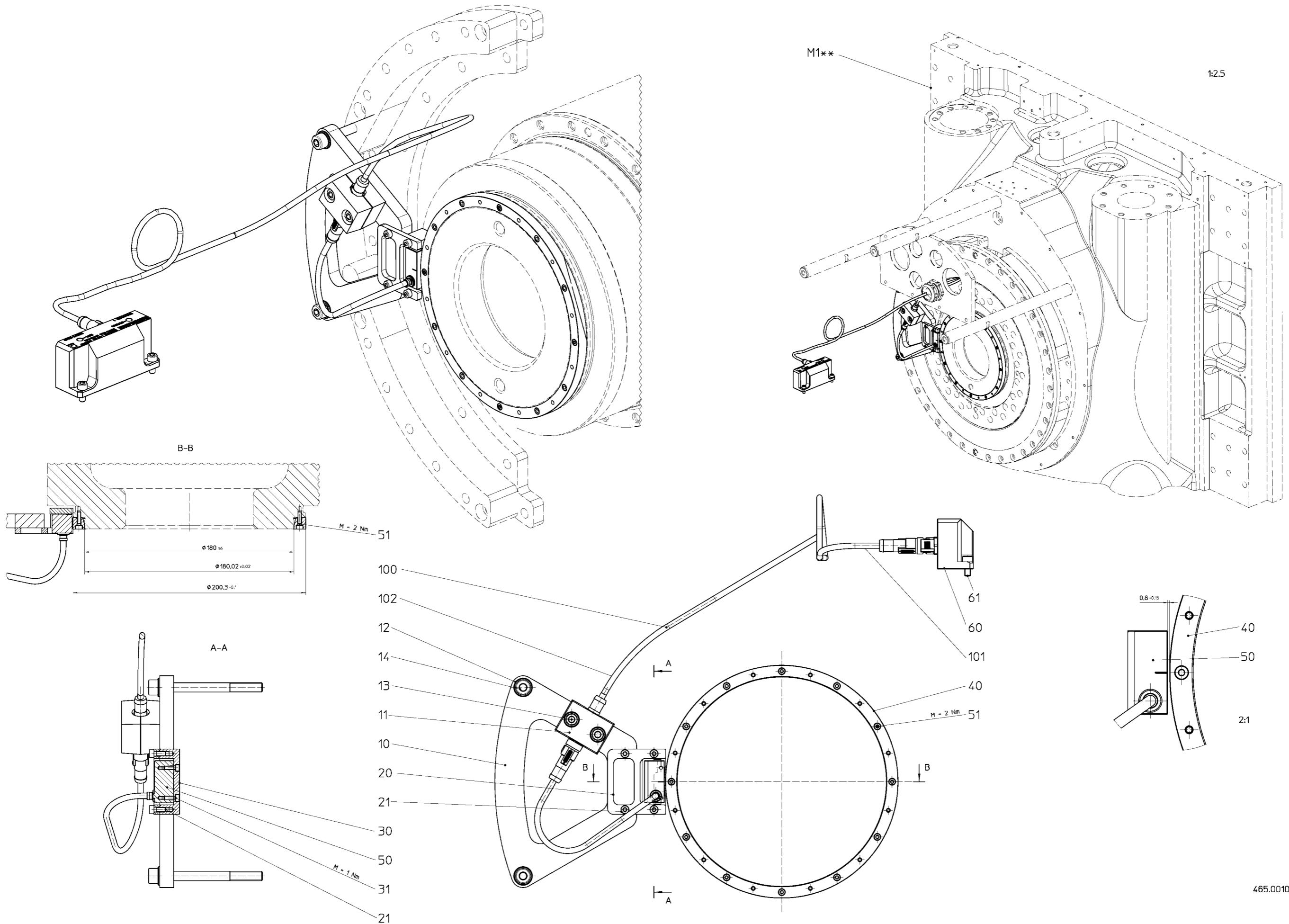
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## SpeedViper 300 Transport lock

Material no. 455036\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	452260A	Transport lock bracket		1	ST		
11	095566A	Socket head screw M12x25		4	ST		
12	344171A	Socket head screw M16x30		4	ST		
20	457699A	Plain washer		1	ST		
30	050665A	Socket head screw M6x16		2	ST		

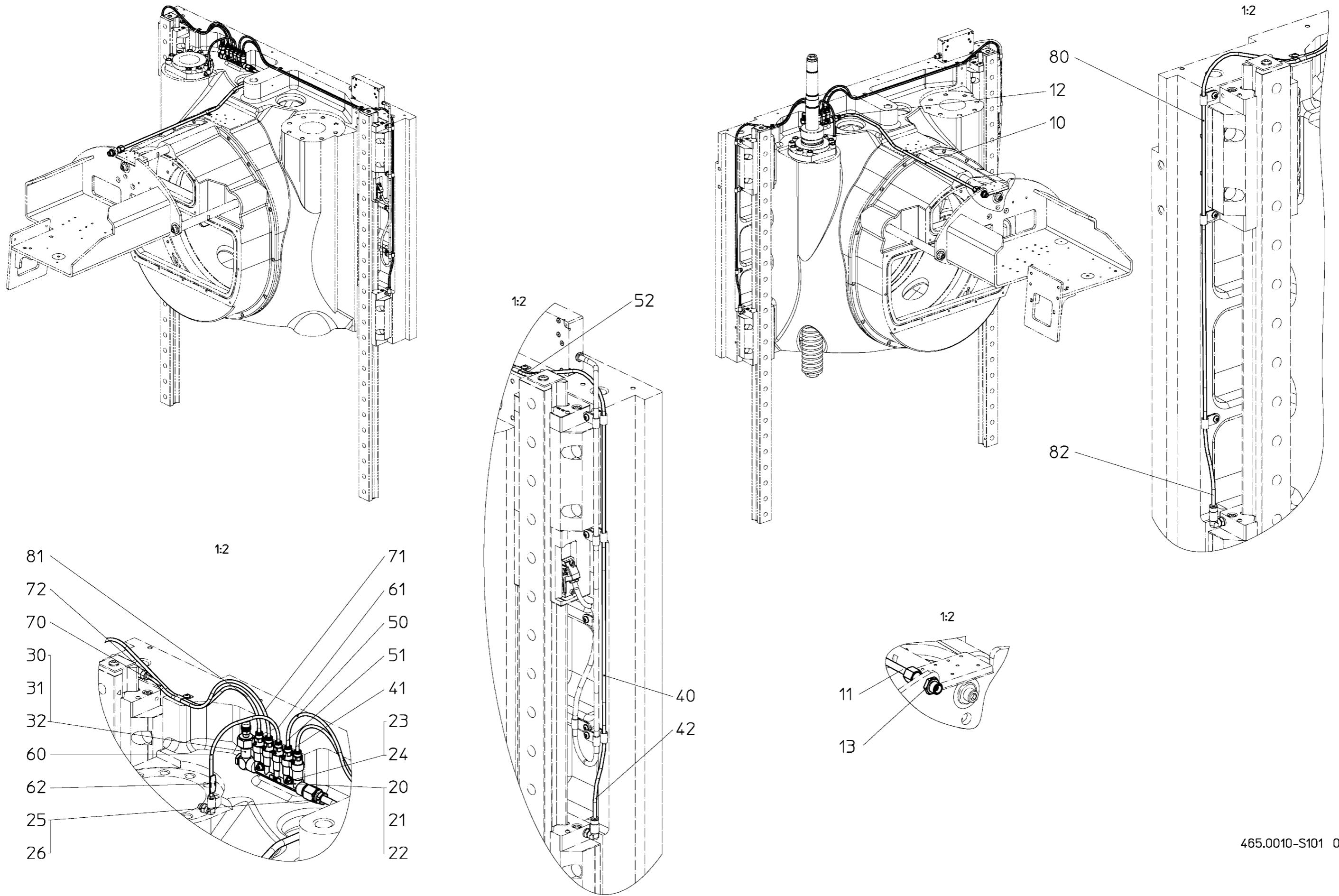




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SpeedViper 300 A axis, electrical parts, measuring  
system  
Material no. 455037\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	451742\$	Reader head holder		1	ST		
11	439043A	Clamping jaw pair LKP-2-R-15-PP		1	PAA		
12	051147A	Plain washer B8.4 (steel)		2	ST		
13	259206A	Socket head screw M6x35		2	ST		
14	147498A	Socket head screw M8X90		2	ST		
20	451743\$	Reader head holder		1	ST		
21	144420A	Socket head screw M4x10		4	ST		
30	455048\$	Reader head carrier		1	ST		
31	171774A	Socket head screw M3x10		2	ST		
40	456314A	Grating drum		1	ST		
50	448869A	Scanning head		1	ST		
51	250124A	Socket head screw M3x12		12	ST		
60	448872A	Single Interface DRIVE-CLiQ		1	ST		
61	053887A	Socket head screw M5x12		2	ST		
100	456342A	Connecting cable		1	ST		
900	456249\$	Set of signs		1	ST		



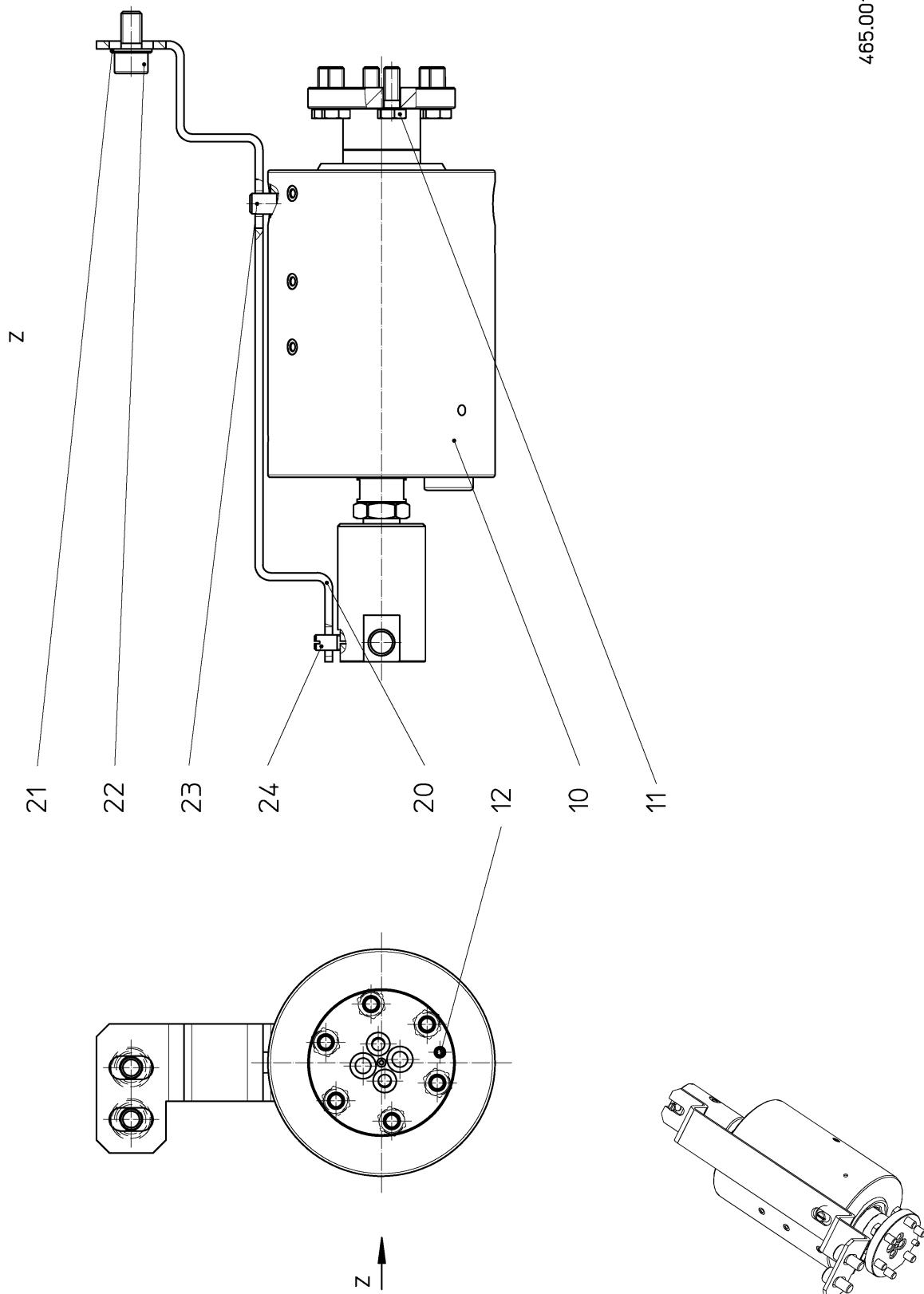


## SpeedViper 300 A axis, pulse lubrication

Material no. 455038\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	457710A-1	Pipe, 8x1 EO2 screw connection		1	ST		
13	375046A	Straight bulkhead gland SV08LOMDCF		1	ST		
20	457712A	Divider valve		1	ST		
21	434733A	Identification sign S3-1Z1		1	ST		
22	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
23	077504A	Socket head screw M4x20		2	ST		
24	051144A	Plain washer A 4.3 (steel)		2	ST		
25	058546A	Union screw AL 8 M14x1.5 (steel)		1	ST		
26	058551A	Double-cone ring 8 (brass)		1	ST		
30	419877A	Ventilation screw		1	ST		
31	434734A	Identification sign S3-1Z2		1	ST		
32	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
40	058650A	Pipe 4x0.85 (P PA 11 weiss)		1320	MM		
50	058650A	Pipe 4x0.85 (P PA 11 weiss)		680	MM		
60	058650A	Pipe 4x0.85 (P PA 11 weiss)		220	MM		
70	058650A	Pipe 4x0.85 (P PA 11 weiss)		300	MM		
80	058650A	Pipe 4x0.85 (P PA 11 weiss)		950	MM		
1015	455406\$	Set of signs		1	ST		

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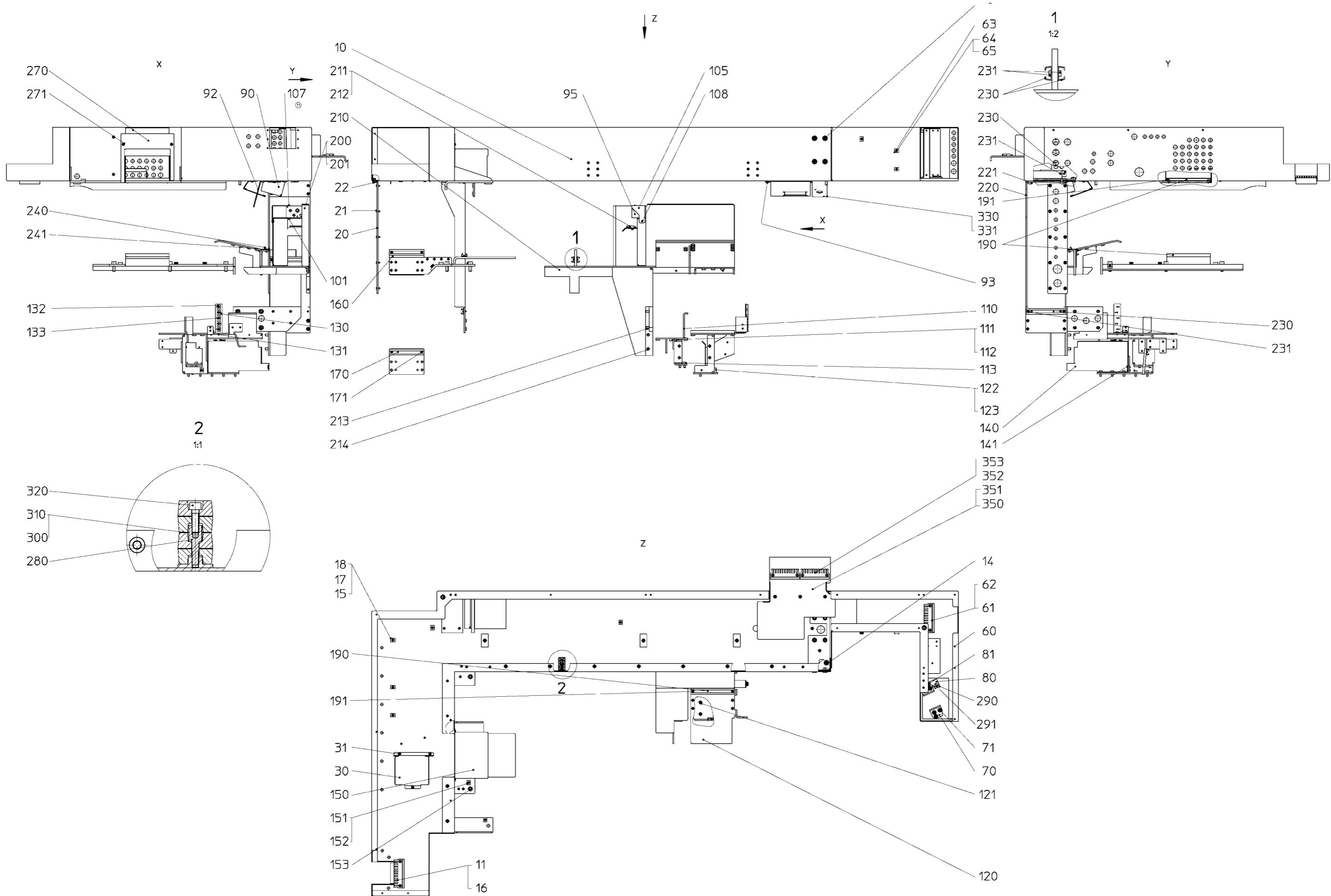


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**SpeedViper 300 Rotating union**

Material no. 455097\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	454114A	Rotary union 2+1+1		1	ST		
11	050703A	Hexagon screw M6x16 (strength class 8.8)		6	ST		
12	454054A	Dowel pin 4x12 (spring steel C67S)		1	ST		
20	455492\$	Torque support		1	ST		
21	144078A	Plain washer B8.4 (steel, zinc-plated)		2	ST		
22	050941A	Socket head screw M8x16		2	ST		
23	051027A	Shaft screw M8x20 * 14h galvanized		1	ST		
24	051023A	Shaft screw M6x16 * 14h galvanized		1	ST		



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## SpeedViper 300 Cable duct, power supply

Material no. 455247\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	460174A	Cable duct left		1	ST		
11	444005A	Chain comb, 12 teeth		1	ST		
13	454847A	Oval flange head screw M10x16 (strength class 10.9) black		10	ST		
14	454848A	Oval flange head screw M10x25 (strength class 10.9) black		1	ST		
15	291507A	Countersunk screw M4x6 (strength class 8.8)		6	ST		
16	050946A	Countersunk head screw M6x16 (strength class 8.8)		2	ST		
17	356330A	Hook and loop fastener base KBS 4-20		6	ST		
18	461537A	Hook and loop fastener strap 7.5mm		600	MM		
20	457559A	Barrier		1	ST		
21	303336A	Oval flange head screw M6x12 (strength class 10.9)		10	ST		
22	288524A	Oval flange head screw M6x16 (strength class 10.9)		2	ST		
30	457560A	Protective plate		1	ST		
31	289080A	Oval flange head screw M5x8		3	ST		
60	460175A	Cable duct, right		1	ST		
61	444005A	Chain comb, 12 teeth		1	ST		
62	050946A	Countersunk head screw M6x16 (strength class 8.8)		2	ST		
63	356330A	Hook and loop fastener base KBS 4-20		3	ST		
64	291507A	Countersunk screw M4x6 (strength class 8.8)		3	ST		
65	461537A	Hook and loop fastener strap 7.5mm		300	MM		
70	457564A	Bracket, front for energy chain		1	ST		
71	454844A	Oval flange head screw M8x12 (strength class 10.9) black		3	ST		
80	457565A	Bracket, rear for energy chain		1	ST		
81	454844A	Oval flange head screw M8x12 (strength class 10.9) black		3	ST		
90	457566A	Holder for control cabinet lighting		1	ST		
92	472486A	Diffuser plate		1	ST		
93	303336A	Oval flange head screw M6x12 (strength class 10.9)		2	ST		
95	486532\$	Vent block		1	ST		
101	303336A	Oval flange head screw M6x12 (strength class 10.9)		2	ST		
105	485648A	Holder, lubrication water cooling		1	ST		



## SpeedViper 300 Cable duct, power supply

Material no. 455247\$

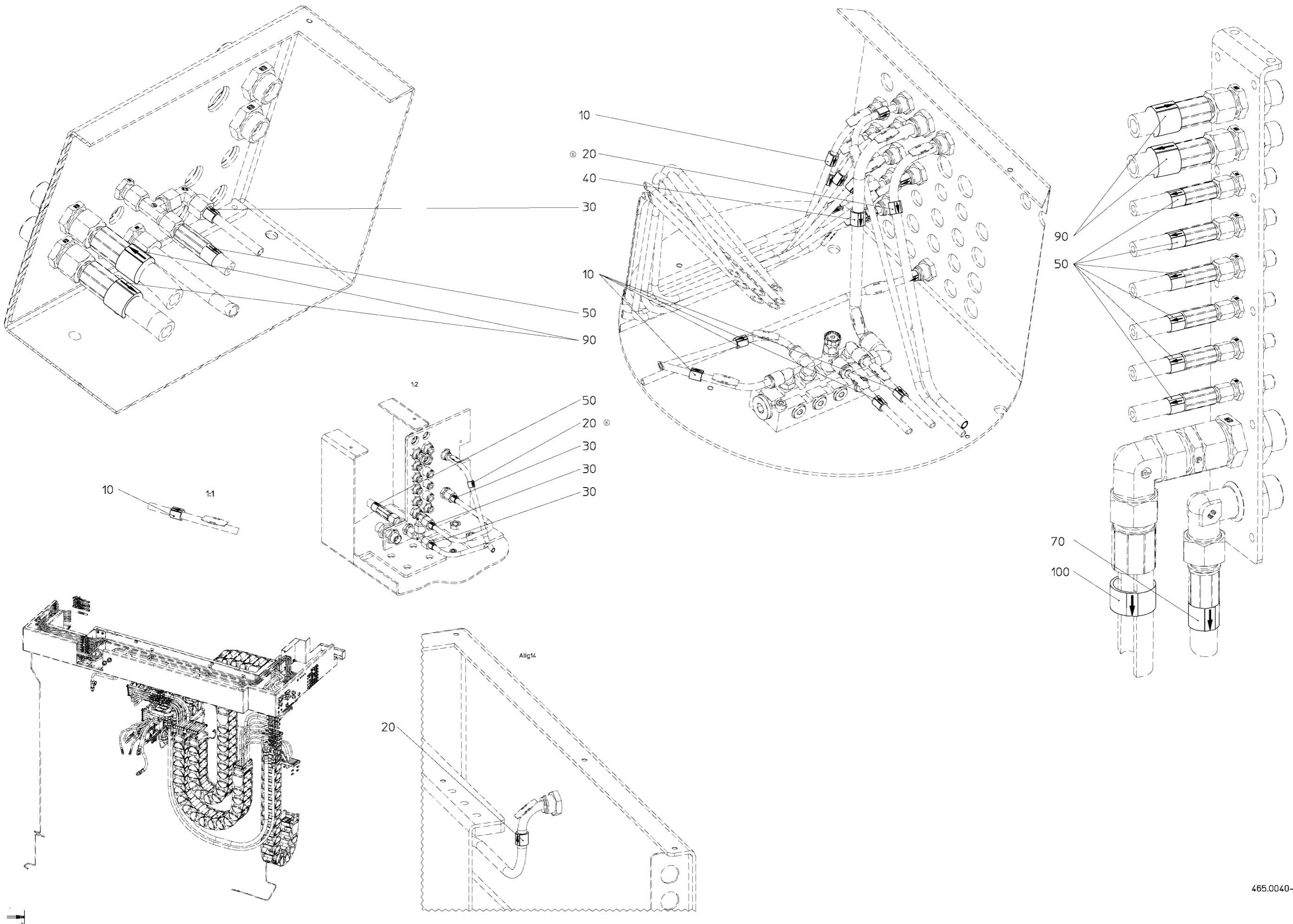
Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
107	454839A	Oval flange head screw M3x6 (strength class 10.9) black		1	ST		
108	454840A	Oval flange head screw M3x8 (strength class 10.9) black		1	ST		
110	457567A	A axis holder for chain		1	ST		
111	356330A	Hook and loop fastener base KBS 4-20		1	ST		
112	291507A	Countersunk screw M4x6 (strength class 8.8)		1	ST		
113	050941A	Socket head screw M8x16		4	ST		
120	472178A	Y axis holder for chain		1	ST		
121	050941A	Socket head screw M8x16		5	ST		
122	356330A	Hook and loop fastener base KBS 4-20		1	ST		
123	291507A	Countersunk screw M4x6 (strength class 8.8)		1	ST		
130	489681A	Holder		1	ST		
131	050879A	Socket head screw M6x10 (strength class 10.9)		2	ST		
140	457570A	Protective plate		1	ST		
141	289373A	Oval flange head screw M6X10 (strength class 10.9)		2	ST		
150	457571A	X axis energy chain holder		1	ST		
151	356330A	Hook and loop fastener base KBS 4-20		4	ST		
152	259503A	Countersunk head screw M4x8 (strength class 8.8)		4	ST		
153	077533A	Socket head screw M12x30		5	ST		
160	457572A	Z axis plate		2	ST		
170	457573A	C-rail CF92.42.149		2	ST		
171	050879A	Socket head screw M6x10 (strength class 10.9)		4	ST		
190	457575A	C-rail CF92.42.187		3	ST		
191	050879A	Socket head screw M6x10 (strength class 10.9)		6	ST		
200	457576A	Protective plate		1	ST		
201	050944A	Countersunk head screw M6x10 (strength class 8.8)		4	ST		
210	457577A	X-Y-Z axis energy chain holder		1	ST		
211	362829A	Tiewrap plate 2070.ZB		1	ST		
212	050946A	Countersunk head screw M6x16 (strength class 8.8)		2	ST		
213	077523A	Socket head screw M10x20 (strength class 12.9)		4	ST		
214	068533A	Socket head screw M10x25		2	ST		
220	457578A	X-Z axis energy chain holder		1	ST		



## SpeedViper 300 Cable duct, power supply

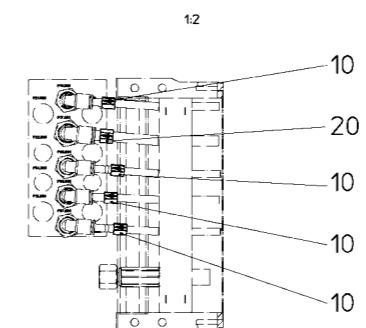
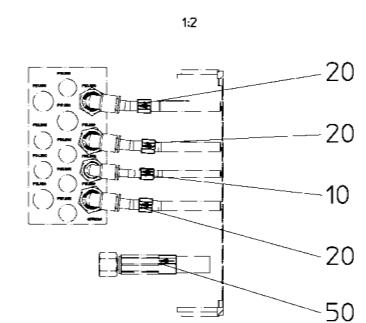
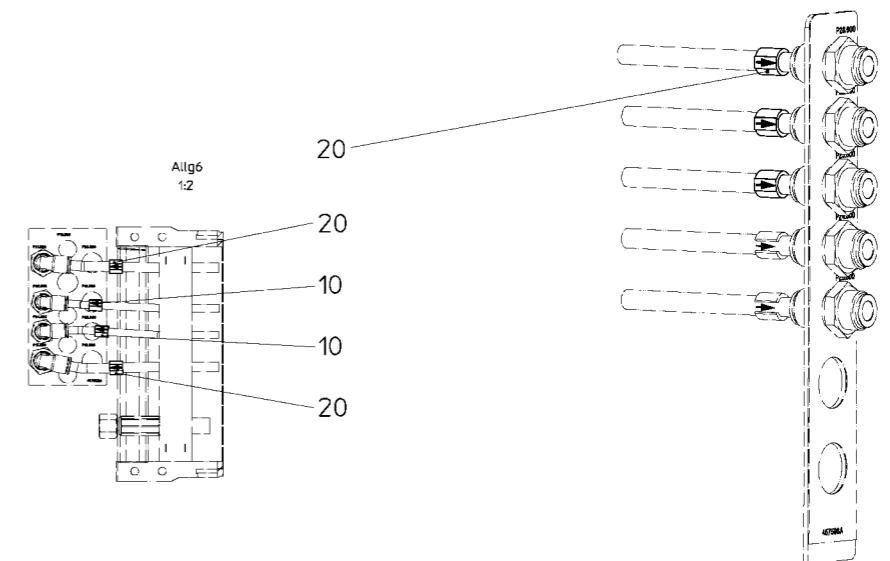
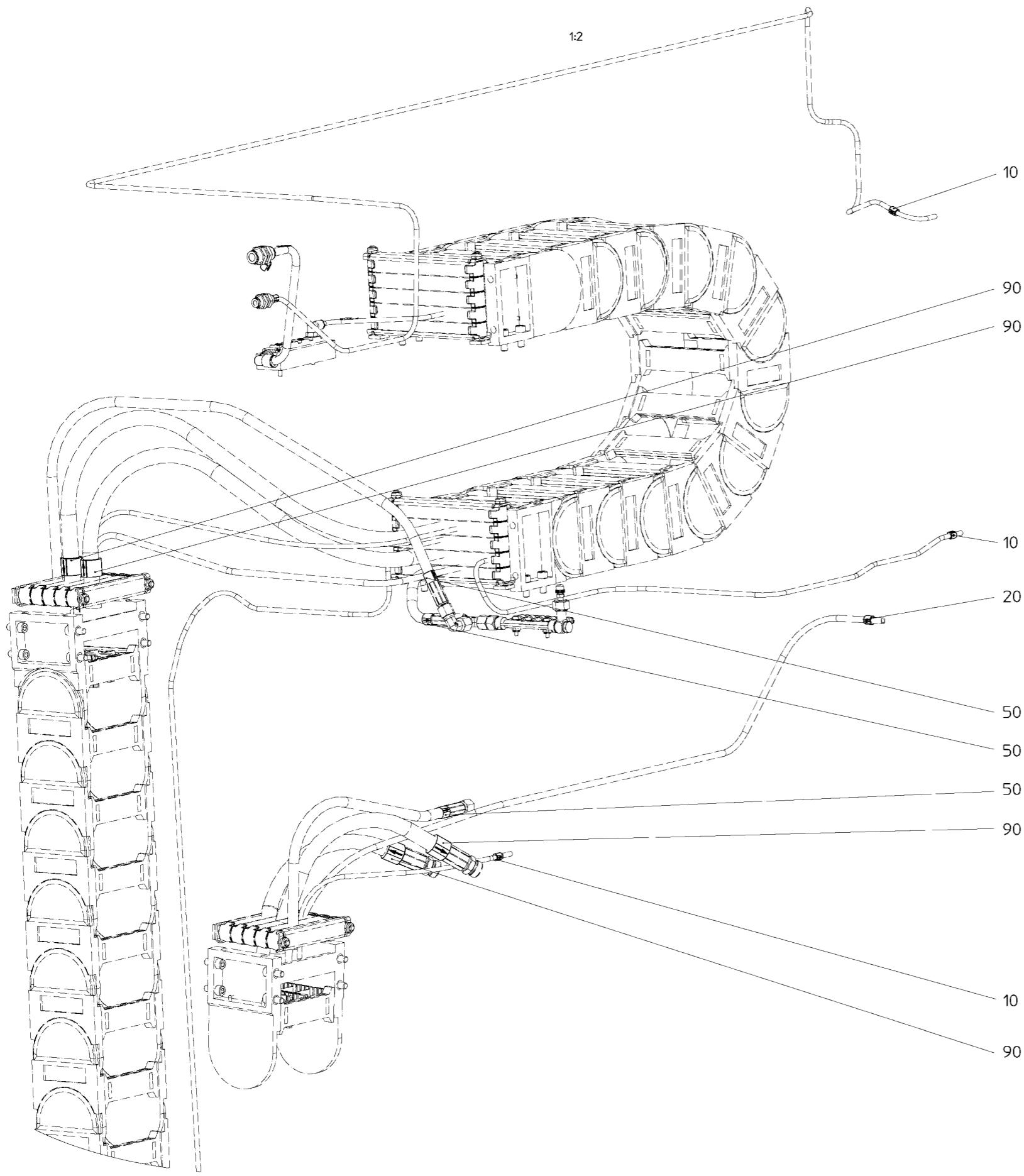
Material no. 455247\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
221	050941A	Socket head screw M8x16		4	ST		
230	457579A	C-rail CF92.42.174		4	ST		
231	050879A	Socket head screw M6x10 (strength class 10.9)		8	ST		
240	457580A	C-rail CF92.42.337		1	ST		
241	050879A	Socket head screw M6x10 (strength class 10.9)		2	ST		
270	457613A	X axis, hood chain		1	ST		
271	289080A	Oval flange head screw M5x8		2	ST		
280	431754A	Assembly screw LAS-1-W1		1	ST		
290	457626A	C-rail CF92.42.208		1	ST		
291	050879A	Socket head screw M6x10 (strength class 10.9)		2	ST		
300	433514A	Pair of terminal halves ZKP-1-R- 8- 8-PP		2	ST		
310	433635A	Anti-rotation lock ZVS-1-W1		1	ST		
320	050937A	Socket head screw M6x20		1	ST		
330	457991A	Holder for UV sensor		1	ST		
331	288524A	Oval flange head screw M6x16 (strength class 10.9)		1	ST		
350	460173A	Guide plate		1	ST		
351	303336A	Oval flange head screw M6x12 (strength class 10.9)		3	ST		
352	444005A	Chain comb, 12 teeth		2	ST		
353	050945A	Countersunk head screw M6x12 (strength class 8.8)		4	ST		
360	356330A	Hook and loop fastener base KBS 4-20		6	ST		
361	291507A	Countersunk screw M4x6 (strength class 8.8)		6	ST		
362	461537A	Hook and loop fastener strap 7.5mm		600	MM		



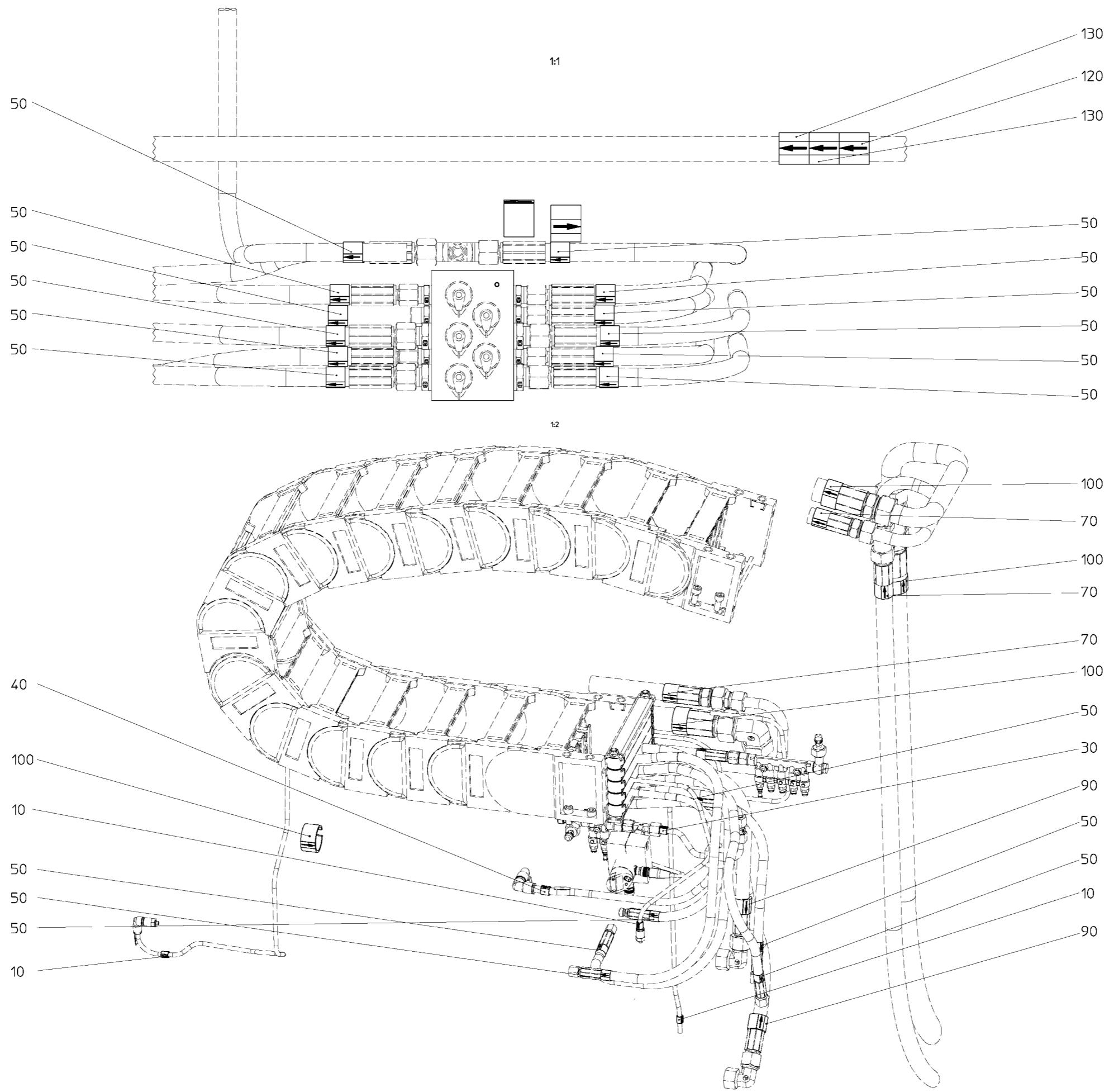
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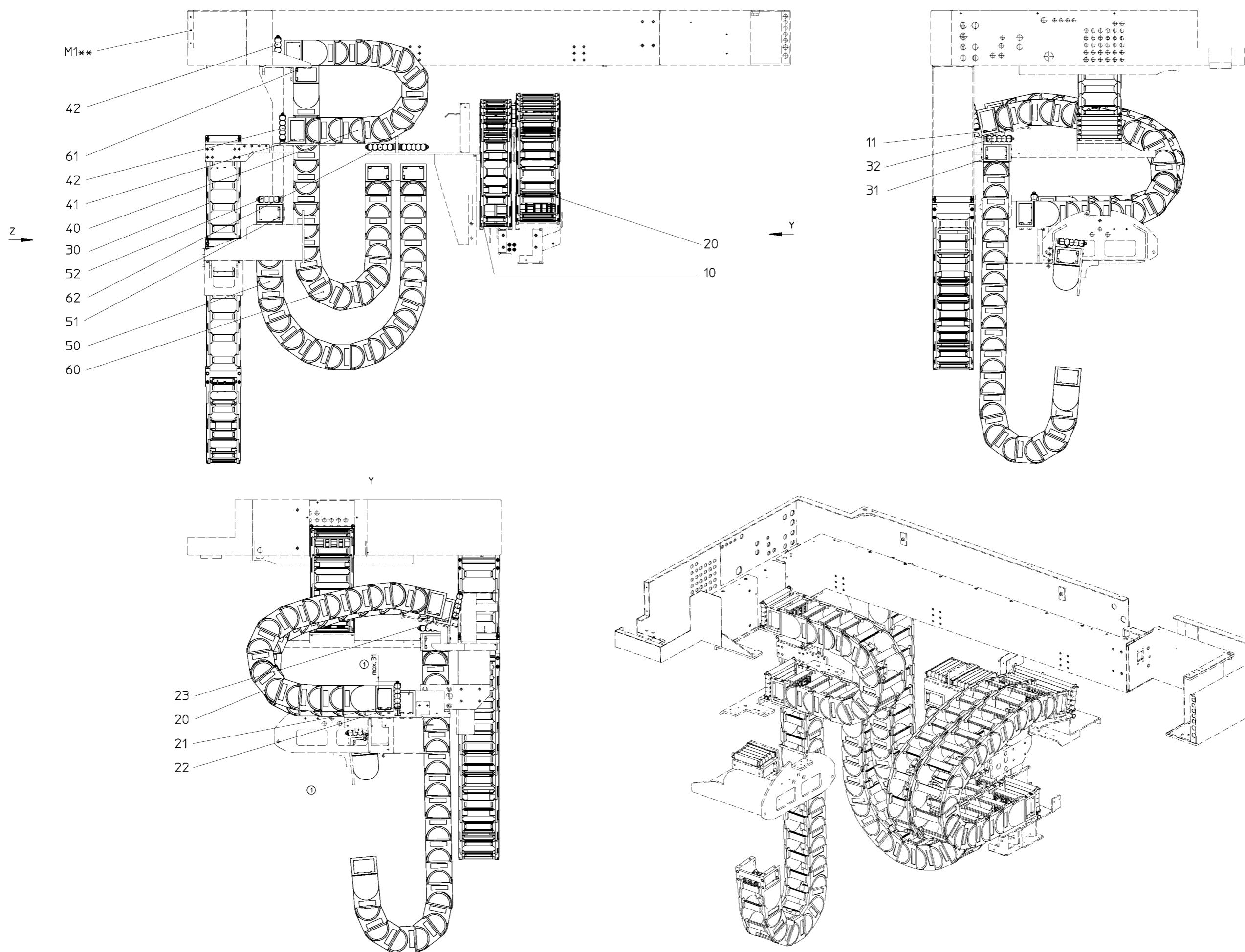


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## SpeedViper 300 Identification rings

Material no. 455249\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	429721A	Identification ring with arrow Ø6 RAL 5012		29	ST		
20	429722A	Identification ring with arrow Ø8 RAL 5012		29	ST		
30	429717A	Identification ring with arrow ø8 RAL 8001		6	ST		
40	429723A	Identification ring with arrow Ø10 RAL 5012		3	ST		
50	429719A	Identification ring with arrow ø12 RAL 8001		32	ST		
70	429734A	Identification ring with arrow Ø22 RAL 4001		4	ST		
90	457713A	Identification ring with arrow Ø20 RAL 6018		12	ST		
100	429716A	Identification ring with arrow Ø35 RAL 4001		5	ST		
120	356826A	Identification ring with arrow Ø18 RAL 1021		1	ST		
130	356825A	Identification ring with arrow Ø18 RAL 9005		2	ST		



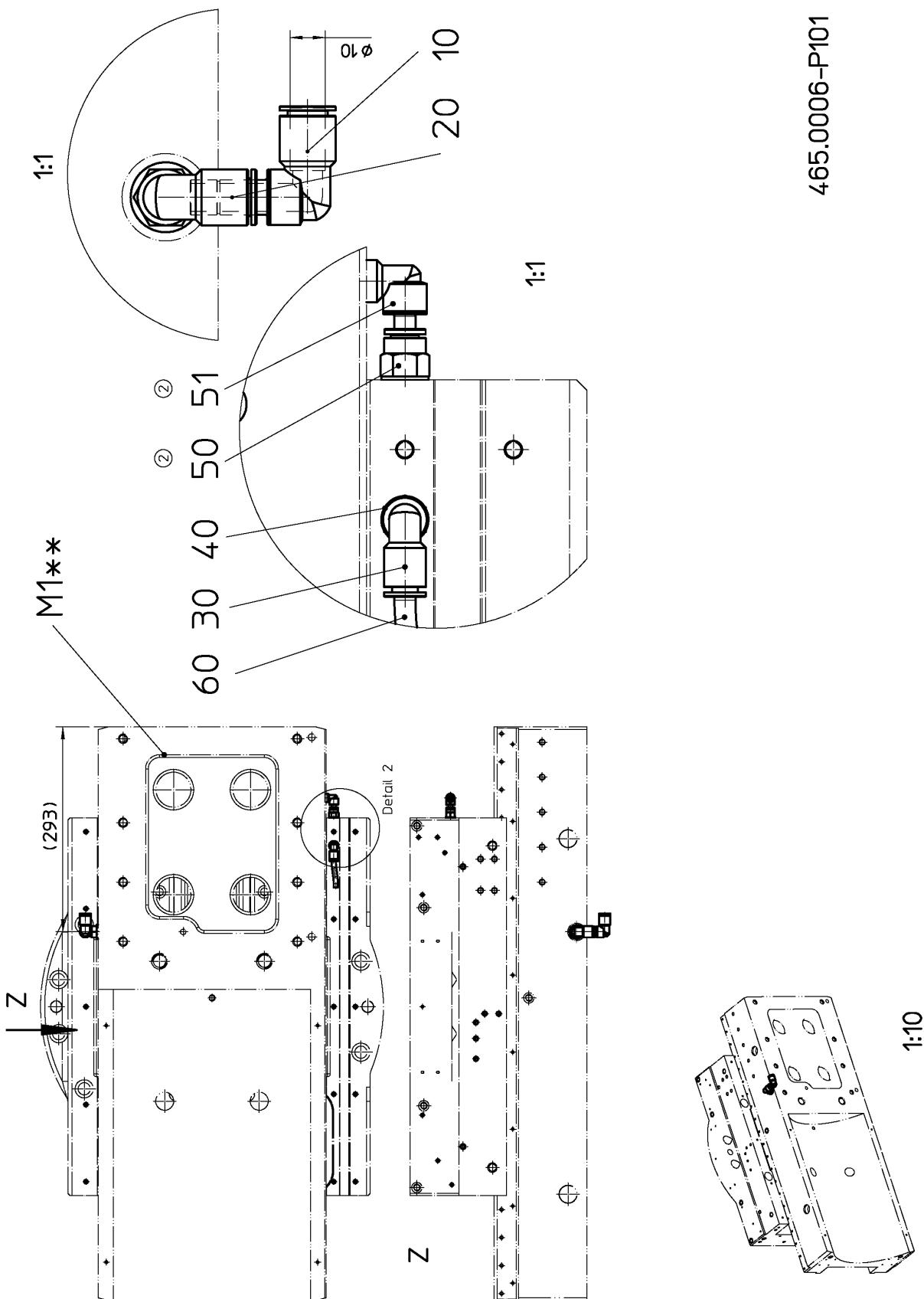
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## SpeedViper 300 Electrical parts , power supply

Material no. 455250\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	457539A	Energy chain A axis		1	ST		
11	050670A	Socket head screw M8x20		8	ST		
20	457540A	Energy chain A-Y axis		1	ST		
21	050670A	Socket head screw M8x20		8	ST		
30	457541A	Power chain, Z axis		1	ST		
31	050670A	Socket head screw M8x20		16	ST		
40	457542A	Power chain X axis		1	ST		
41	050670A	Socket head screw M8x20		8	ST		
50	457543A	Energy chain X-Z axis		1	ST		
51	050670A	Socket head screw M8x20		10	ST		
60	457544A	Energy chain X-Z axis		1	ST		
61	050670A	Socket head screw M8x20		10	ST		



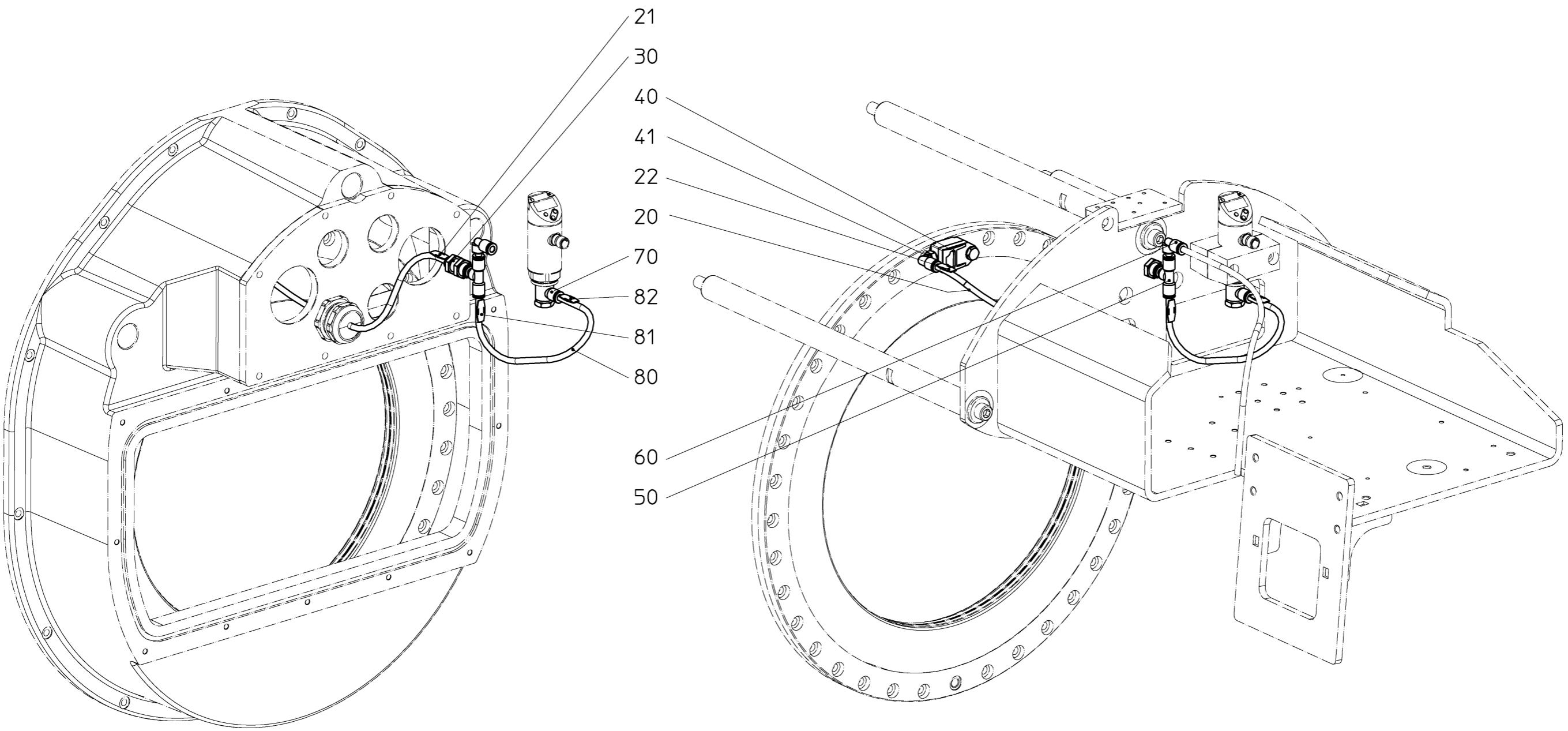


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## SpeedViper 300 Y axis, pneumatics

Material no. 455322\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	454084A	L-push-in-fitting NPQM-L-Q10-S10-P10		1	ST		
20	427736A	Elbow push-in connector		1	ST		
30	356939A	L-push-in fitting NPQM-L-Q6-S6-P10		1	ST		
40	443828A	Push-in fitting NPQH-D-G18-Q6-P10		1	ST		
50	445243A	Push-in fitting NPQM-D-G18-Q6-P10		1	ST		
51	356939A	L-push-in fitting NPQM-L-Q6-S6-P10		1	ST		
60	299043A	Plastic hose		55	MM		



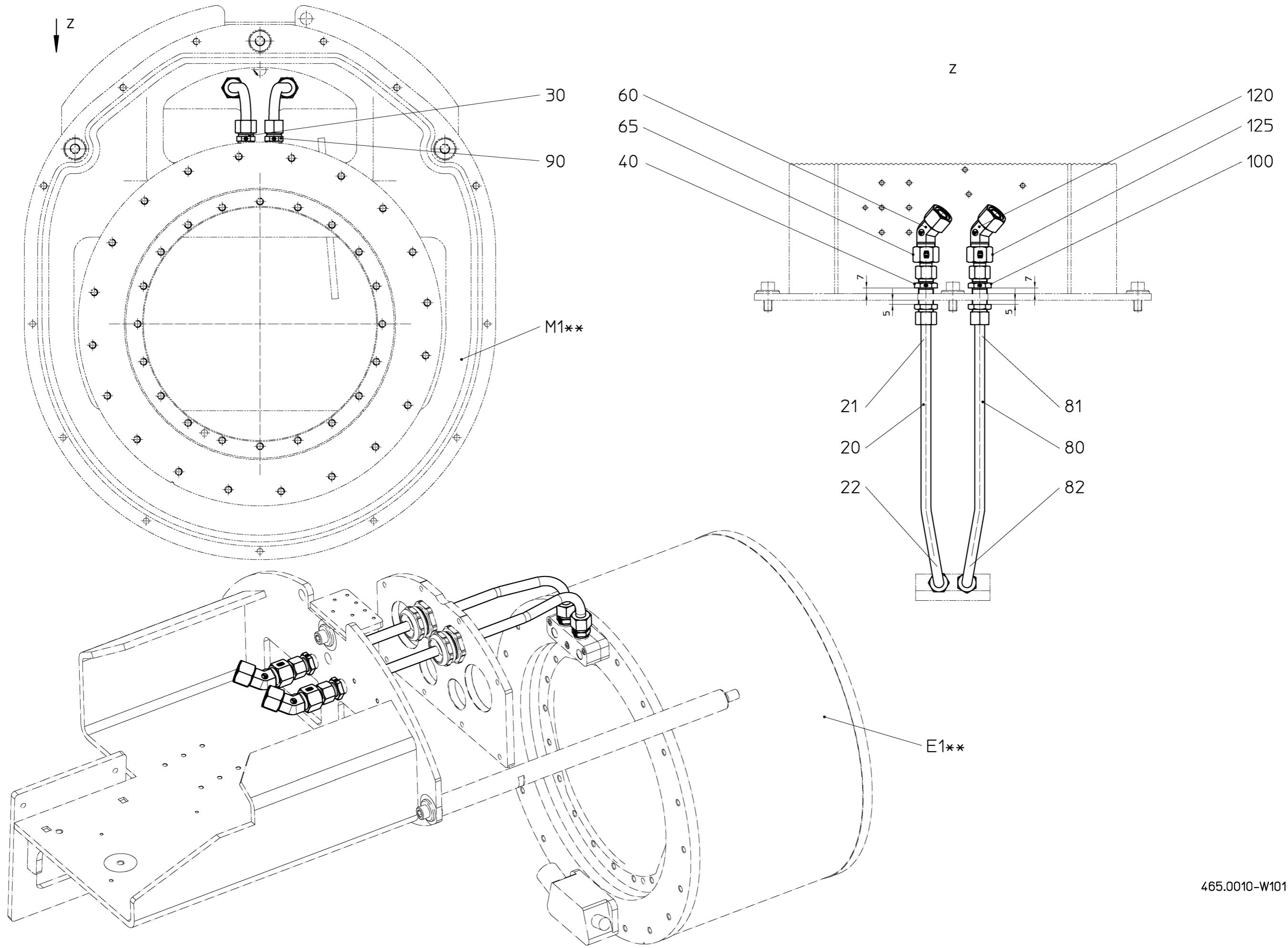
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## SpeedViper 300 A axis, pneumatics

Material no. 455397\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
20	299043A	Plastic hose		380	MM		
30	356542A	Bulkhead push-in fitting NPGH-H-Q6-E-P10		1	ST		
40	444008A	Quick ventilation valve VBQF-U-G18-E		1	ST		
41	700764A	L-push-in fitting QSL-F-G1/8-6		1	ST		
50	454412A	T-push-in connector		1	ST		
60	356939A	L-push-in fitting NPQM-L-Q6-S6-P10		1	ST		
70	454413A	Elbow push-in connector		1	ST		
80	299043A	Plastic hose		290	MM		
1005	455400\$	Set of signs		1	ST		



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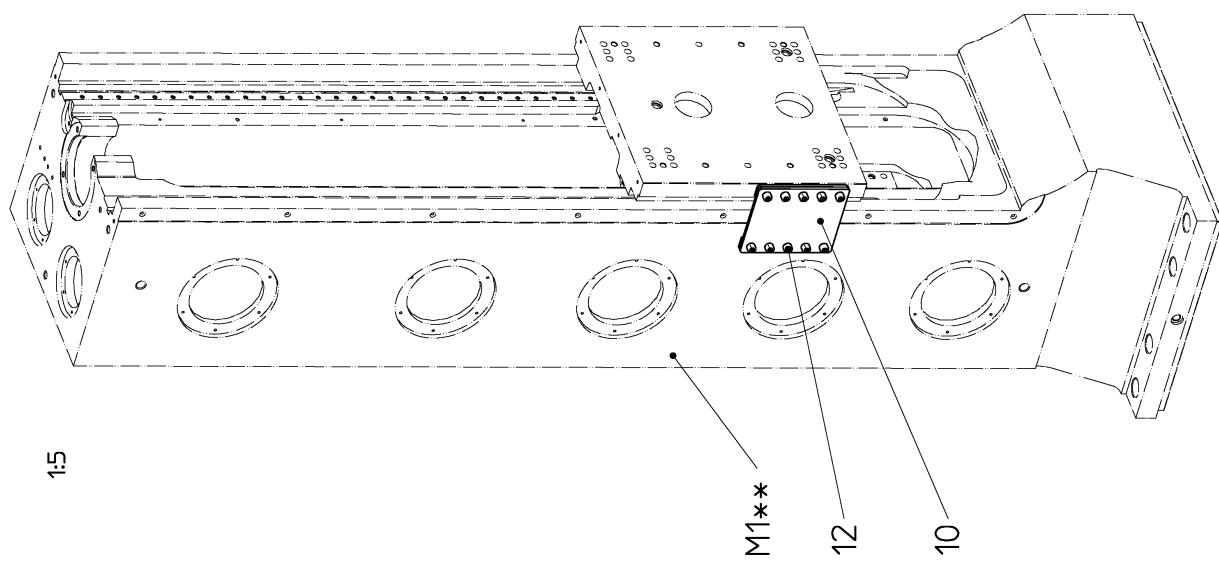


## SpeedViper 300 A axis, water cooling

Material no. 455398\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
20	457601A-1	Pipe 12x1.5 EO2 threaded joint		1	ST		
30	375006A	Straight screw fitting GE12LR1/4EDOMDCF		1	ST		
40	375048A	Straight bulkhead gland SV12LOMDCF		1	ST		
60	356612A	Adjustable elbow union 45 degrees EV15LOMDCF		1	ST		
65	454279A	Straight reduction GZR15/12LCF		1	ST		
80	457602A-1	Pipe 12x1.5 EO2 threaded joint		1	ST		
90	375006A	Straight screw fitting GE12LR1/4EDOMDCF		1	ST		
100	375048A	Straight bulkhead gland SV12LOMDCF		1	ST		
120	356612A	Adjustable elbow union 45 degrees EV15LOMDCF		1	ST		
125	454279A	Straight reduction GZR15/12LCF		1	ST		
1000	455399\$	Set of signs		1	ST		

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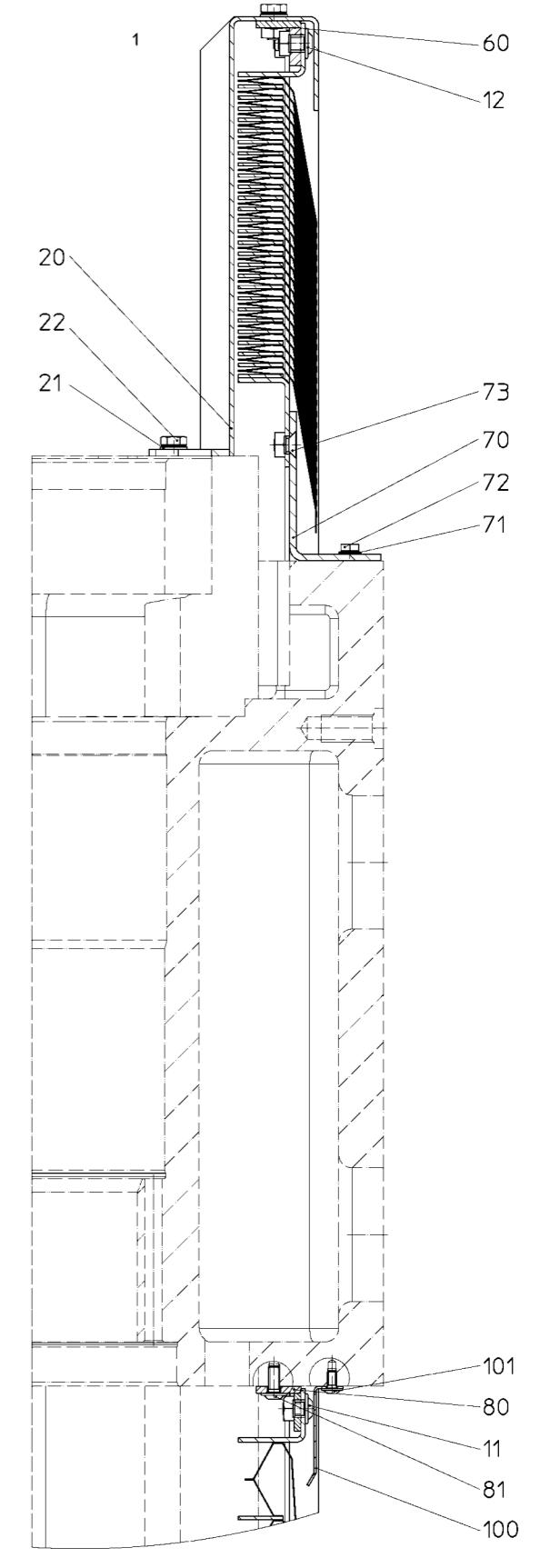
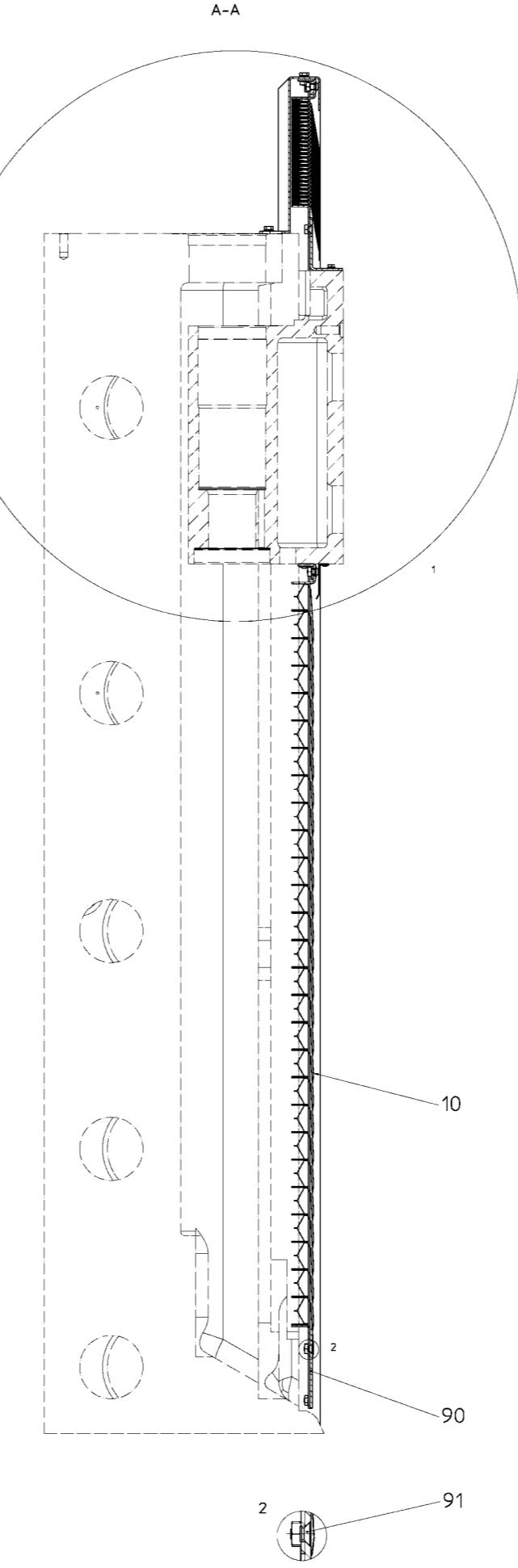
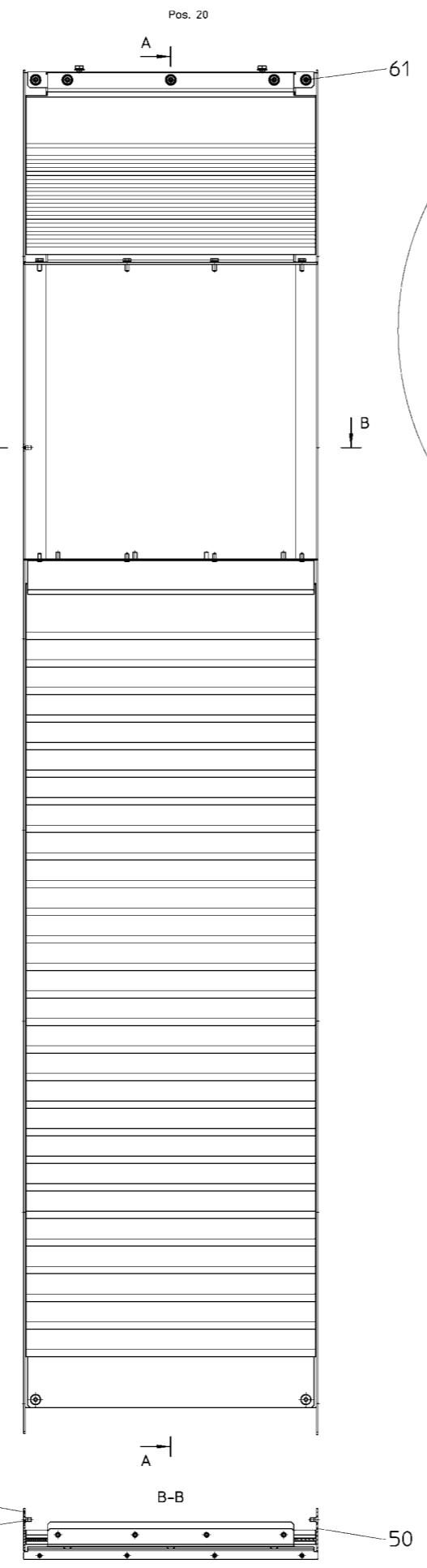
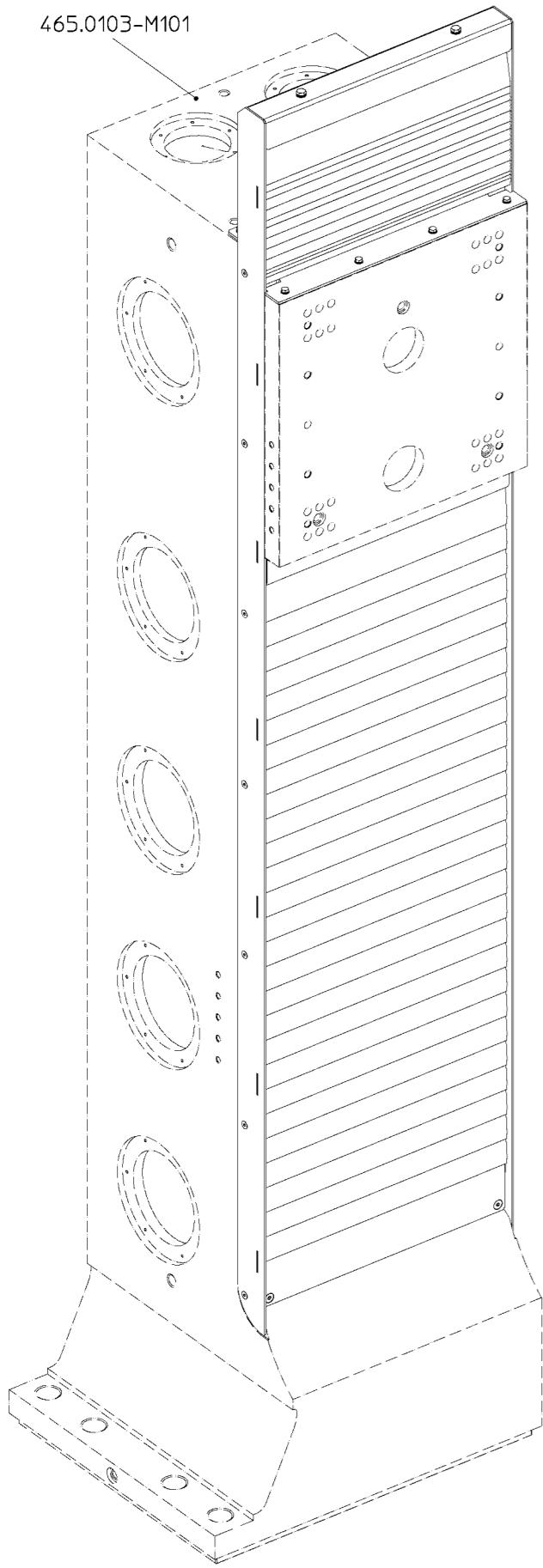
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## SpeedViper 300 Z1 axis, transport protection

Material no. 455464\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	457794A	Transport lock		1	ST		
12	050628A	Socket head screw M8x25		10	ST		



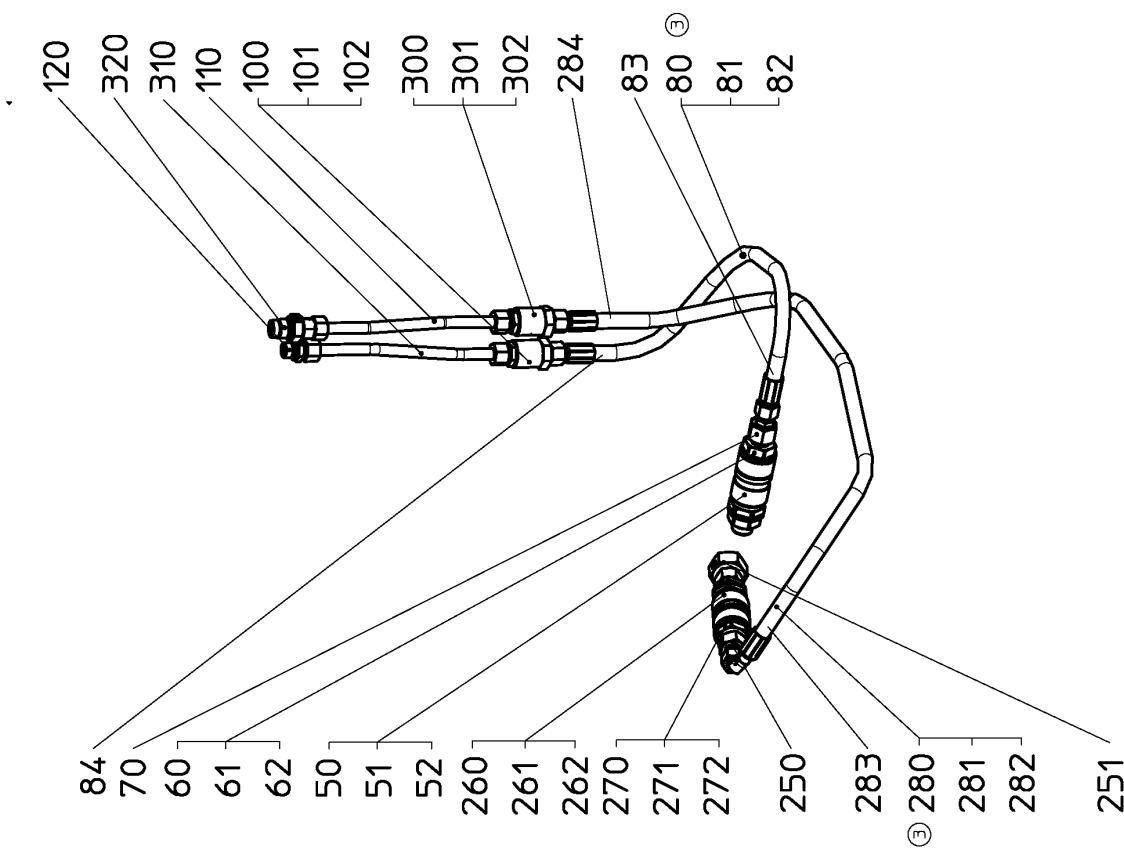
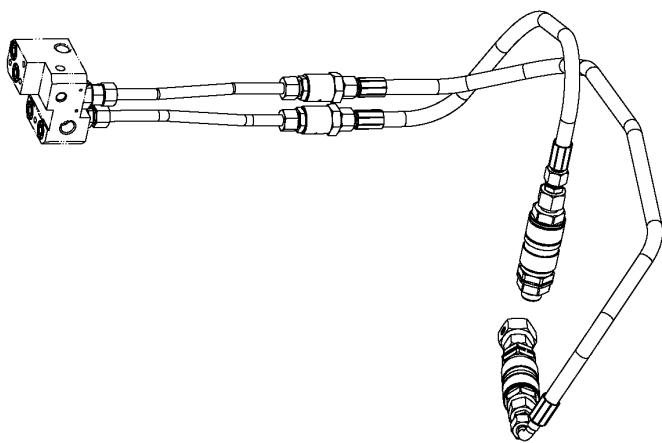


## SpeedViper 300 Z1 axis guideway cover

Material no. 456544\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	460097A	Z1 axis guideway cover		2	ST		
11	289373A	Oval flange head screw M6X10 (strength class 10.9)		3	ST		
12	303336A	Oval flange head screw M6x12 (strength class 10.9)		3	ST		
20	460102A	End plate, top		1	ST		
21	051146A	Plain washer B6,4 (steel)		4	ST		
22	078435A	Hexagon head screw M6X12 (strength class 8.8)		4	ST		
30	460103A	Rail, left		1	ST		
41	147343A	Countersunk head screw M5x10 (strength class 8.8)		14	ST		
50	460104A	Rail, right		1	ST		
60	457863A	Holder lamella apron		1	ST		
61	303336A	Oval flange head screw M6x12 (strength class 10.9)		2	ST		
70	457864A	Laminar tray		1	ST		
71	051145A	Plain washer B5.3 (steel)		4	ST		
72	128956A	Hexagon screw M5x12 (strength class 8.8)		4	ST		
73	050944A	Countersunk head screw M6x10 (strength class 8.8)		3	ST		
80	457865A	Holder lamella apron		1	ST		
81	289361A	Oval flange head screw M5x12 (strength class 10.9)		4	ST		
90	460105A	Laminar tray		1	ST		
91	050944A	Countersunk head screw M6x10 (strength class 8.8)		7	ST		
100	457915A	Protective plate		1	ST		
101	280725A	Oval flange head screw M4x8 (strength class 10.9)		4	ST		

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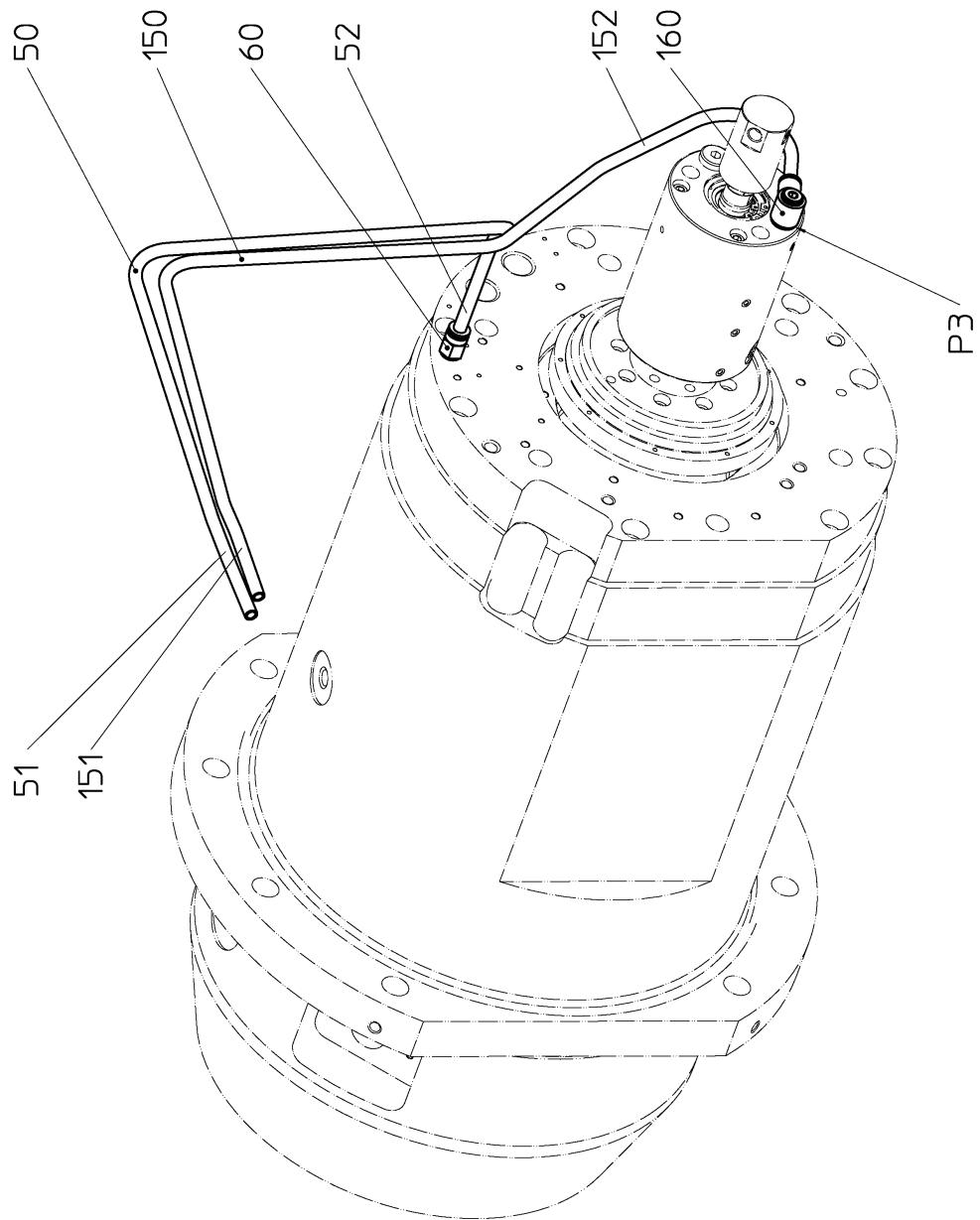


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## SpeedViper 300 Dresser, water cooling

Material no. 456552\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
50	454345A	Closure coupling		1	ST		
51	454467A	Registration plate W7-1Z1		1	ST		
52	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
60	454347A	Closure nipple		1	ST		
61	454468A	Registration plate W7-1Z2		1	ST		
62	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
70	7810851A	Taper reducer RED15/12LOMDCF		1	ST		
80	7813557A	High-pressure hose, 2-piece		1	ST		
81	438662A	Identification sign		1	ST		
82	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
100	454343A	Straight rotary screw fitting L 12 M18x1,5		1	ST		
101	454469A	Registration plate W7-1Z3		1	ST		
102	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
110	461509A-1	Pipe D12 EO2 connector		1	ST		
120	375005A	Straight screw fitting GE12LREDOMDCF		1	ST		
250	7810851A	Taper reducer RED15/12LOMDCF		1	ST		
251	437886A	Straight reduction GZR22/15LCF		1	ST		
260	454345A	Closure coupling		1	ST		
261	454470A	Registration plate W7-1Z6		1	ST		
262	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
270	454347A	Closure nipple		1	ST		
271	454471A	Registration plate W7-1Z5		1	ST		
272	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
280	7813594A	High-pressure hose, 2-piece		1	ST		
281	437832A	Identification sign		1	ST		
282	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
300	454343A	Straight rotary screw fitting L 12 M18x1,5		1	ST		
301	454472A	Registration plate W7-1Z4		1	ST		
302	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
310	461510A-1	Pipe D12 EO2 connector		1	ST		
320	380889A	Straight screw-in swivel fitting DVGE 12-PLR		1	ST		
900	456770\$	Set of signs		1	ST		



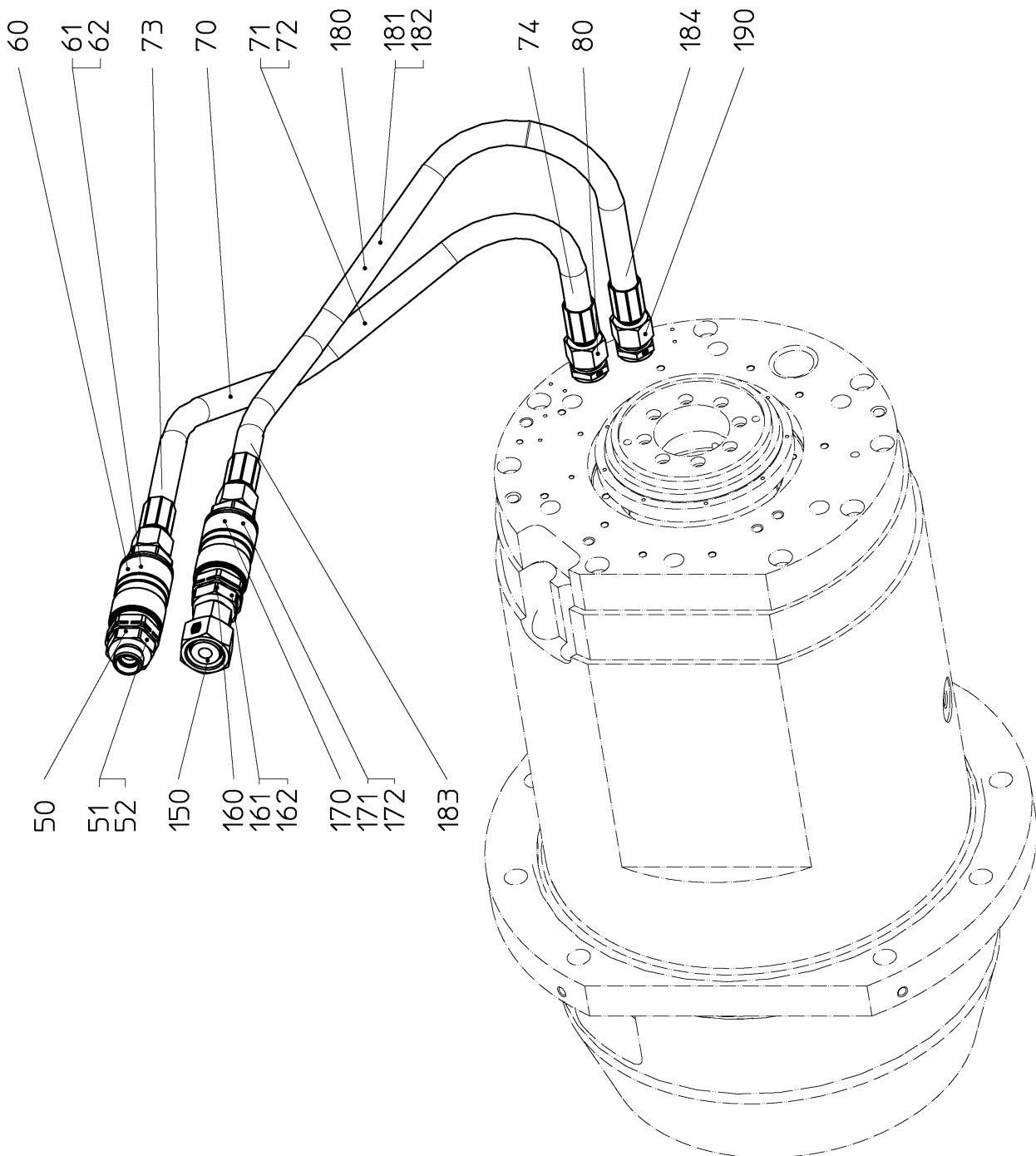


## SpeedViper 300 C axis, pneumatics

Material no. 456560\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
50	290792A	Plastic hose		950	MM		
60	330574A	Push-in fitting QS-G1/8-8		1	ST		
150	290792A	Plastic hose		950	MM		
160	356352A	Elbow push-in connector		1	ST		
900	456578\$	Set of signs		1	ST		

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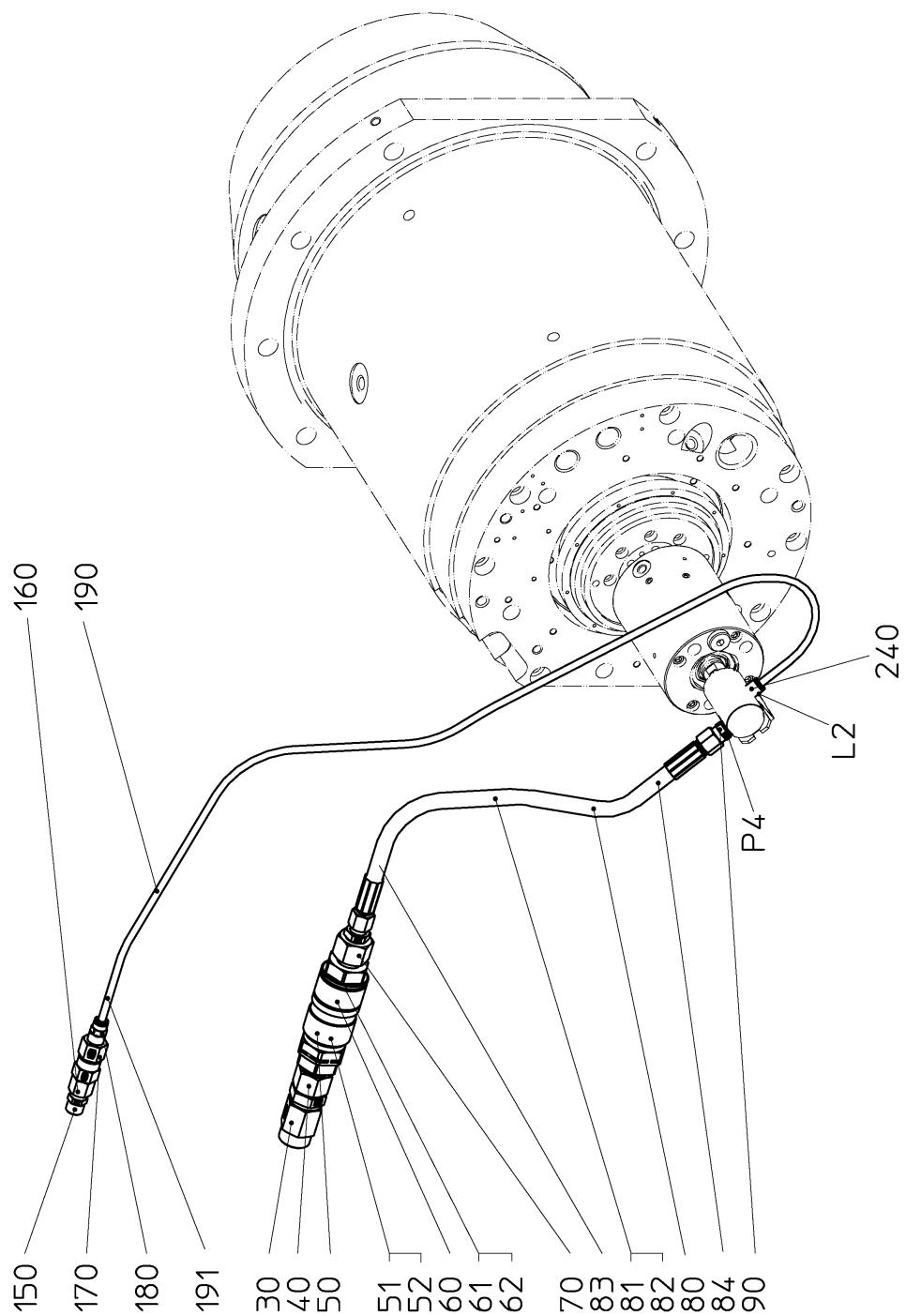




## SpeedViper 300 C axis, water cooling

Material no. 456561\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
50	454345A	Closure coupling		1	ST		
51	454502A	Registration plate W5-1Z1		1	ST		
52	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
60	454347A	Closure nipple		1	ST		
61	454503A	Registration plate W5-1Z2		1	ST		
62	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
70	454353A	High-pressure hose, 2-piece		1	ST		
71	424001A	Identification sign W5-1H1		1	ST		
72	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
80	375008A	G-male coupling GE15LREDOMDCF		1	ST		
150	437886A	Straight reduction GZR22/15LCF		1	ST		
160	454345A	Closure coupling		1	ST		
161	454505A	Registration plate W6-1Z1		1	ST		
162	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
170	454347A	Closure nipple		1	ST		
171	454506A	Registration plate W6-1Z2		1	ST		
172	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
180	454353A	High-pressure hose, 2-piece		1	ST		
181	435281A	Identification sign w6-1h1		1	ST		
182	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
190	375008A	G-male coupling GE15LREDOMDCF		1	ST		
900	456806\$	Set of signs		1	ST		

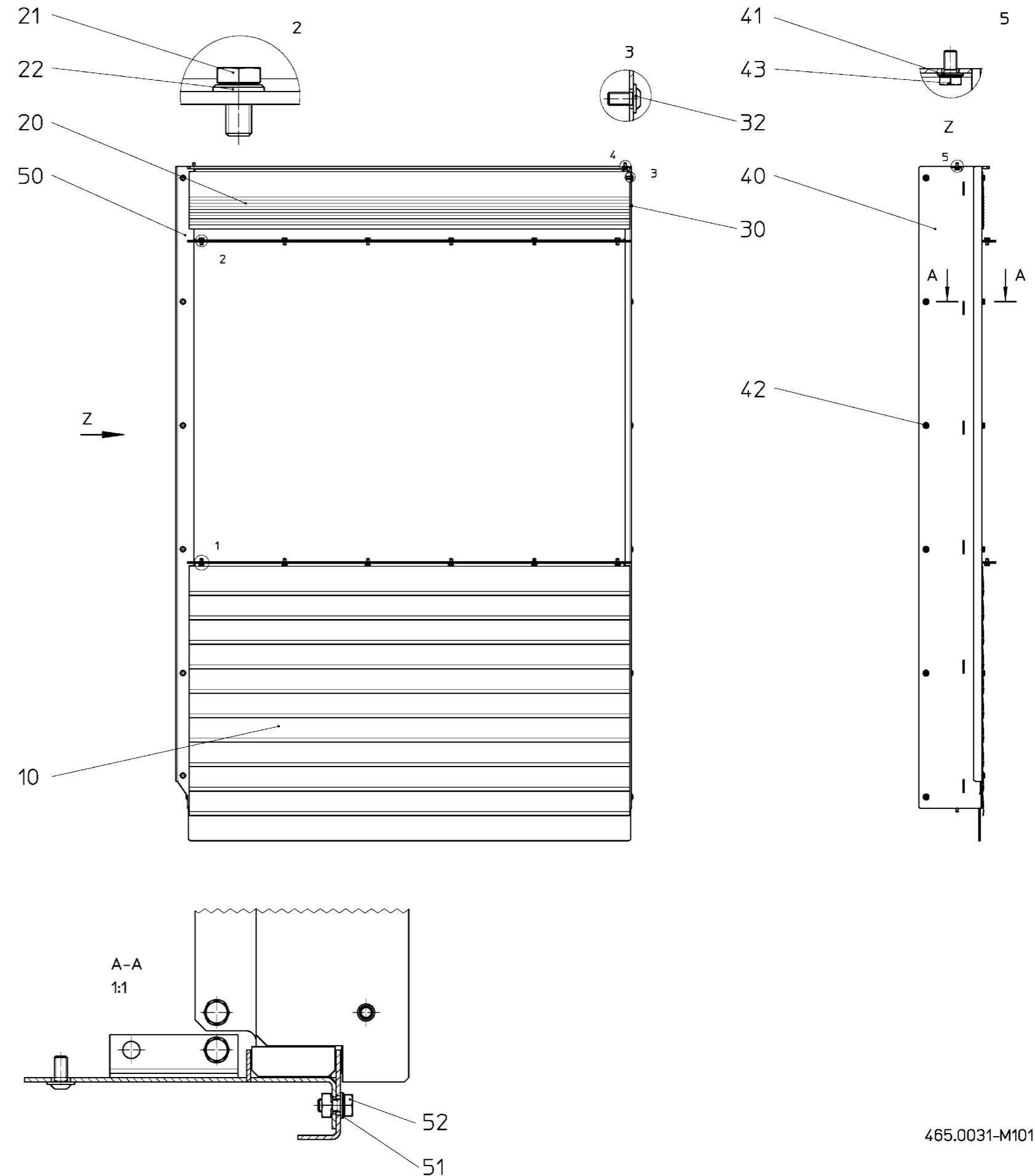
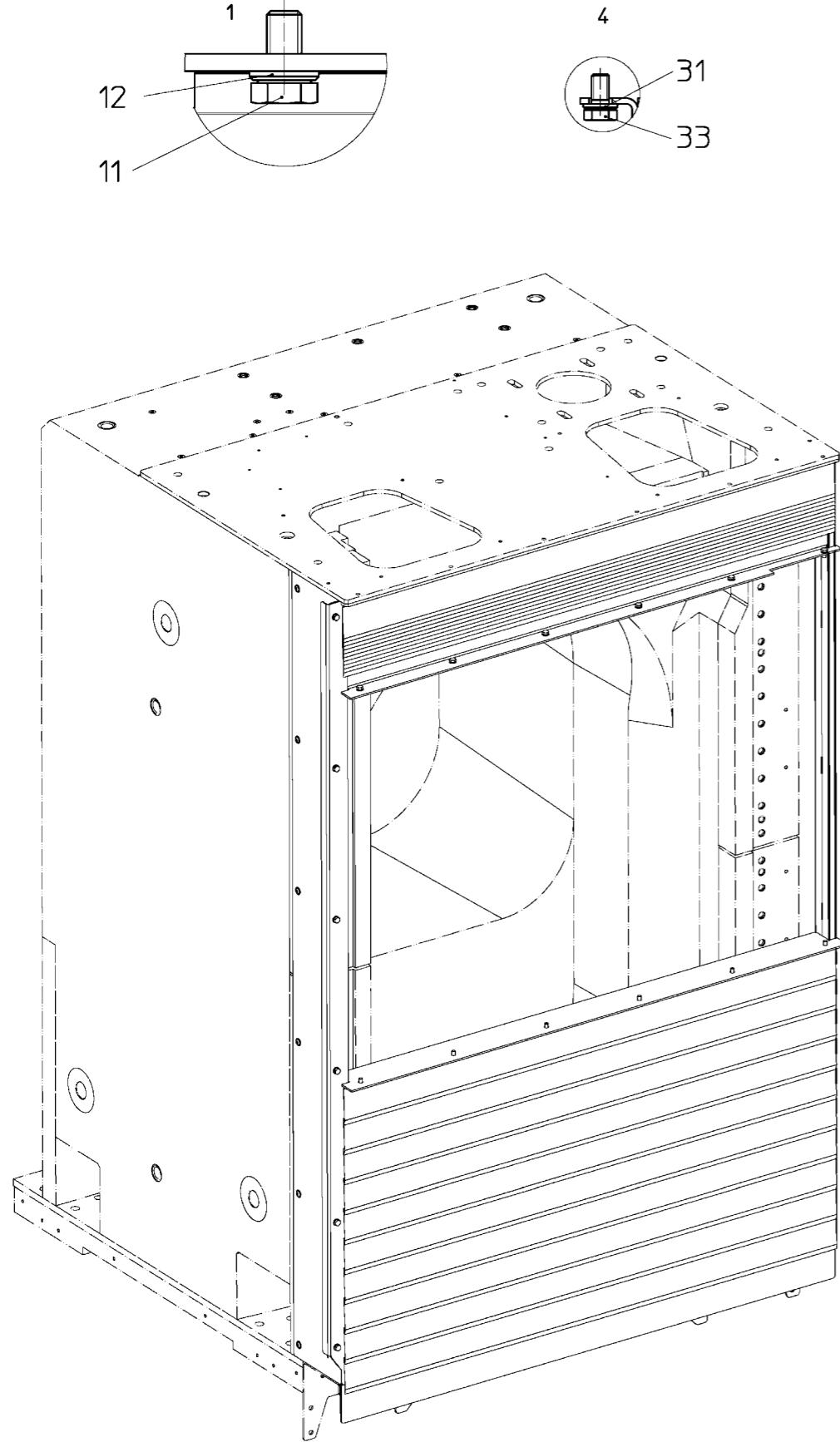




## SpeedViper 300 C axis, clamping device rinsing

Material no. 456562\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
30	454164A	Straight screw-on fitting GAI18LR71X		1	ST		
40	429393A	Straight screw-in gland EGE15LREDCF		1	ST		
50	454345A	Closure coupling		1	ST		
51	454500A	Registration plate K4-1Z1		1	ST		
52	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
60	454347A	Closure nipple		1	ST		
61	454501A	Registration plate K4-1Z2		1	ST		
62	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
70	375128A	Taper reducer RED15/08LOMDCF		1	ST		
80	454352A	High-pressure hose, 2-piece		1	ST		
81	409856A	Registration plate		1	ST		
82	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
90	375002A	G-male coupling GE08LR1/8EDOMDCF		1	ST		
150	375016A	Straight screw fitting G08LCFX		1	ST		
160	384171A	Manometer screw fitting MAVE08LR		1	ST		
170	056655A	Reducer, pinion 1/4-EDX1/8		1	ST		
180	7811543A	Plug connector connection piece		1	ST		
190	058651A	Pipe 6x1 (plastic PA11 transparent)		850	MM		
240	454595A	Push-in connector		1	ST		
900	456805\$	Set of signs		1	ST		



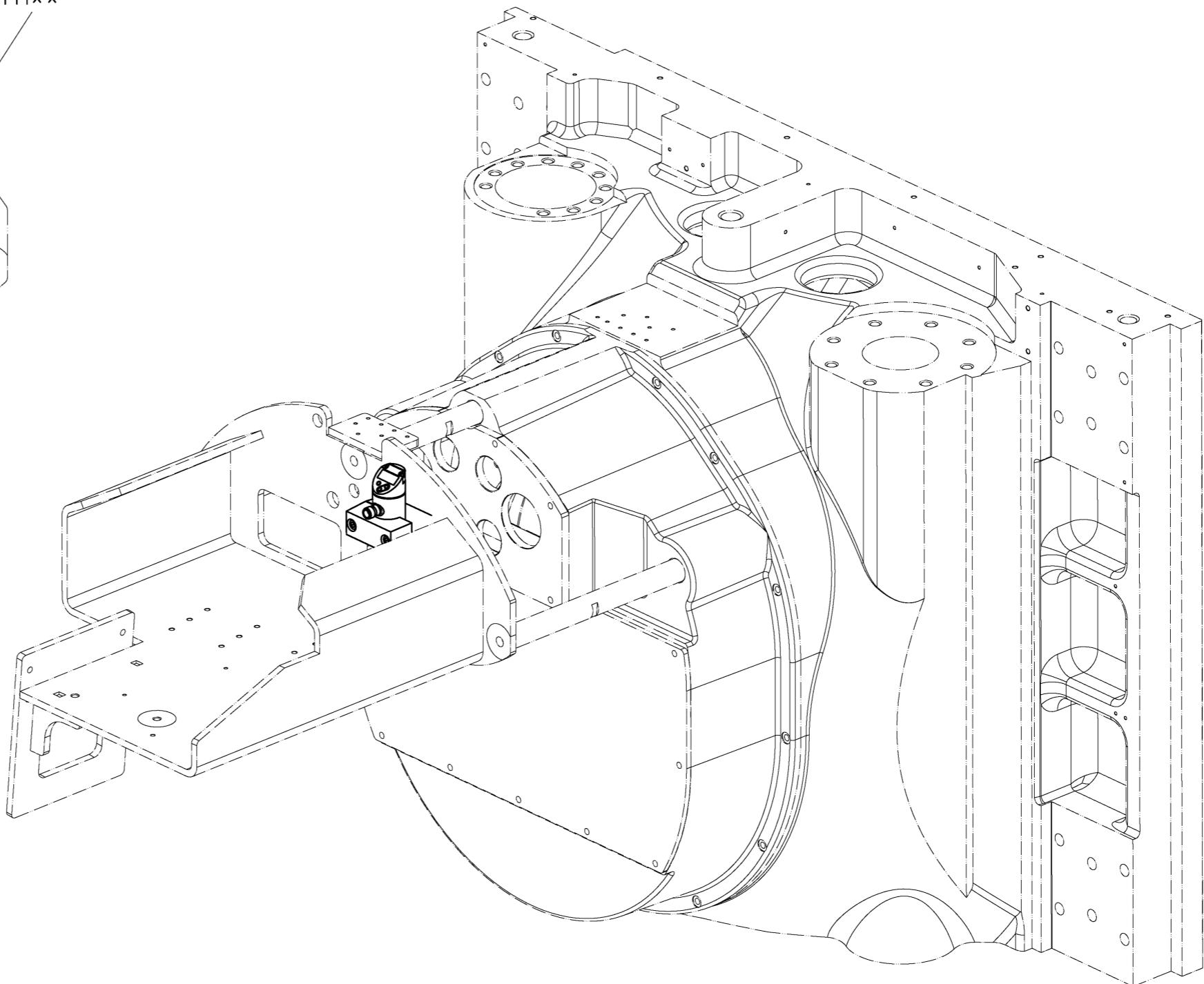
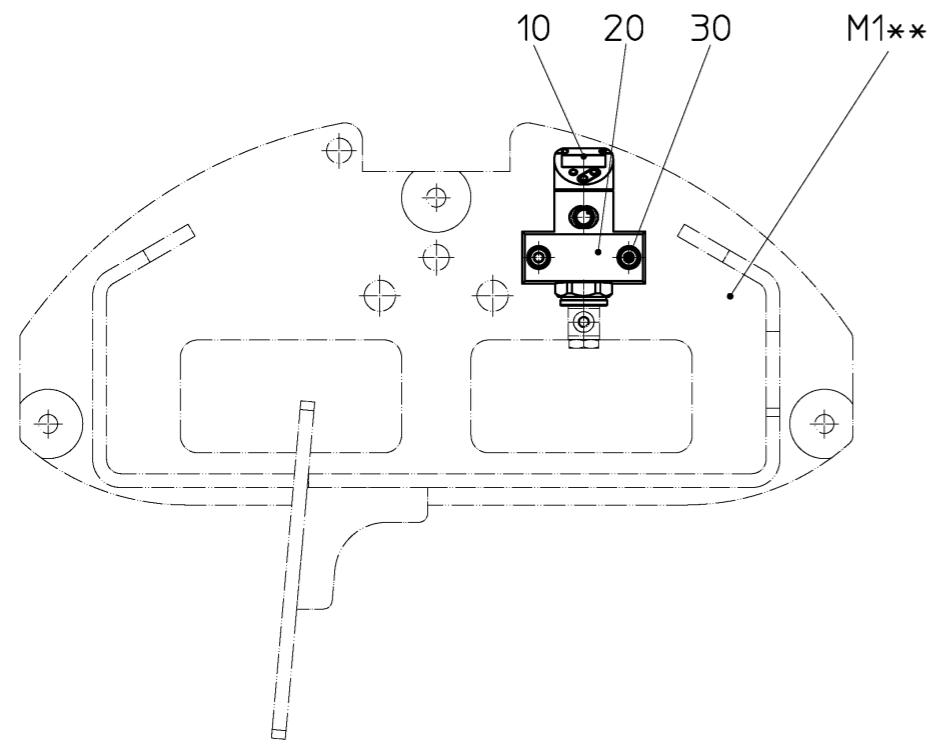
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## SpeedViper 300 Z axis guideway cover

Material no. 456675\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	457982A	Z axis guideway cover, bottom		1	ST		
11	078435A	Hexagon head screw M6X12 (strength class 8.8)		12	ST		
12	051146A	Plain washer B6,4 (steel)		12	ST		
20	457993A	Z axis guideway cover		1	ST		
21	078435A	Hexagon head screw M6X12 (strength class 8.8)		6	ST		
22	051146A	Plain washer B6,4 (steel)		6	ST		
29	485039A	Guide frame, bottom		1	ST		
30	485040A	Guide frame, top		1	ST		
31	051146A	Plain washer B6,4 (steel)		2	ST		
32	303336A	Oval flange head screw M6x12 (strength class 10.9)		6	ST		
33	078435A	Hexagon head screw M6X12 (strength class 8.8)		2	ST		
40	460141A	Guide frame		1	ST		
41	051146A	Plain washer B6,4 (steel)		2	ST		
42	303336A	Oval flange head screw M6x12 (strength class 10.9)		6	ST		
43	078435A	Hexagon head screw M6X12 (strength class 8.8)		2	ST		
50	460144A	Guide bracket		1	ST		
51	051146A	Plain washer B6,4 (steel)		6	ST		
52	078435A	Hexagon head screw M6X12 (strength class 8.8)		6	ST		
60	051146A	Plain washer B6,4 (steel)		6	ST		
70	050703A	Hexagon screw M6x16 (strength class 8.8)		6	ST		



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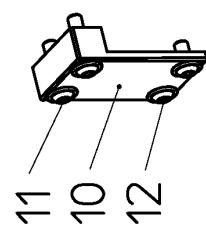
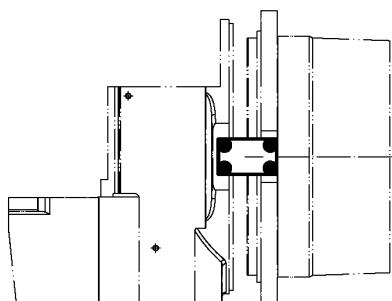
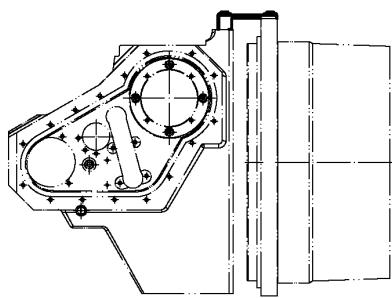


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SpeedViper 300 A axis, electrical parts, clamping  
element  
Material no. 456693\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	448461A	Pressure sensor PN7094		1	ST		
20	434103A	Pair of terminal halves LKP-5-R-33.7Pp		1	PAA		
30	077512A	Socket head screw M6x60		2	ST		

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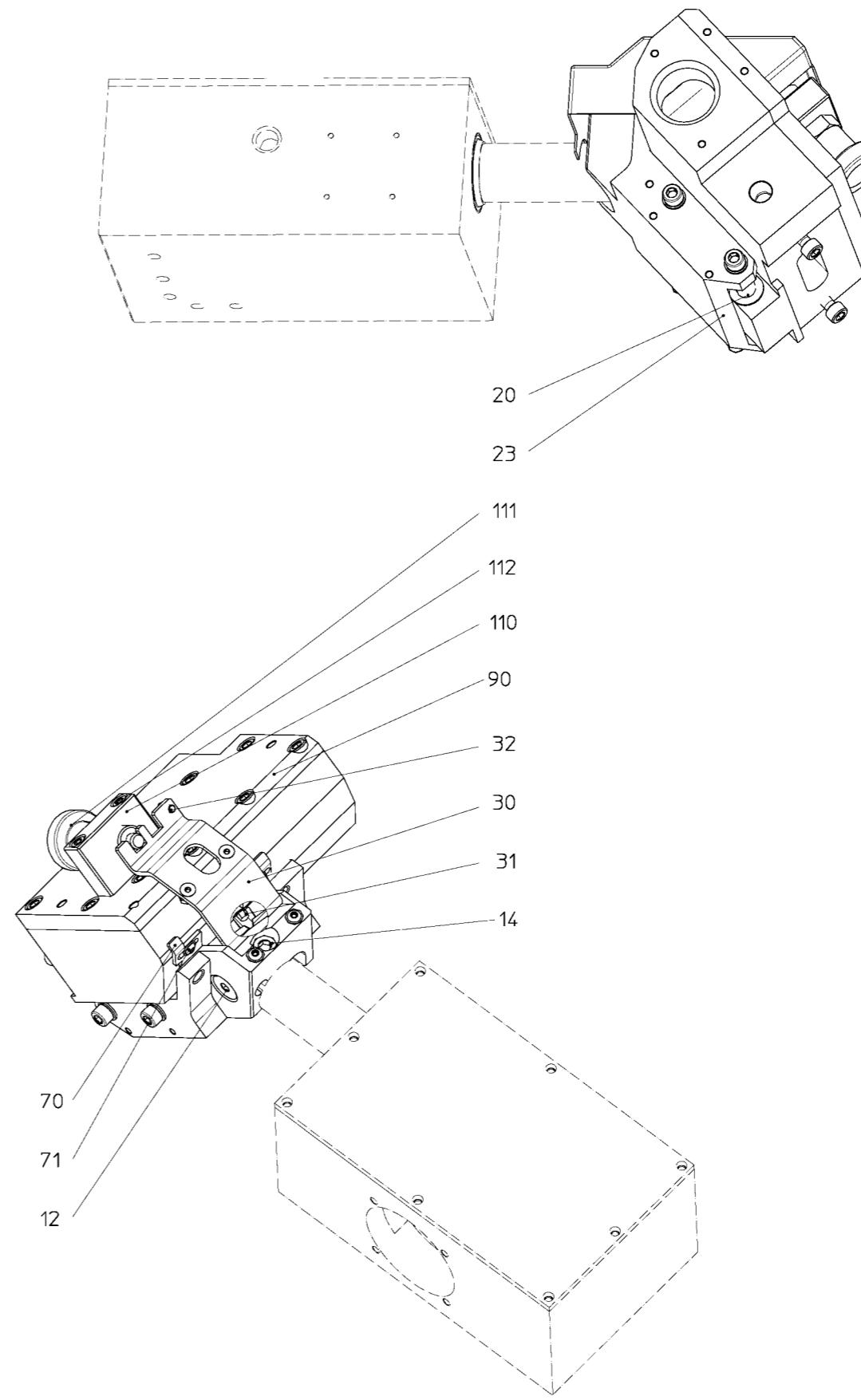
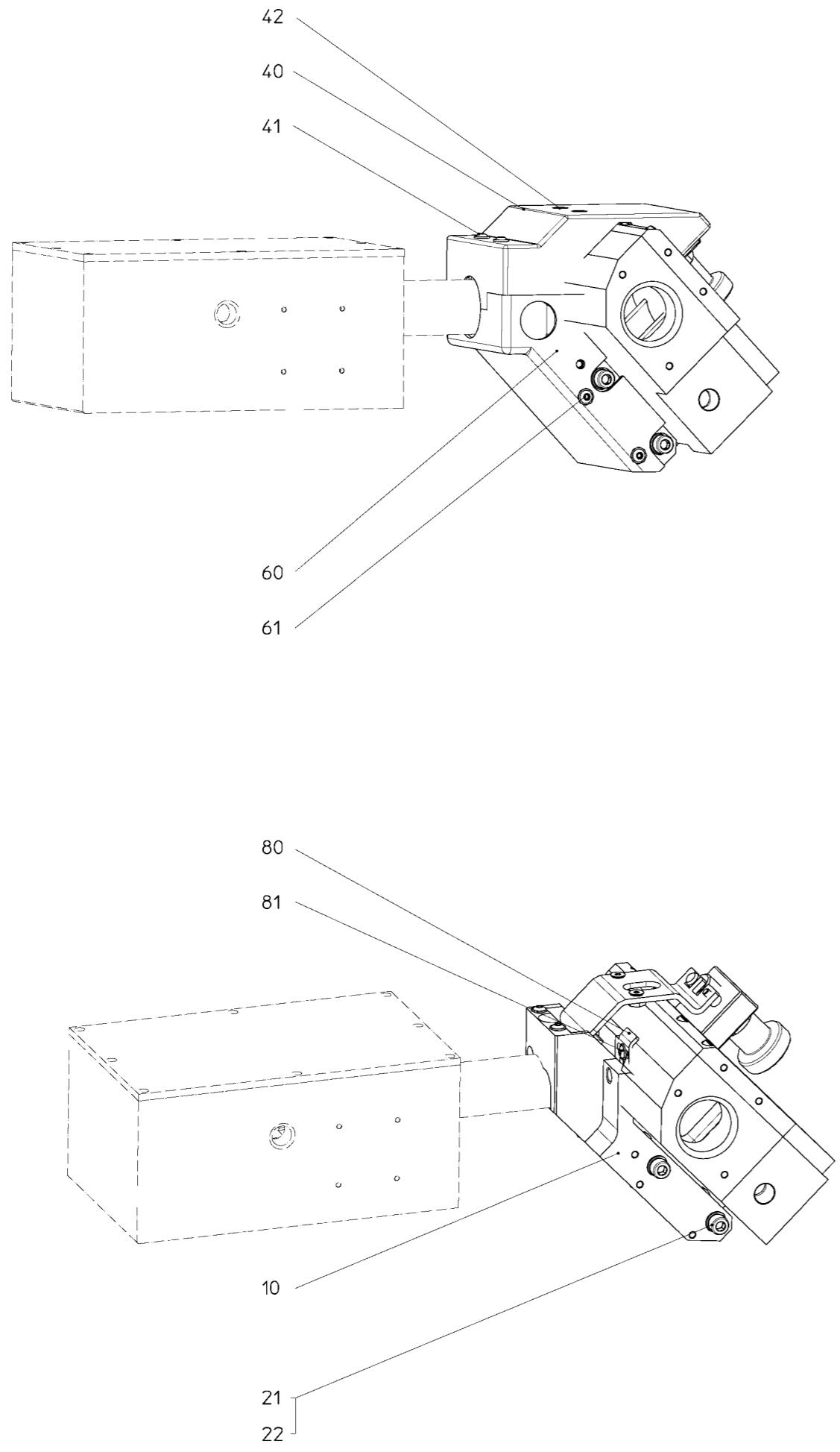




## SpeedViper 300 Transport lock, C3 axis

Material no. 456842\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	456843\$	Transport lock, C3 axis		1	ST		
11	7804021A	Oval flange head screw M6x25		2	ST		
12	303336A	Oval flange head screw M6x12 (strength class 10.9)		2	ST		



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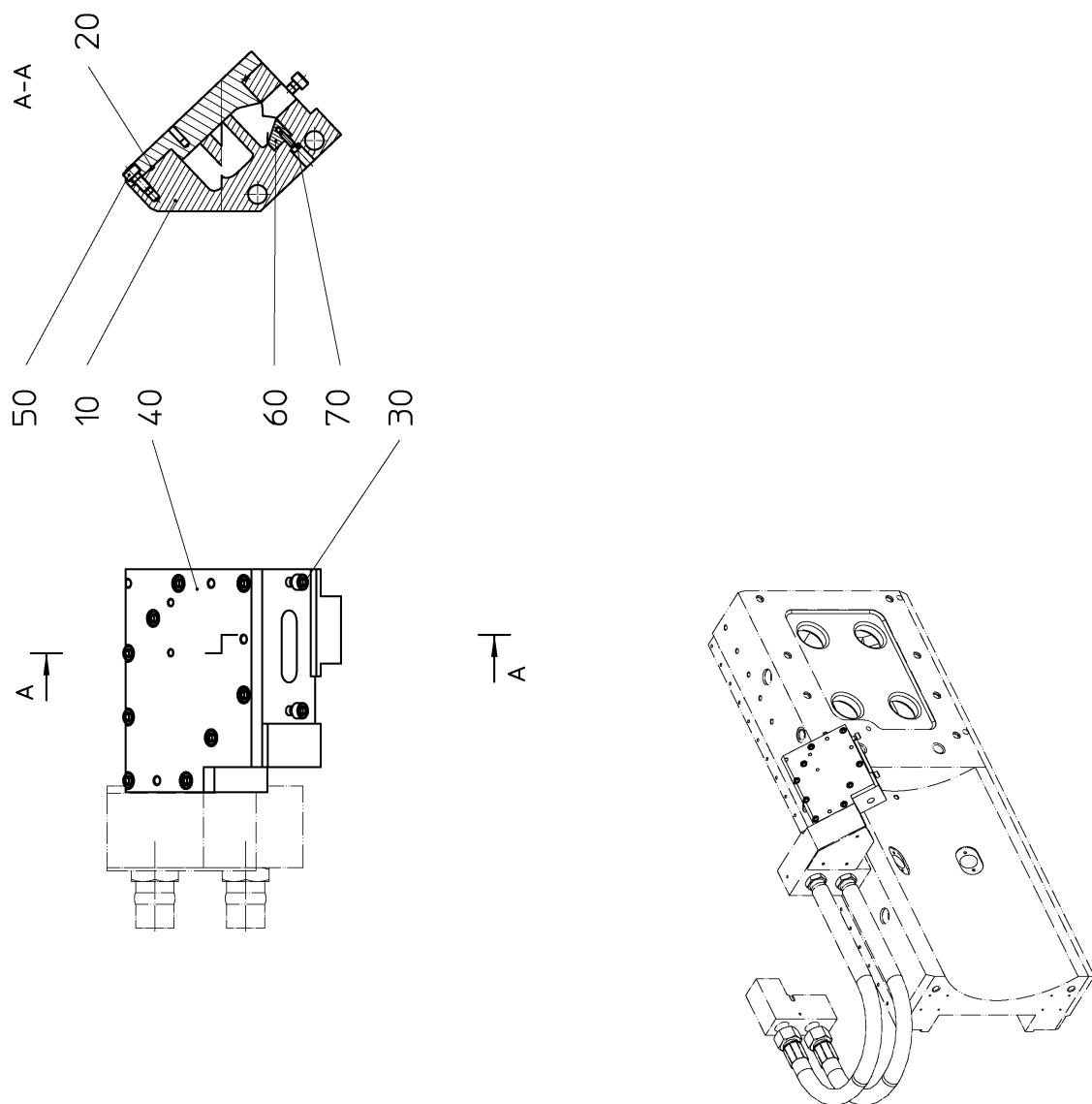


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## SpeedViper 300 X1 axis cooling nozzle adjustment

Material no. 456997\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	456996\$	Holder for cooling nozzle		1	ST		
12	050951A	Countersunk head screw M8x20 (strength class 8.8)		1	ST		
14	050670A	Socket head screw M8x20		1	ST		
20	456998\$	Guide shaft		2	ST		
21	051146A	Plain washer B6,4 (steel)		4	ST		
22	050936A	Socket head screw M6x12		4	ST		
23	454624A	Plain bearing with collar iglidur WMF-1012-10		4	ST		
30	480325A	Angle		1	ST		
31	050936A	Socket head screw M6x12		1	ST		
32	147436A	Socket head screw M4x6		1	ST		
40	480324A	Cover top		1	ST		
41	280725A	Oval flange head screw M4x8 (strength class 10.9)		2	ST		
42	259503A	Countersunk head screw M4x8 (strength class 8.8)		2	ST		
60	460442A	Cover bottom		1	ST		
61	280725A	Oval flange head screw M4x8 (strength class 10.9)		4	ST		
70	460443A	Switching cam, rear		1	ST		
71	454841A	Oval flange head screw M4x6 (strength class 10.9) black		1	ST		
80	460444A	Switching cam, front		1	ST		
81	454841A	Oval flange head screw M4x6 (strength class 10.9) black		1	ST		
110	460918\$	Holder for indexing plunger		1	ST		
111	454625A	Indexing plunger GN 617- 8-A		1	ST		
112	144233A	Socket head screw M5x35		2	ST		

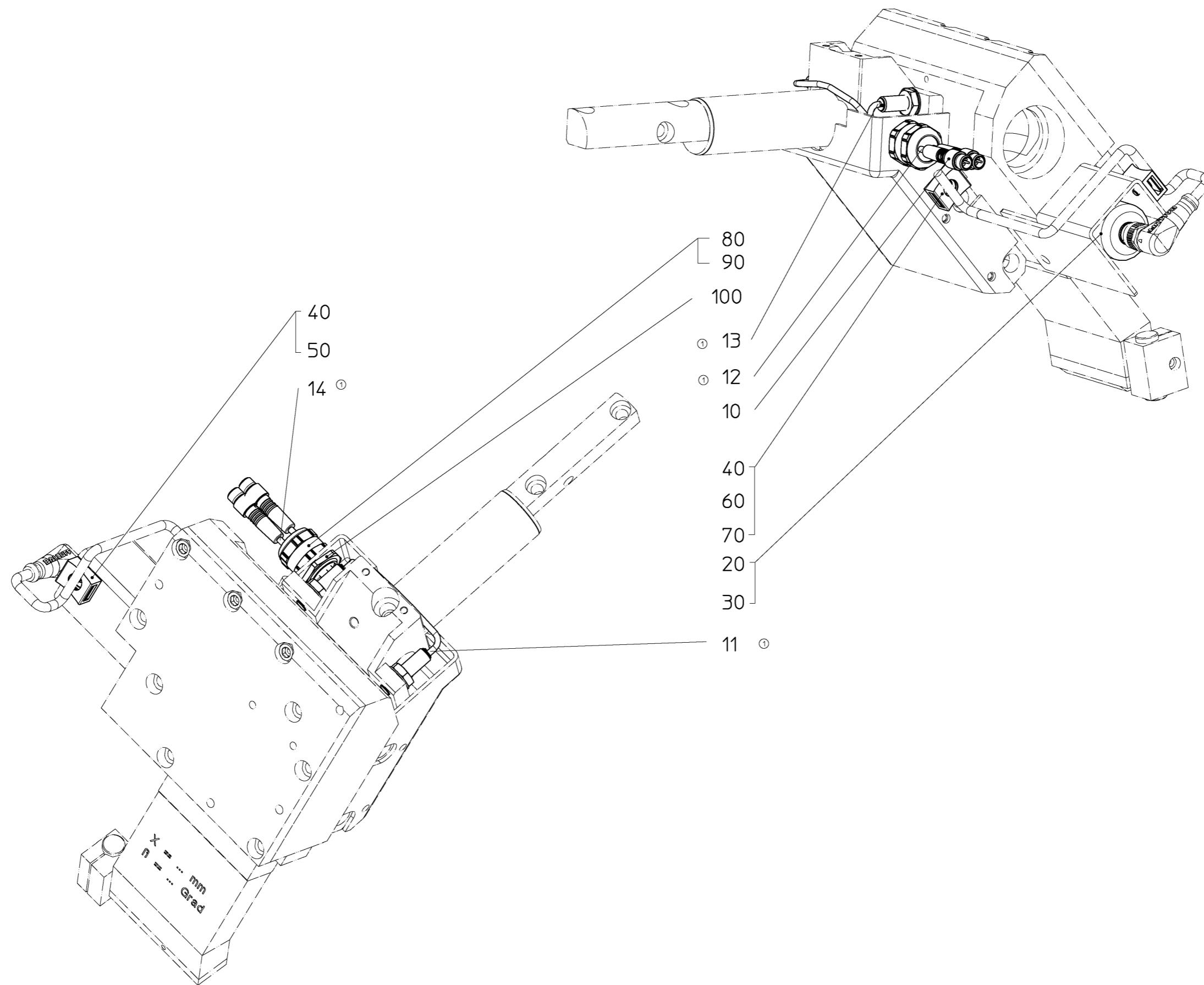




## SpeedViper 300 Simplified nozzle interface

Material no. 486134\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	486135\$	Interface		1	ST		
20	7808594A	Sealing ring 105,00x1,50		1	ST		
30	050665A	Socket head screw M6x16		2	ST		
40	486136\$	Interface cover		1	ST		
50	050936A	Socket head screw M6x12		9	ST		
60	486137\$	Interface gradient		1	ST		
70	250124A	Socket head screw M3x12		2	ST		



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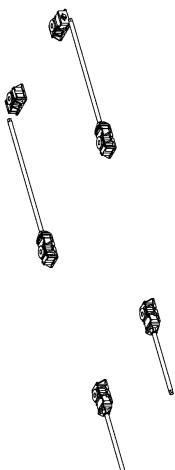
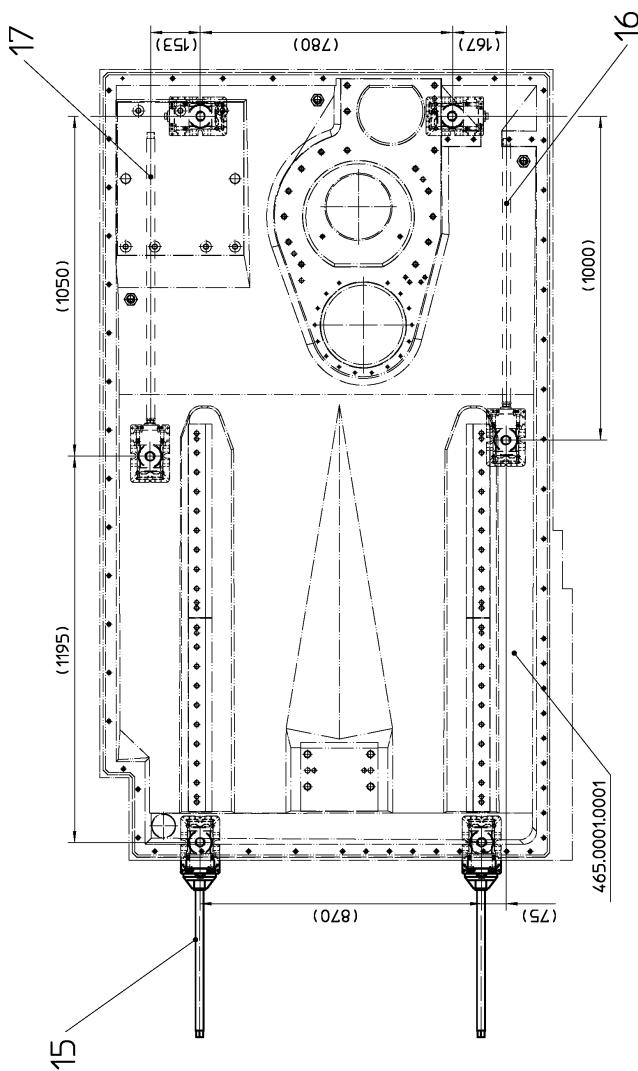


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SpeedViper 300 X1 axis, electrical parts, cooling nozzle  
adjustment  
Material no. 460513\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	459585A	Proximity switch		2	ST		
20	362755A	Pressure sensor PP7552		1	ST		
30	055658A	Sealing ring A 14X18 (copper)		2	ST		
40	356330A	Hook and loop fastener base KBS 4-20		2	ST		
50	291507A	Countersunk screw M4x6 (strength class 8.8)		1	ST		
60	268594A	Countersunk head screw M4x10 (strength class 8.8)		1	ST		
70	461537A	Hook and loop fastener strap 7.5mm		200	MM		
80	391163A	Cable gland TOP-T M20x1.5 8 - 13 mm		1	ST		
90	421263A	Multiple sealing insert MFDE PG13,5 2x5		1	ST		
100	336353A	Hexagon nut M20x1,5		1	ST		
200	459630\$	Set of signs		1	ST		

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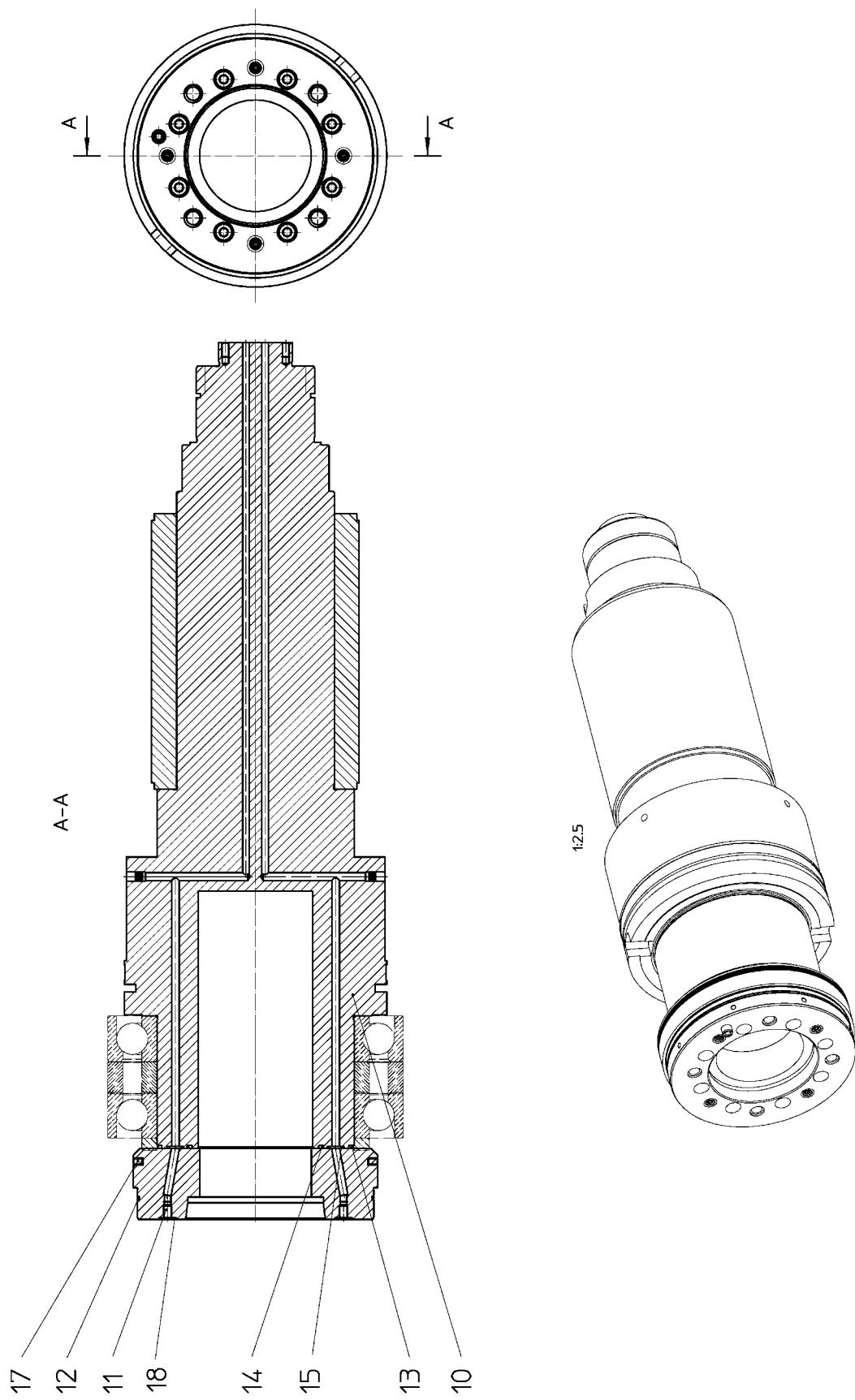


## SpeedViper 300 Axis foundation

Material no. 460533\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	343700A	BW fixation element RK2-F1		6	ST		
15	406957A	Extension LE for RK2 l=500 mm		2	ST		
16	406959A	Extension LE for RK2 l=830 mm		1	ST		
17	406960A	Extension LE for RK2 l=900 mm		1	ST		

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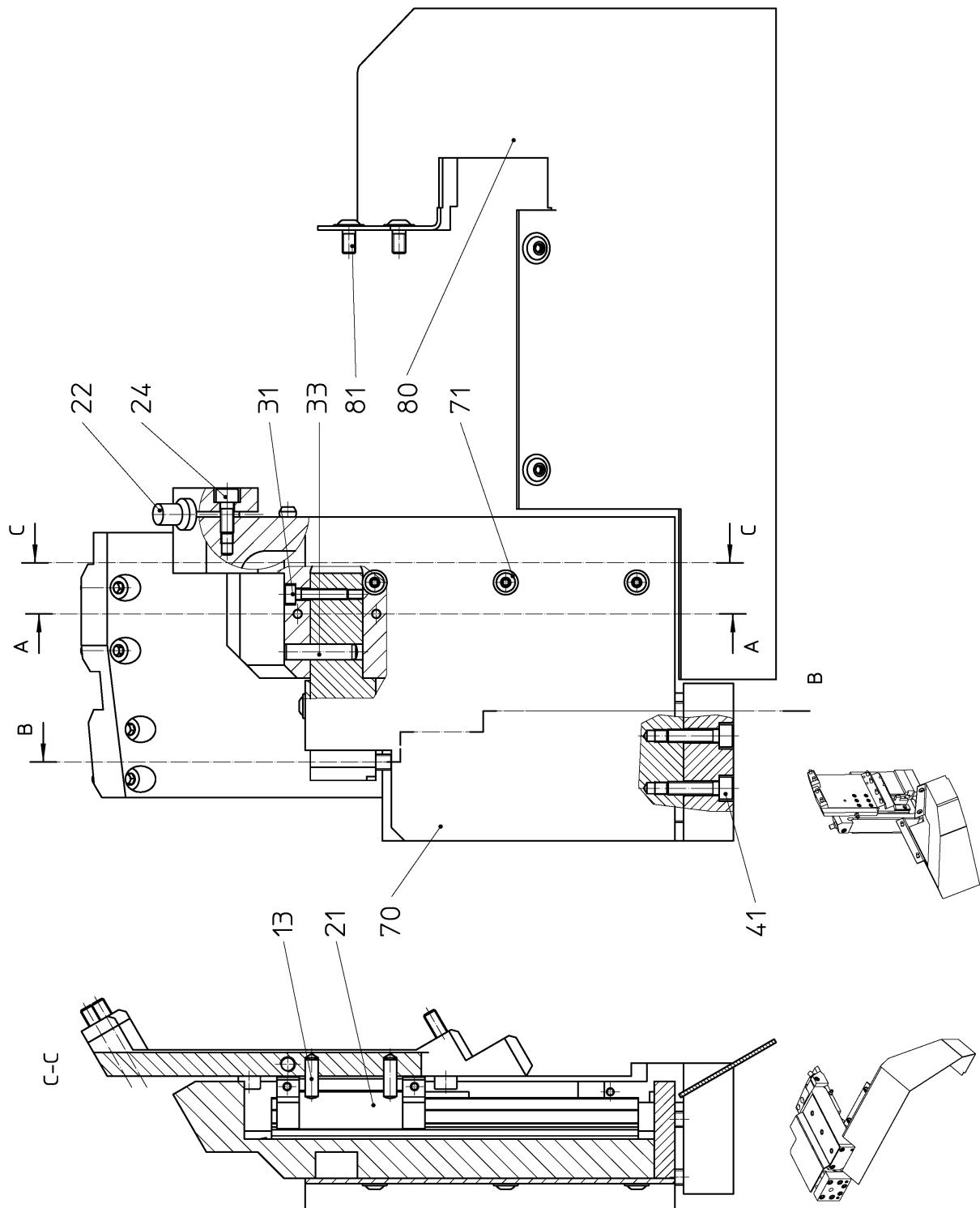


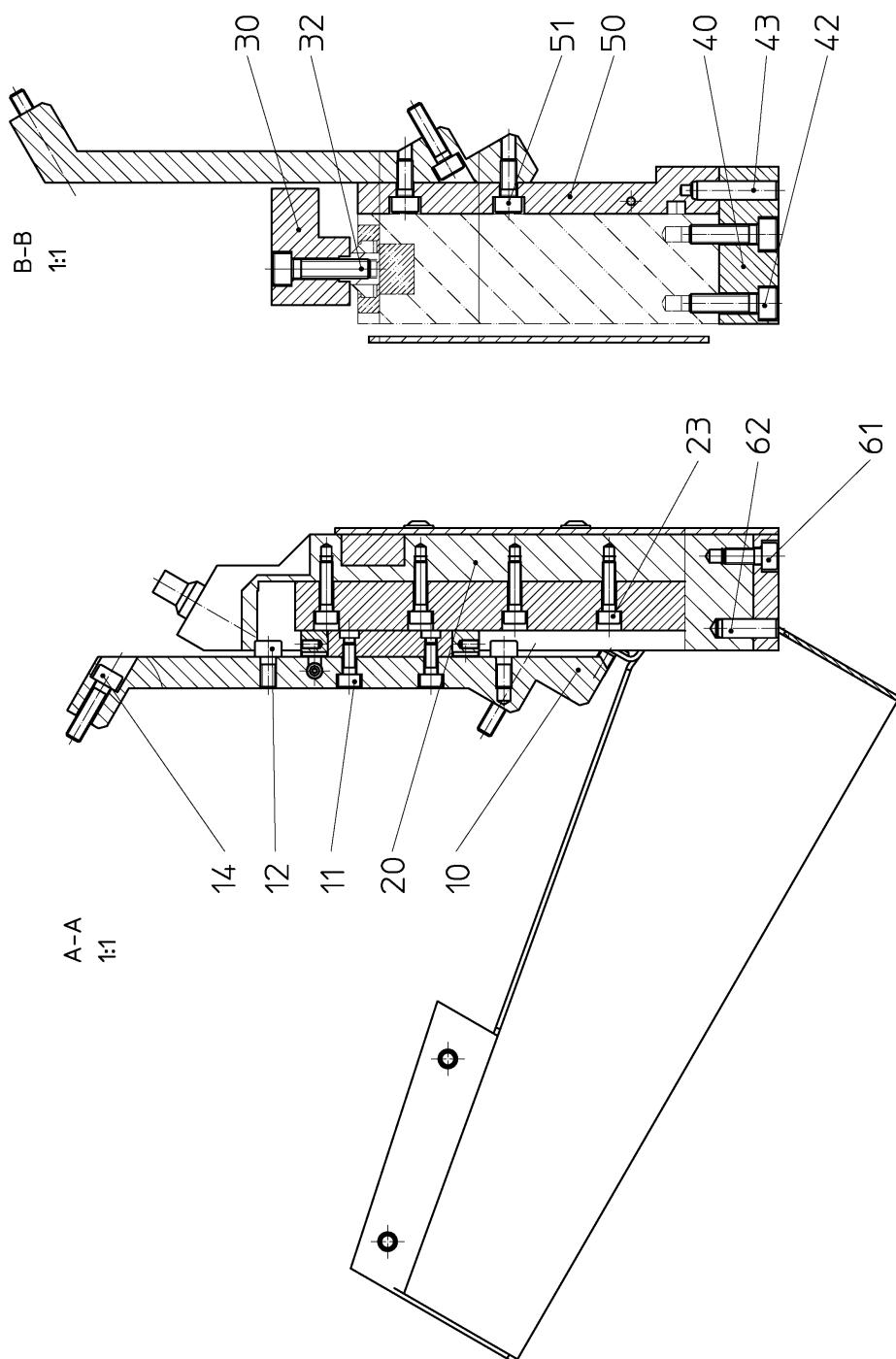


## SpeedViper 300 Spindle, complete

Material no. 484158\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	484321\$	Spindle, complete		1	ST		
11	050971A	Threaded pin M6x10 (quality 45H)		4	ST		
12	454058A	Sealing ring 175.00x2.00 (NBR 70)		1	ST		
13	074830A	Sealing ring 140.00x3.00 (NBR 70)		1	ST		
14	454060A	Sealing ring 96.00x3.00 (NBR 70)		1	ST		
15	075012A	O-ring 9.00x2.00 (NBR 70)		4	ST		
17	454061A	Laminar ring FK6 ASD 186		2	ST		
18	075012A	O-ring 9.00x2.00 (NBR 70)		4	ST		



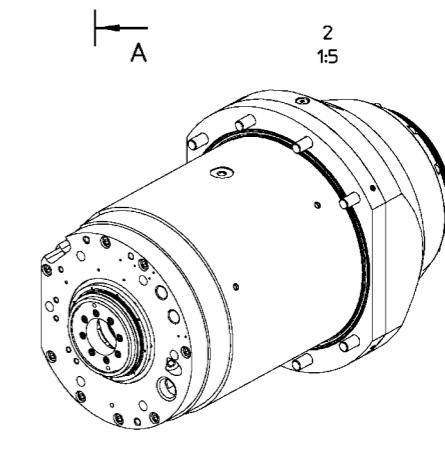
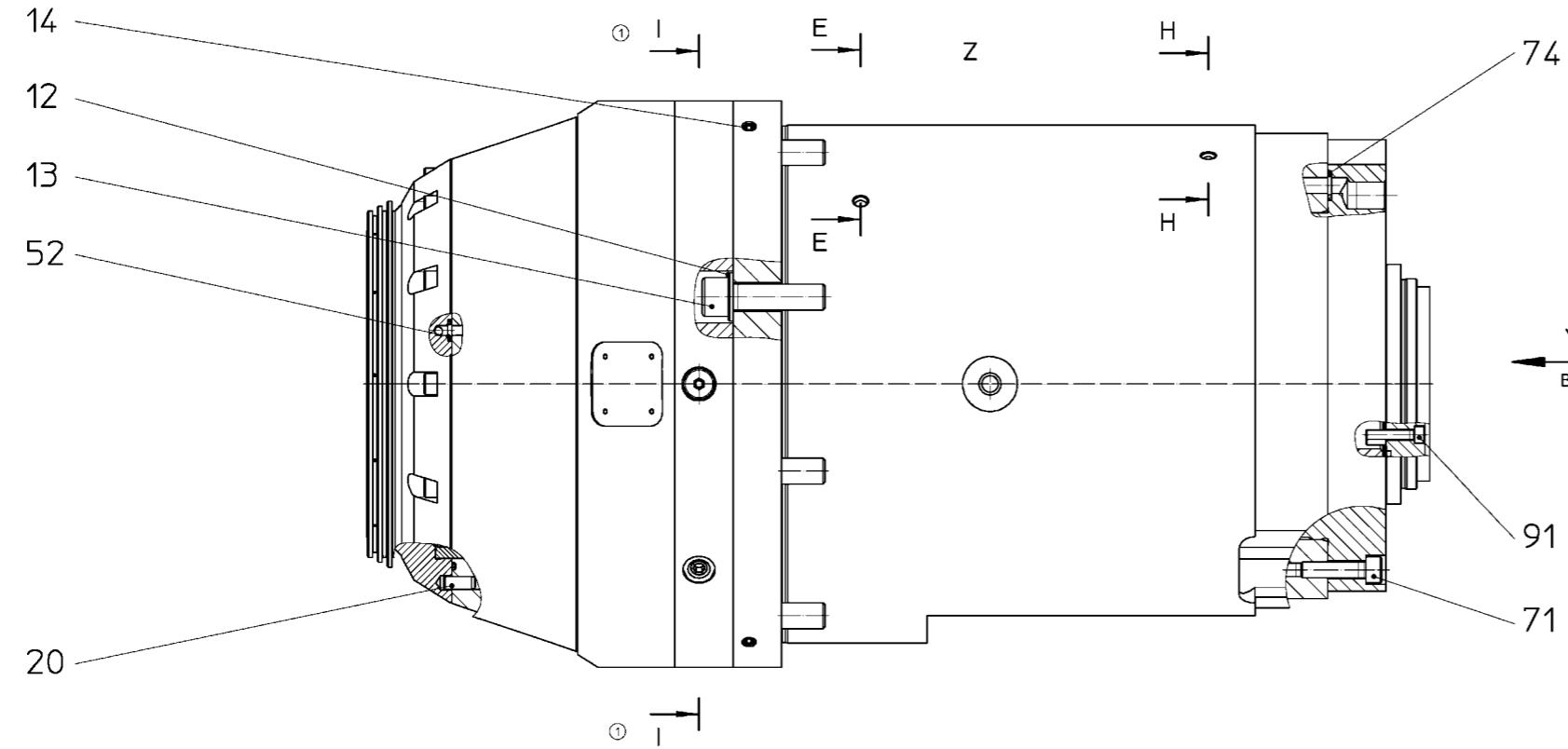
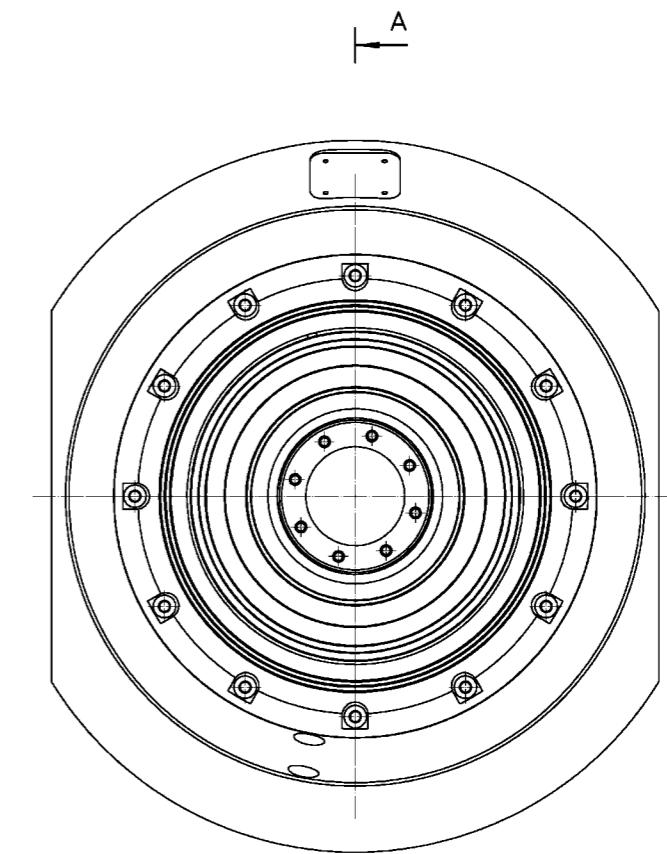
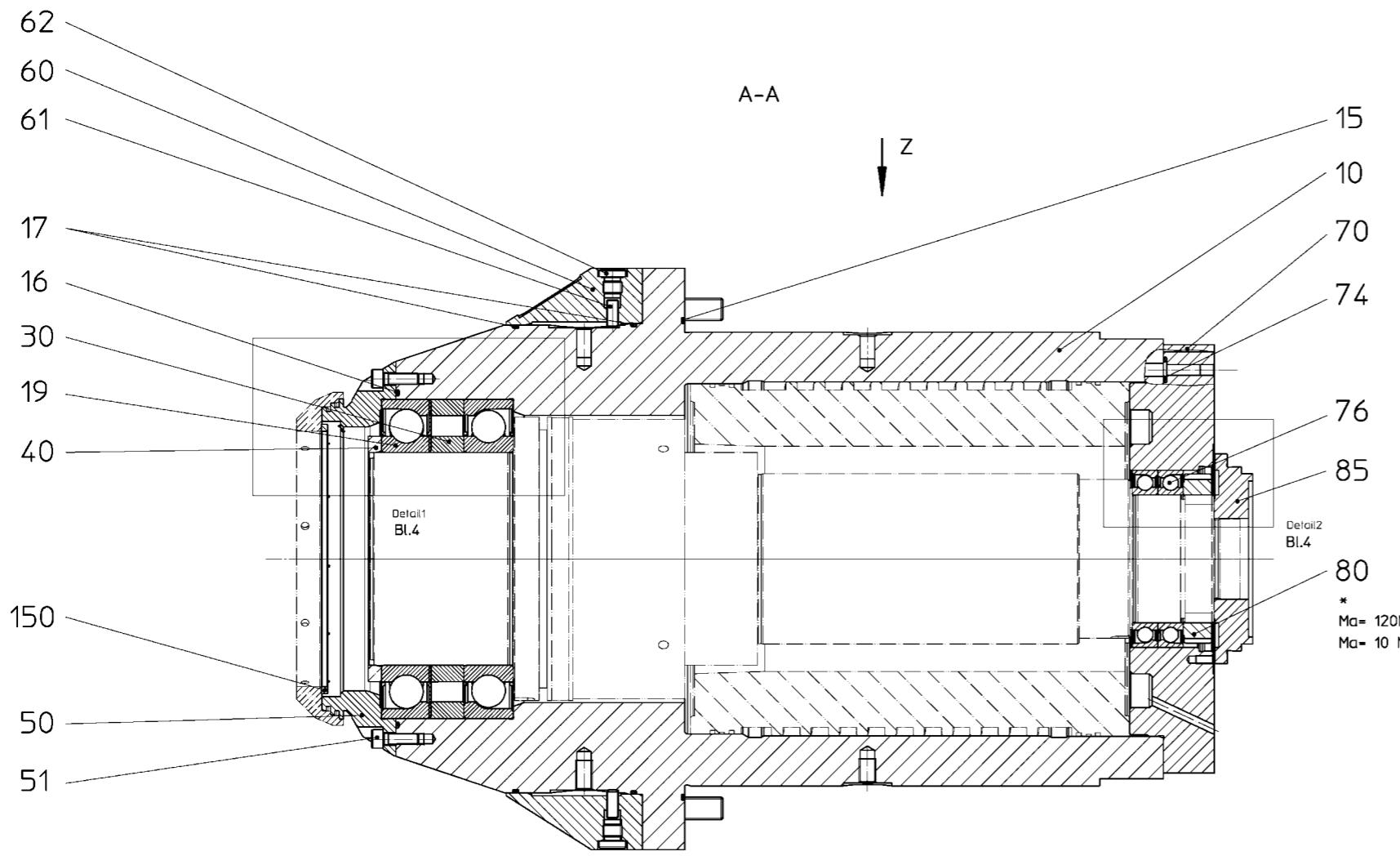




## SpeedViper 300 Headstock, tip dresser

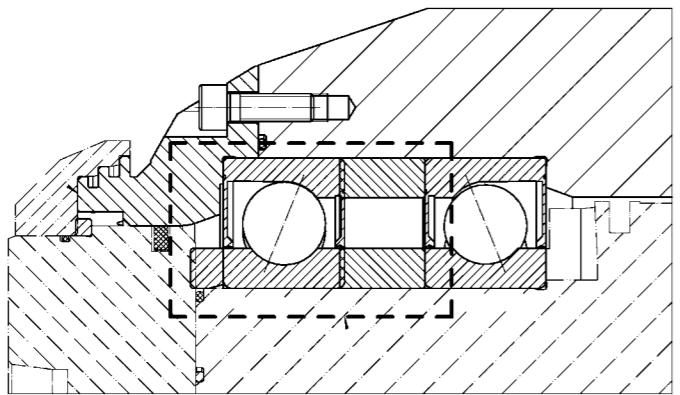
Material no. 484578\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	484581\$	Probe holder		1	ST		
11	144420A	Socket head screw M4x10		6	ST		
12	053888A	Socket head screw M5x10		2	ST		
13	051306A	Cylindrical pin 5 M6x14		2	ST		
14	077509A	Socket head screw M5x20		8	ST		
20	484583\$	Slide		1	ST		
21	461513A	Monorail cassette guide BM 15x140		1	ST		
22	461512A	Dressing stick		1	ST		
23	258980A	Socket head screw M4x16		5	ST		
24	053887A	Socket head screw M5x12		1	ST		
30	484584\$	Carrier		1	ST		
31	077504A	Socket head screw M4x20		1	ST		
32	050938A	Socket head screw M6x25		1	ST		
33	278836A	Cylindrical pin 6 M6x28		1	ST		
40	484585\$	Cylinder connection		1	ST		
41	077509A	Socket head screw M5x20		2	ST		
42	050938A	Socket head screw M6x25		4	ST		
43	278836A	Cylindrical pin 6 M6x28		2	ST		
50	484586\$	Cylinder plate		1	ST		
51	053887A	Socket head screw M5x12		4	ST		
60	484587\$	Cylinder cover		1	ST		
61	053887A	Socket head screw M5x12		2	ST		
62	278837A	Cylindrical pin 6 M6x20		1	ST		
70	473637A	Cover		1	ST		
71	280725A	Oval flange head screw M4x8 (strength class 10.9)		4	ST		
80	491391A	Cover sheet		1	ST		
81	466390A	Oval flange head screw M5x10		4	ST		

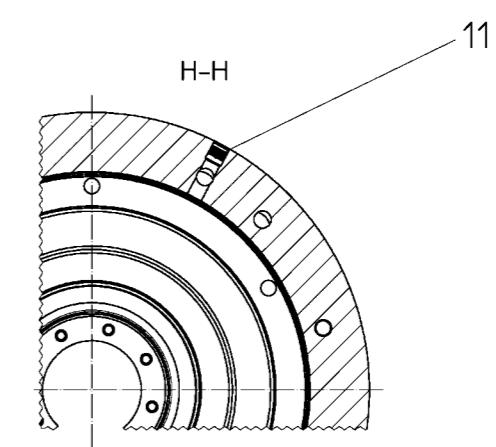
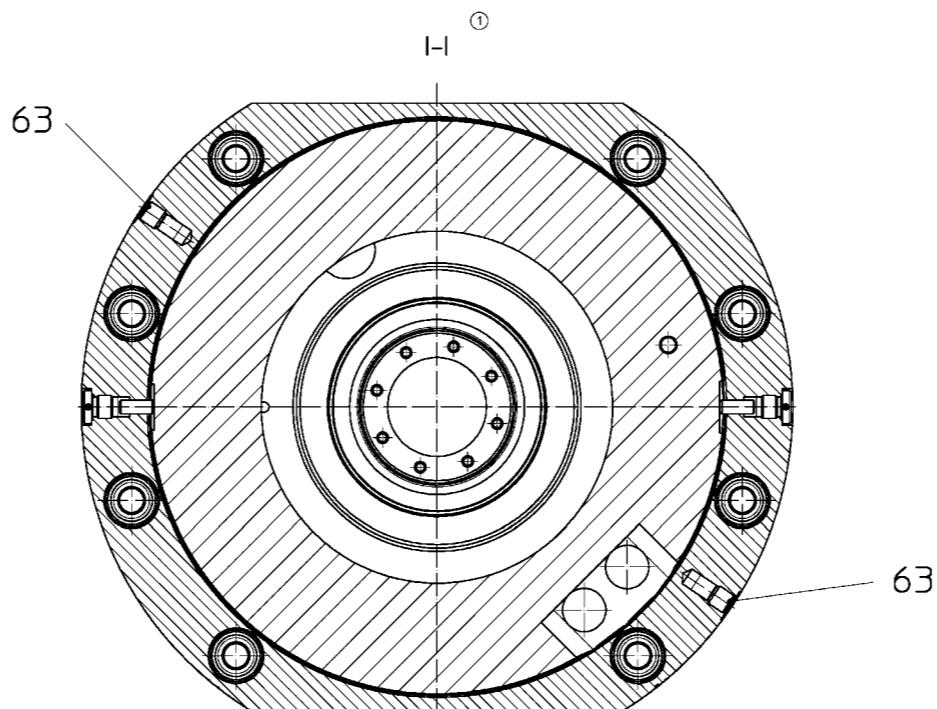
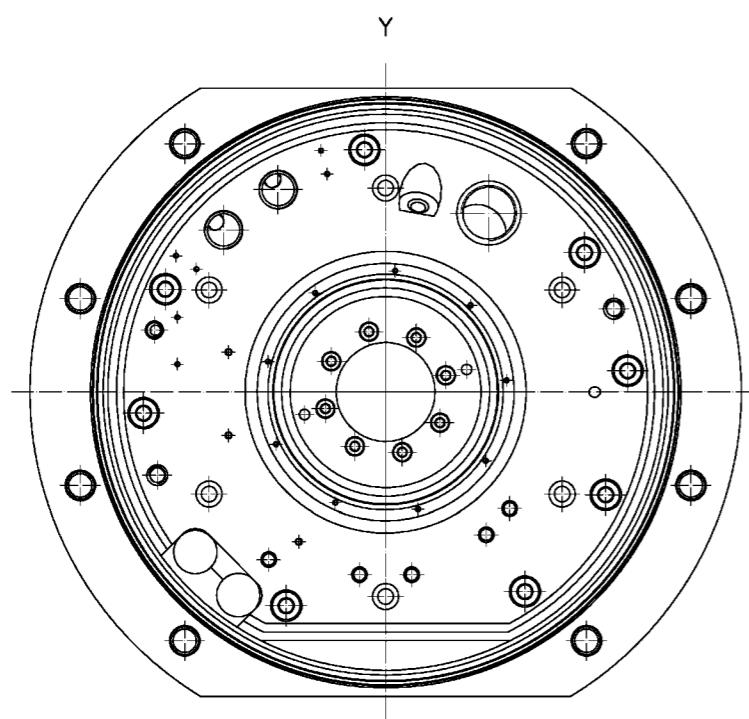
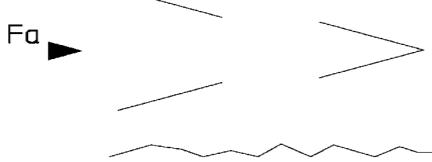
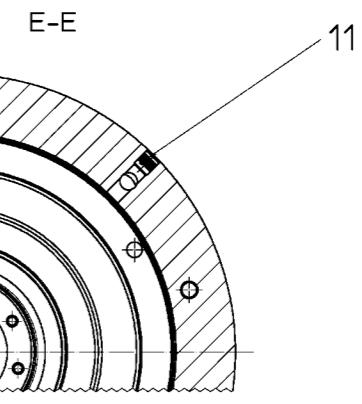
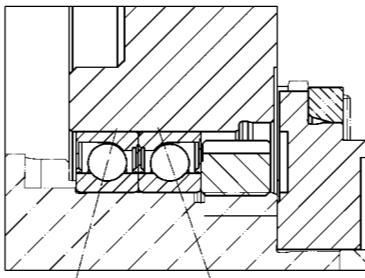


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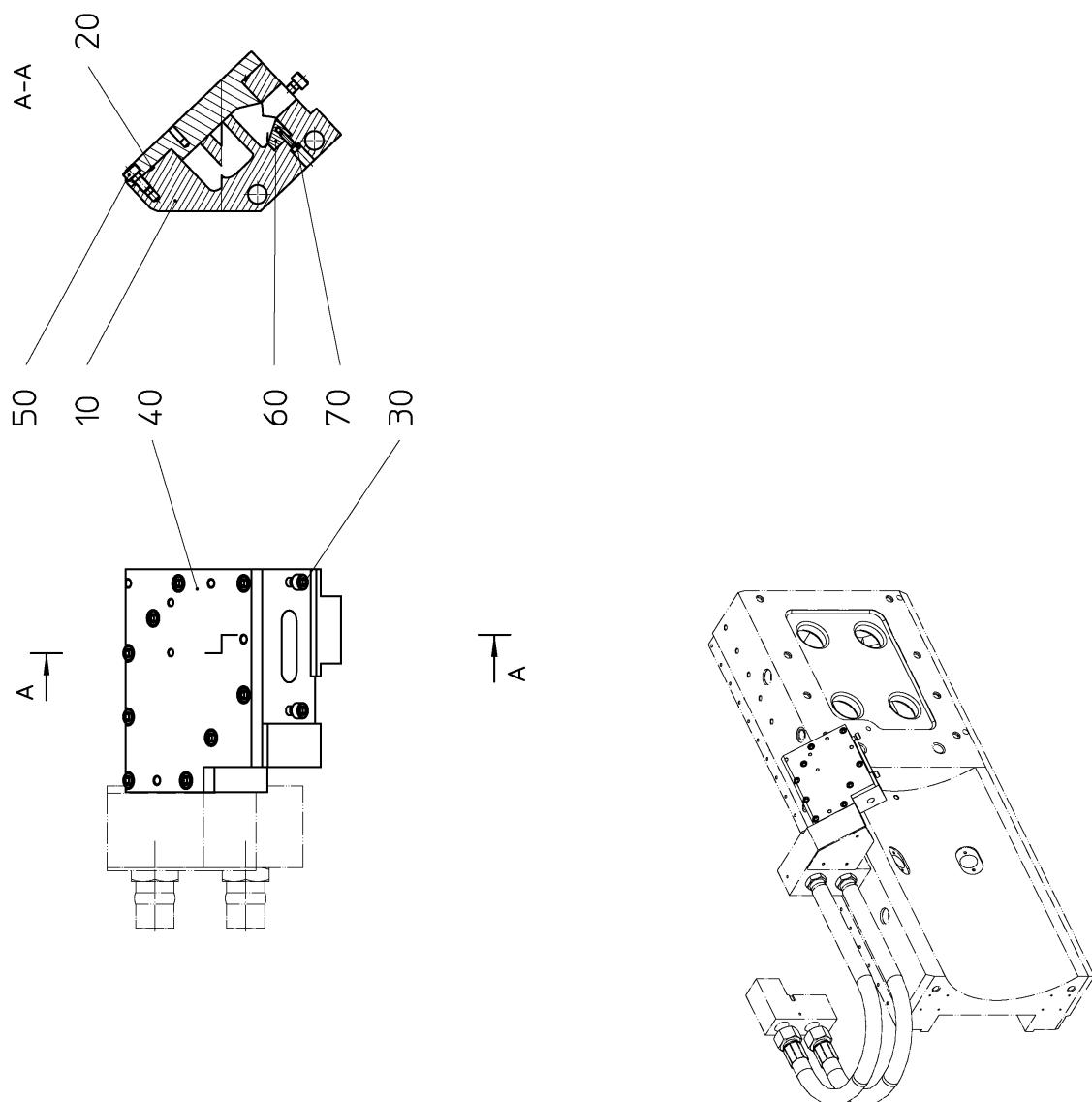
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## SpeedViper 300 C axis headstock

Material no. 484650\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	451734\$	Housing C axis		1	ST		
11	333812A	Expander 10.0		2	ST		
12	051150A	Plain washer B17 (steel)		8	ST		
13	077582A	Socket head screw M16x60		8	ST		
14	050978A	Threaded pin M8x12 (quality 45H)		4	ST		
15	454050A	Sealing ring 332.00x3.00 (NBR 70)		1	ST		
16	454051A	Sealing ring 230.00x3.00 (NBR 70)		1	ST		
17	376590A	O-ring 320.00x3.00 (NBR 70)		2	ST		
19	454056A-7	Ball bearing S7030 ACD/DGB VQ6485		1	SA		
20	259241A	Cylindrical pin 8 M6x20		1	ST		
30	451732\$	Spacer set		1	ST		
40	451731\$	Fixed bearing gage ring		1	ST		
50	451733\$	Labyrinth cover		1	ST		
51	050628A	Socket head screw M8x25		12	ST		
52	074682A	Sealing ring 7.00x3.00 (NBR 70)		1	ST		
60	451728\$	Housing cover		1	ST		
61	050981A	Threaded pin M8x20 (quality 45H)		2	ST		
62	147365A	Locking screw VSTI R1/4 IN-ED CF		2	ST		
70	484159\$	Floating bearing flange		1	ST		
71	077526A	Socket head screw M10x40		8	ST		
74	074693A	Sealing ring 12.00x3.00 (NBR 70)		3	ST		
76	454057A-7	Ball bearing S71918 CD DGB VQ6485		1	SA		
80	454437A	Adjusting nut, MRR 90x2		1	ST		
85	7003070\$	Flange, measurement system		1	ST		
91	050939A	Socket head screw M6x30		8	ST		
150	456958\$	Gauge ring		1	ST		



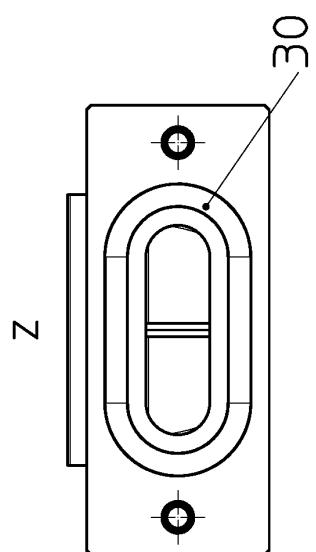
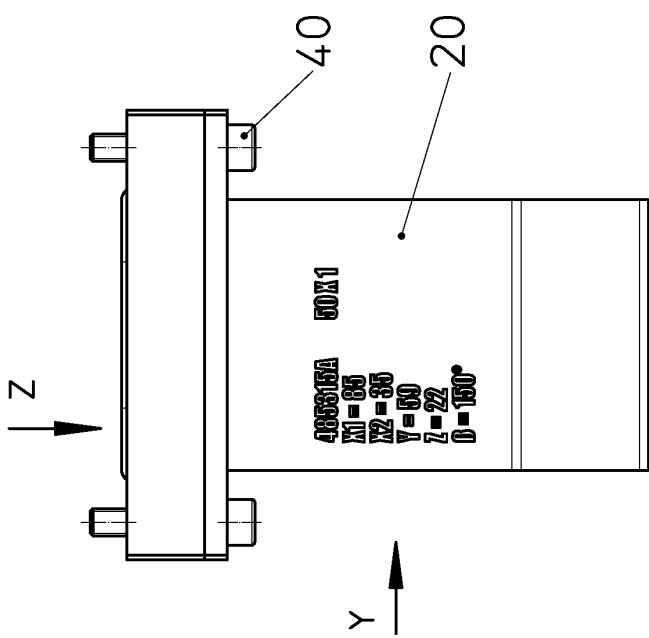
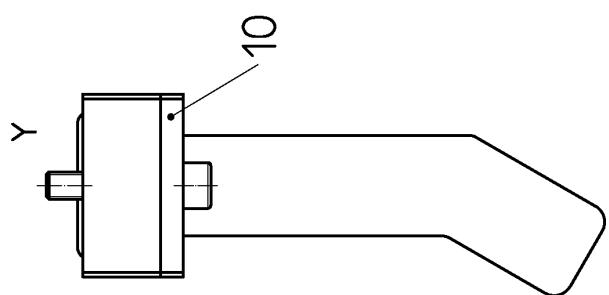
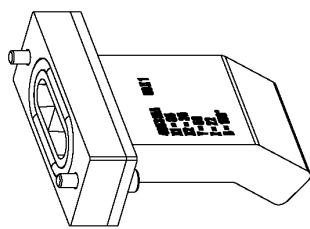


## SpeedViper 300 Simplified nozzle interface

Material no. 486134\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	486135\$	Interface		1	ST		
20	7808594A	Sealing ring 105,00x1,50		1	ST		
30	050665A	Socket head screw M6x16		2	ST		
40	486136\$	Interface cover		1	ST		
50	050936A	Socket head screw M6x12		9	ST		
60	486137\$	Interface gradient		1	ST		
70	250124A	Socket head screw M3x12		2	ST		

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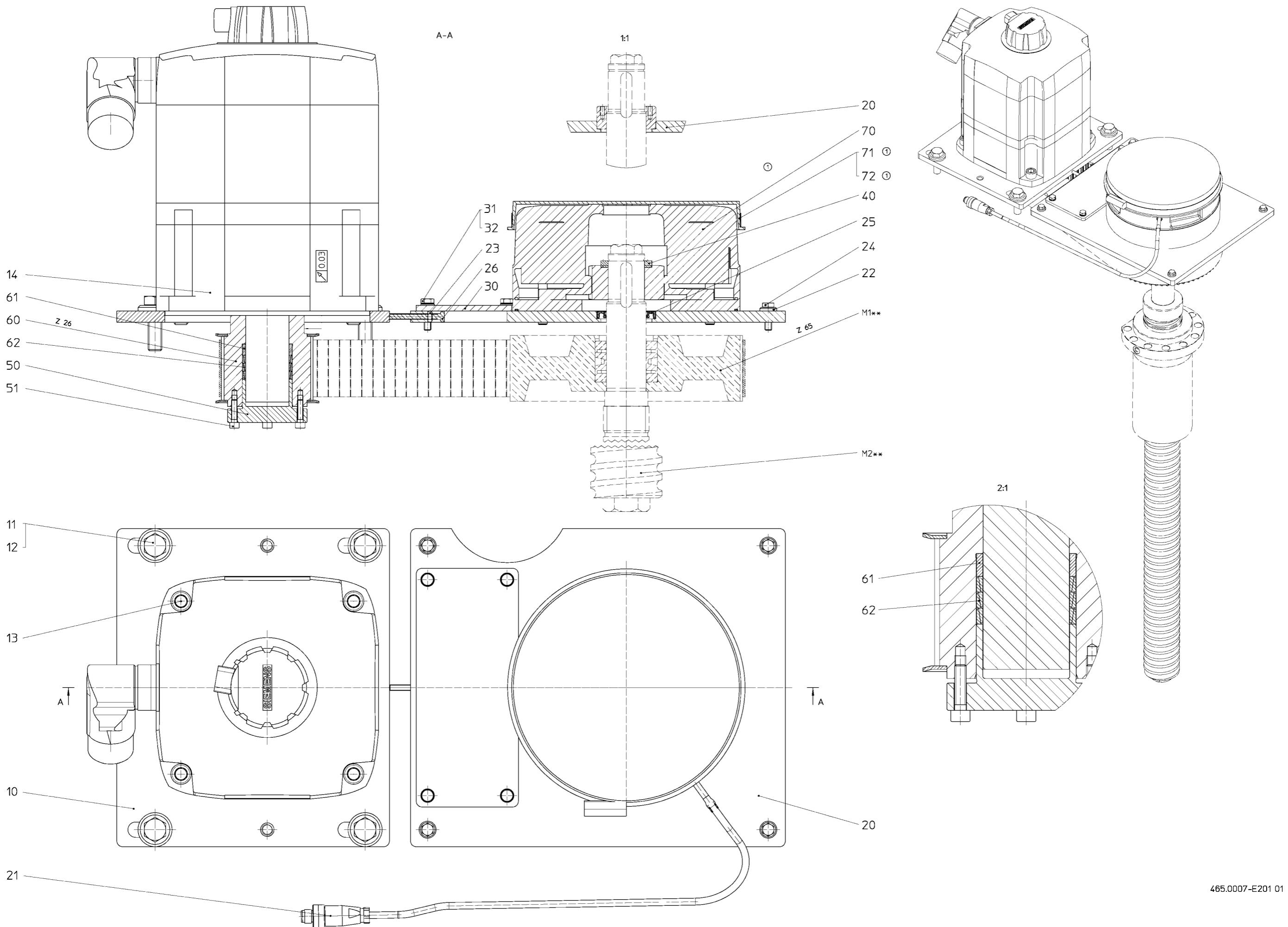




## SpeedViper 300 Test nozzle 3D print 50x1

Material no. 486211\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	485318A	Reinforcement plate		1	ST		
20	485315A	Nozzle slot 50x1		1	ST		
30	7837102A	O-ring 40.46x5.33 (NBR 70)		1	ST		
40	050939A	Socket head screw M6x30		2	ST		



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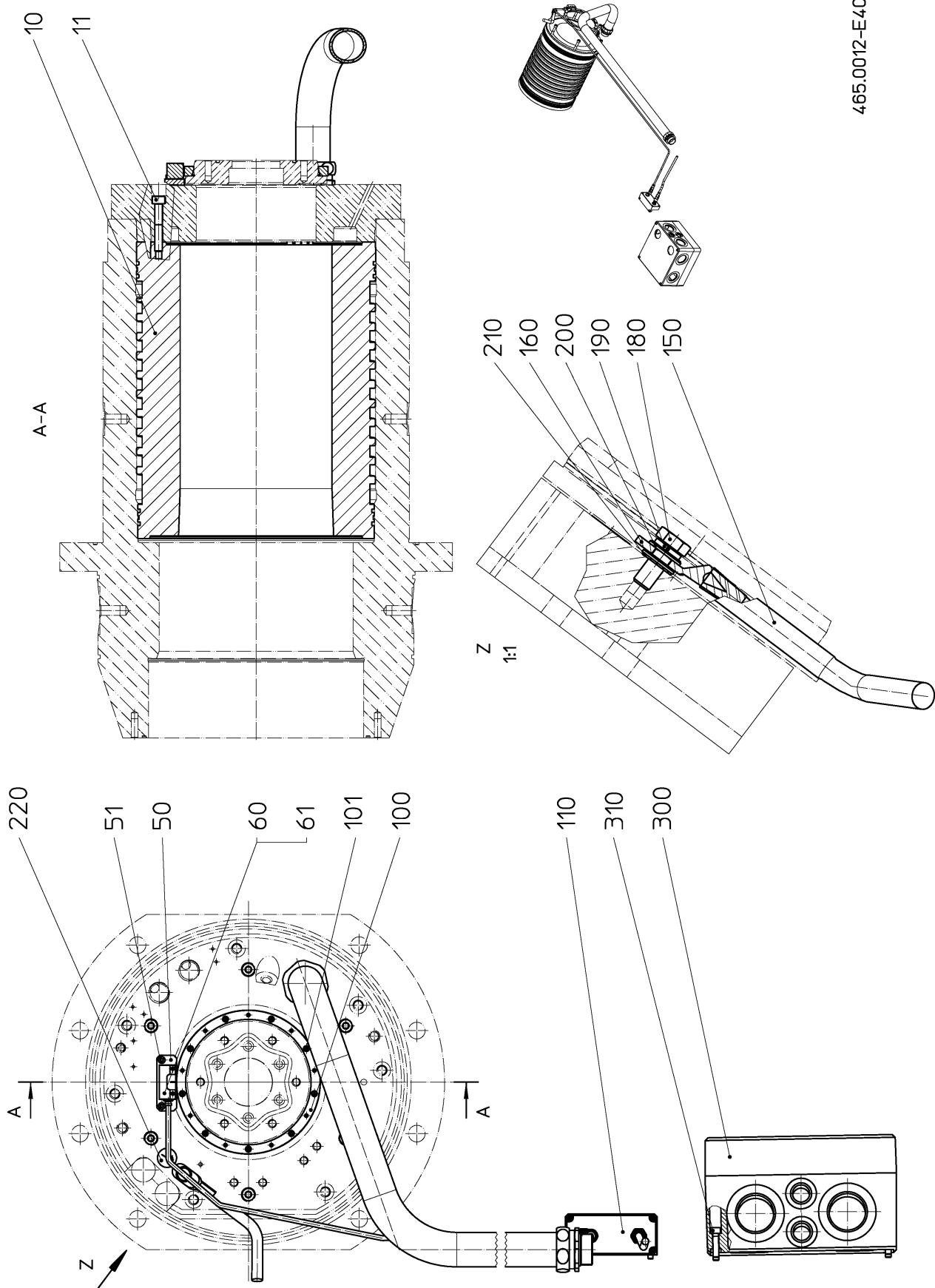


## SpeedViper 300 Z axis, electrical parts, drive

Material no. 486322\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	451755\$	Motor plate		1	ST		
11	054304A	Plain washer 30x13x5 KN 311 (structural steel with 50N/mm <sup>2</sup> strength)		4	ST		
12	050735A	Hexagon screw M12x40 (strength class 8.8)		4	ST		
13	095566A	Socket head screw M12x25		4	ST		
14	448727A	Servomotor 1FT7102-1AC71-1CH1		1	ST		
20	486323\$	Plate for brake		1	ST		
21	350833A	Plug-in connector M12 straight 6-8 mm 5-pin 12761		1	ST		
22	063022A	Plain washer 15x6.4x3 KN 311 (structural steel with 50N/mm <sup>2</sup> strength)		4	ST		
23	051177A	Hexagon nut M5 (strength class 8)		1	ST		
24	050704A	Hexagon screw M6x20 (strength class 8.8)		4	ST		
25	454085A	Sealing ring AS 35x52x7 (NBR)		1	ST		
26	131765A	Hexagon screw M5x45 (strength class 8.8)		1	ST		
30	486324\$	Lid, belt tension		1	ST		
31	051146A	Plain washer B6,4 (steel)		4	ST		
32	078435A	Hexagon head screw M6X12 (strength class 8.8)		4	ST		
40	455049\$	Spacer ring		1	ST		
50	451721\$	Thrust sleeve		1	ST		
51	077509A	Socket head screw M5x20		4	ST		
60	451722\$	Toothed belt pulley AT10 Z26		1	ST		
61	311190A	Spacer sleeve DB 38 ø38.2/43.8x10		1	ST		
62	311189A	Clamping element 38x44x7 (polished steel)		3	ST		
70	7837258A	Safety brake		1	ST		
71	468218A	Tapered closure GPN 600 B1990		1	ST		
72	375631A	Hose clamps 180-200x12		1	ST		
9980	314755A	Identification code holder km 9/20		1	ST		
9990	314754A	ACS component location designation KSO 20x9L		1	ST		
9999	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		

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## SpeedViper 300 Electrical parts, C axis

Material no. 486528\$

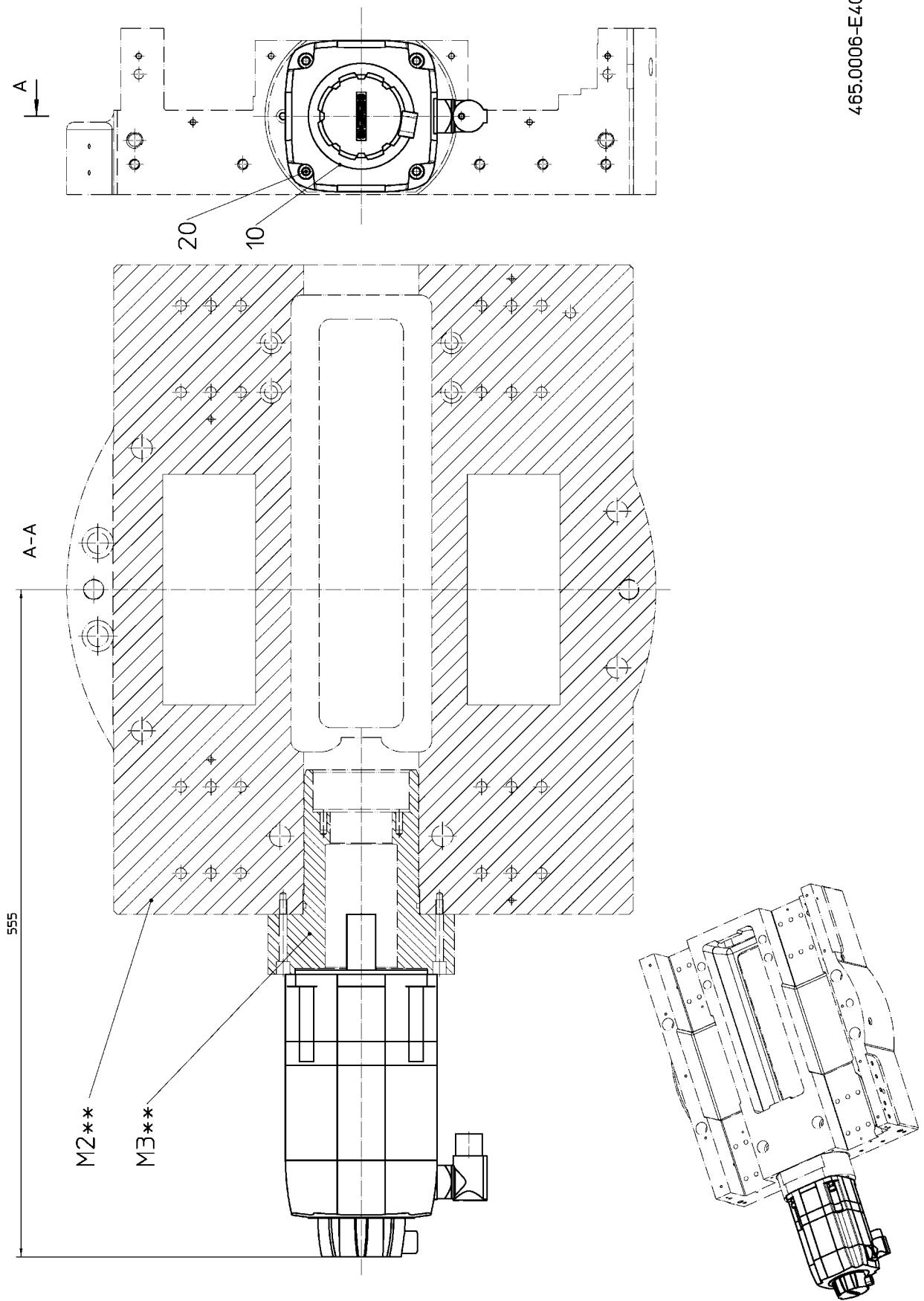
Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	480513A	Stator		1	ST		
11	050943A	Socket head screw M8x50		6	ST		
50	486531\$	Holder reader head		1	ST		
51	144420A	Socket head screw M4x10		2	ST		
60	448873A	Scanning head		1	ST		
61	303210A	Socket head screw M3x14 (strength class 12.9)		2	ST		
100	448562A	Grating drum		1	ST		
101	250124A	Socket head screw M3x12		9	ST		
110	448872A	Single Interface DRIVE-CLiQ		1	ST		
120	301611A	Power cable 4x10 mm <sup>2</sup>		3000	MM		
130	483008A	Signal cable		3,5	M		
150	391381A	PE line 1 G 25,0 CFPE.250.01		3000	MM		
160	287136A	Cable lug 25 mm <sup>2</sup> /M 8 for fine wire		1	ST		
170	331518A	Ferrule 25.0 / 22 yellow		1	ST		
180	144071A	Hexagon screw M8x20 (strength class 8.8 / galvanized)		1	ST		
190	144081A	Spring-loaded ring A 8 (spring steel, zinc-plated)		1	ST		
200	144078A	Plain washer B8.4 (steel, zinc-plated)		2	ST		
210	144082A	Serrated washer A 8.4 (steel, zinc-plated)		1	ST		
220	097623A	Conductor symbol Earth sign		1	ST		
300	369384A	Terminal box AS 200 (edited)		1	ST		
310	050938A	Socket head screw M6x25		4	ST		
320	103488A	Sign WS1-2-100-KF-DRU		1	ST		
330	267147A	Terminal block WDU 16 beige		3	ST		
340	267149A	Terminal block WPE 16		2	ST		
350	281112A	Rail mounted terminal WDU 2.5 beige		8	ST		
360	255643A	End plate WAP 2.5-10 1050000000		2	ST		
370	281114A	Rail mounted terminal WPE 2.5 1010000000		2	ST		
380	281115A	Cross connection WQV 2.5/ 2		1	ST		
390	286226A	Wire-end sleeve, 16.0/12 blue		7	ST		
400	141339A	Ferrule 0.5 / 8 white		6	ST		
410	141338A	Ferrule 1.0 / 8 red		1	ST		
420	291288A	Wire-end sleeve, yellow		6	ST		



## SpeedViper 300 Electrical parts, C axis

Material no. 486528\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
430	095757A	Ring cable lug A 1553 R		1	ST		
440	095755A	Ring cable lug A 1585 R		1	ST		
450	258075A	Rubber grommet H50x25BK Ø 5,00 -9,00 mm		1	ST		
460	163201A	PVC single-core cable, H07V-K 1,5 mm <sup>2</sup> , green-yellow		800	MM		
470	289361A	Oval flange head screw M5x12 (strength class 10.9)		1	ST		
480	270366A	Spring-loaded ring A 5 (spring steel, zinc-plated)		1	ST		
490	270365A	Plain washer A5.3 (steel)		2	ST		
500	274326A	Serrated washer A 5.3 (steel, zinc-plated)		1	ST		
510	391380A	PE line 1G 16.0		800	MM		
520	144071A	Hexagon screw M8x20 (strength class 8.8 / galvanized)		1	ST		
530	144081A	Spring-loaded ring A 8 (spring steel, zinc-plated)		1	ST		
540	144078A	Plain washer B8.4 (steel, zinc-plated)		2	ST		
550	144082A	Serrated washer A 8.4 (steel, zinc-plated)		1	ST		
560	097623A	Conductor symbol Earth sign		1	ST		
570	262171A	Cable lug 16 mm <sup>2</sup> /m 8		1	ST		
580	286226A	Wire-end sleeve, 16.0/12 blue		1	ST		
590	364252A	Cable gland, TOP T-S-EMV M40x1.5 19-27 mm		1	ST		
600	362242A	M40X1.5/M32X1.5 reduction		1	ST		
610	391163A	Cable gland TOP-T M20x1.5 8 - 13 mm		2	ST		
620	336724A	Plug M40x1.5 polyamide		8	ST		
630	390176A	Butt connector 10 mm <sup>2</sup>		3	ST		
640	448234A	Shrink-fit hose		500	MM		
650	392502A	31x36 armored hose (M32/PG29)		2000	MM		
660	392503A	M32X1.5 USM hose connection with bushing		2	ST		
900	484511\$	Set of signs		1	ST		

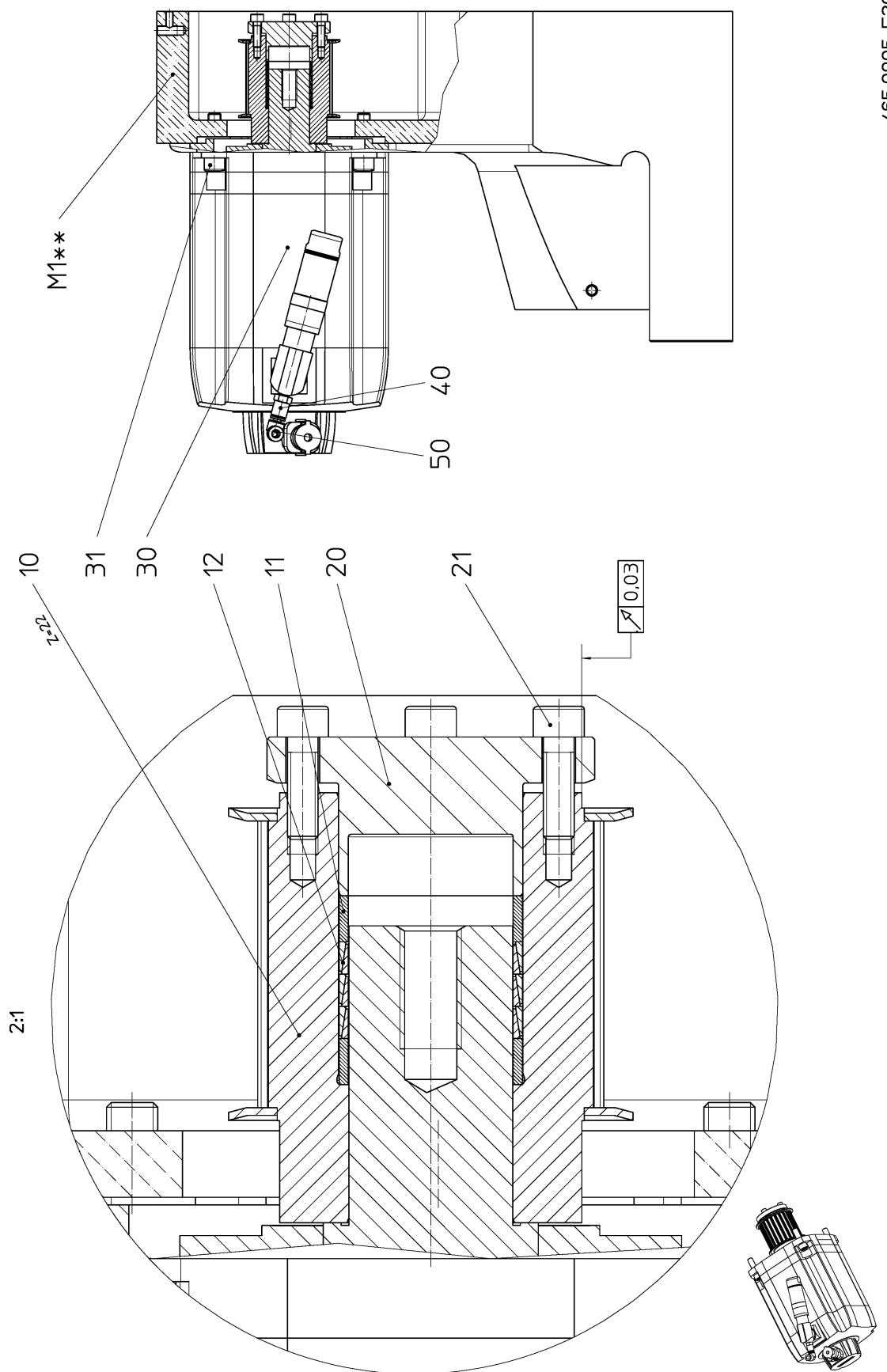




## SpeedViper 300 Y axis, electrical parts, drive

Material no. 486633\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	466296A	Synchronous motor		1	ST		
20	050628A	Socket head screw M8x25		4	ST		



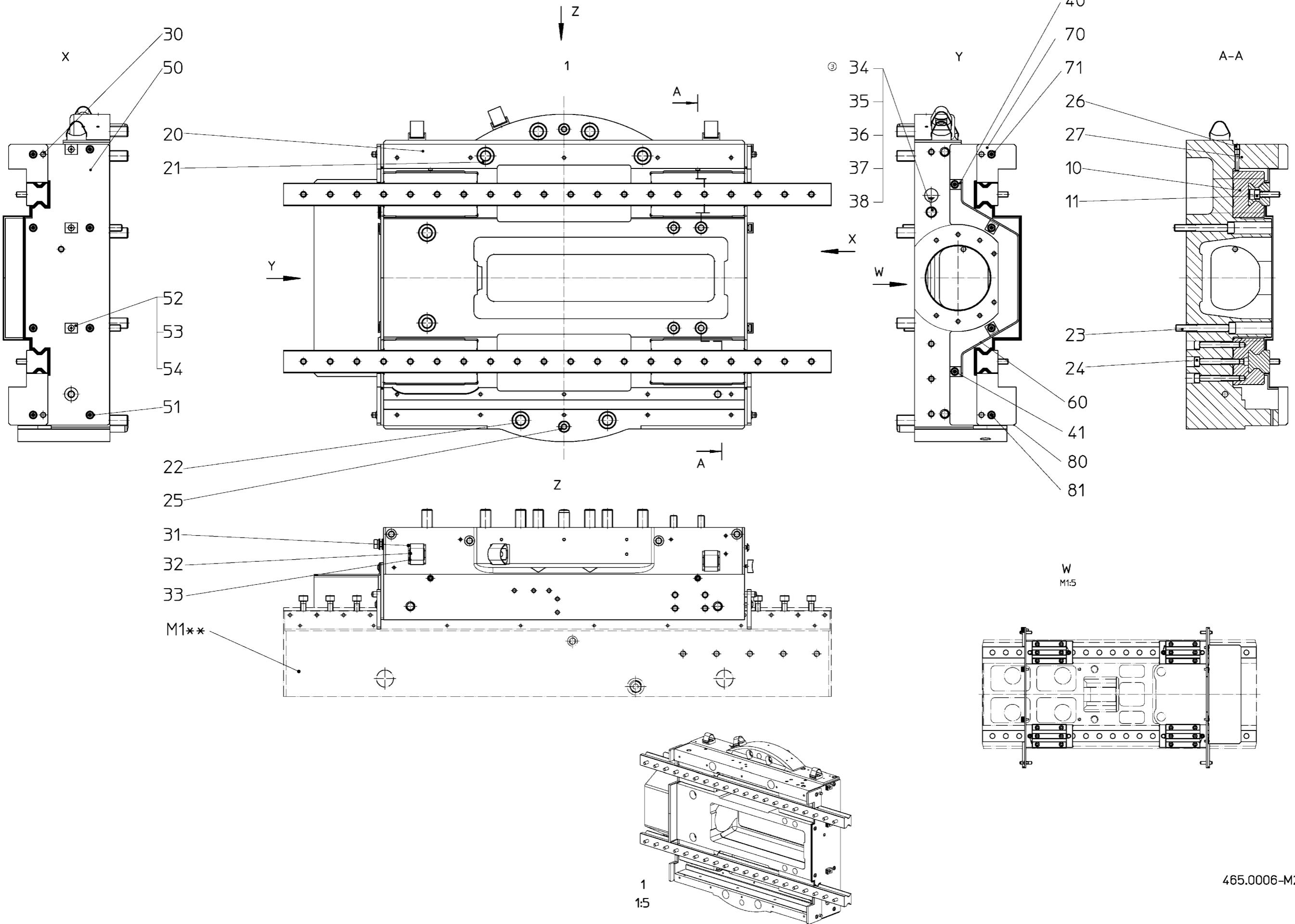


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## SpeedViper 300 X axis, electrical parts, drive

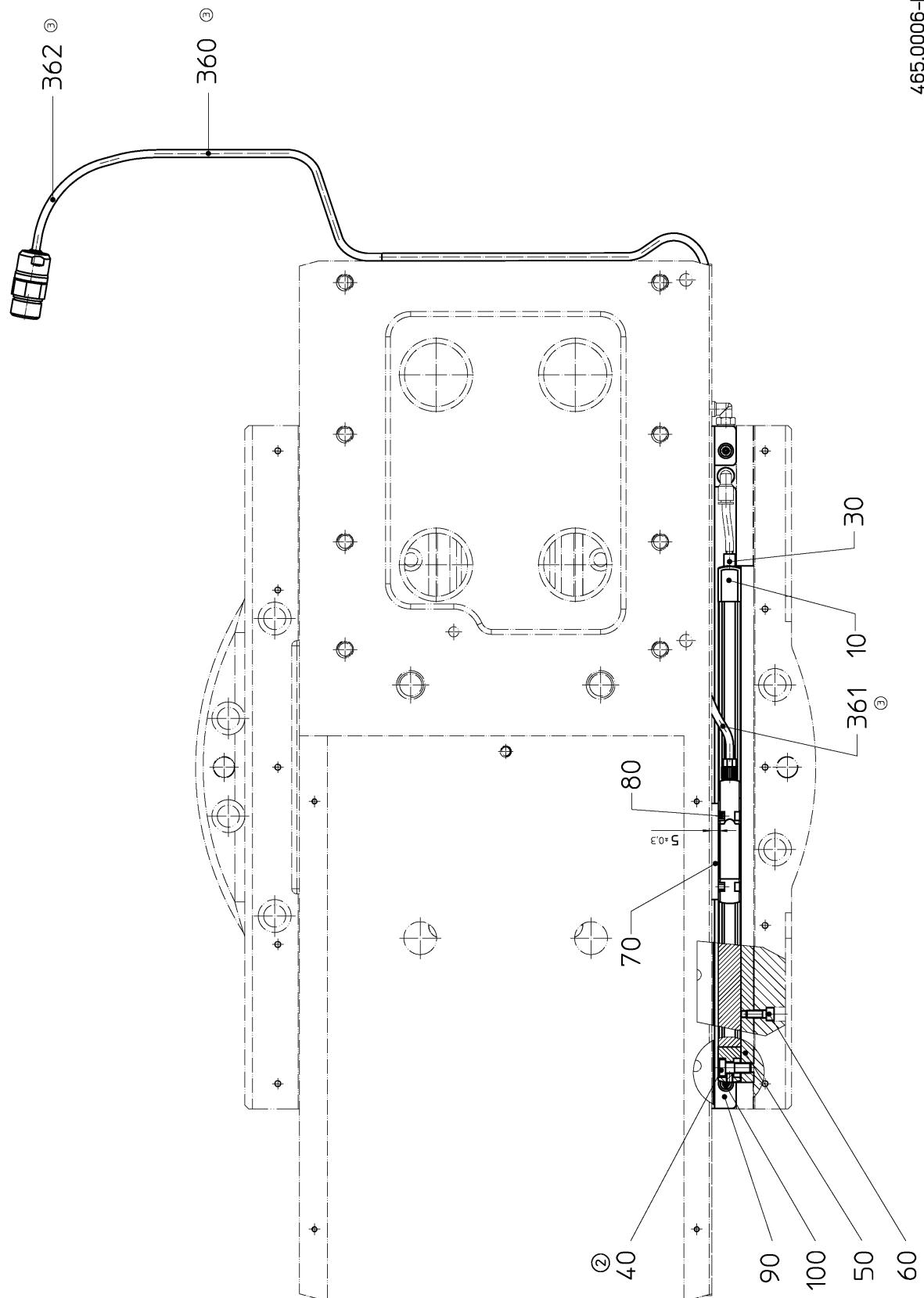
Material no. 486635\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	440920\$	Toothed belt pulley		1	ST		
11	299419A	Spacer sleeve DB 32 ø32.2/35.8x9		2	ST		
12	068102A	Clamping element 32x36x6.3 (steel)		3	ST		
20	376803A	Pressure flange		1	ST		
21	050937A	Socket head screw M6x20		4	ST		
30	7837430A	Servomotor		1	ST		
31	002300A	Socket head screw M10x35 (strength class 12.9)		4	ST		
40	700759A	Push-in fitting QS-F-M5-6		1	ST		
50	356939A	L-push-in fitting NPQM-L-Q6-S6-P10		3	ST		





Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	466425A	Monorail guide MR 35x820		1	SA		
11	050942A	Socket head screw M8x30		40	ST		
12	320245A	Socket head screw M3x25		4	ST		
20	451699\$	Shift bed		1	ST		
21	311880A	Socket head screw M16x120		6	ST		
22	077582A	Socket head screw M16x60		2	ST		
23	077530A	Socket head screw M10x80		4	ST		
24	140024A	Socket head screw M8x60		24	ST		
25	404921A	Cylindrical pin 16 M6x50 -D (steel)		2	ST		
26	050976A	Threaded pin M8x8 (quality 45H)		2	ST		
27	078584A	Threaded pin M6x25 (quality 45H)		2	ST		
30	051388A	Cylindrical pin 8 M6x36		4	ST		
31	356331A	Hook and loop fastener base KBS 8-35		3	ST		
32	461546A	Hook and loop fastener strap 20mm		600	MM		
33	259503A	Countersunk head screw M4x8 (strength class 8.8)		3	ST		
40	452255A	Wiper, left side		1	ST		
41	289361A	Oval flange head screw M5x12 (strength class 10.9)		5	ST		
50	487774A	Scraper, right side		1	ST		
51	289361A	Oval flange head screw M5x12 (strength class 10.9)		7	ST		
52	356330A	Hook and loop fastener base KBS 4-20		3	ST		
53	461537A	Hook and loop fastener strap 7.5mm		240	MM		
54	291507A	Countersunk screw M4x6 (strength class 8.8)		3	ST		
60	472857A	Guard plate, motor Y Axis		1	ST		
70	489532\$	Brass scraper		2	ST		
71	461554A	Oval flange head screw M5x20 (strength class 10.9, black)		2	ST		
80	489546\$	Brass scraper		2	ST		
81	461554A	Oval flange head screw M5x20 (strength class 10.9, black)		2	ST		



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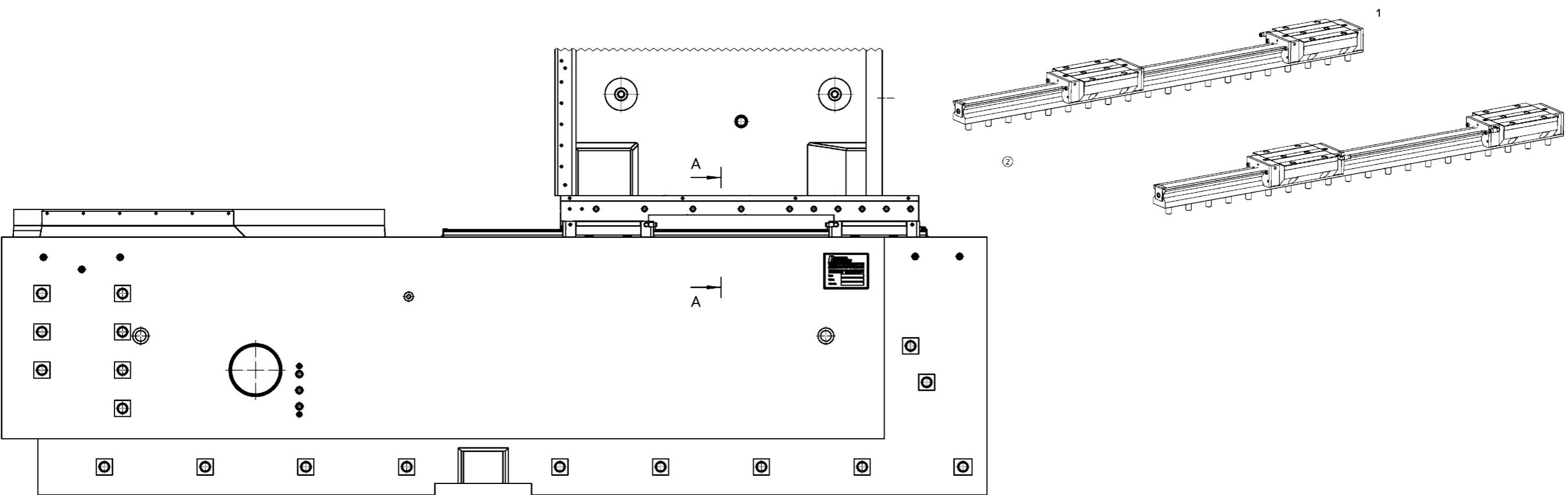
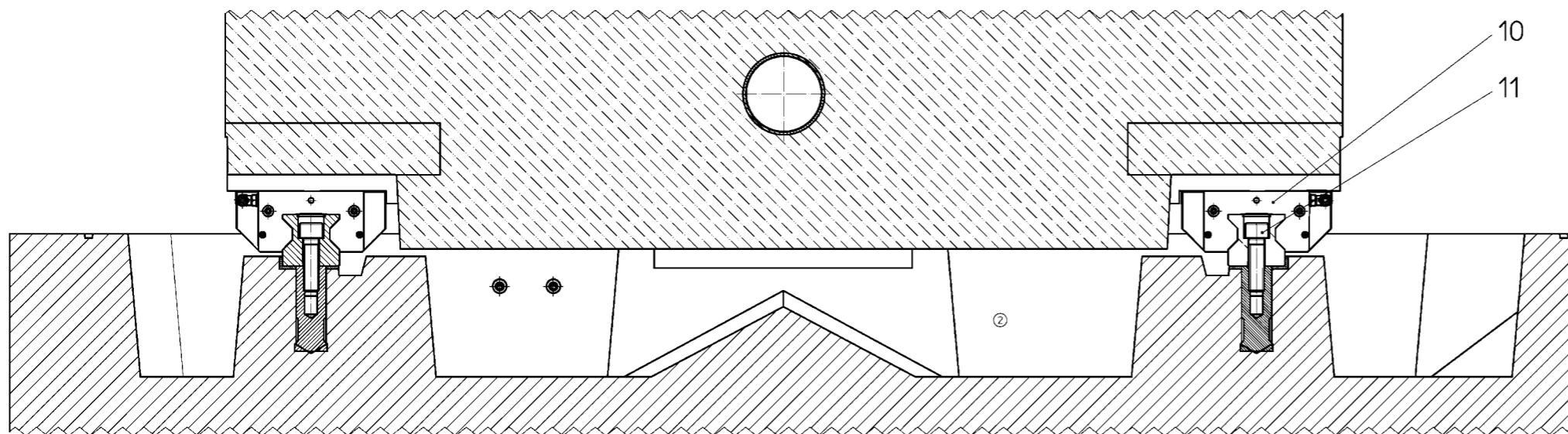


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SpeedViper 300 Y axis, electrical parts, measuring  
system  
Material no. 488531\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	448254A	Length measuring system		1	ST		
30	7814355A	Connecting piece with choke		1	ST		
40	050892A	Socket head screw M8x20 (strength class 10.9)		2	ST		
50	7003122\$	Spacer bar		1	ST		
60	050665A	Socket head screw M6x16		3	ST		
70	7400361\$	Balance bar		1	ST		
80	077505A	Socket head screw M4x25		2	ST		
90	452264A	Protective plate		1	ST		
100	340430A	Oval flange head screw M5x8 (strength class 10.9, zinc-plated)		5	ST		
110	700575A	Adapter cable		1	ST		
120	7014076\$	Set of signs		1	ST		

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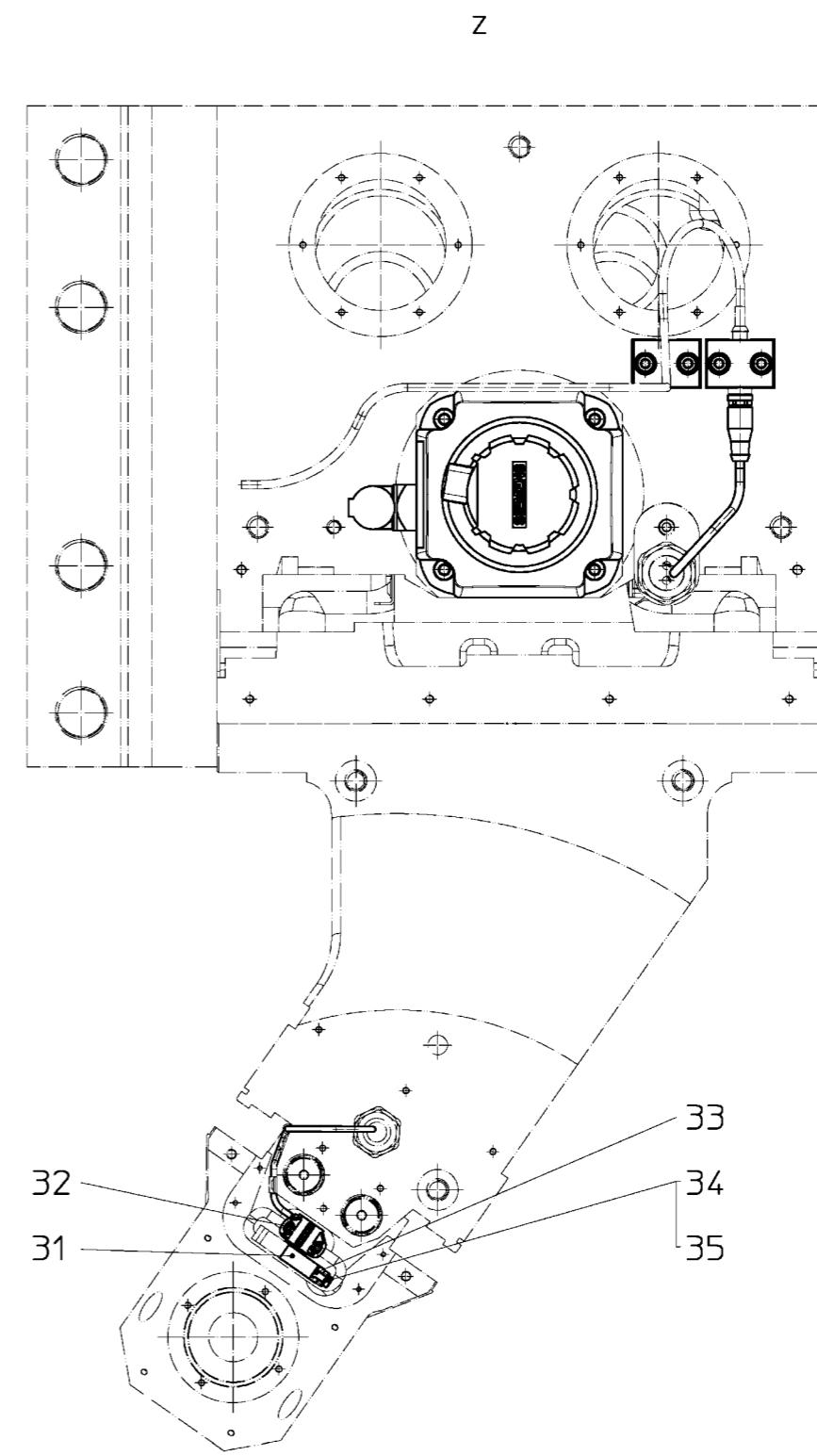
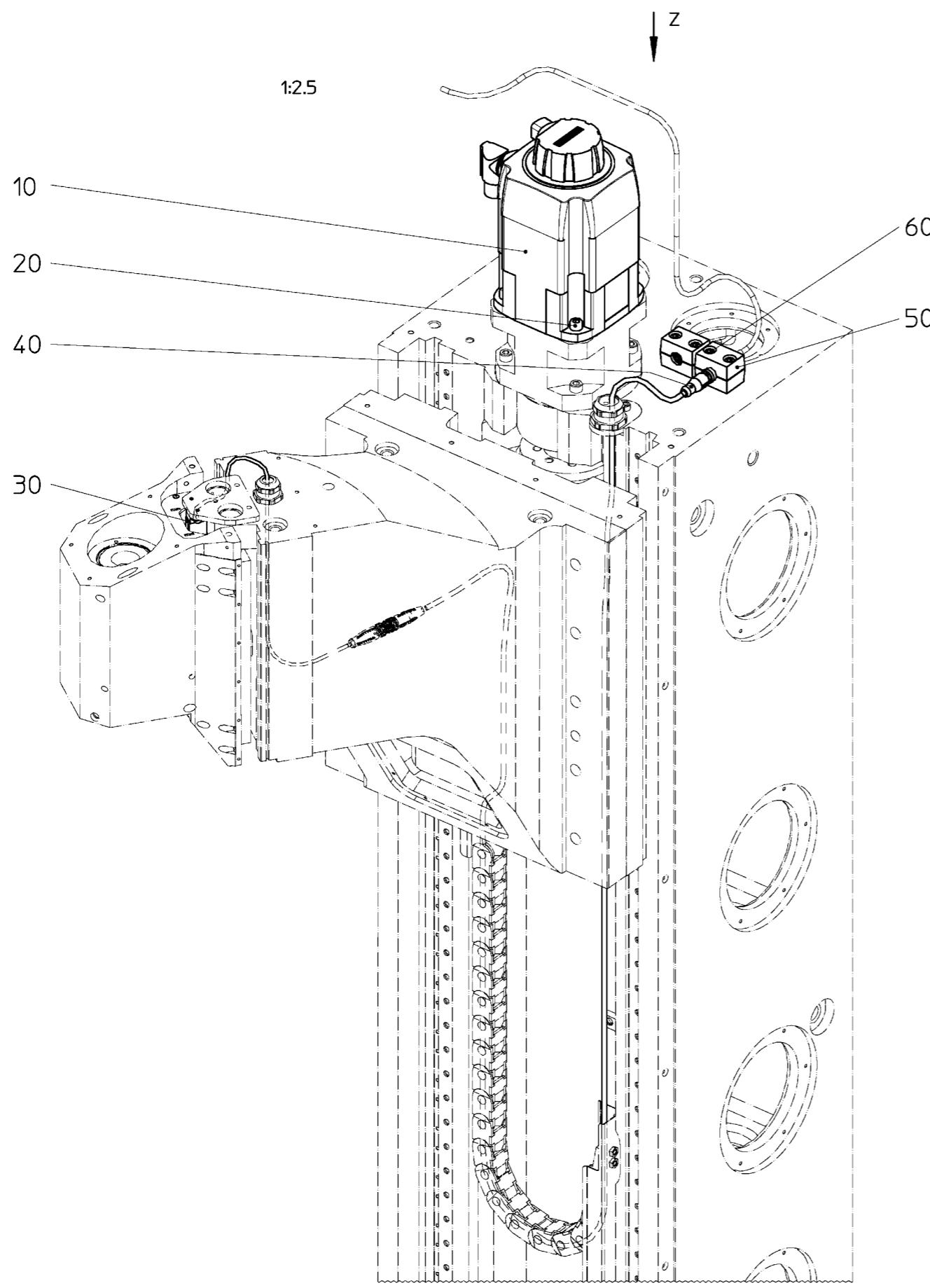
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## SpeedViper 300 X axis guide MR

Material no. 488534\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	466427A	Monorail guide MR 55x1197		1	ST		
11	299973A	Socket head screw M14x50		40	ST		
12	320245A	Socket head screw M3x25		4	ST		
20	7047032\$	Wedge bar		18	ST		
30	050670A	Socket head screw M8x20		36	ST		
40	489433\$	Wedge bar, short		2	ST		
50	050670A	Socket head screw M8x20		2	ST		



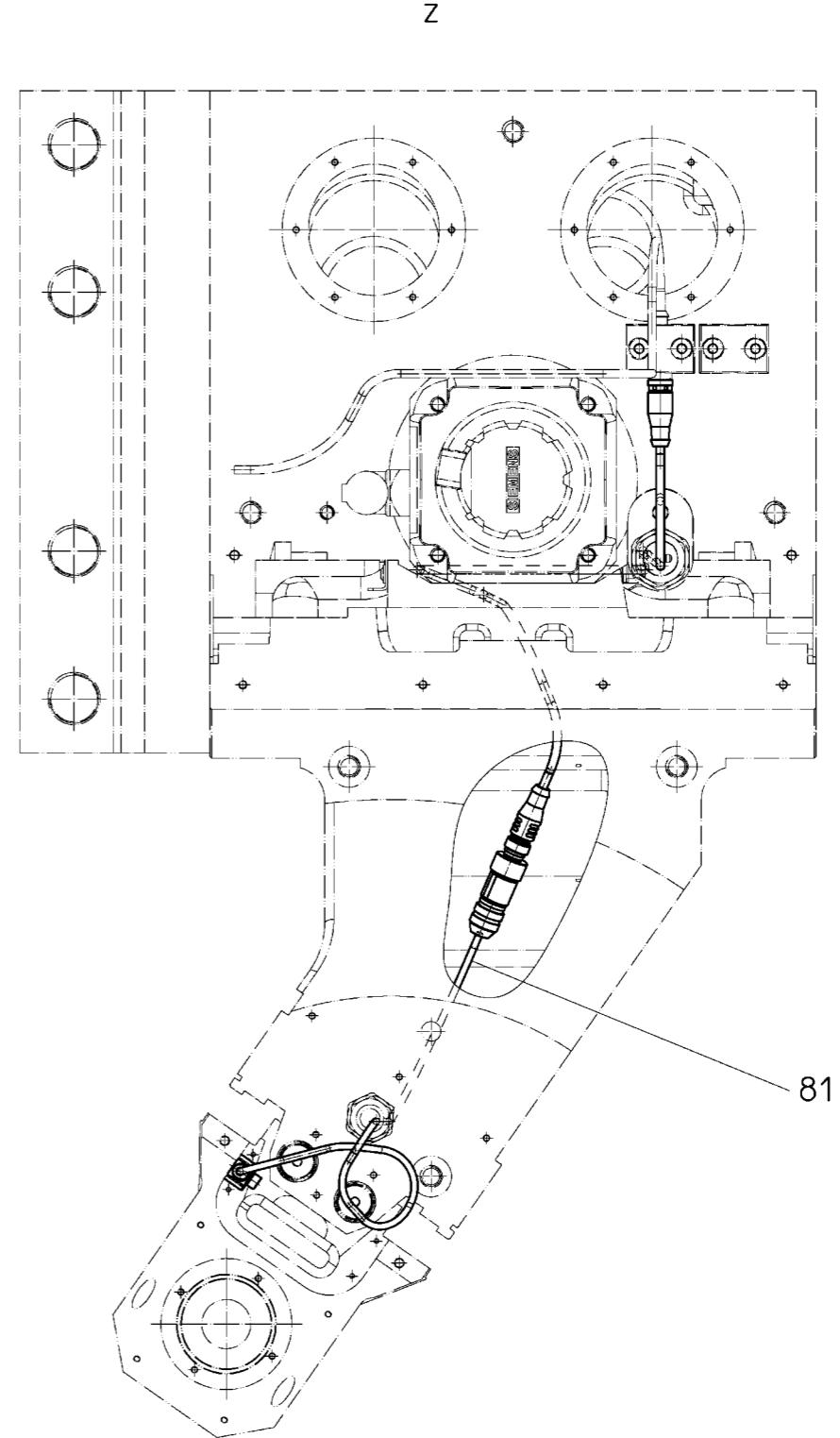
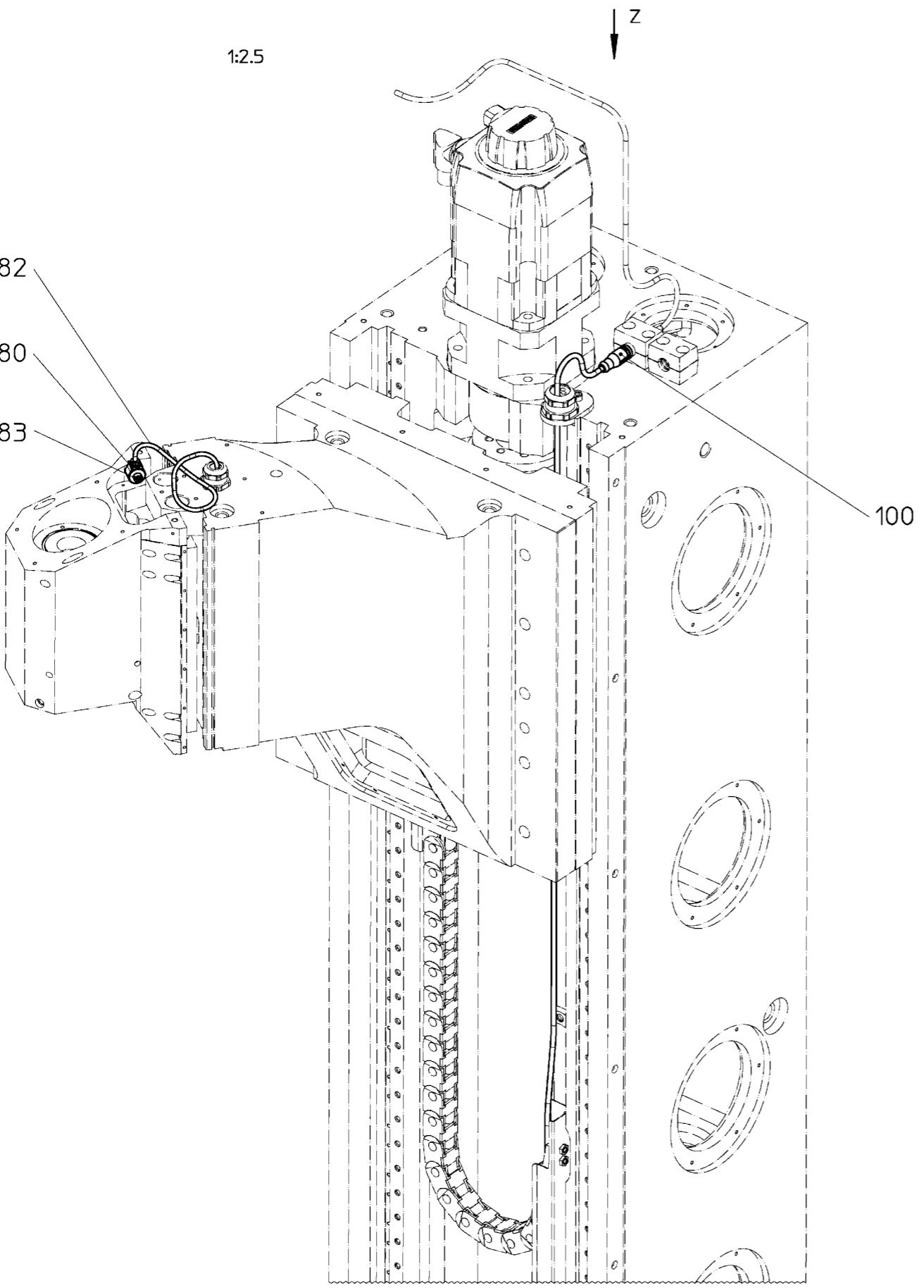
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## SpeedViper 300 Z1 axis, electrical parts

Material no. 488566\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	448732A	Servomotor		1	ST		
20	050670A	Socket head screw M8x20		4	ST		
30	480505A	Inductive sensor BIP LD2-T017-04-BP00,5-S4		1	ST		
31	480506A	Position sensor BAM TG-XE-020		1	ST		
32	144420A	Socket head screw M4x10		2	ST		
33	139555A	Countersunk head screw M4x12 (strength class 8.8)		2	ST		
34	051144A	Plain washer A 4.3 (steel)		2	ST		
35	051176A	Hexagon nut M4 A (strength class 8)		2	ST		
40	448326A	Connecting cable AL-WAK4-3-AL-WAS4/S370		1	ST		
50	439043A	Clamping jaw pair LKP-2-R-15-PP		2	PAA		
60	259206A	Socket head screw M6x35		4	ST		
1001	460823\$	Set of signs		1	ST		



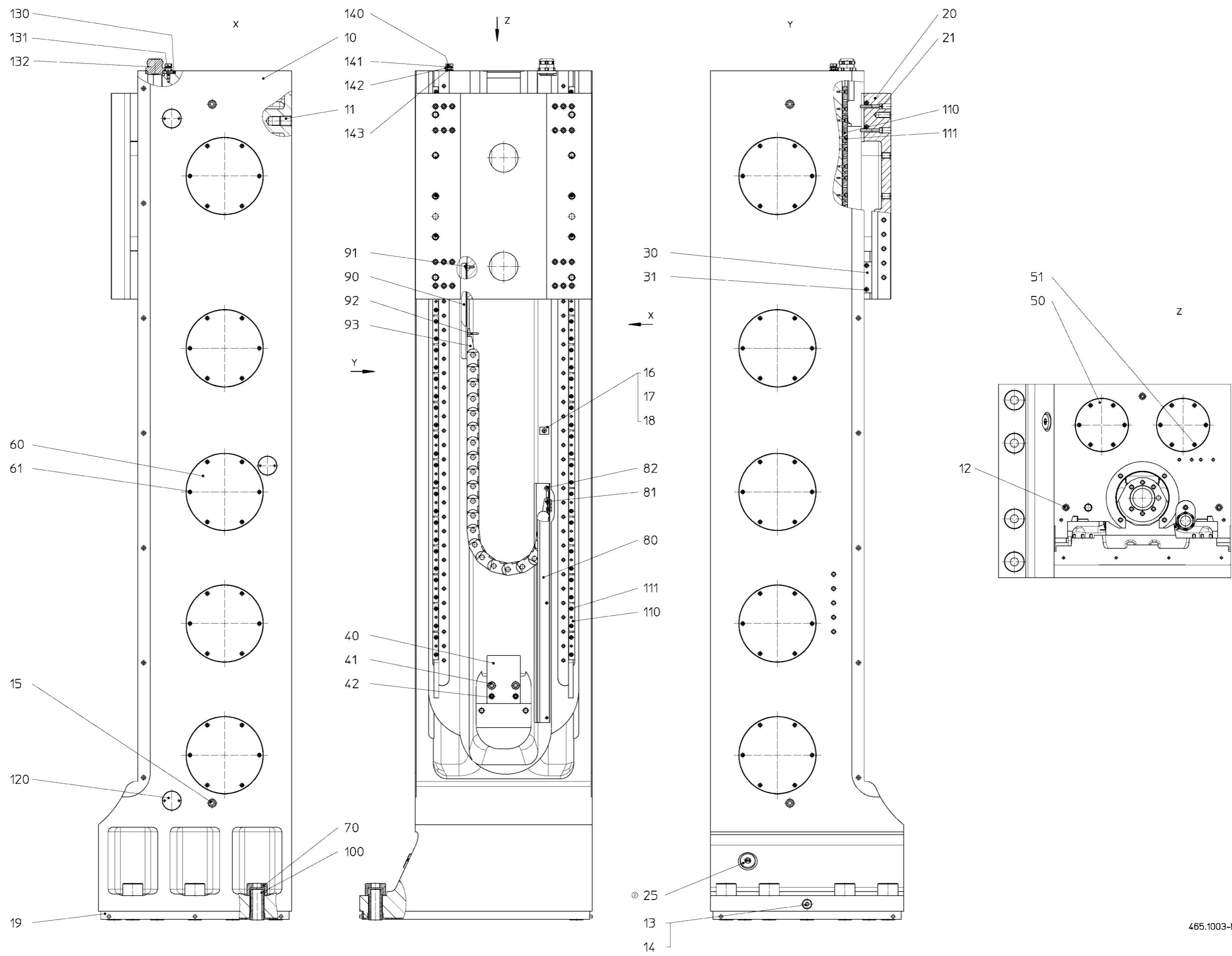
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## SpeedViper 300 Electrical parts, Z1 axis, vibration

**Sensor**  
Material no. 488567\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
80	391652A	Vibration sensor		1	ST		
83	077509A	Socket head screw M5x20		1	ST		
90	367161A	Plug M12 4-Pin RSCS 4/9		1	ST		
100	459636A	Connecting cable AL-WAKS4-03-AL-WASS4/S370		1	ST		
1002	460824\$	Set of signs		1	ST		



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## SpeedViper 300 Z1 axis, counter support

Material no. 488568\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	455217\$	Counter support column		1	ST		
11	050989A	Threaded pin M20x25 (quality 45H)		3	ST		
12	050986A	Threaded pin M12x16 (quality 45H)		3	ST		
13	054160A	Locking screw G 1/4" (steel)		1	ST		
14	055658A	Sealing ring A 14X18 (copper)		1	ST		
15	058973A	Threaded pin M16x16 (quality 45H)		4	ST		
16	356330A	Hook and loop fastener base KBS 4-20		3	ST		
17	259503A	Countersunk head screw M4x8 (strength class 8.8)		3	ST		
18	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		3	ST		
19	7802578A	Joint faces SKC X58L 0.50 kg		1	ST		
20	488337\$	Counter support slide		1	ST		
21	077511A	Socket head screw M6x40		24	ST		
25	332907A	Screw plug VSTI R3/4 IN-ED CF		1	ST		
30	455471\$	Press strip		2	ST		
31	077510A	Socket head screw M5x16		4	ST		
40	455472\$	Stop		1	ST		
41	068533A	Socket head screw M10x25		2	ST		
42	258259A	Cylindrical pin 10 M6x32		2	ST		
50	455473\$	Cover		2	ST		
51	144420A	Socket head screw M4x10		12	ST		
60	455475\$	Cover		10	ST		
61	144420A	Socket head screw M4x10		60	ST		
70	455477\$	Thrust sleeve		7	ST		
80	460109A	Profile plate		1	ST		
81	289080A	Oval flange head screw M5x8		2	ST		
82	259503A	Countersunk head screw M4x8 (strength class 8.8)		3	ST		
90	457785A	Holder cable installation chain		1	ST		
91	289080A	Oval flange head screw M5x8		4	ST		
92	122626A	Cable strip T 50R L=204 mm, B= 4.7 mm		2	ST		
93	457801A	Energy chain 14.1.075.0		1	ST		
100	455482\$	Hollow bolt M30x1.5		7	ST		
110	7039278\$	Wedge bar		40	ST		



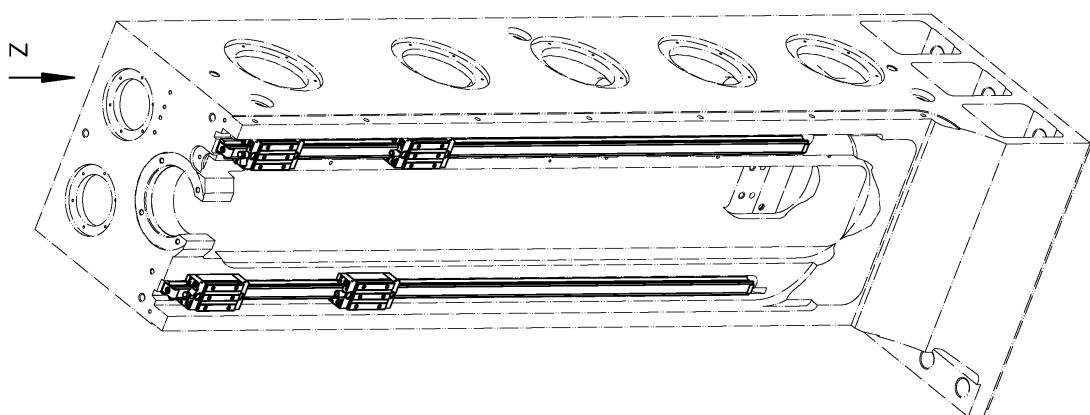
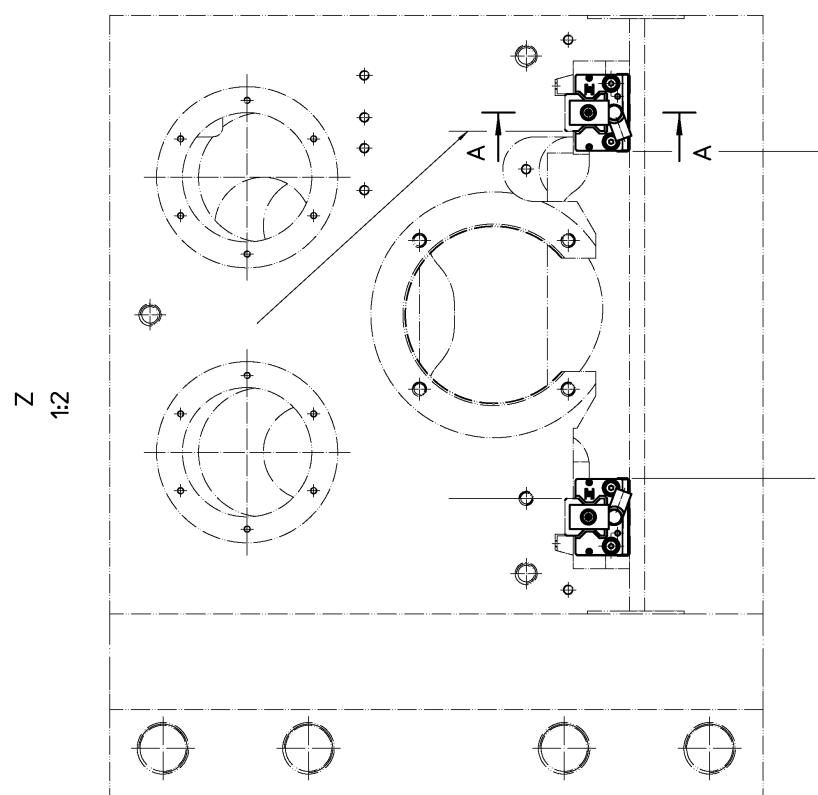
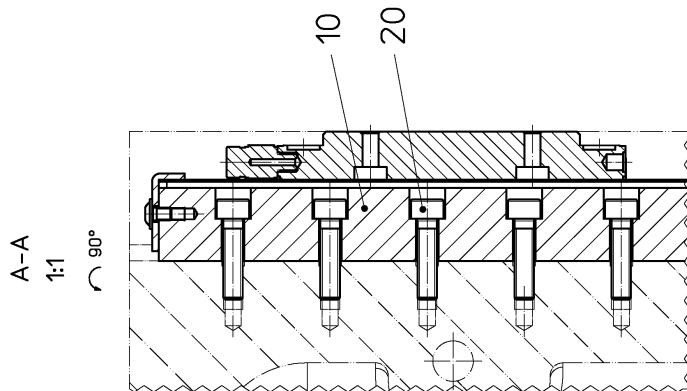
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## SpeedViper 300 Z1 axis, counter support

Material no. 488568\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
111	258940A	Socket head screw M4x12		80	ST		
120	431987\$	Threaded plug		3	ST		
130	457838A	Barrier		1	ST		
131	050665A	Socket head screw M6x16		1	ST		
132	468276A	Universal sealing screw fitting M32x1.5		1	ST		
140	144070A	Hexagon screw M8X16 8.8/(galvanized)		1	ST		
141	144081A	Spring-loaded ring A 8 (spring steel, zinc-plated)		1	ST		
142	144078A	Plain washer B8.4 (steel, zinc-plated)		1	ST		
143	144082A	Serrated washer A 8.4 (steel, zinc-plated)		1	ST		

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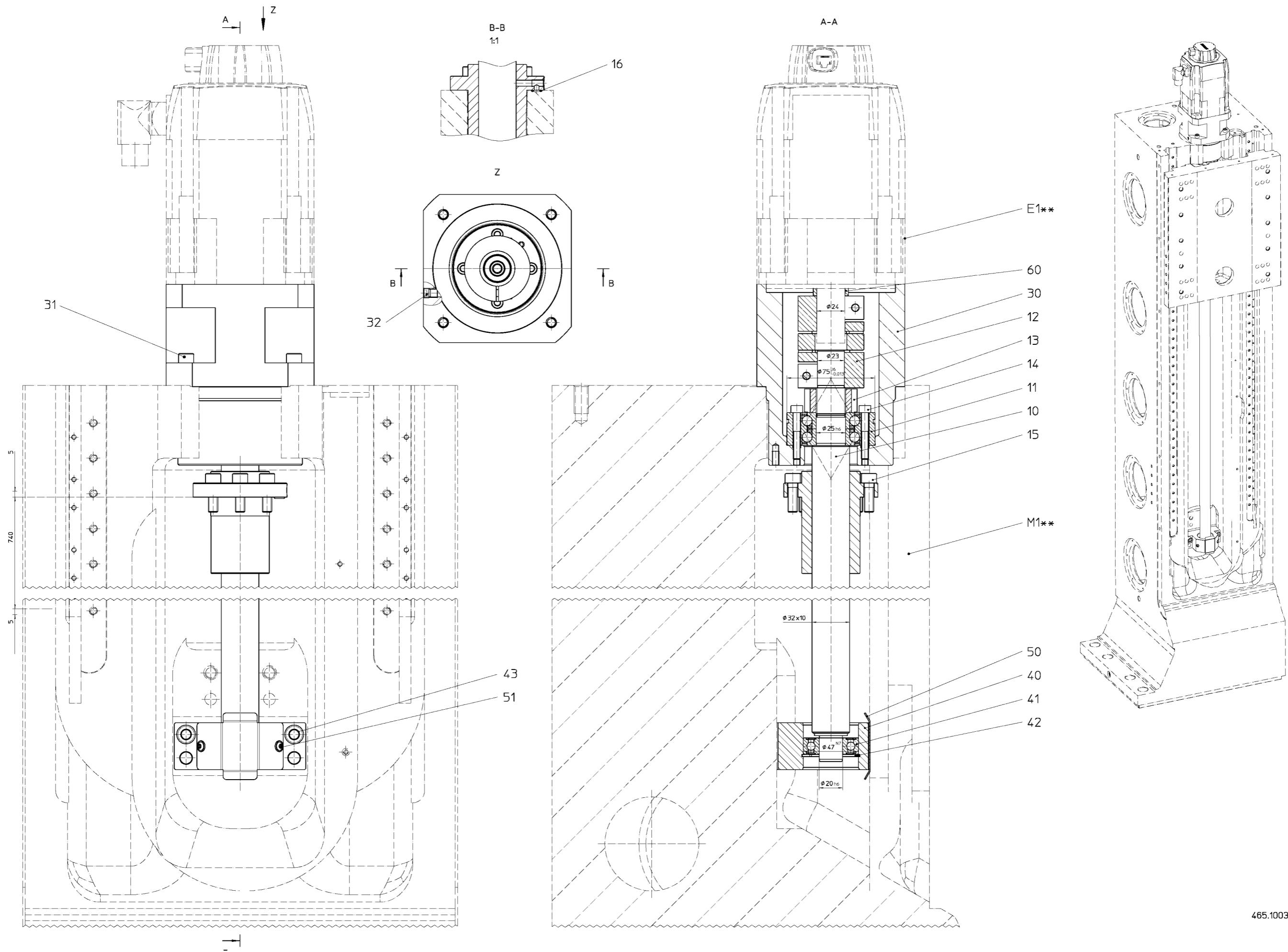




## SpeedViper 300 Z1 axis cassette guide

Material no. 488569\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	487353A	Monorail guide MR 25x1250		1	SA		
20	050938A	Socket head screw M6x25		82	ST		



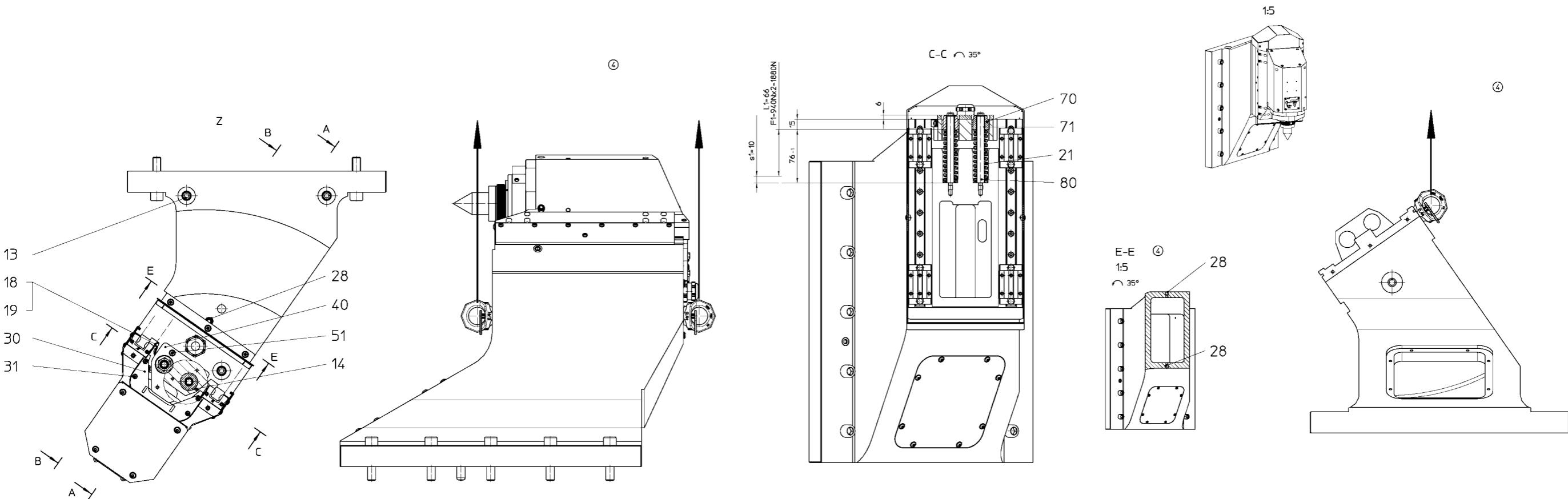
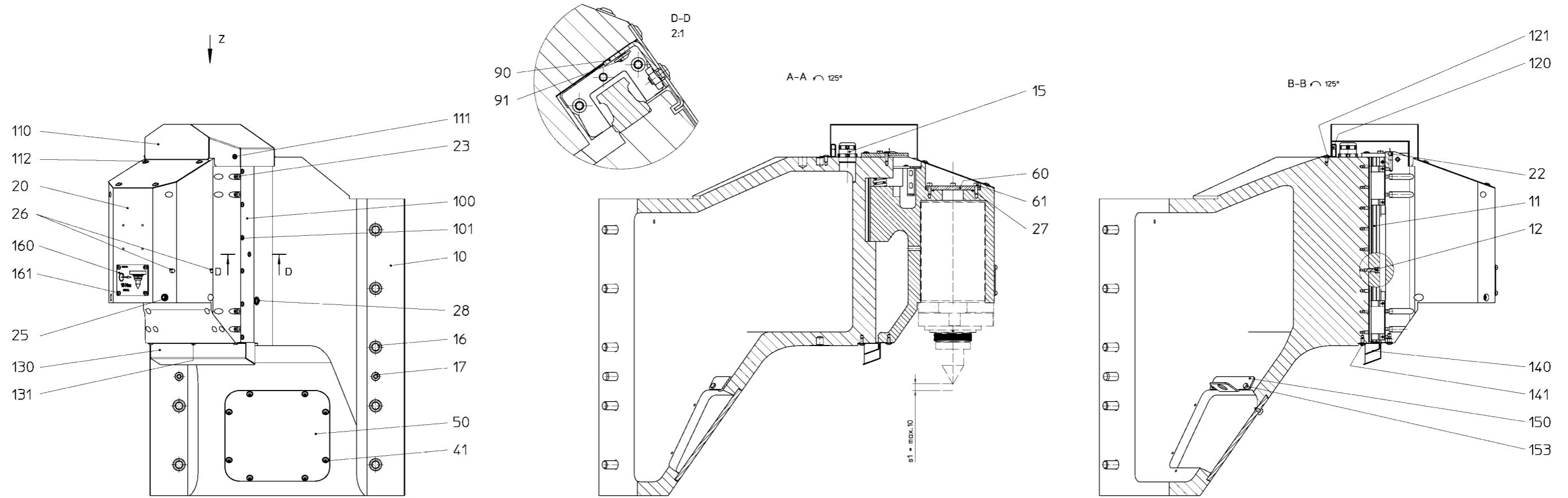
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## SpeedViper 300 Z1 axis drive

Material no. 488570\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	457537A-2	Ball screw 32x10, Z1 axis		1	ST		
11	153881A-4	Axial ball bearing		1	ST		
12	454435A	Coupling EK2/60/A/23H7/24H7		1	ST		
13	154346A	Adjusting nut MRR-A 25/45 M 25 x 1,5		1	ST		
14	077511A	Socket head screw M6x40		4	ST		
15	050628A	Socket head screw M8x25		6	ST		
16	074678A	O-ring 5.00x1.50 (NBR 70)		1	ST		
30	455467\$	Coupling housing		1	ST		
31	076513A	Socket head screw M8x35		4	ST		
32	050975A	Threaded pin M8x6 (quality 45H)		1	ST		
40	455468\$	Counter bearing housing		1	ST		
41	087731A	Ball bearing 6204-2RS		1	ST		
42	052959A	Retaining ring 47x1.75 (spring steel)		1	ST		
43	077527A	Socket head screw M10x45		2	ST		
50	457777A	Guide plate		1	ST		
51	454841A	Oval flange head screw M4x6 (strength class 10.9) black		2	ST		
60	456571\$	Spacer ring		1	ST		



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## SpeedViper 300 Z1 axis center support

Material no. 488571\$

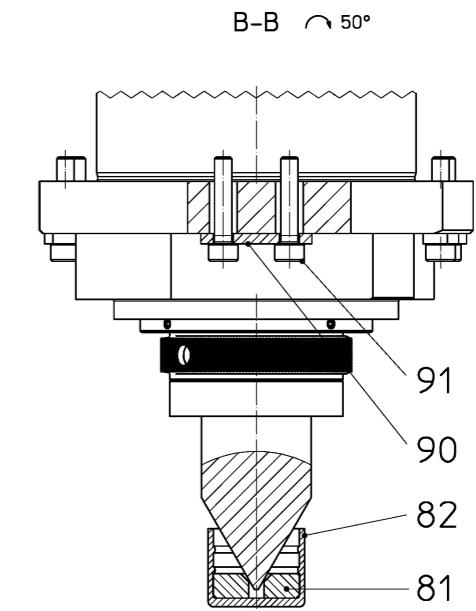
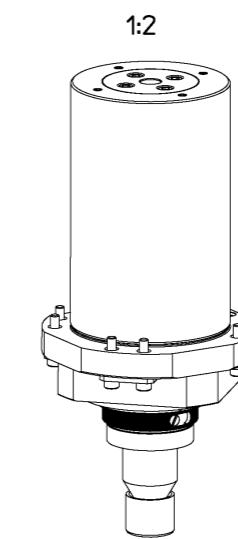
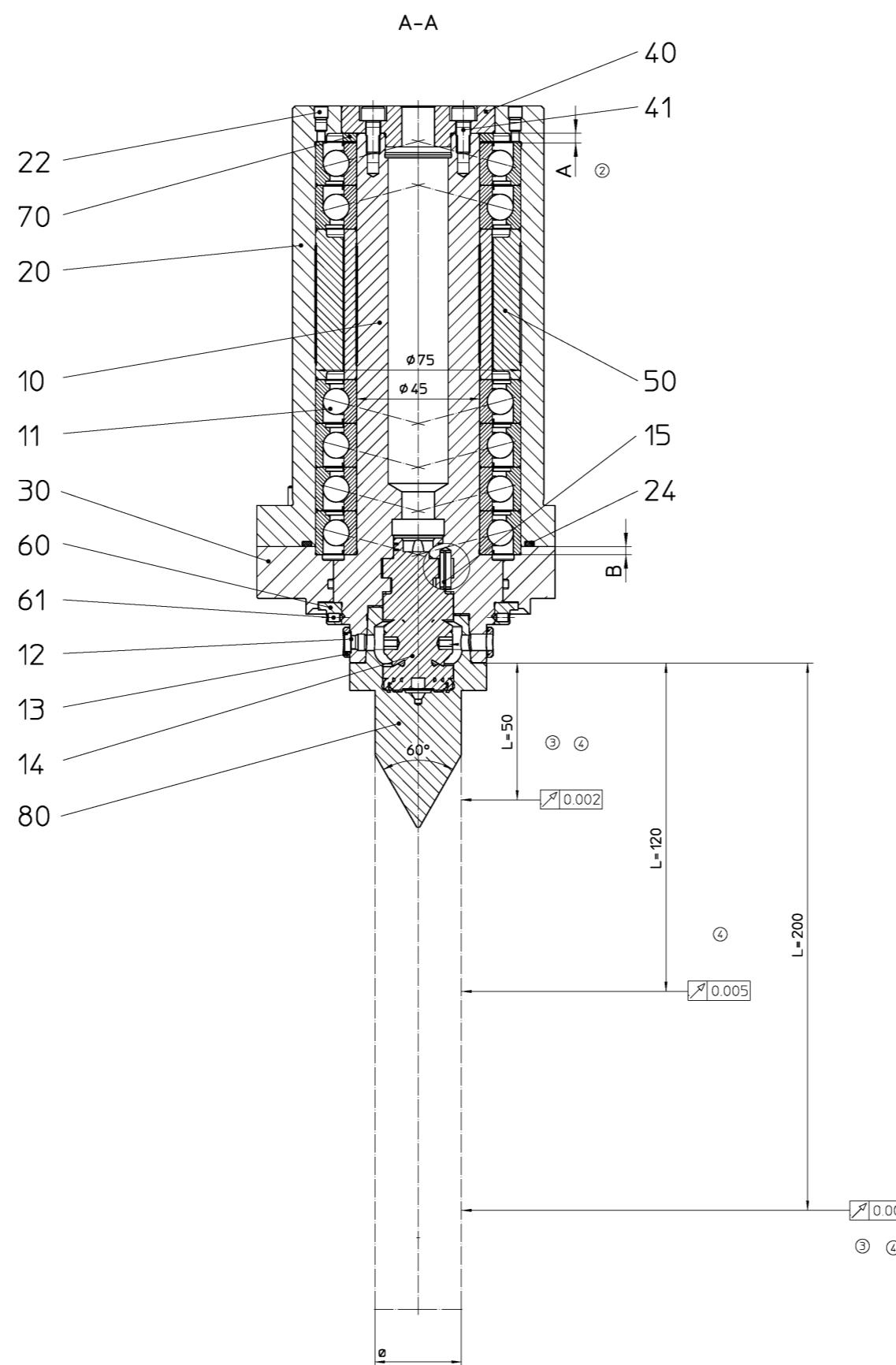
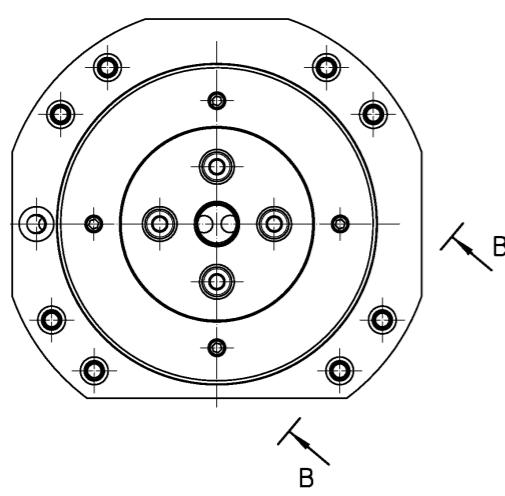
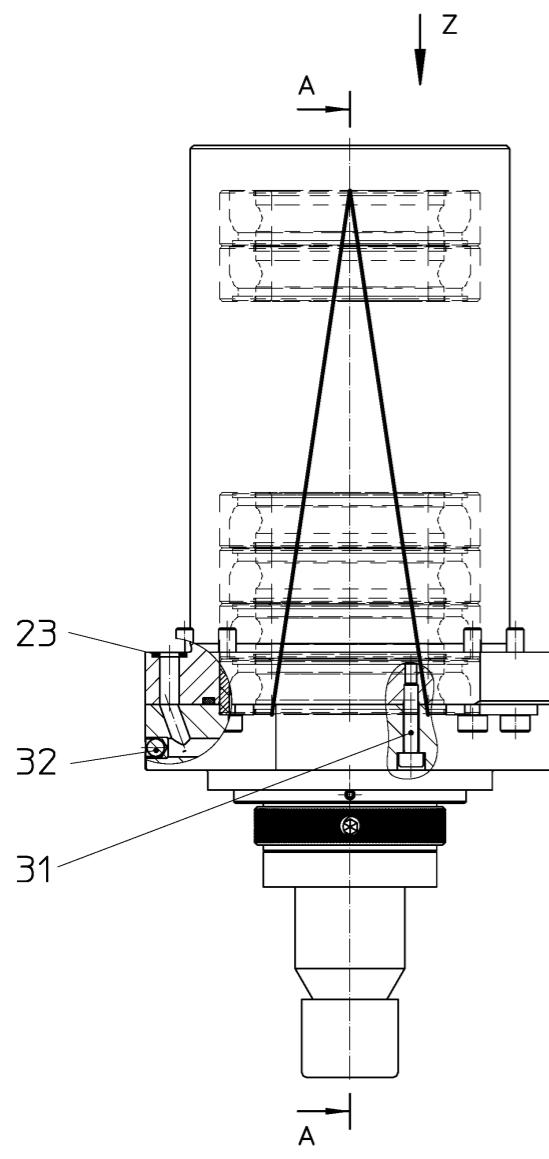
Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	488338\$	Carrier center support		1	ST		
11	466614A	Monorail guide BM 15x267		1	ST		
12	258980A	Socket head screw M4x16		18	ST		
13	320414A	Threaded pin M12x12 (quality 45H, phosphor-treated)		3	ST		
14	050960A	Threaded pin M3x4 (quality 45H)		2	ST		
15	7824372A	Cable fitting M25x1.5		1	ST		
16	077567A	Socket head screw M12x50		10	ST		
17	309965A	Cylindrical pin 12 M6x50		2	ST		
18	061856A	Mounting clip 1x 4 (steel, zinc-plated)		2	ST		
19	301392A	Oval flange head screw M4x6 (strength class 10.9, zinc-plated)		2	ST		
20	488376\$	Slide center support		1	ST		
21	454749A	Tool spring		2	ST		
22	050969A	Threaded pin M6x6 (quality 45H)		4	ST		
23	258940A	Socket head screw M4x12		24	ST		
25	417919A	Threaded pin M8x0.5x16 (grade 45H)		4	ST		
26	349280A	Expander 6.0 MB 700-060		2	ST		
27	070373A	Sealing ring 55.00x2.00 (NBR 70)		1	ST		
28	069432A	Threaded pin M10x12 (quality 45H)		3	ST		
30	487359A	Cam switch		1	ST		
31	325336A	Oval flange head screw M3x8 (strength class 10.9, galvanized)		4	ST		
40	488339\$	Sensor holder		1	ST		
41	268018A	Oval flange head screw M4x12 (strength class 10.9, zinc-plated)		4	ST		
50	480249A	Cover		1	ST		
51	7835277A	Oval flange head screw M4x10 (strength class 10.9) black		8	ST		
60	487423A	Cover		1	ST		
61	258940A	Socket head screw M4x12		4	ST		
70	460815\$	Threaded sleeve		2	ST		
71	278754A	Socket PAP 1020 p11 10/12X20		2	ST		
80	460816\$	Bar		2	ST		



## SpeedViper 300 Z1 axis center support

Material no. 488571\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
90	487424A	Angle		2	ST		
91	454839A	Oval flange head screw M3x6 (strength class 10.9) black		4	ST		
100	487364A	Plate, side		2	ST		
101	454839A	Oval flange head screw M3x6 (strength class 10.9) black		14	ST		
110	487425A	Cover		1	ST		
111	454839A	Oval flange head screw M3x6 (strength class 10.9) black		2	ST		
112	454841A	Oval flange head screw M4x6 (strength class 10.9) black		4	ST		
120	487365A	Guard plate top, fixed		1	ST		
121	280725A	Oval flange head screw M4x8 (strength class 10.9)		3	ST		
130	487366A	Guard plate bottom, movable		1	ST		
131	280725A	Oval flange head screw M4x8 (strength class 10.9)		3	ST		
140	487367A	Guard plate bottom, fixed		1	ST		
141	280725A	Oval flange head screw M4x8 (strength class 10.9)		3	ST		
150	487427A	Angle		1	ST		
153	320155A	Hexagon head screw M4x8 (strength class 8.8)		2	ST		
160	491342A	Sign		1	ST		
161	284500A	Pan head screw M3x6		4	ST		



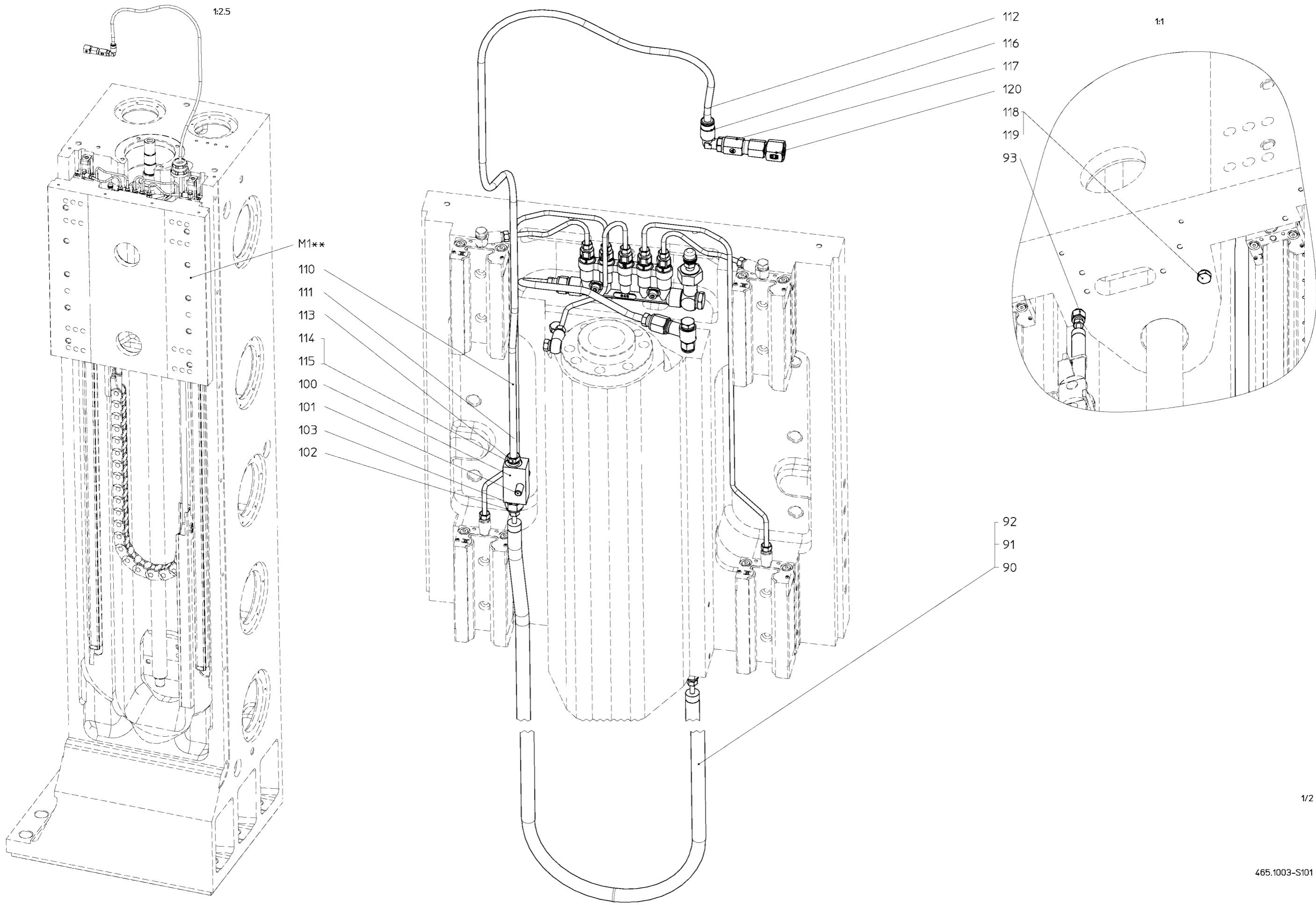
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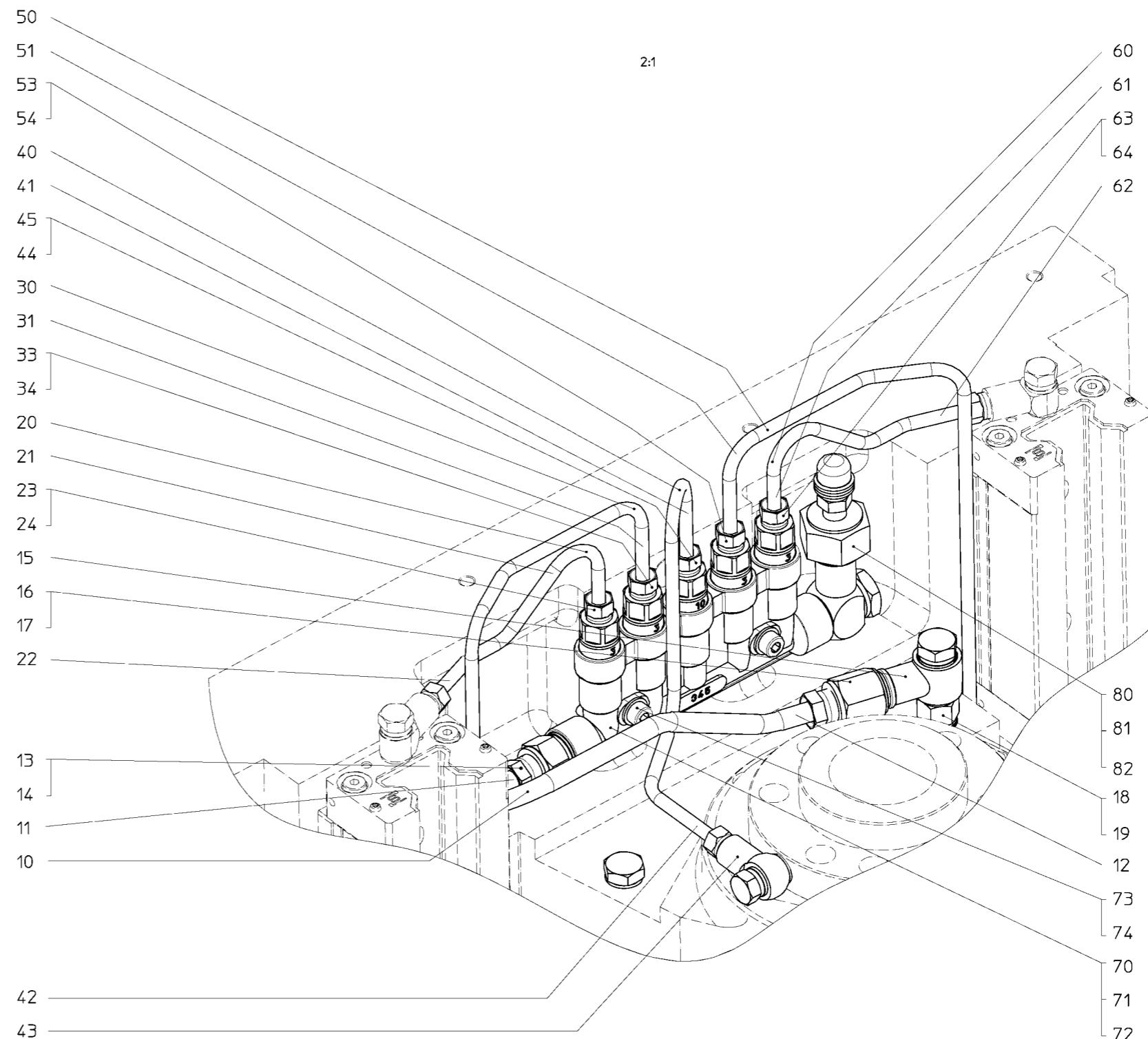
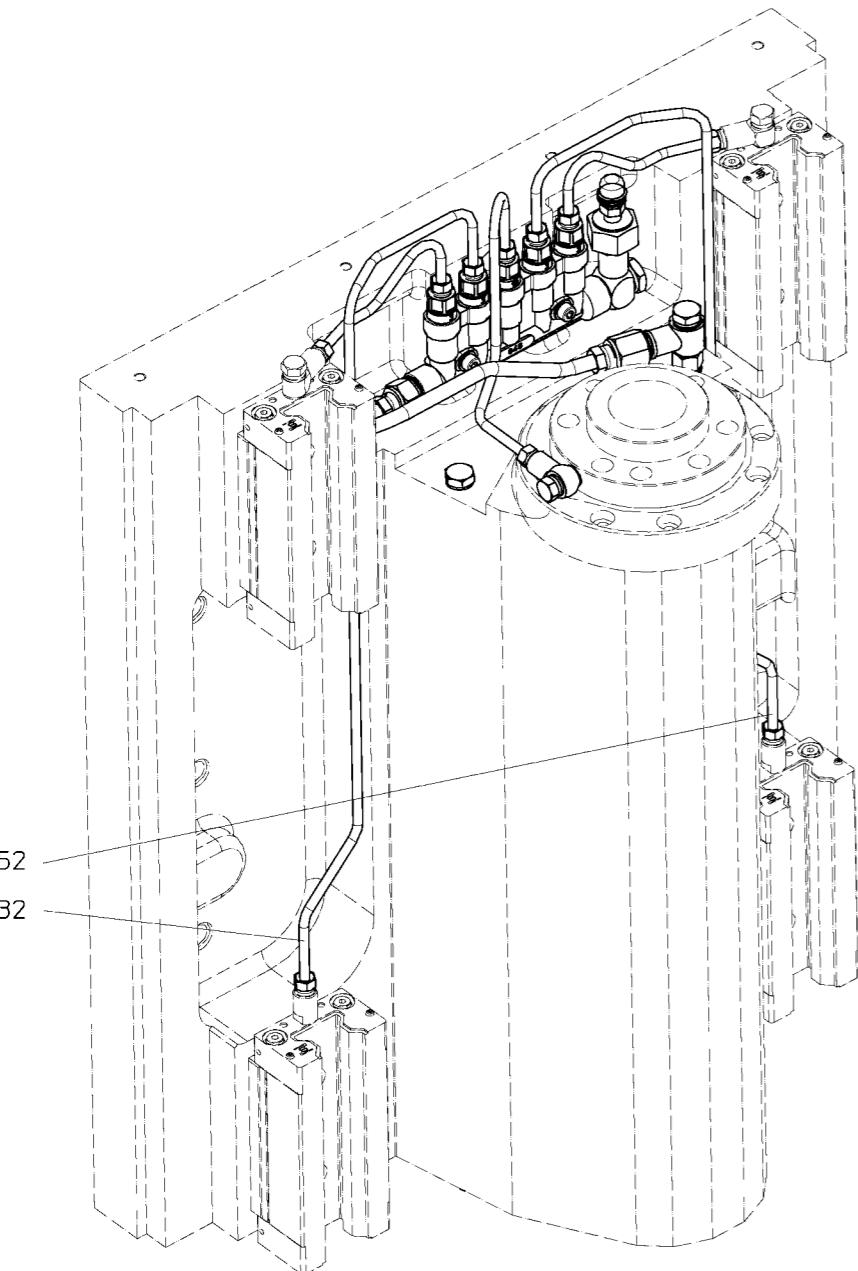


## SpeedViper 300 Bearing socket

Material no. 488572\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	488391\$	Spindle		1	ST		
11	468310A-7	Ball bearing		1	SA		
12	472797A	Retaining screw		1	ST		
13	472796A	Cover ring		1	ST		
14	472795A	Clamping cartridge		1	ST		
15	7836776A	Clamping sleeve 4X14		1	ST		
20	488403\$	Bearing bushing		1	ST		
22	050966A	Threaded pin M5x5 (quality 45H)		4	ST		
23	276470A	O-ring 6.00x1.80 (NBR 70)		1	ST		
24	168666A	O-ring 76.00X2.50 (NBR 70)		1	ST		
30	488389\$	Bearing cover		1	ST		
31	077504A	Socket head screw M4x20		8	ST		
32	269874A	Expander 6.0		1	ST		
40	488387\$	Press-on washer		1	ST		
41	053887A	Socket head screw M5x12		4	ST		
50	488385\$	Spacer ring set		1	ST		
60	488388\$	Sealing ring		1	ST		
61	070874A	Set screw M3x6 (quality 45H)		4	ST		
70	488386\$	Gauge ring		1	ST		
80	7003112A	Standard tip		1	ST		
81	7815102A	Super strong neodymium flat gripper		1	ST		
82	7809194A	Hexagon screw plug GPN 250/25 yellow 1016		1	ST		
90	488814\$	Clamping piece 1		4	ST		
91	077508A	Socket head screw M5x25		8	ST		





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## SpeedViper 300 Z1 axis, pulse lubrication

Material no. 488573\$

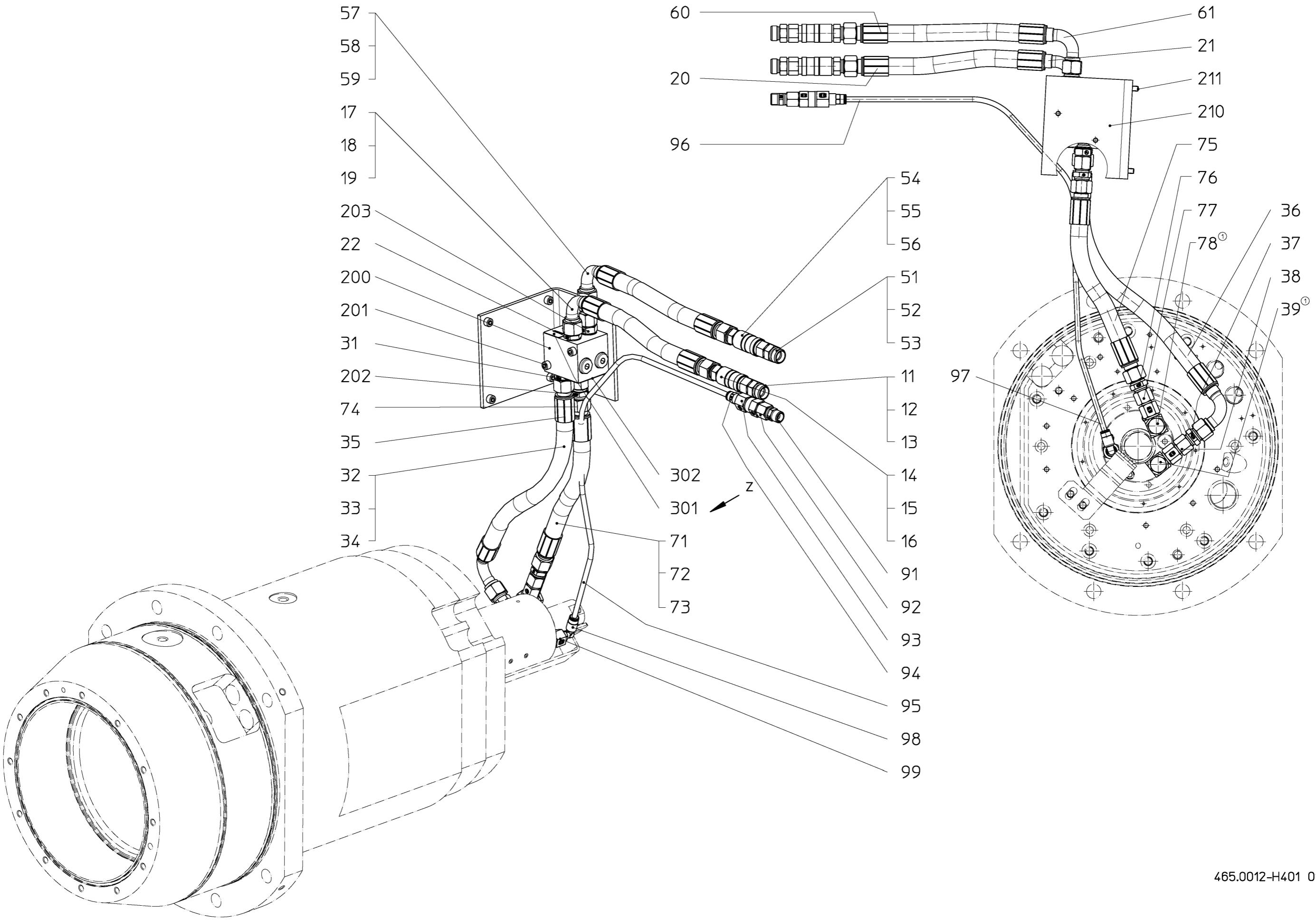
Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	486095\$	Pipe, 6x1		1	ST		
13	058545A	Union screw ALL 6 M10x1 (steel)		2	ST		
14	058550A	Double-cone ring 6 (brass)		2	ST		
15	058555A	Swivel fitting 4 101 knee shape		1	ST		
16	058567A	Connecting piece 6 (steel)		1	ST		
17	055654A	Sealing ring A 8X11.5 (copper)		1	ST		
18	055654A	Sealing ring A 8X11.5 (copper)		1	ST		
19	058564A	Connecting piece 4 003 (steel)		1	ST		
20	487434A	Pipe 4x0.7		1	ST		
23	7811512A	Union screw M8x1		2	ST		
24	057353A	Double-cone ring 4 (brass)		2	ST		
30	487435A	Pipe 4x0.7		1	ST		
33	7811512A	Union screw M8x1		2	ST		
34	057353A	Double-cone ring 4 (brass)		2	ST		
40	457811A	Pipe 4x0.7		1	ST		
43	115397A	Swivel screw connection 4 elbow		1	ST		
44	057353A	Double-cone ring 4 (brass)		2	ST		
45	7811512A	Union screw M8x1		2	ST		
50	487436A	Pipe 4x0.7		1	ST		
53	7811512A	Union screw M8x1		2	ST		
54	057353A	Double-cone ring 4 (brass)		2	ST		
60	487437A	Pipe 4x0.7		1	ST		
63	7811512A	Union screw M8x1		2	ST		
64	057353A	Double-cone ring 4 (brass)		2	ST		
70	457802A	Divider valve		1	ST		
71	434705A	Label plate S4-1Z1		1	ST		
72	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
73	051144A	Plain washer A 4.3 (steel)		2	ST		
74	077504A	Socket head screw M4x20		2	ST		
80	419877A	Ventilation screw		1	ST		
81	434706A	Label plate S4-1Z2		1	ST		
82	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		



## SpeedViper 300 Z1 axis, pulse lubrication

Material no. 488573\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
90	461660A	Hose assembly D4x1400		1	ST		
91	454326A	Registration plate		1	ST		
92	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
93	058564A	Connecting piece 4 003 (steel)		1	ST		
100	058606A	Pipe connector 6 506 (aluminum)		1	ST		
101	050938A	Socket head screw M6x25		1	ST		
102	058565A	Connector 4 (steel)		1	ST		
103	055656A	Sealing ring A 10x13.5 (copper)		1	ST		
110	058651A	Pipe 6x1 (plastic PA11 transparent)		840	MM		
113	082991A	Union screw 6 (steel)		1	ST		
114	082985A	Taper race 6 611		1	ST		
115	082979A	Support sleeve 6 (brass)		2	ST		
116	362746A	Swivel screw fitting ø6-M10x1 506-140-VS		1	ST		
117	442747A	Straight screw fitting GAI06LMCFX		1	ST		
118	7811516A	Screw plug M8x1		2	ST		
119	055654A	Sealing ring A 8X11.5 (copper)		2	ST		
120	454162A	G-reducer GZR08/06LCF		1	ST		
1000	456519\$	Set of signs		1	ST		



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## SpeedViper 300 C axis, hydraulics

Material no. 488608\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
11	487542A	Closure coupling		1	ST		
12	454495A	Registration plate H6-1Z1		1	ST		
13	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
14	487543A	Closure nipple		1	ST		
15	454496A	Registration plate H6-1Z2		1	ST		
16	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
17	487544A	Extra-high pressure hose 8x290		1	ST		
18	454653A	Label plate H6-1H2		1	ST		
19	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
22	7810735A	Straight threaded male adapter GE12LM14x1.5EDOMDCF		1	ST		
31	7810735A	Straight threaded male adapter GE12LM14x1.5EDOMDCF		1	ST		
32	487545A	Extra-high pressure hose 8x400		1	ST		
33	472343A	Label plate H6-1H3		1	ST		
34	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
37	7810865A	Straight reduction, size 12/10		1	ST		
38	308283A	Straight intermediate gland GZ10L		1	ST		
39	454593A	Angular swivel connector		1	ST		
51	487542A	Closure coupling		1	ST		
52	454497A	Registration plate H7-1Z1		1	ST		
53	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
54	487543A	Closure nipple		1	ST		
55	454498A	Registration plate H7-1Z2		1	ST		
56	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
57	487544A	Extra-high pressure hose 8x290		1	ST		
58	454499A	Registration plate		1	ST		
59	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
71	487546A	Extra-high pressure hose 8x280		1	ST		
72	472344A	Registration plate		1	ST		
73	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
76	7810865A	Straight reduction, size 12/10		1	ST		
77	308283A	Straight intermediate gland GZ10L		1	ST		

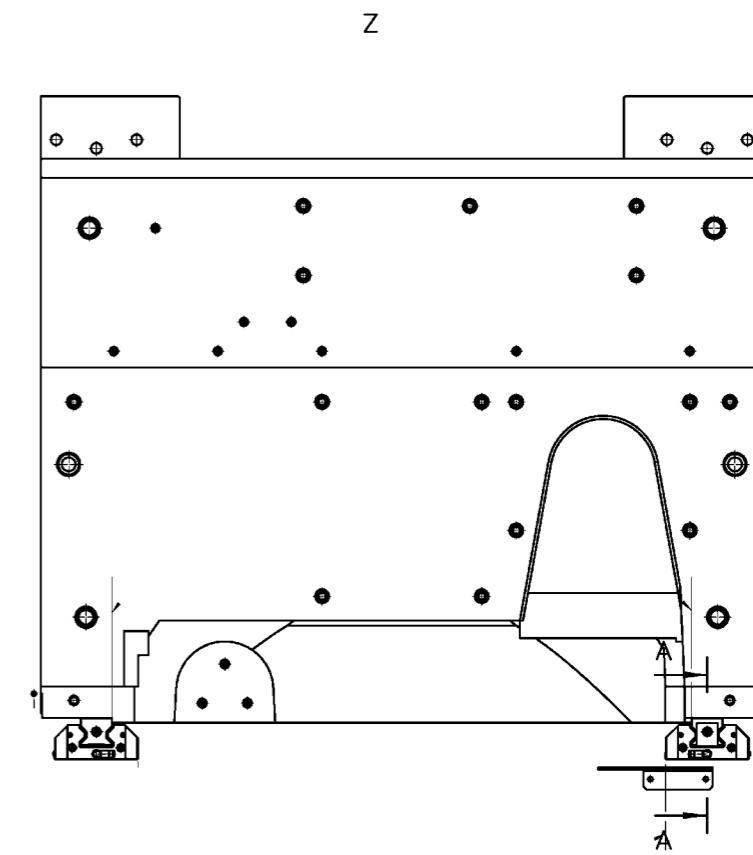
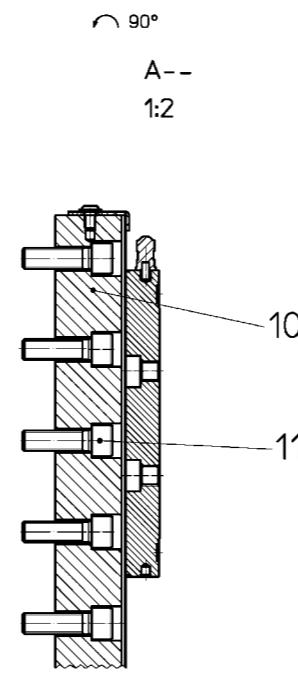
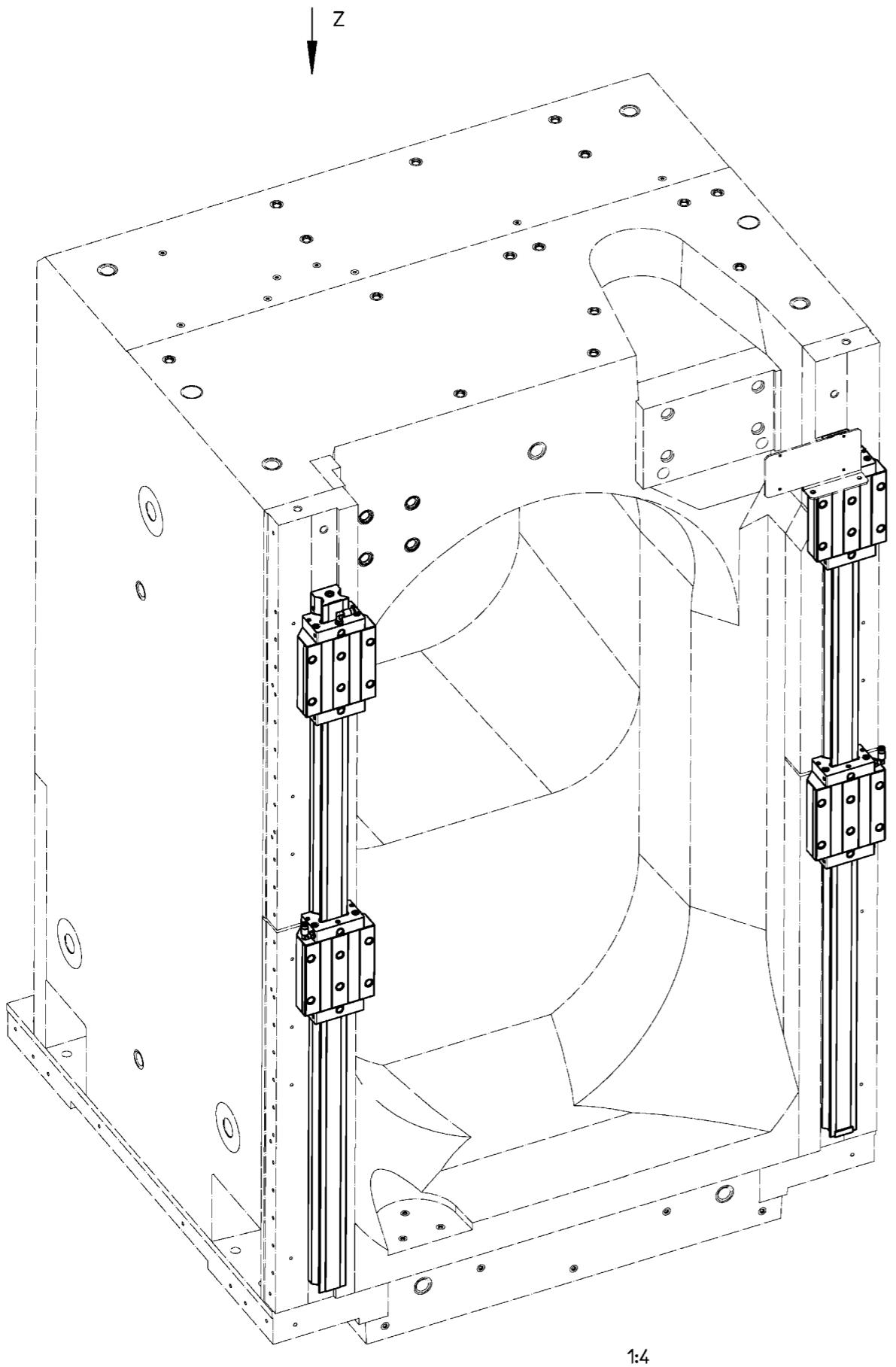


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## SpeedViper 300 C axis, hydraulics

Material no. 488608\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
78	454593A	Angular swivel connector		1	ST		
91	375016A	Straight screw fitting G08LCFX		1	ST		
92	384171A	Manometer screw fitting MAVE08LR		1	ST		
93	056655A	Reducer, pinion 1/4-EDX1/8		1	ST		
94	7811543A	Plug connector connection piece		1	ST		
95	058651A	Pipe 6x1 (plastic PA11 transparent)		700	MM		
98	367693A	Swivel fitting Ø6-ØG1/8 506-108-VS		1	ST		
99	056655A	Reducer, pinion 1/4-EDX1/8		1	ST		
200	472626A	Pretension block		1	ST		
201	255449A	Socket head screw M6x55		2	ST		
202	7810865A	Straight reduction, size 12/10		2	ST		
203	487548A	Straight screw-in glands		2	ST		
210	472627A	Angle		1	ST		
211	050936A	Socket head screw M6x12		4	ST		
301	461317A	Identification sign		1	ST		
302	461318A	Identification sign		1	ST		
900	456804\$	Set of signs		1	ST		



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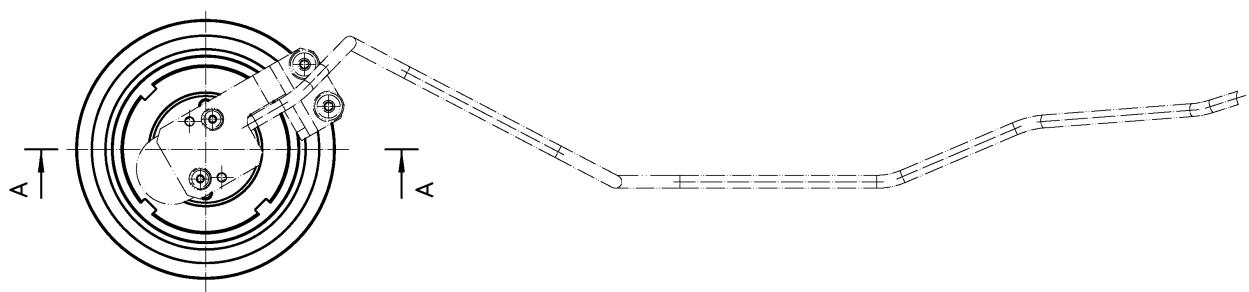
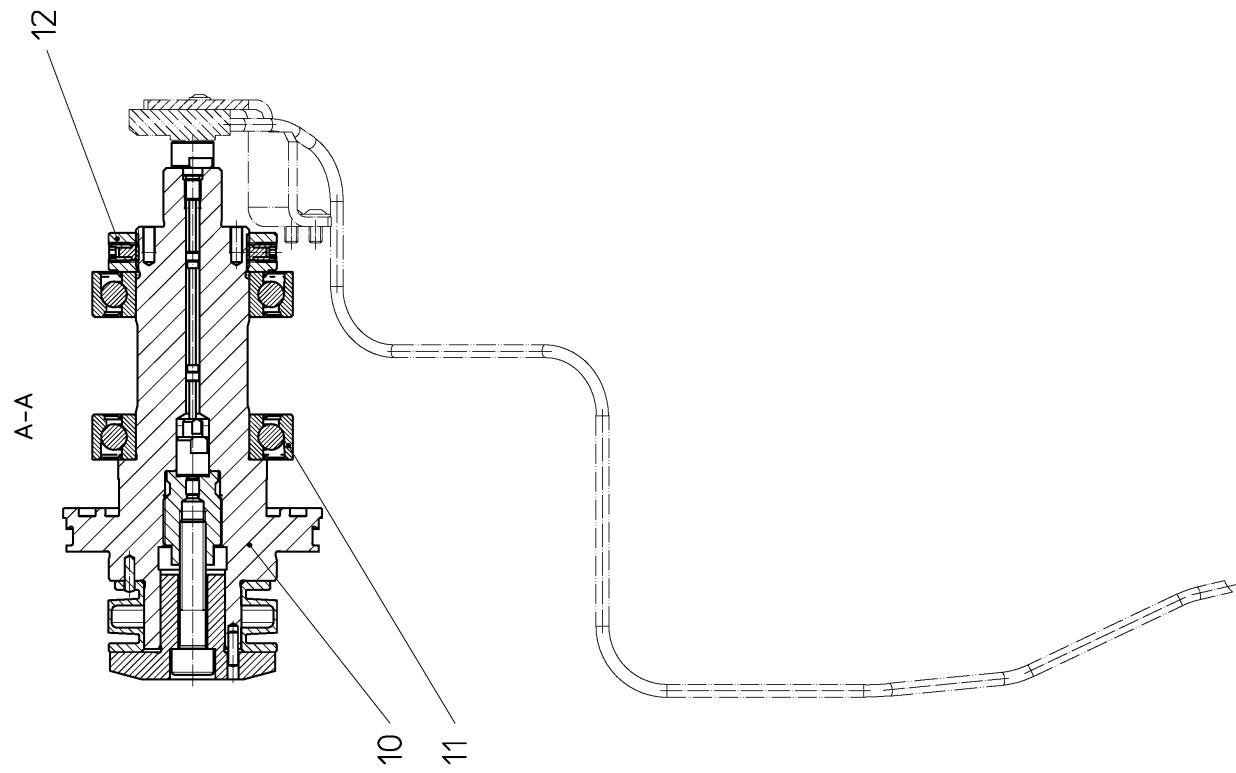


## SpeedViper 300 Z axis, MR guide

Material no. 488642\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	466426A	Monorail guide MR 45x1310		1	ST		
11	077534A	Socket head screw M12x40		50	ST		

465.0014-M401 00

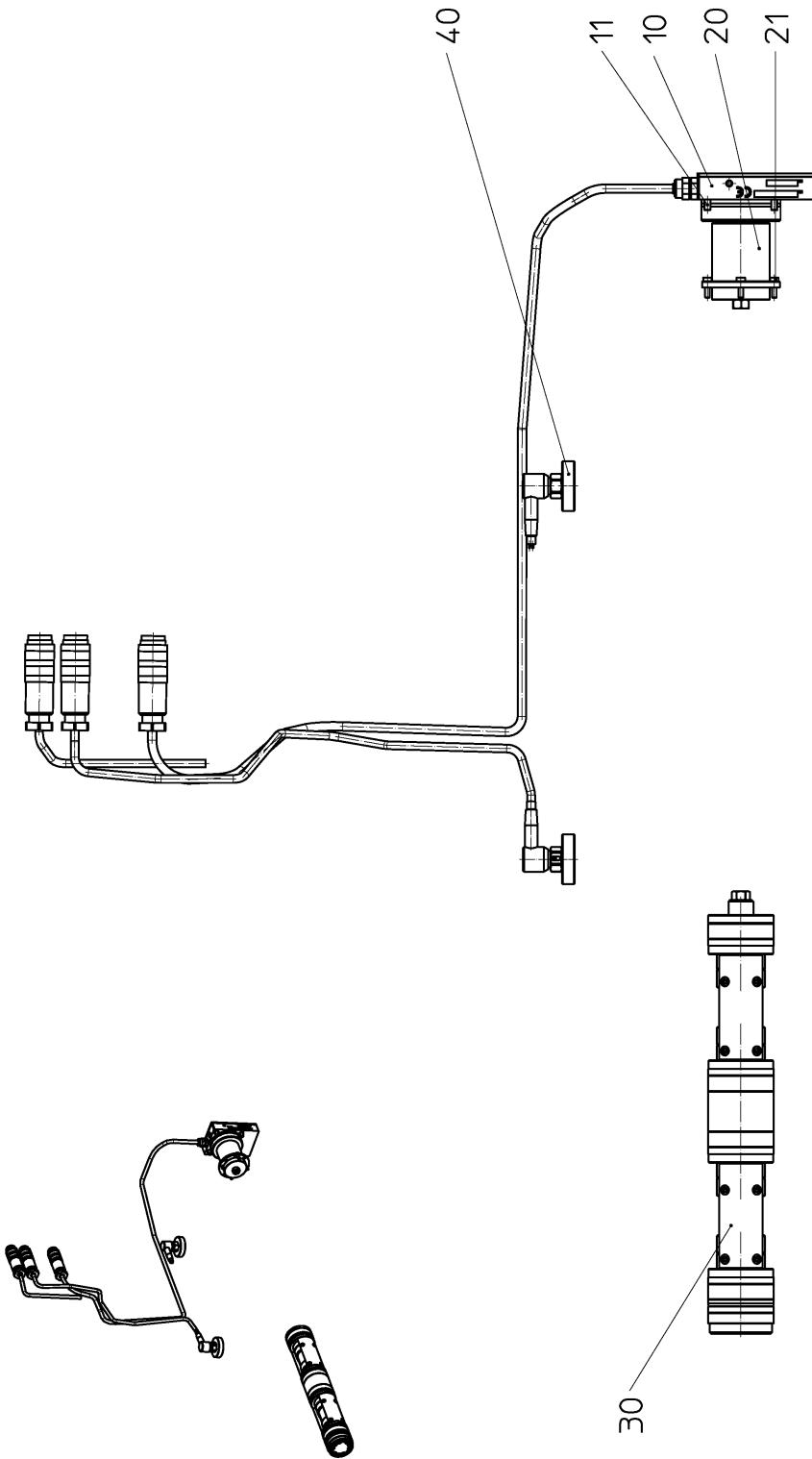




## SpeedViper 300 Spindle, complete

Material no. 489038\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	455014\$	Spindle, complete		1	ST		
11	454151A-7	Ball bearing		1	SA		
12	143860A	Adjusting nut MRR 35 M35x1,5		1	ST		



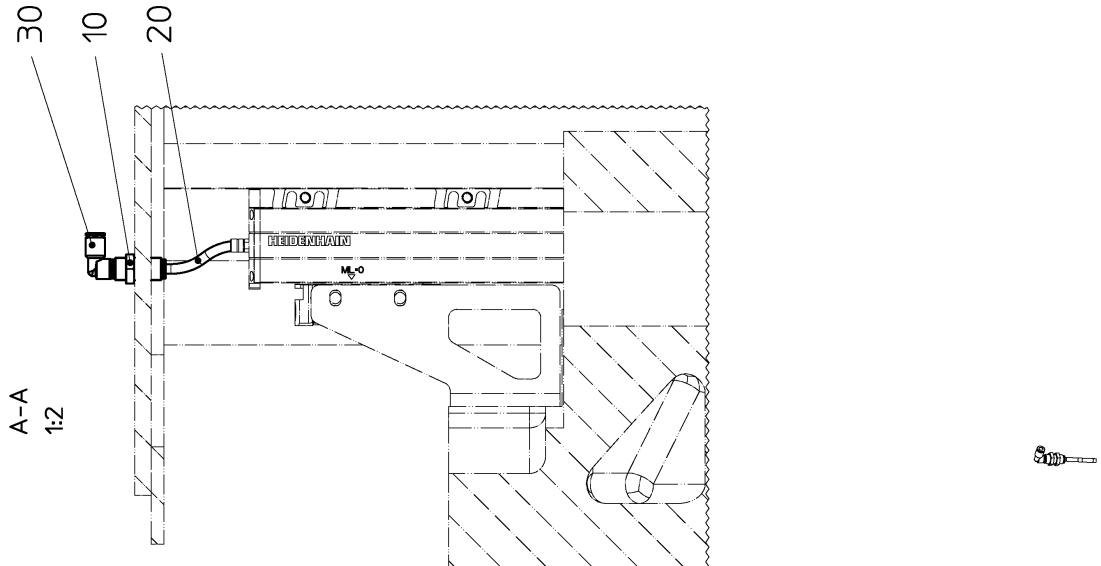
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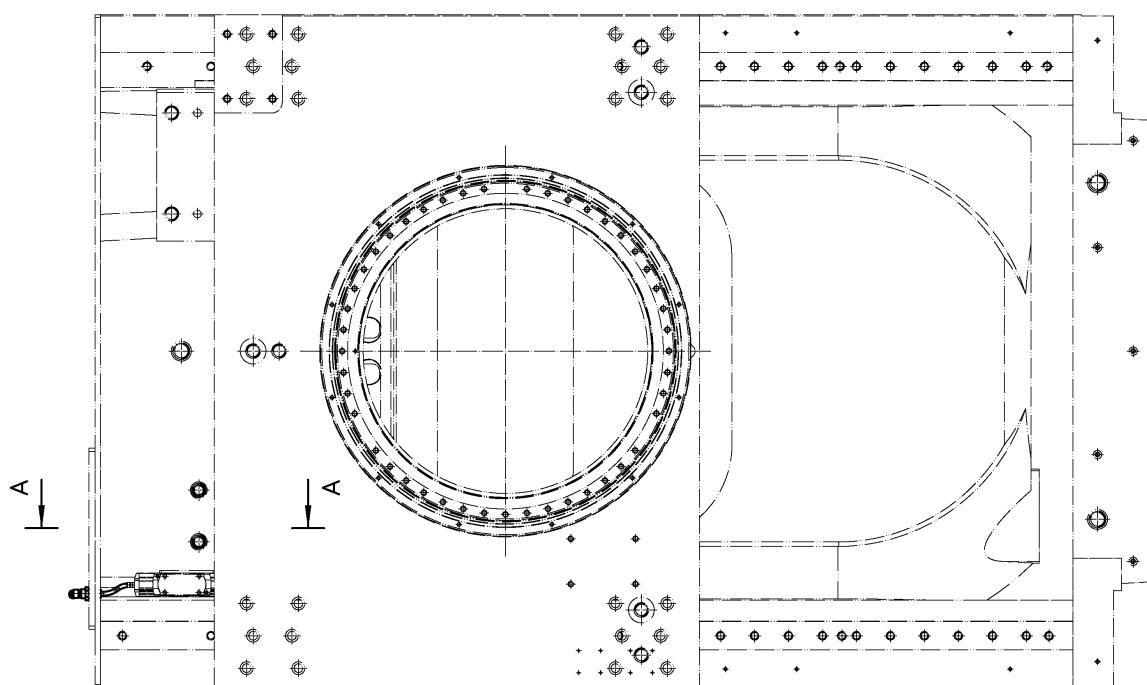
## SpeedViper 300 B axis balancing

Material no. 489043\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	483782A	Collector		1	ST		
11	258980A	Socket head screw M4x16		4	ST		
20	7837246A	Collector, rotating		1	ST		
21	171774A	Socket head screw M3x10		4	ST		
30	483783A	Balancing head		1	ST		
40	448806A	Acceleration sensor		2	ST		



465.0004-P101 00

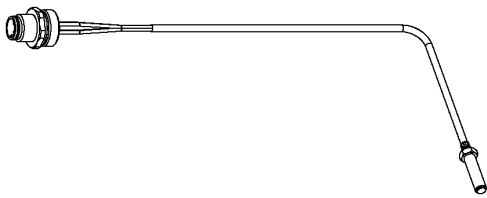




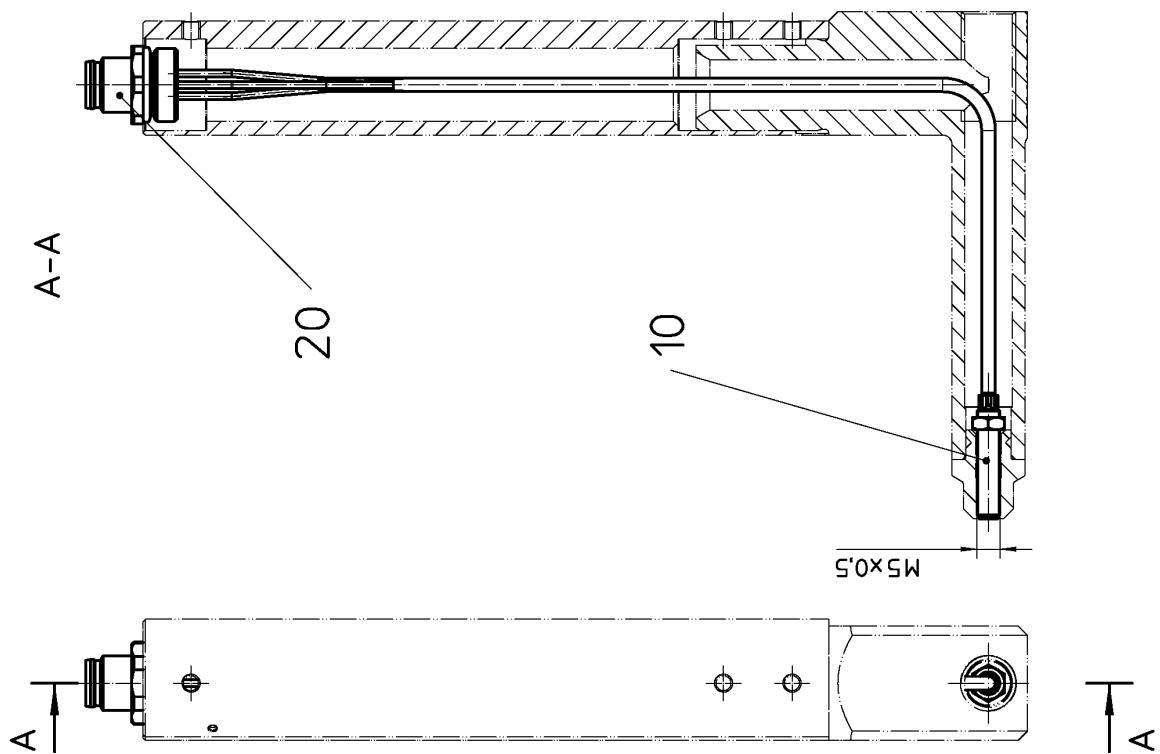
## SpeedViper 300 Z axis, pneumatics

Material no. 489062\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	356542A	Bulkhead push-in fitting NPGH-H-Q6-E-P10		1	ST		
20	299043A	Plastic hose		250	MM		
30	356939A	L-push-in fitting NPQM-L-Q6-S6-P10		1	ST		



465.0023-E101 00



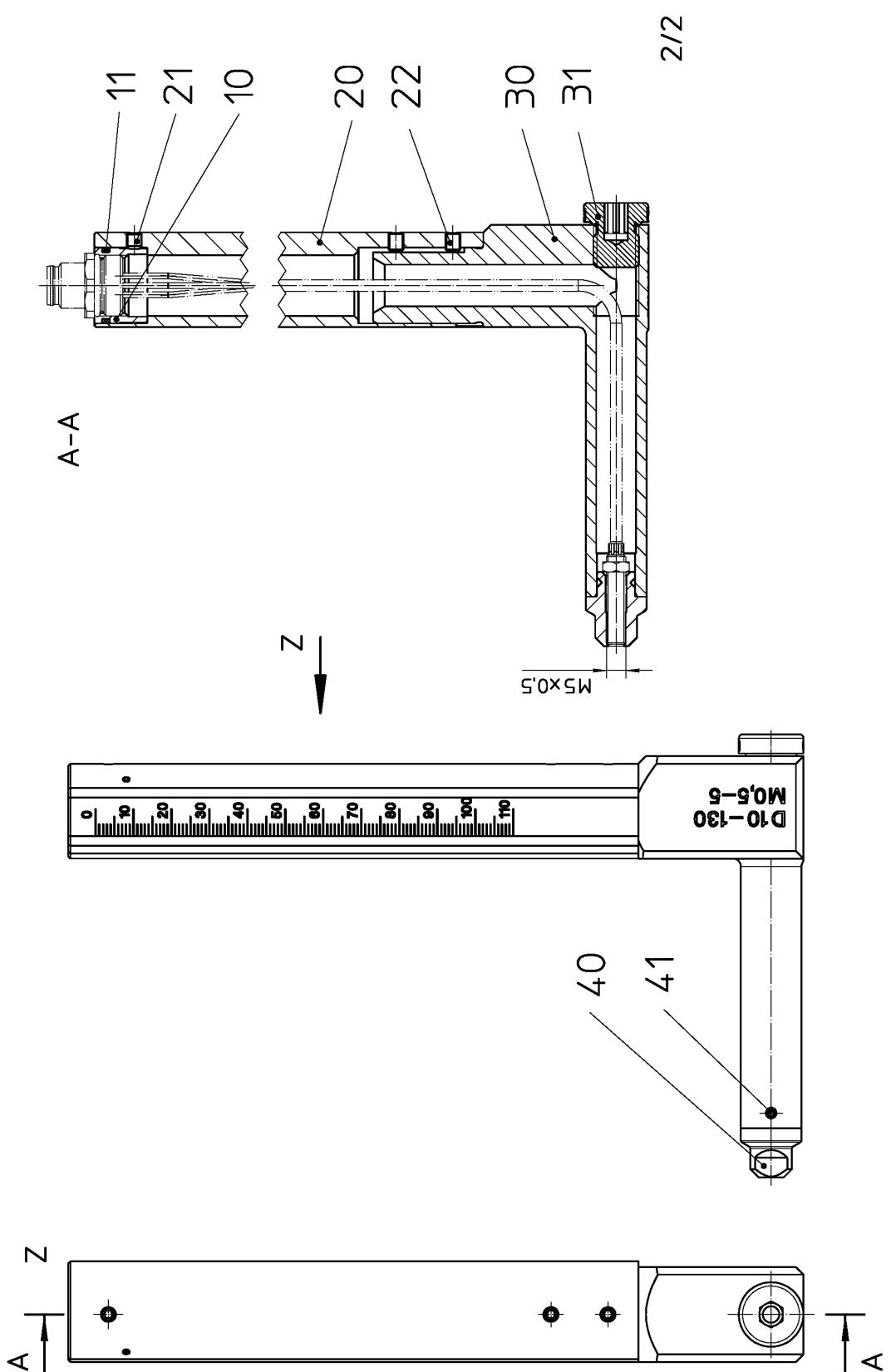


## SpeedViper 300 Electrical parts, gap sensor M5x0.5x27

Material no. 489067\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	7817685A	Proximity switch		1	ST		
20	459547A	Flange M12x1		1	ST		

465.0023-M101 00



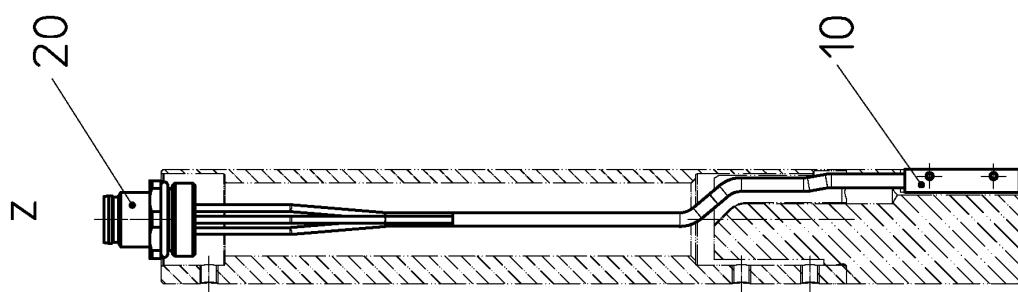
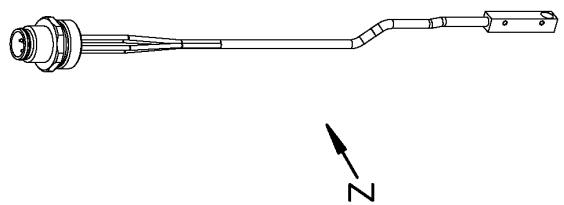


## SpeedViper 300 Headstock sensor holder

Material no. 489068\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	456900\$	Trough		1	ST		
11	316854A	Sealing ring 17.00x1.50 (NBR 70)		1	ST		
20	456901\$	Probe socket		1	ST		
21	062827A	Threaded pin M4x4 (quality 45H)		1	ST		
22	050963A	Threaded pin M4x5 (quality 45H)		2	ST		
30	477579\$	Elbow		1	ST		
31	7810645A	Screw plug M12X1.5		1	ST		
40	489066\$	Sensor mount		1	ST		
41	320260A	Threaded pin M3X4 (quality 45H, phosphor-treated)		2	ST		

465.0123-E101 00





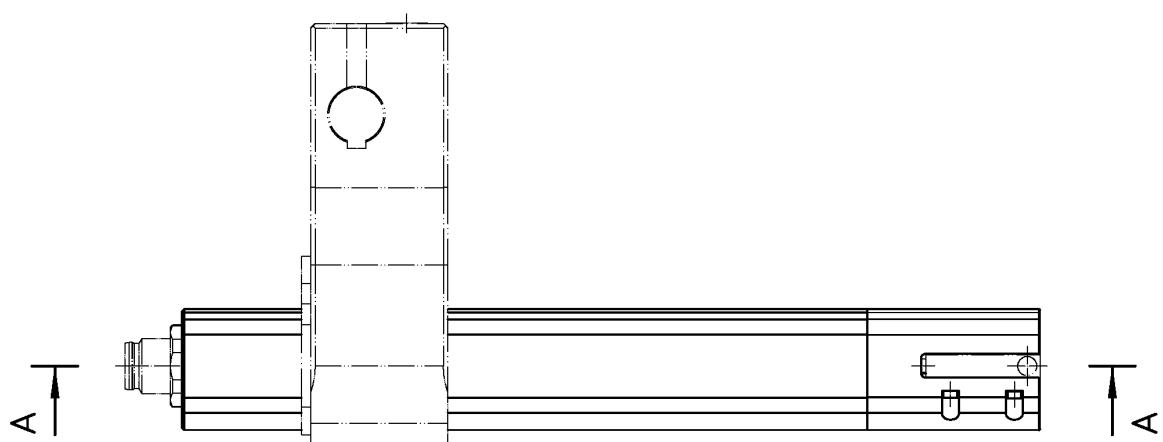
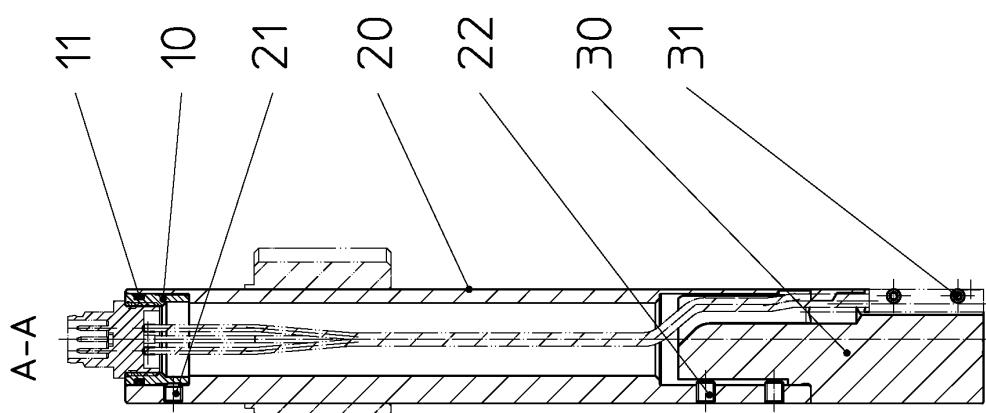
## SpeedViper 300 Electrical parts, gap sensor

Material no. 489070\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	459591A	Proximity switch		1	ST		
20	459547A	Flange M12x1		1	ST		

465.0123-M101 00

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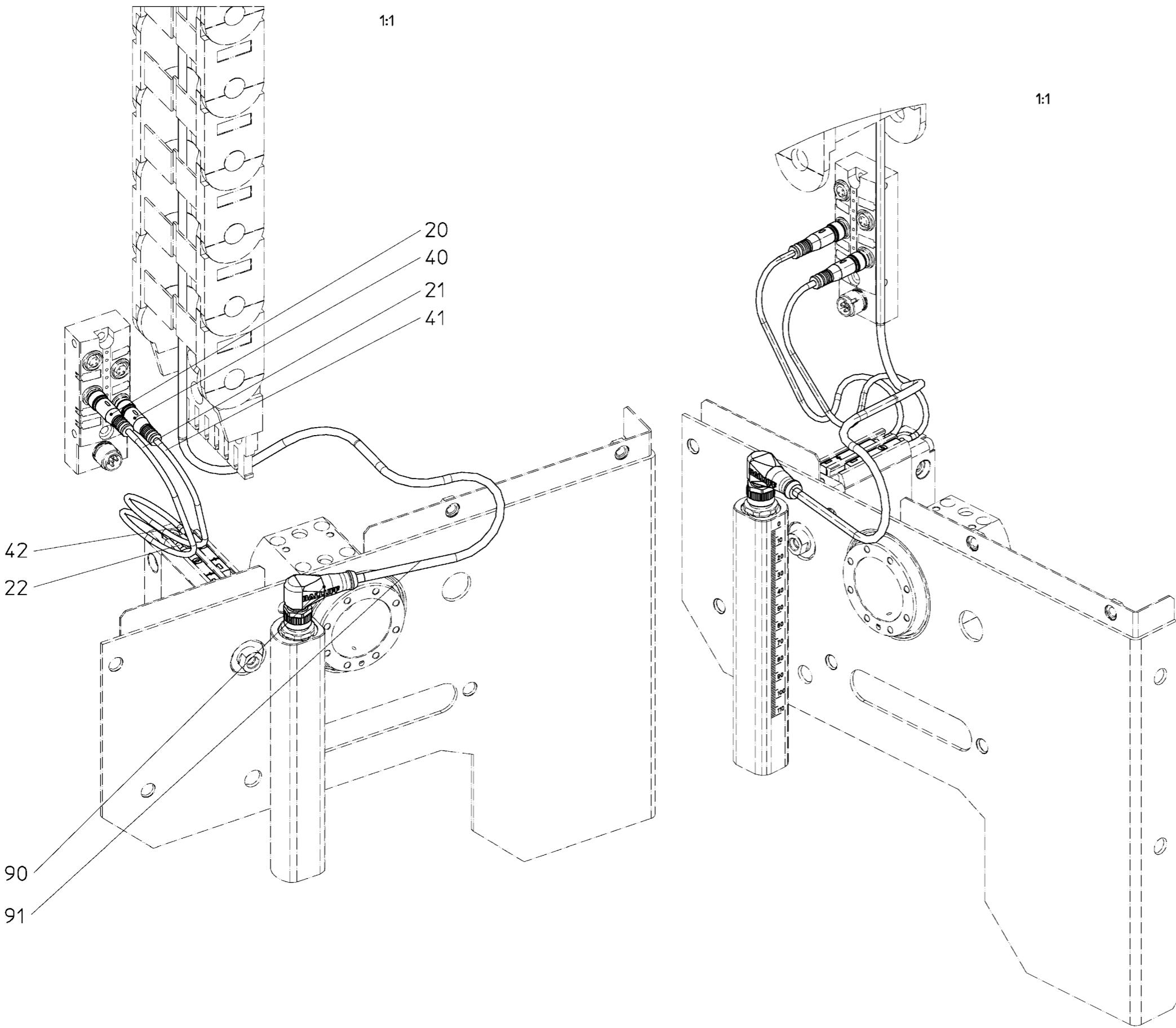




## SpeedViper 300 Headstock sensor holder

Material no. 489071\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	456900\$	Trough		1	ST		
11	316854A	Sealing ring 17.00x1.50 (NBR 70)		1	ST		
20	456901\$	Probe socket		1	ST		
21	062827A	Threaded pin M4x4 (quality 45H)		1	ST		
22	050963A	Threaded pin M4x5 (quality 45H)		2	ST		
30	489065\$	Sensor mount		1	ST		
31	136070A	Socket head screw M1.6x6 (strength class 12.9)		2	ST		



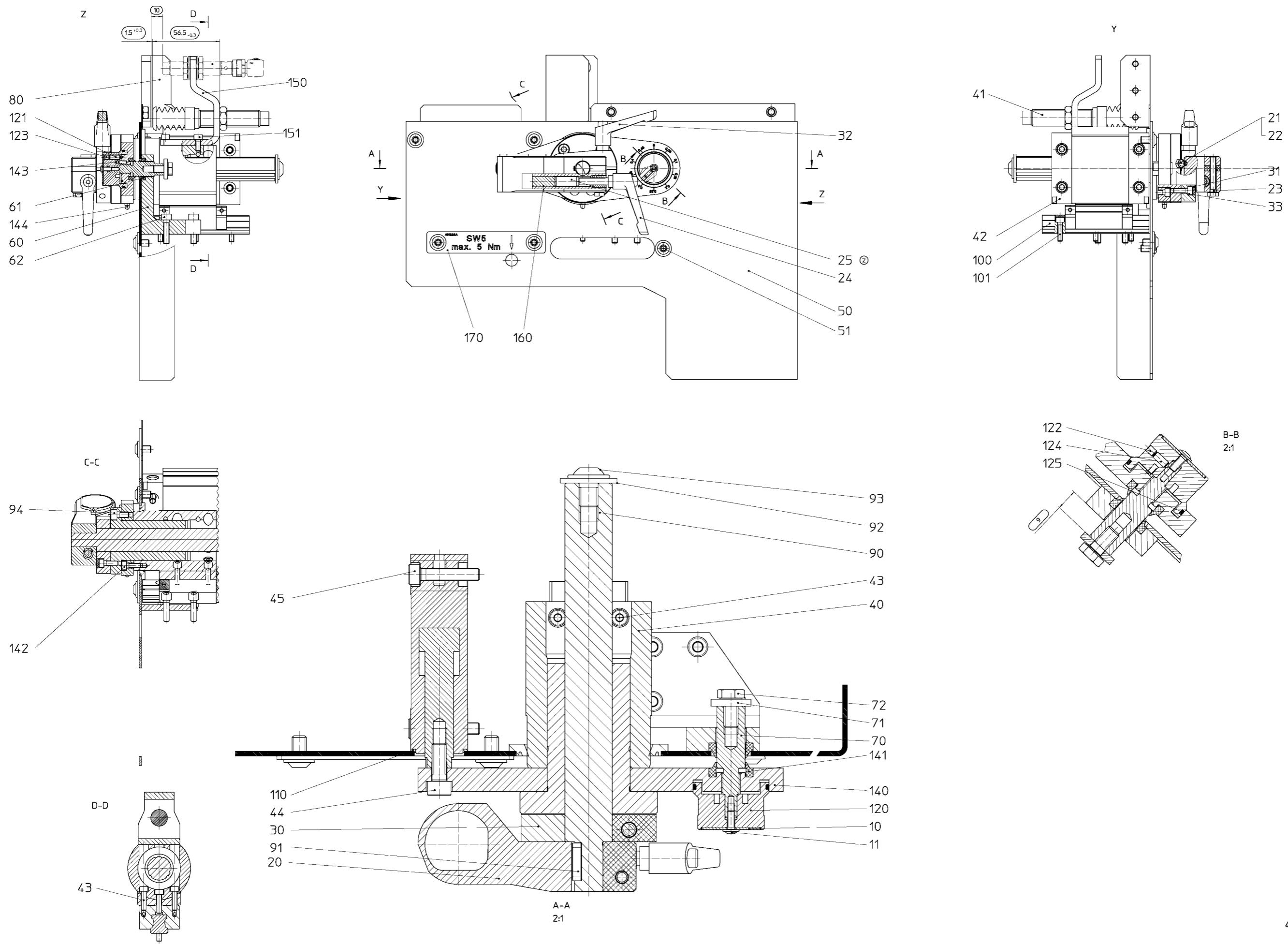
465.0322-E101 02



## SpeedViper 300 Electrical parts, adjusting device 1

Material no. 489074\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
20	459546A	Proximity switch		1	ST		
40	459546A	Proximity switch		1	ST		
60	456211A	Distance sensor		1	ST		
70	392475A	Connecting line AL-WWAKS4-03-WASS4/S370		1	ST		
90	392475A	Connecting line AL-WWAKS4-03-WASS4/S370		1	ST		
1000	459629\$	Set of signs		1	ST		



465.0322-M101 02



## SpeedViper 300 Headstock, adjusting device

Material no. 489075\$

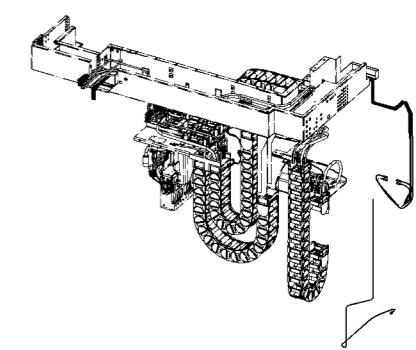
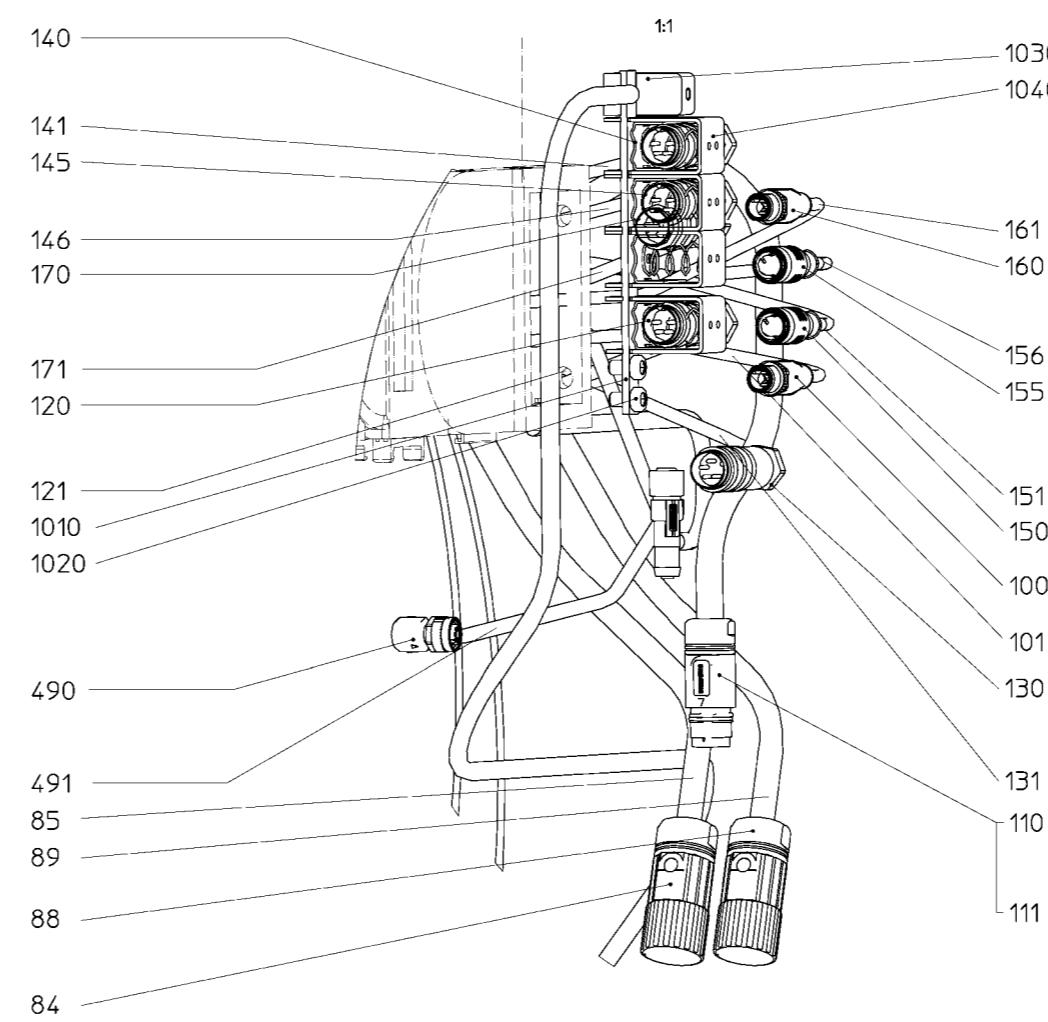
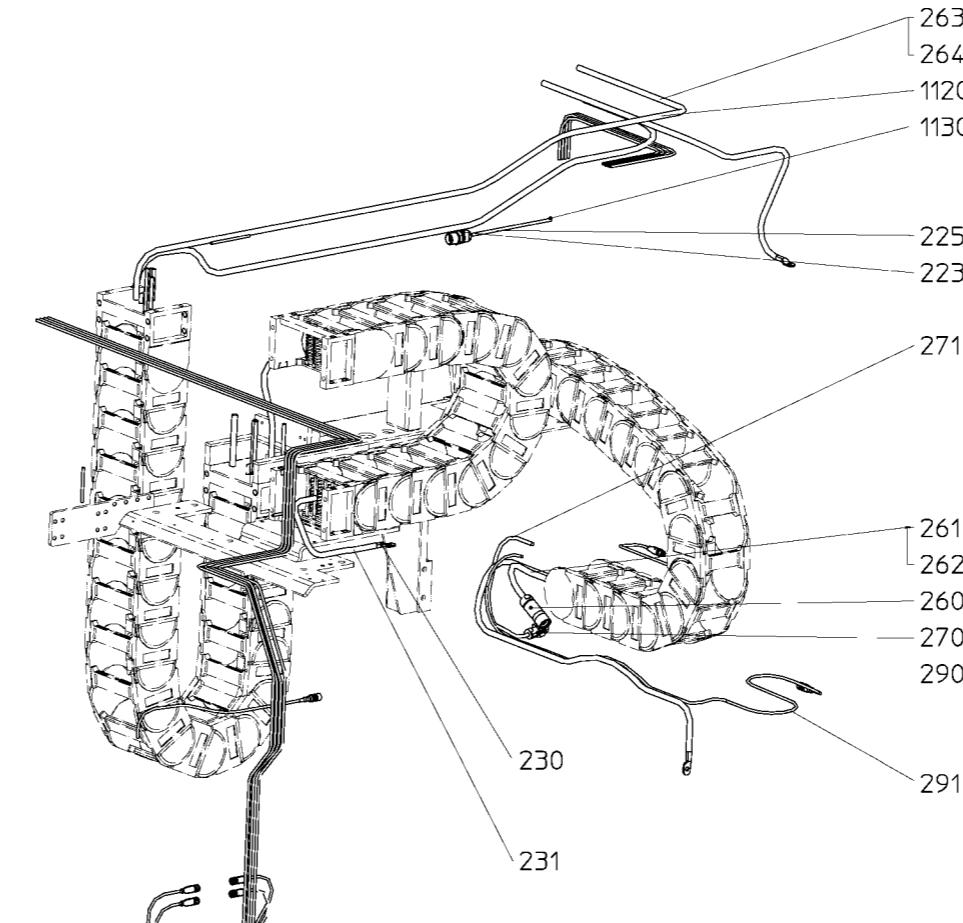
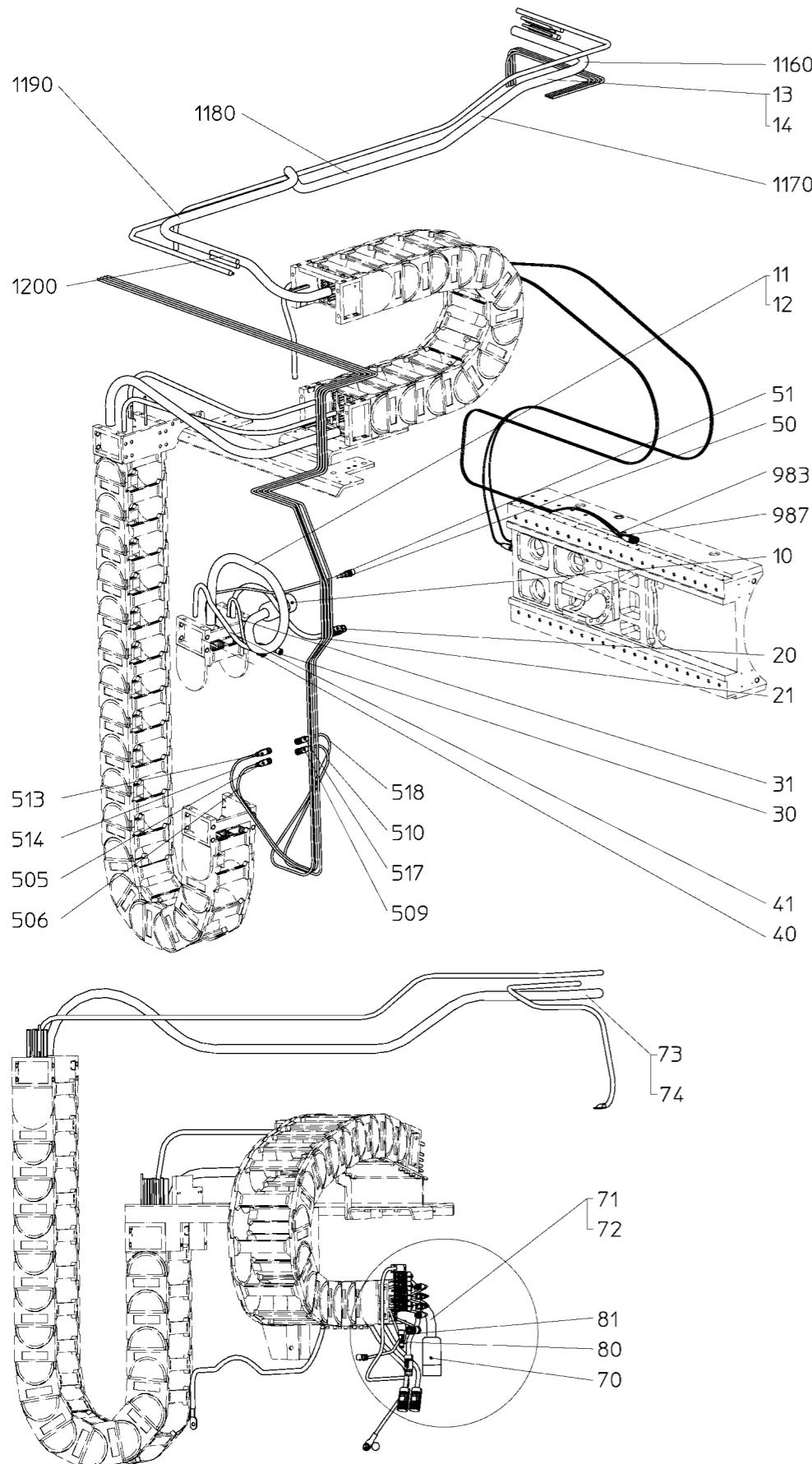
Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	460344A	Plate		1	ST		
11	325336A	Oval flange head screw M3x8 (strength class 10.9, galvanized)		1	ST		
20	489078\$	Measuring tube holder		1	ST		
21	322011A	Spring plunger GN615-M4-KN		1	ST		
22	051176A	Hexagon nut M4 A (strength class 8)		1	ST		
23	050701A	Hexagon screw M5x30 (strength class 8.8)		1	ST		
24	454608A	Clamping lever GN-300-45-M6-25-RS		1	ST		
25	051330A	Cylindrical pin 8 M6x18		1	ST		
30	489079\$	Clamping piece		1	ST		
31	7809181A	Plastic plug BRK 15		3	ST		
32	454608A	Clamping lever GN-300-45-M6-25-RS		1	ST		
33	258940A	Socket head screw M4x12		3	ST		
40	489080\$	Base seat		1	ST		
41	487903A	Shock absorber		1	ST		
42	487789A	Cylinder, flat		1	ST		
43	258980A	Socket head screw M4x16		6	ST		
44	050665A	Socket head screw M6x16		1	ST		
45	077508A	Socket head screw M5x25		4	ST		
50	487793A	Wiper		1	ST		
51	7803948A	Oval flange head screw M6x10		5	ST		
60	489081\$	Angle		1	ST		
61	454606A	Wiper WRM		1	ST		
62	077509A	Socket head screw M5x20		4	ST		
70	489082\$	Setting shaft		1	ST		
71	322564A	Plain washer 6.4 (phosphate)		1	ST		
72	078435A	Hexagon head screw M6X12 (strength class 8.8)		1	ST		
80	489178\$	Stop		1	ST		
90	487794A	Tapered grooved shaft		1	ST		
91	052845A	Feather key A 4x4x16 (construction steel with 50N/mm <sup>2</sup> strength and cold drawn)		1	ST		
92	322108A	Plain washer 8.4 (steel)		1	ST		



## SpeedViper 300 Headstock, adjusting device

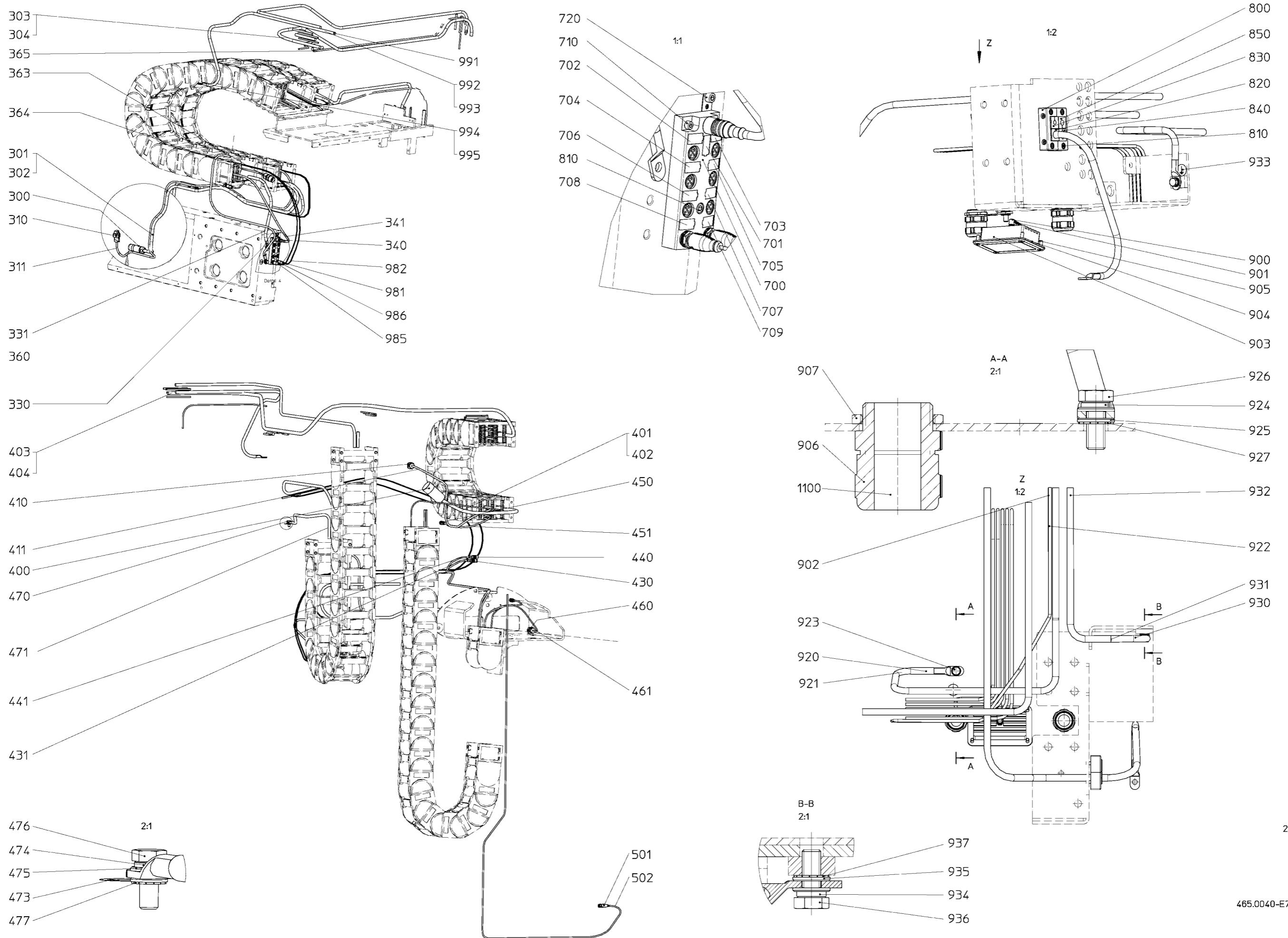
Material no. 489075\$

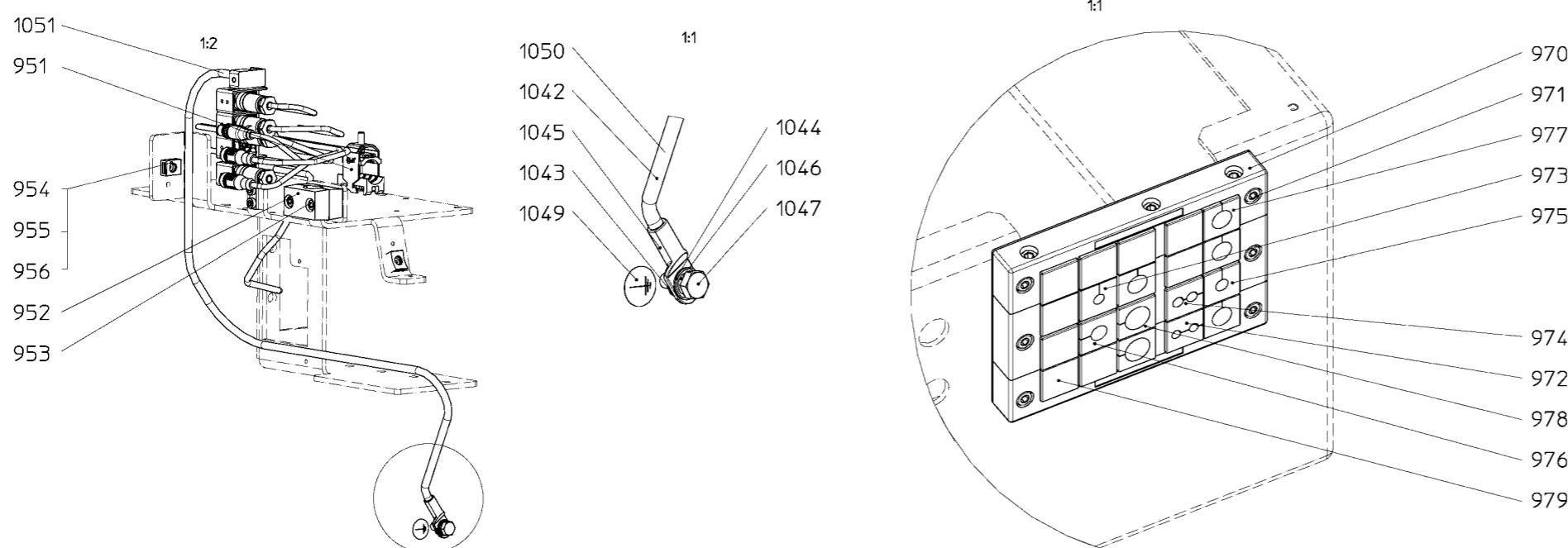
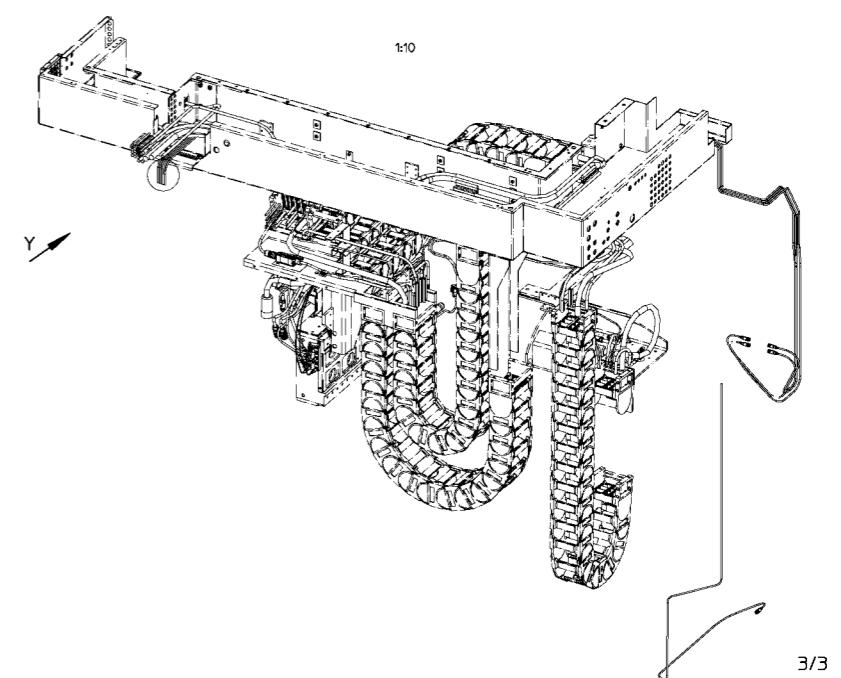
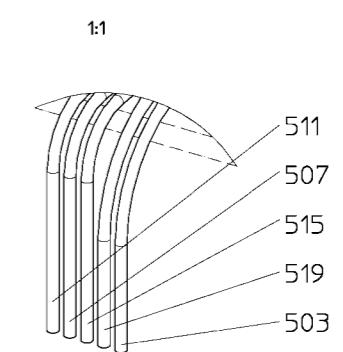
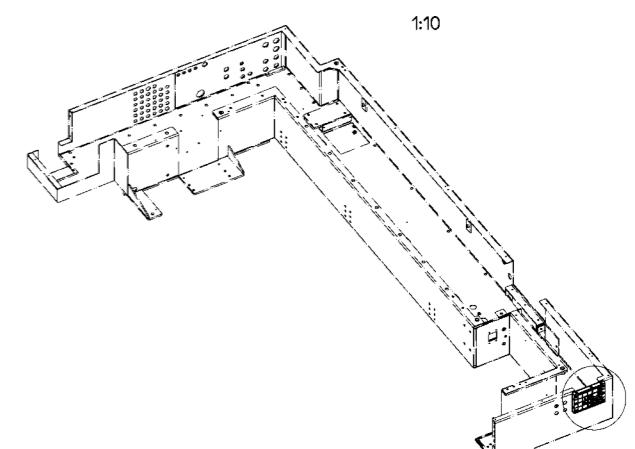
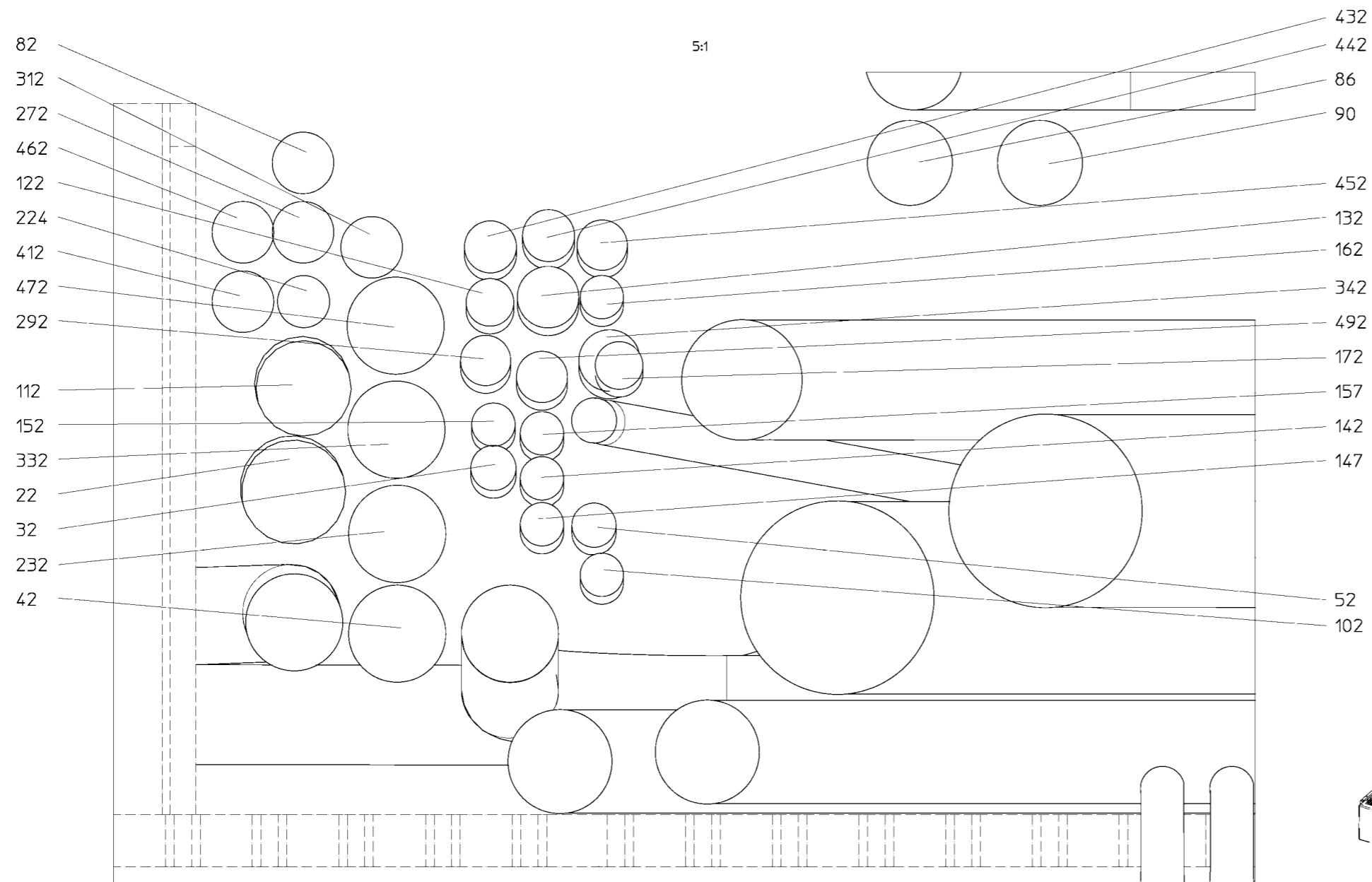
Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
93	454844A	Oval flange head screw M8x12 (strength class 10.9) black		1	ST		
94	053888A	Socket head screw M5x10		4	ST		
100	487795A	Linear guide Monorail BM15		1	ST		
101	258980A	Socket head screw M4x16		3	ST		
110	487797A	Seal		1	ST		
120	489083\$	Setting wheel		1	ST		
121	322011A	Spring plunger GN615-M4-KN		1	ST		
122	324237A	Threaded pin M3X4 (grade 45H, phosphated)		2	ST		
123	062827A	Threaded pin M4x4 (quality 45H)		1	ST		
124	051032A	Threaded pin M3x8 (grade 45H)		2	ST		
125	7808415A	Sealing ring 29.50x1.50		1	ST		
140	489084\$	Front plate		1	ST		
141	454606A	Wiper WRM		1	ST		
142	258940A	Socket head screw M4x12		8	ST		
143	051277A	Cylindrical pin 2 M6x8 (structural steel with 50 N/mm <sup>2</sup> strength and cold-drawn)		1	ST		
144	454607A	Lubricating nipple SN3-T ( M3)		1	ST		
150	487874A	Bracket for shock absorber		1	ST		
151	144420A	Socket head screw M4x10		4	ST		
160	489085\$	Thrust pad		1	ST		
170	491226A	Sign		1	ST		



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465.0040-E701 04





465.0040-E701 04



## SpeedViper 300 Electrical parts for power supply

Material no. 489231\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	456194A	Power cable		1	ST		
20	448698A	Signal line		1	ST		
30	448710A	DRIVE-CLiQ line 10m		1	ST		
40	456204A	Electrical line – A axis		1	ST		
50	333683A	Connecting line WAKS4-10-WASS4/S366		1	ST		
70	456194A	Power cable		1	ST		
80	448710A	DRIVE-CLiQ line 10m		1	ST		
84	307631A	Signal cable		1	ST		
88	307631A	Signal cable		1	ST		
100	333683A	Connecting line WAKS4-10-WASS4/S366		1	ST		
110	448698A	Signal line		1	ST		
120	448826A	Connection cable, 12-pin		1	ST		
130	333683A	Connecting line WAKS4-10-WASS4/S366		1	ST		
140	448825A	Connection cable, 4-pin		1	ST		
145	448825A	Connection cable, 4-pin		1	ST		
150	333683A	Connecting line WAKS4-10-WASS4/S366		1	ST		
155	333683A	Connecting line WAKS4-10-WASS4/S366		1	ST		
160	333683A	Connecting line WAKS4-10-WASS4/S366		1	ST		
170	448827A	Connection cable		1	ST		
223	7834479A	Extension		1	ST		
230	456205A	Electrical line – X axis		1	ST		
260	456195A	Power cable 6FX8002-5DS06-1BB0		1	ST		
270	391229A	Signal line 6FX8002-2DC10-1BC0		1	ST		
290	392763A	Connecting cable AL-WAKS4-11-AL-WASS4/S370		1	ST		
300	456196A	Power cable		1	ST		
310	391230A	Signal line		1	ST		
330	456208A	Electrical line pe – Y axis, shift carriage		1	ST		
340	333683A	Connecting line WAKS4-10-WASS4/S366		1	ST		
363	7821718A	Extension		1	ST		
400	456197A	Power cable		1	ST		
410	391227A	Signal line		1	ST		
430	333683A	Connecting line WAKS4-10-WASS4/S366		1	ST		



## SpeedViper 300 Electrical parts for power supply

Material no. 489231\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
440	333683A	Connecting line WAKS4-10-WASS4/S366		1	ST		
450	343308A	Connecting cable AL-WAKS4-08-AL-WASS4/S370		1	ST		
460	391227A	Signal line		1	ST		
470	456206A	Electrical line – Y axis, energy chains		1	ST		
473	097623A	Conductor symbol Earth sign		1	ST		
474	144081A	Spring-loaded ring A 8 (spring steel, zinc-plated)		1	ST		
475	051147A	Plain washer B8.4 (steel)		2	ST		
476	144071A	Hexagon screw M8x20 (strength class 8.8 / galvanized)		1	ST		
477	144082A	Serrated washer A 8.4 (steel, zinc-plated)		1	ST		
490	456444A	Connection cable		1	ST		
700	483921A	IO-link module BNI IOL-302-002-K006		1	ST		
710	077504A	Socket head screw M4x20		3	ST		
720	347842A	Socket head screw M5x6		1	ST		
730	362893A	Protective cap M12x1 ZVK		1	ST		
791	077510A	Socket head screw M5x16		6	ST		
800	356655A	Cable feedthrough strip		1	ST		
810	077509A	Socket head screw M5x20		4	ST		
820	343325A	Cable grommets KT12		1	ST		
830	343320A	Cable feedthrough bushing KT 7		1	ST		
840	454604A	Cable bushing KT 2/5 41200		1	ST		
850	343322A	Cable bushing KT 9		1	ST		
900	456239A	Connecting line		1	ST		
903	436275A	Control cabinet lighting		1	ST		
904	436276A	Installation gasket		1	ST		
905	261421A	Countersunk head screw M5x16 (strength class 8.8)		4	ST		
906	390250A	Cable gland TOP-T-S-EMV M32x1.5 15 - 21 mm		2	ST		
907	336355A	Hex nut M32x1.5		2	ST		
920	456244A	Electrical line, energy frame		1	ST		
923	097623A	Conductor symbol Earth sign		1	ST		
924	144081A	Spring-loaded ring A 8 (spring steel, zinc-plated)		1	ST		
925	051147A	Plain washer B8.4 (steel)		2	ST		
926	144071A	Hexagon screw M8x20 (strength class 8.8 / galvanized)		1	ST		



## SpeedViper 300 Electrical parts for power supply

Material no. 489231\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
927	144082A	Serrated washer A 8.4 (steel, zinc-plated)		1	ST		
930	456244A	Electrical line, energy frame		1	ST		
933	097623A	Conductor symbol Earth sign		1	ST		
934	144081A	Spring-loaded ring A 8 (spring steel, zinc-plated)		1	ST		
935	051147A	Plain washer B8.4 (steel)		2	ST		
936	144071A	Hexagon screw M8x20 (strength class 8.8 / galvanized)		1	ST		
937	144082A	Serrated washer A 8.4 (steel, zinc-plated)		1	ST		
951	434690A	Clamp cfx 22.1 (20-22mm)		1	ST		
952	442792A	Clamping jaw pair LKP-3-R-20-PP		1	PAA		
953	259206A	Socket head screw M6x35		2	ST		
954	356330A	Hook and loop fastener base KBS 4-20		2	ST		
955	291507A	Countersunk screw M4x6 (strength class 8.8)		2	ST		
956	461537A	Hook and loop fastener strap 7.5mm		300	MM		
970	480233A	Cable feedthrough strip		1	ST		
971	077510A	Socket head screw M5x16		6	ST		
972	454604A	Cable bushing KT 2/5 41200		1	ST		
973	343319A	Cable bushing KT 6 41206		1	ST		
974	7824446A	Cable grommets KT2/6		1	ST		
975	343320A	Cable feedthrough bushing KT 7		1	ST		
976	343322A	Cable bushing KT 9		1	ST		
977	343324A	Cable grommets KT11		4	ST		
978	343327A	Cable bushing		2	ST		
979	343347A	Cable grommets BTK		9	ST		
1010	7826028A	Busbar		0,14	M		
1020	050879A	Socket head screw M6x10 (strength class 10.9)		2	ST		
1030	7827143A	Busbar clamp 1.5 – 16 mm2		1	ST		
1040	424857A	Clamp strap		4	ST		
1060	053888A	Socket head screw M5x10		2	ST		
1070	356330A	Hook and loop fastener base KBS 4-20		5	ST		
1080	461537A	Hook and loop fastener strap 7.5mm		500	MM		
1090	291507A	Countersunk screw M4x6 (strength class 8.8)		5	ST		
1100	7824534A	Sealing insert without bore hole 664.2900.08		2	ST		



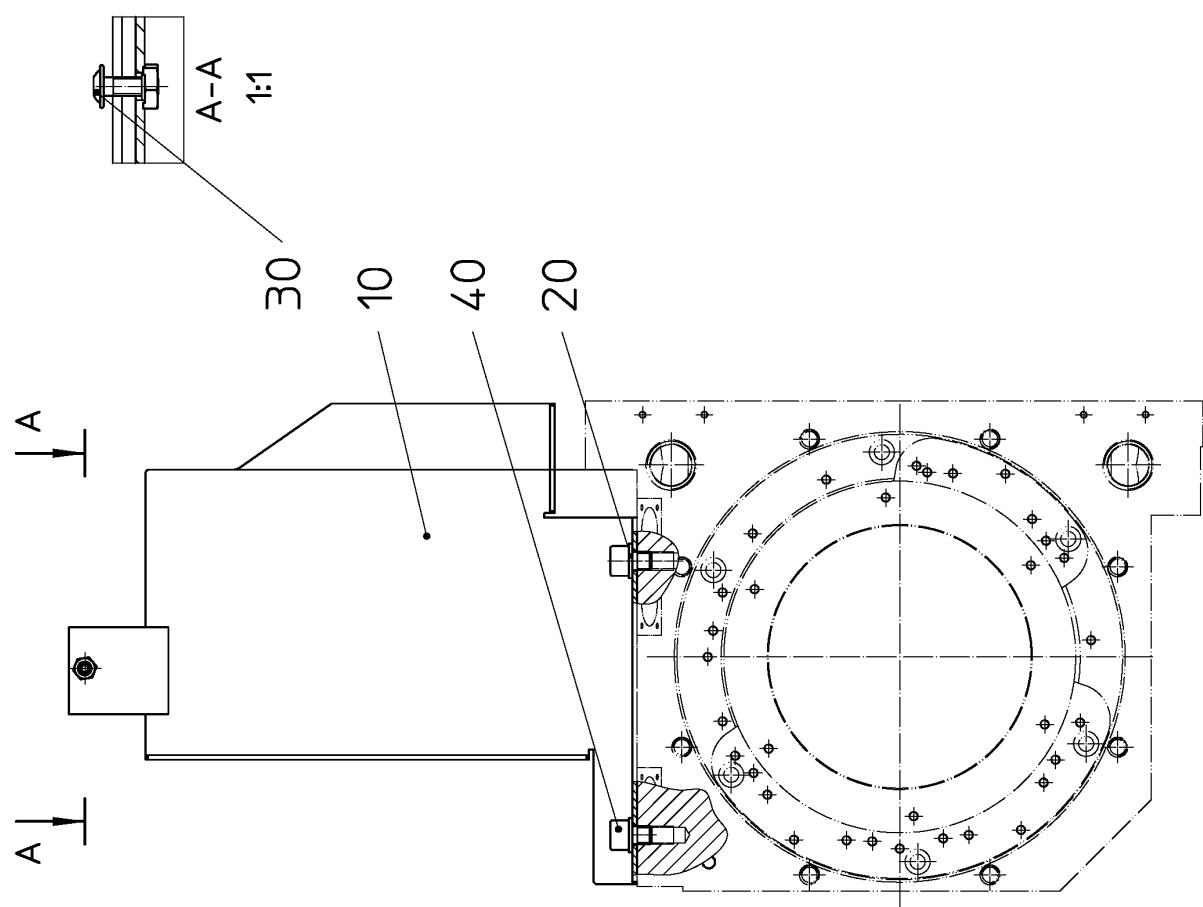
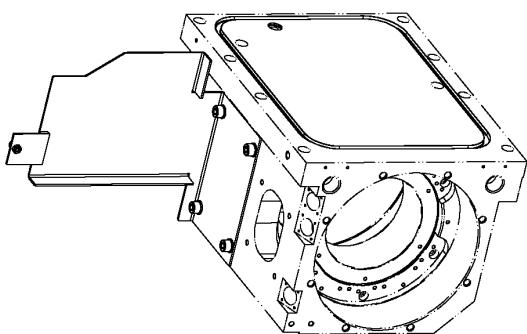
## SpeedViper 300 Electrical parts for power supply

Material no. 489231\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
1120	461546A	Hook and loop fastener strap 20mm		300	MM		
1130	461546A	Hook and loop fastener strap 20mm		300	MM		
1140	461546A	Hook and loop fastener strap 20mm		300	MM		
1160	461546A	Hook and loop fastener strap 20mm		300	MM		
1170	461546A	Hook and loop fastener strap 20mm		300	MM		
1180	461546A	Hook and loop fastener strap 20mm		300	MM		
1190	461546A	Hook and loop fastener strap 20mm		300	MM		
1200	461546A	Hook and loop fastener strap 20mm		300	MM		
5000	489244\$	Set of signs		1	ST		

465.0910-M102 00

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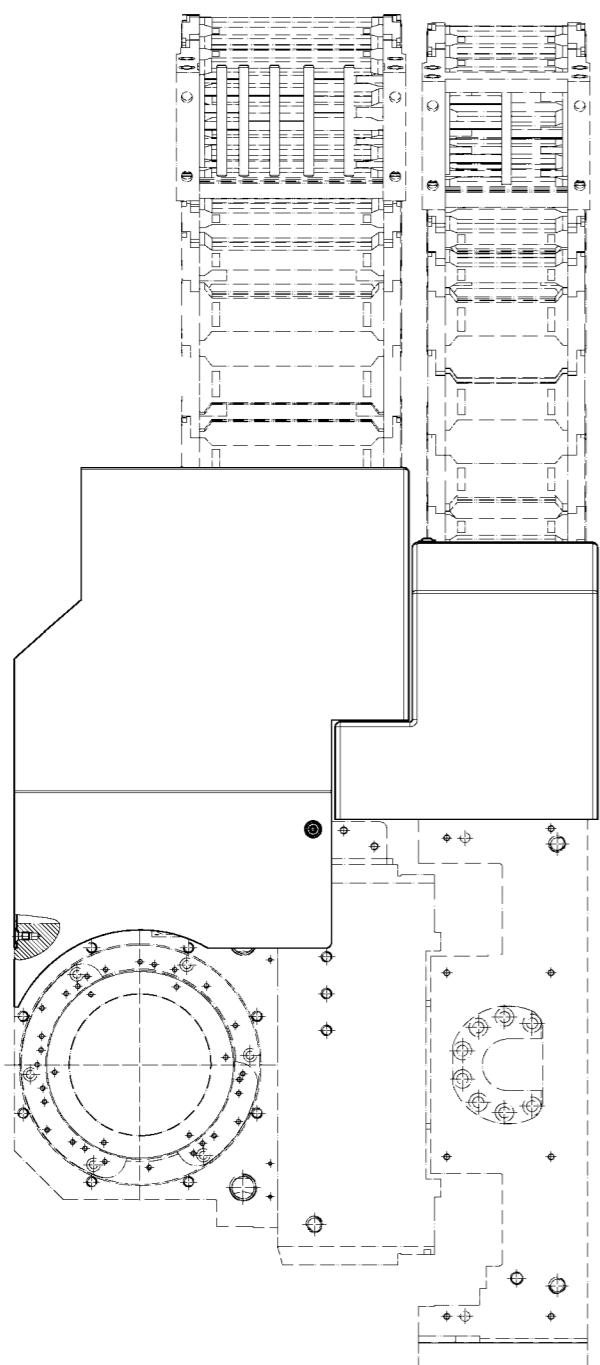


## SpeedViper 300 Cover plates

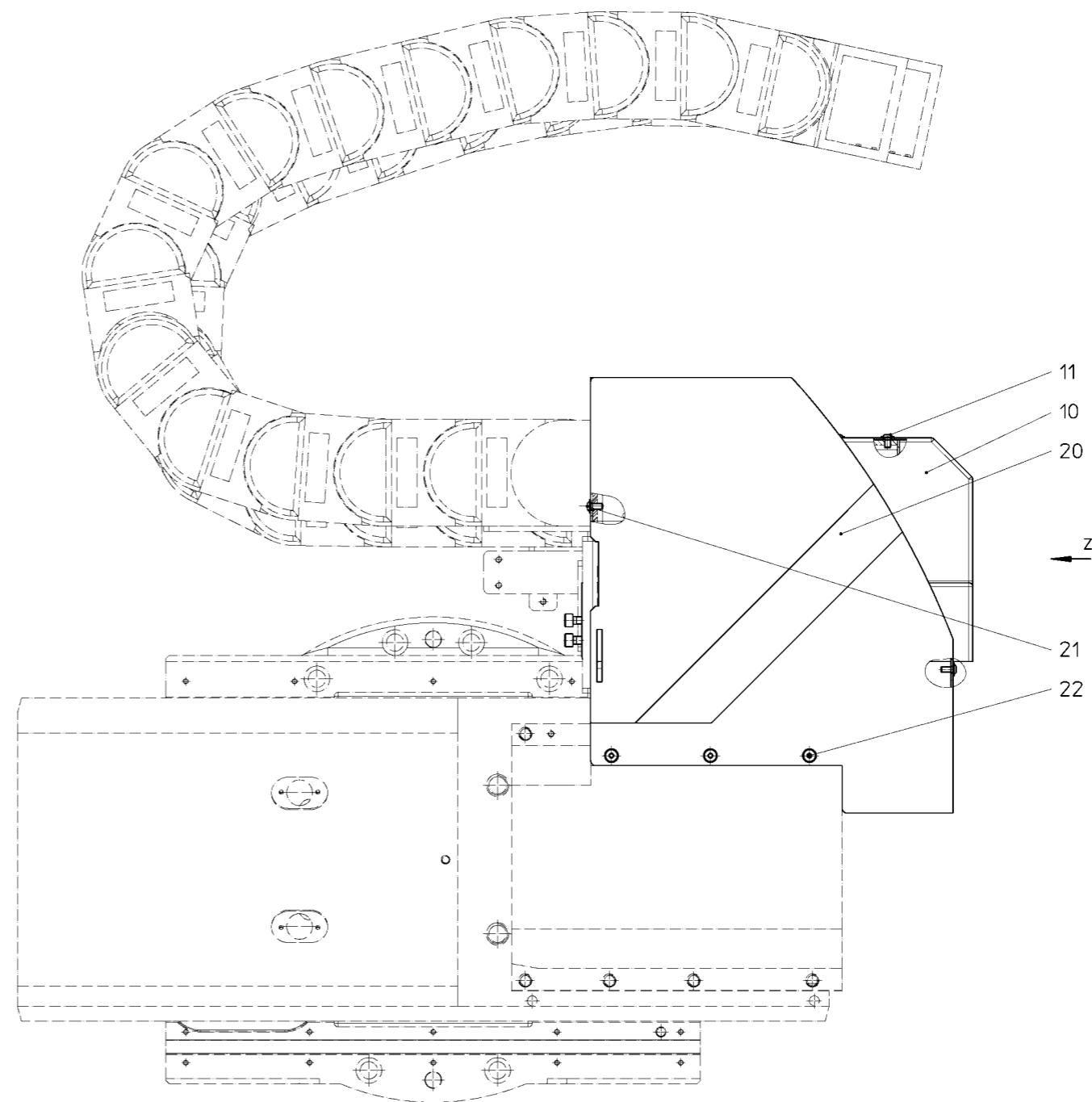
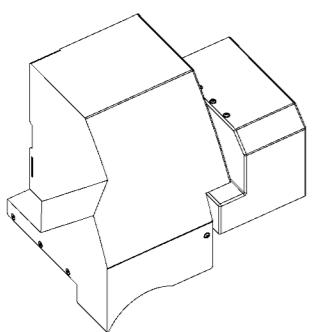
Material no. 489285\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	489686A	Cover angle		1	ST		
20	284787A	Plain washer 8.4 (steel)		4	ST		
30	461549A	Oval flange head screw M4x12 (strength class 10.9, black)		1	ST		
40	261618A	Socket head screw M8X10 (strength class 12.9)		4	ST		

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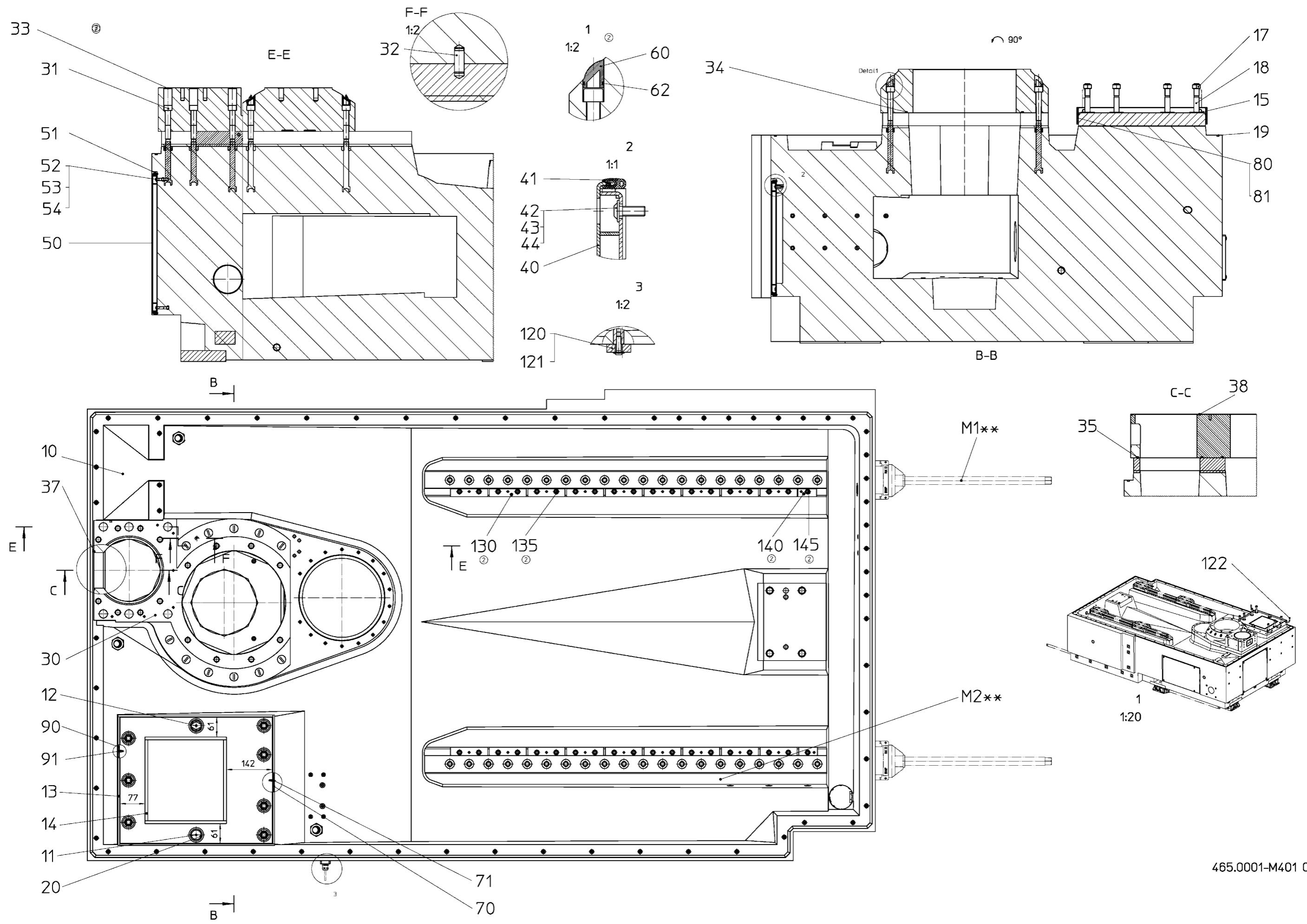
465.0032-M20200



## SpeedViper 300 Cover, power supply

Material no. 489286\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	457589A	A axis cover		1	ST		
11	289373A	Oval flange head screw M6X10 (strength class 10.9)		3	ST		
20	489688A	Y axis cover		1	ST		
21	303336A	Oval flange head screw M6x12 (strength class 10.9)		2	ST		
22	050945A	Countersunk head screw M6x12 (strength class 8.8)		3	ST		





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## SpeedViper 300 Machine bed foundation

Material no. 489320\$

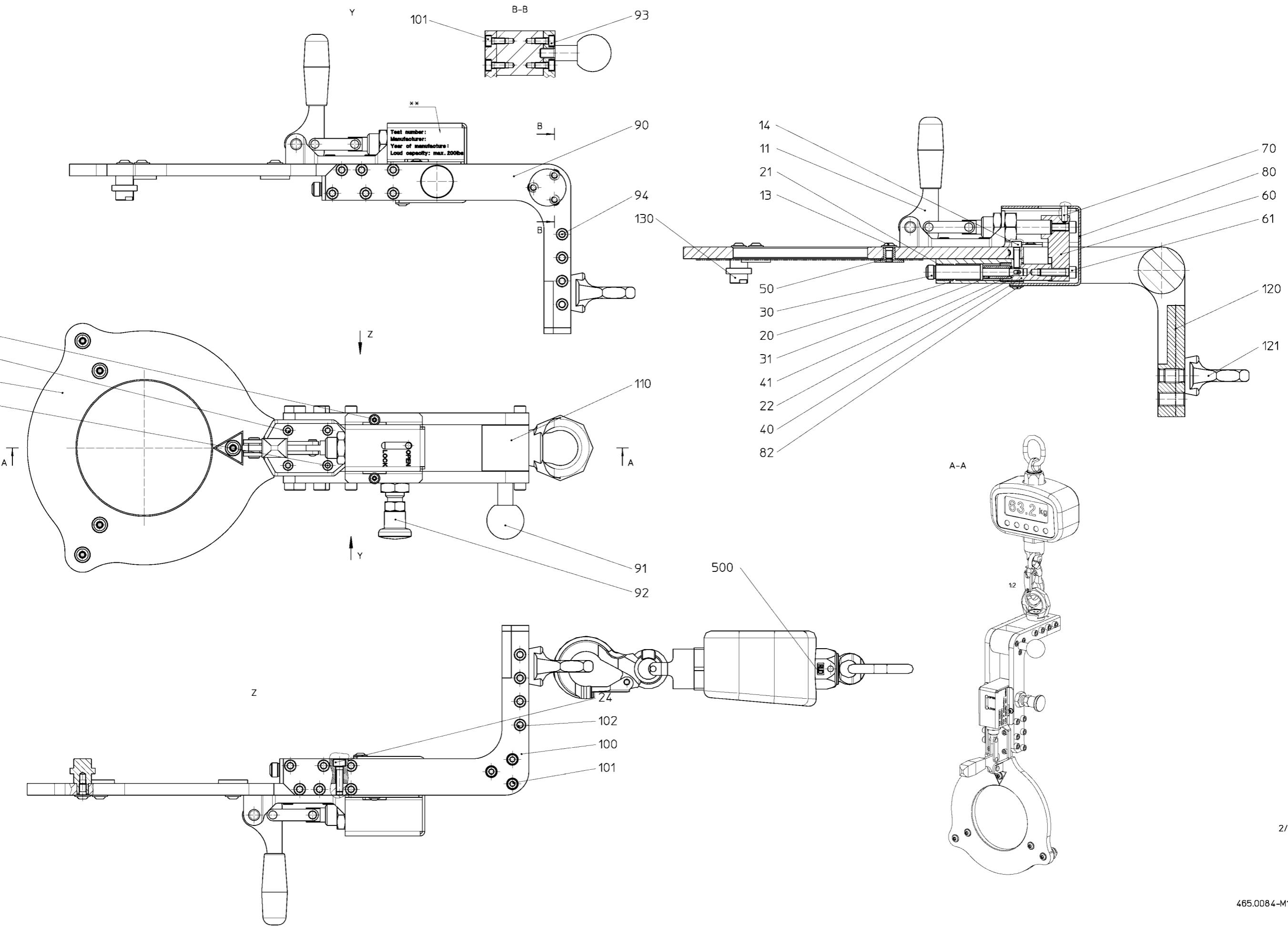
Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	489339\$	Machine bed		1	ST		
11	457803A	Locating pin NLM 03107-30		1	ST		
12	454314A	Locating pin NLM 03107-302		1	ST		
13	171215A	Foamed rubber sealing tape 5x4 mm		4000	MM		
14	7802603A	Foamed rubber profile 9x4 mm SKC		1500	MM		
15	7802608A	Foamed rubber ring M32D34.0/42 mm		7	ST		
17	320105A	Hexagonal nut M16 (strength class 8)		7	ST		
18	051113A	Stud bolt M16x90 (strength class 8.8)		7	ST		
19	055631A	Cord packing 5 (NB 70)		8000	MM		
20	7802616A	Foam rubber ring M36D37.5/46MM		2	ST		
30	451840\$	Trough		1	ST		
31	077584A	Socket head screw M16x90		17	ST		
32	278670A	Cylindrical pin 12 M6x32		2	ST		
33	452497A	Cover plugs MRS 65		6	ST		
34	074877A	Sealing ring 355.00x5.00 (NBR 70)		1	ST		
35	074860A	O-ring 217.00x5.00 (NBR 70)		1	ST		
37	074812A	Sealing ring 110.00x3.00 (NBR 70)		1	ST		
40	457609A	Door front		1	ST		
41	417420A	Sealing profile EPDM		1900	MM		
42	7835421A	Captive screw M6x16		4	ST		
43	7835422A	Savetix M6-6.1x21.5x0.6 washer 1.4301		4	ST		
44	051146A	Plain washer B6,4 (steel)		4	ST		
50	457610A	Door right		1	ST		
51	417420A	Sealing profile EPDM		1900	MM		
52	7835421A	Captive screw M6x16		4	ST		
53	7835422A	Savetix M6-6.1x21.5x0.6 washer 1.4301		4	ST		
54	051146A	Plain washer B6,4 (steel)		4	ST		
60	457616A	Plug		11	ST		
61	078584A	Threaded pin M6x25 (quality 45H)		11	ST		
62	055413A	O-Ring 20,00x2,50 (NBR 70)		11	ST		
63	7807654A	Cover plugs MRS 35		11	ST		
70	455485\$	Molding strip, short		1	ST		



## SpeedViper 300 Machine bed foundation

Material no. 489320\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
71	261087A	Countersunk head screw M5x12 (strength class 8.8)		5	ST		
72	7802135A	PVC hose I10x2.0 without fabric insert		2500	MM		
73	7802578A	Joint faces SKC X58L 0.50 kg		2	ST		
80	455486\$	Molding strip, long		2	ST		
81	261087A	Countersunk head screw M5x12 (strength class 8.8)		12	ST		
90	455499\$	Molding strip, short		1	ST		
91	261087A	Countersunk head screw M5x12 (strength class 8.8)		5	ST		
120	456802\$	Plate for temperature sensors		1	ST		
121	454843A	Oval flange head screw M6x20 (strength class 10.9) black		2	ST		
122	333856A	Standpipe		5	ST		





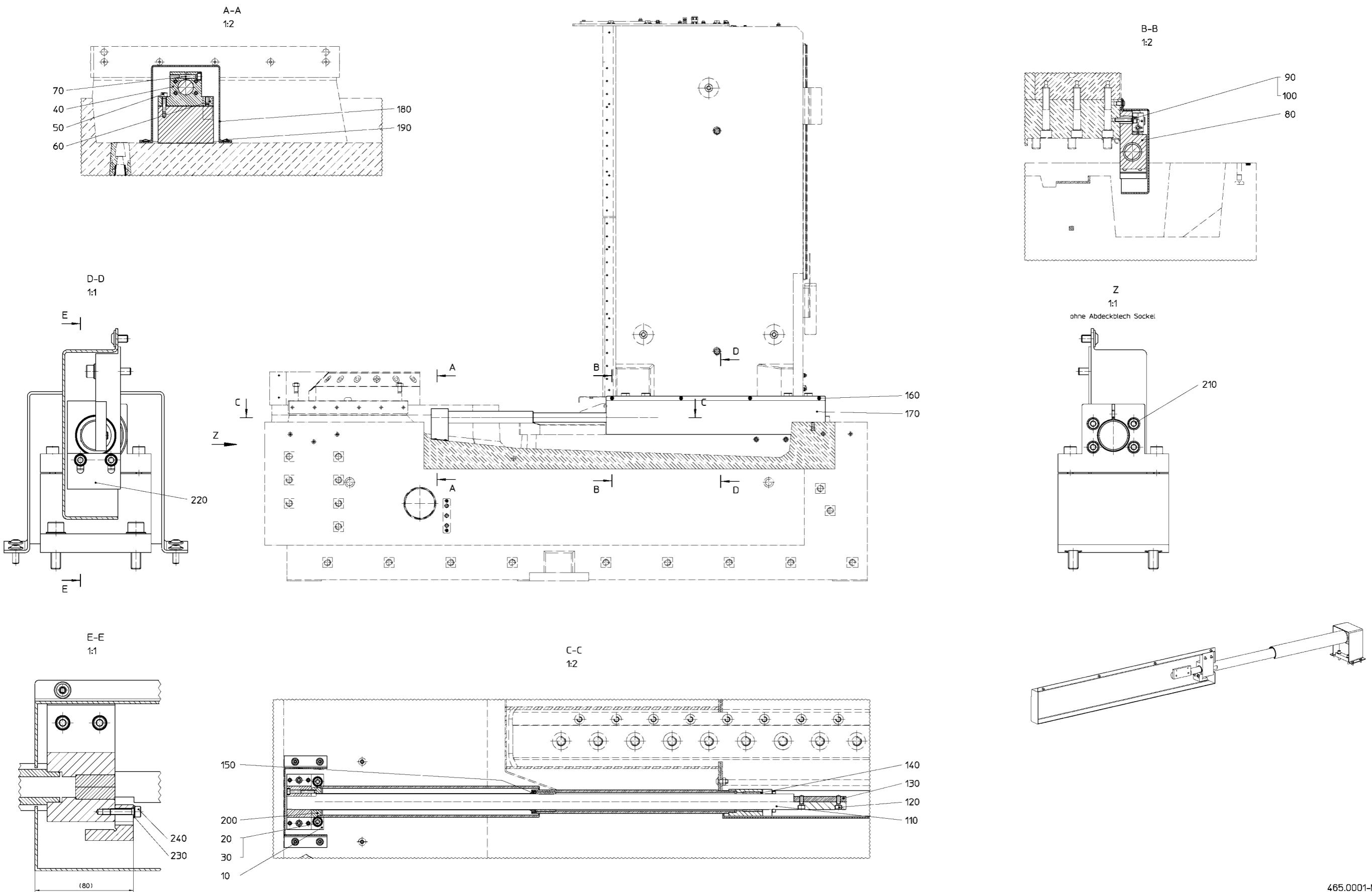
Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	489386\$	Basic carrier		1	ST		
11	461044A	Push rods tensioner GN841-120-AS		1	ST		
12	299921A	Socket head screw M5x10 (strength class 12.9, galvanized)		2	ST		
13	289373A	Oval flange head screw M6X10 (strength class 10.9)		5	ST		
14	262974A	Socket head screw M5x18		2	ST		
15	077509A	Socket head screw M5x20		2	ST		
20	481127\$	Bearing housing		1	ST		
21	461045A	Cylinder plain bearing GSM-1214-15		1	ST		
22	461157A	Cylinder plain bearing GSM-1416-20		1	ST		
23	149116A	Socket head screw M6x22		4	ST		
30	481128\$	Locating plunger		1	ST		
31	461047A	Gas compression spring 2x9x11 D-262A-15		1	ST		
40	481129\$	Probe sleeve		1	ST		
41	051284A	Cylindrical pin 3 M6X12 (structural steel with 50N/mm <sup>2</sup> strength and cold-drawn/free-cutting steel with 0.09 % carbon and 0.2 % sulfur, cold-drawn)		1	ST		
50	481788A	Sliding pin		3	ST		
60	481130\$	Connecting rail		1	ST		
61	050938A	Socket head screw M6x25		2	ST		
70	481131\$	Cylindrical pin		1	ST		
80	481789A	Cover		1	ST		
81	280725A	Oval flange head screw M4x8 (strength class 10.9)		2	ST		
82	289080A	Oval flange head screw M5x8		2	ST		
90	481132\$	Stop strip		1	ST		
91	461048A	Rotating ball knob GN319.5-32-M8-A		1	ST		
92	461156A	Indexing plunger GN 817-8-8-BK		1	ST		
93	053887A	Socket head screw M5x12		3	ST		
94	050937A	Socket head screw M6x20		10	ST		
100	481133\$	Stop strip		1	ST		
101	050937A	Socket head screw M6x20		10	ST		
102	053887A	Socket head screw M5x12		3	ST		
110	481134\$	Connection		1	ST		



## SpeedViper 300 Axis foundation

Material no. 489401\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
120	481135\$	Plate		1	ST		
121	414206A	Vario star point VRS-M12		1	ST		
130	481136\$	Roll		2	ST		
500	481847A	Crane scale 413-PCE-CS300		1	ST		



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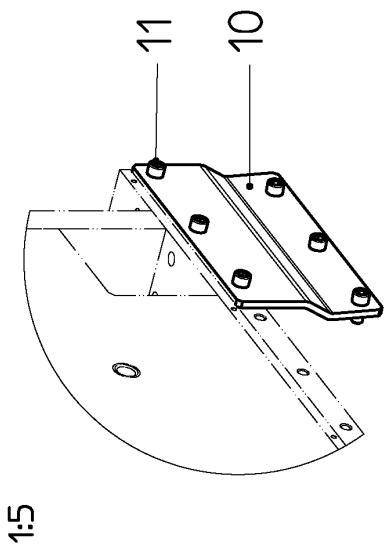


## SpeedViper 300 X axis

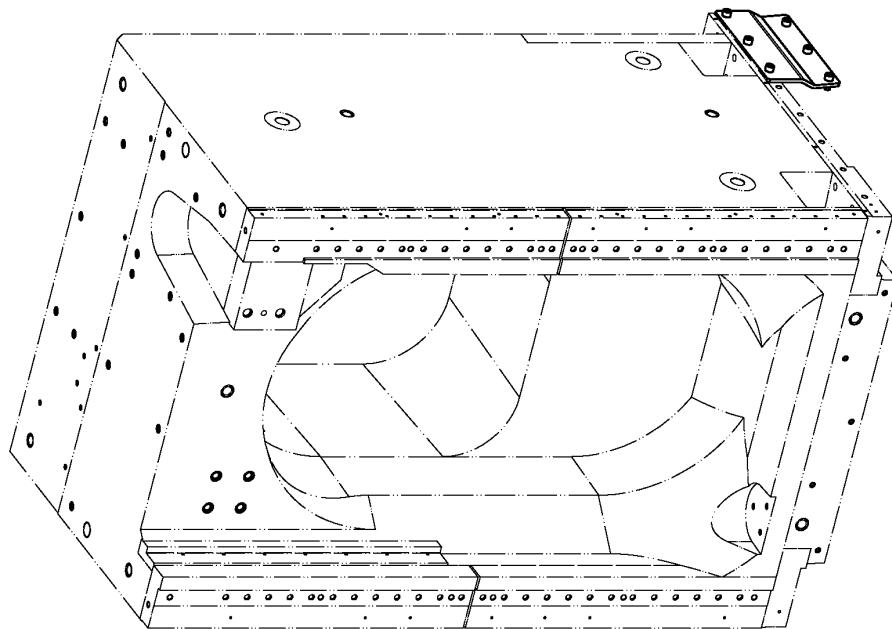
Material no. 489412\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	489413\$	Pedestal		1	ST		
20	051147A	Plain washer B8.4 (steel)		2	ST		
30	050942A	Socket head screw M8x30		2	ST		
40	489414\$	Clamp mount		1	ST		
50	050938A	Socket head screw M6x25		2	ST		
60	051001A	Threaded pin M6x16 (quality 45H)		4	ST		
70	050939A	Socket head screw M6x30		2	ST		
80	489415\$	Guide casing		1	ST		
90	050939A	Socket head screw M6x30		2	ST		
100	051146A	Plain washer B6,4 (steel)		2	ST		
110	489416\$	Bar		1	ST		
120	050665A	Socket head screw M6x16		2	ST		
130	486621\$	Plate		1	ST		
140	425277A	Sliding bearing JSM 2532-32 Iglidur		2	ST		
150	055614A	Wiper AS 25-35-7-10		1	ST		
160	489777A	Rear cover plate, side		1	ST		
170	289373A	Oval flange head screw M6X10 (strength class 10.9)		4	ST		
180	489778A	Cover sheet, base		1	ST		
190	461552A	Oval flange head screw M5x12 (strength class 10.9) black		4	ST		
200	489417\$	Protective pipe		1	ST		
210	148377A	Socket head screw M5x40		4	ST		
220	489557\$	Angle		1	ST		
230	051145A	Plain washer B5.3 (steel)		1	ST		
240	077509A	Socket head screw M5x20		2	ST		

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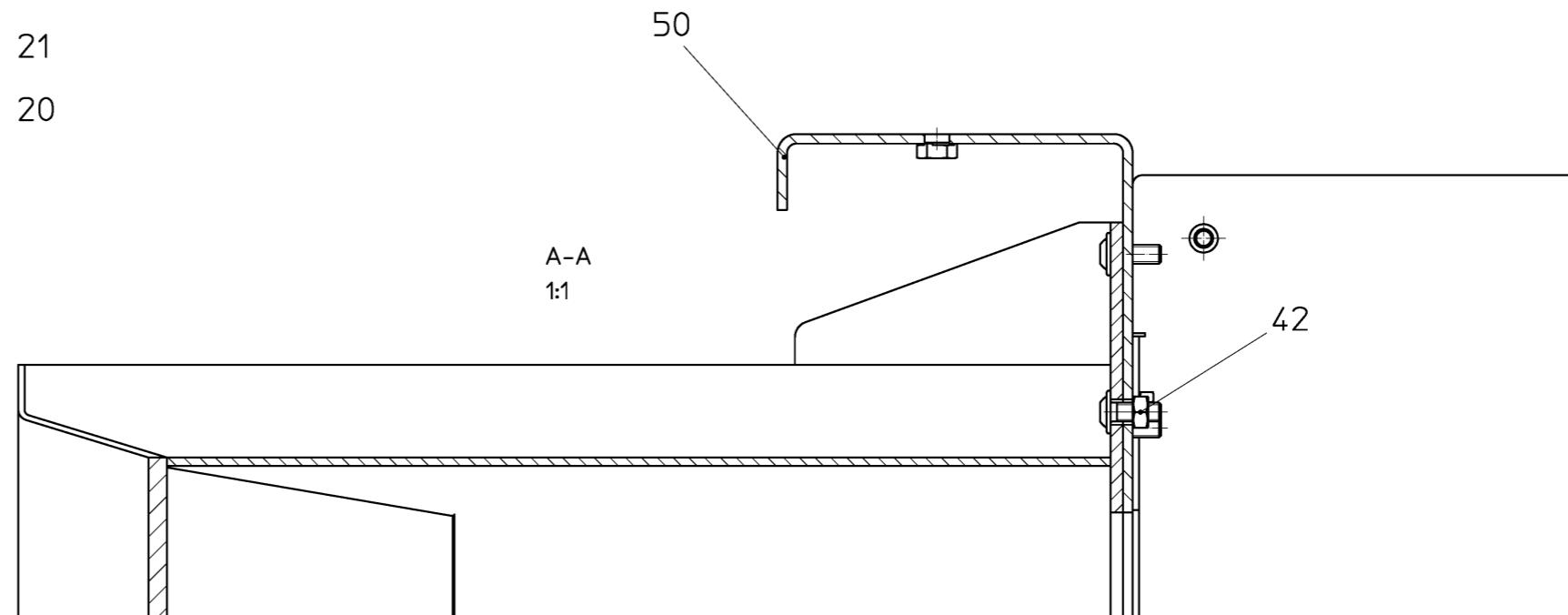
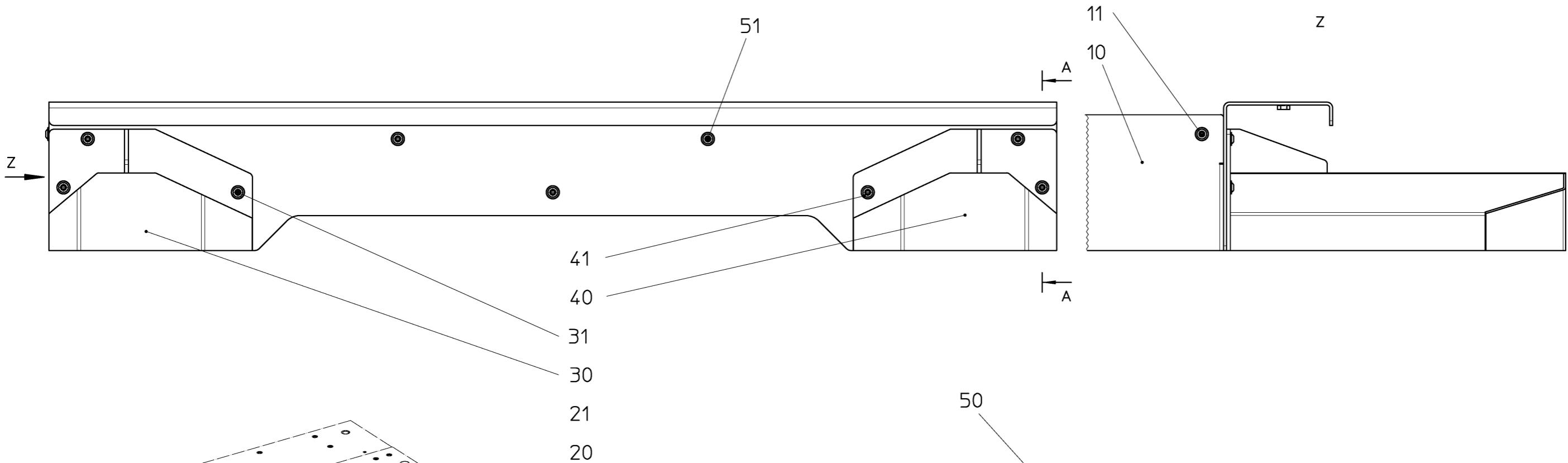
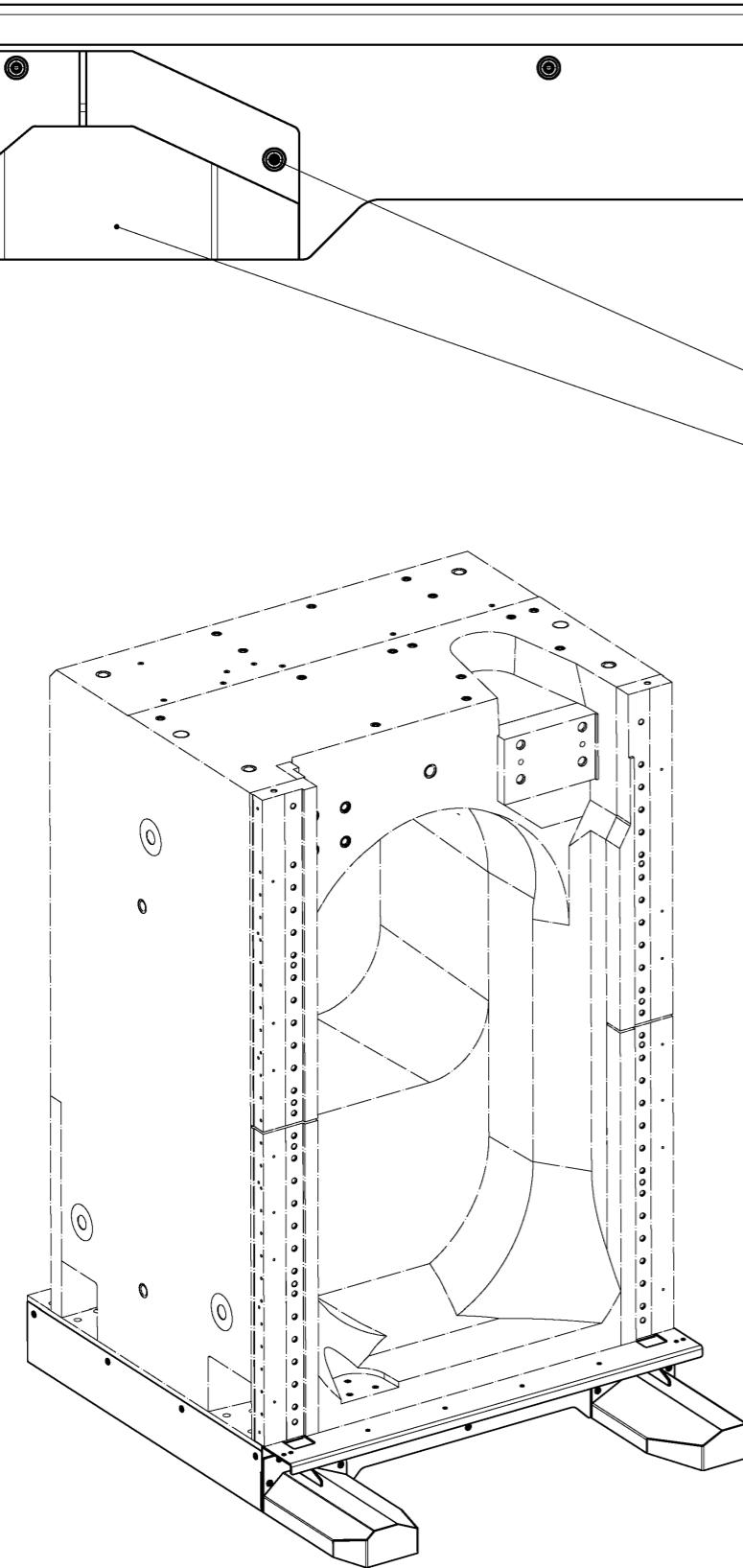




## SpeedViper 300 X axis, transport protection

Material no. 489420\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	489421\$	Transport lock		1	ST		
11	095566A	Socket head screw M12x25		6	ST		



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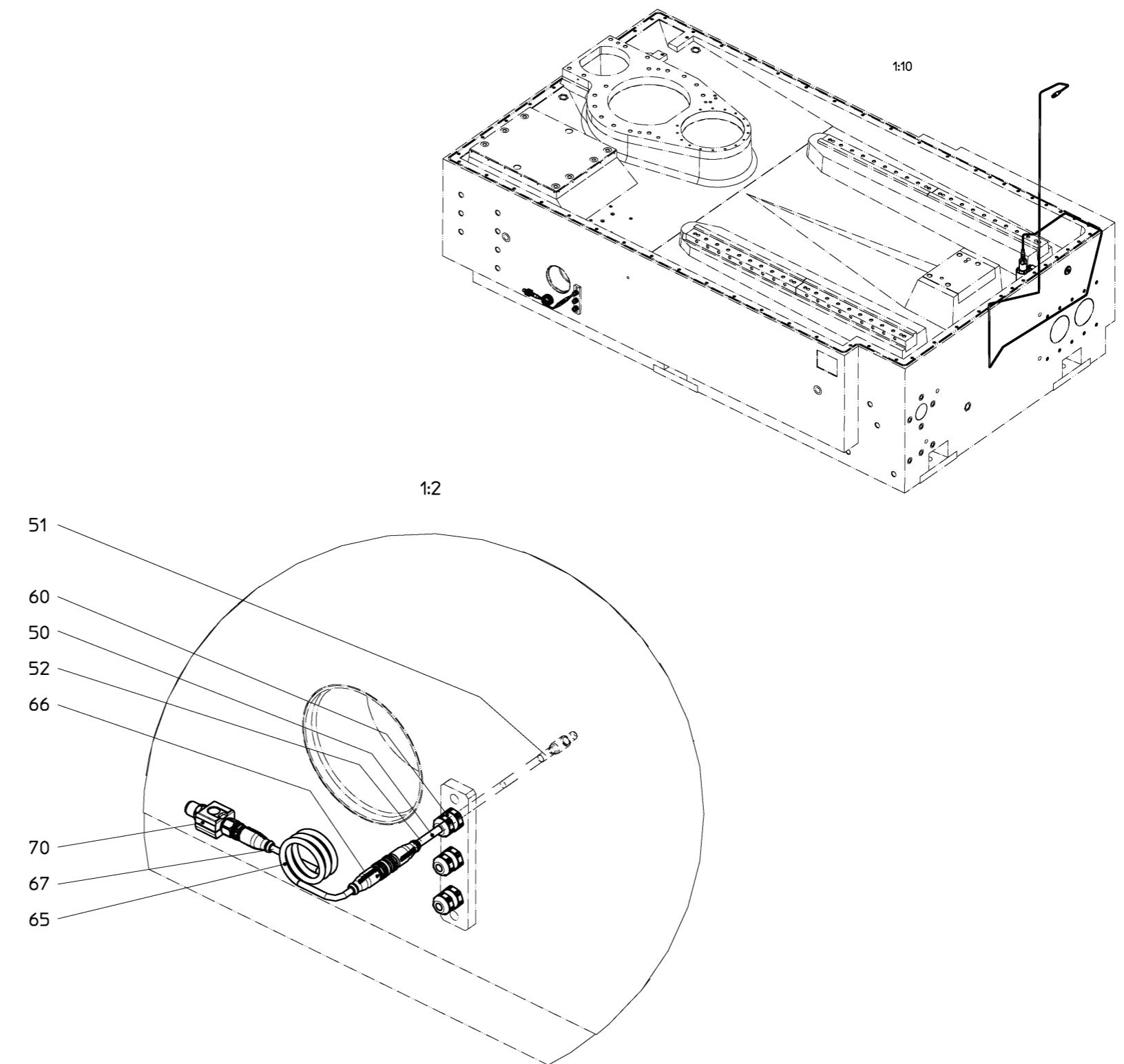
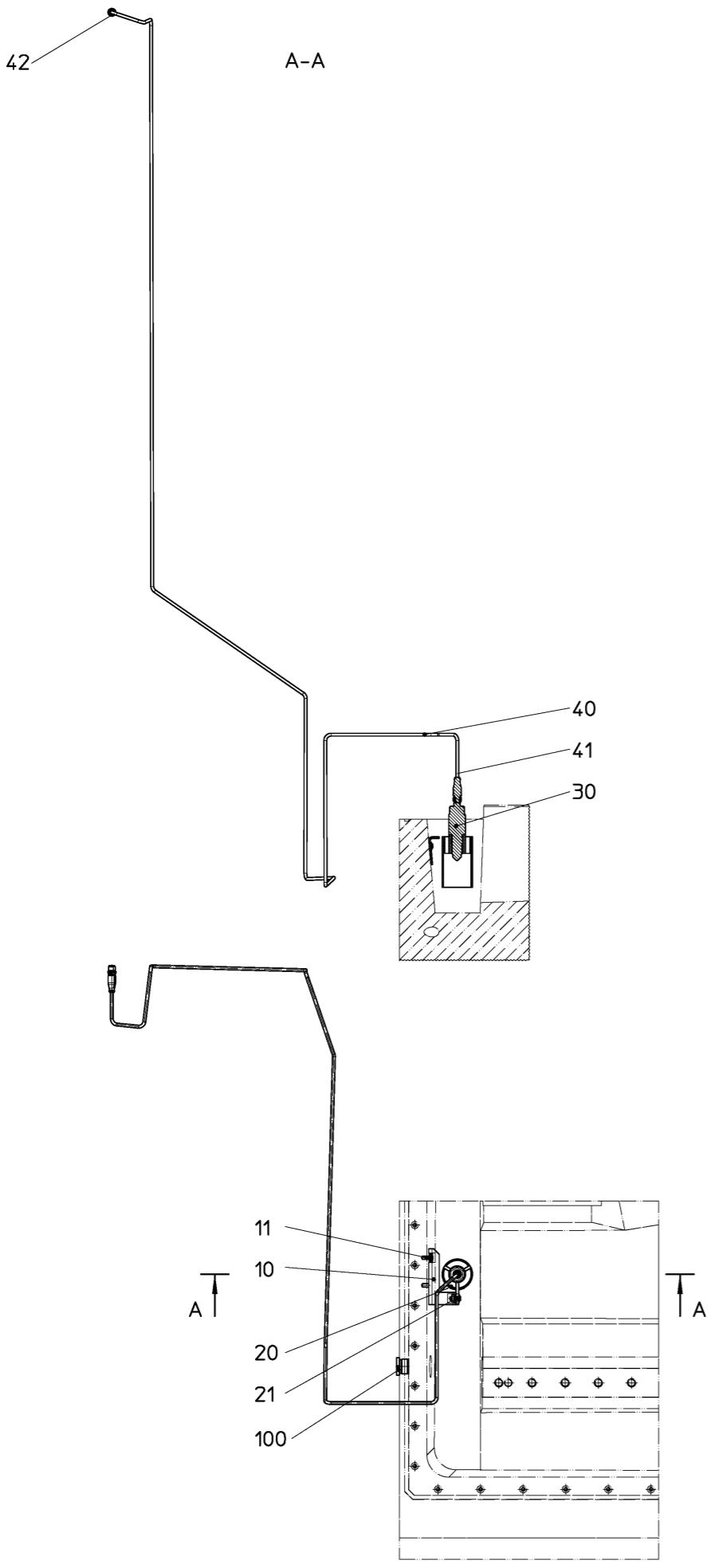


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## SpeedViper 300 X axis, guideway cover

Material no. 489422\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	460125A	Plate, side, front		1	ST		
11	289373A	Oval flange head screw M6X10 (strength class 10.9)		4	ST		
30	489780A	Cover front		1	ST		
31	288524A	Oval flange head screw M6x16 (strength class 10.9)		3	ST		
40	489781A	Cover rear		1	ST		
41	288524A	Oval flange head screw M6x16 (strength class 10.9)		3	ST		
42	051178A	Hexagon nut M6 -A (strength class 8)		1	ST		
50	460113A	Bracket, bellows		1	ST		
51	303336A	Oval flange head screw M6x12 (strength class 10.9)		3	ST		



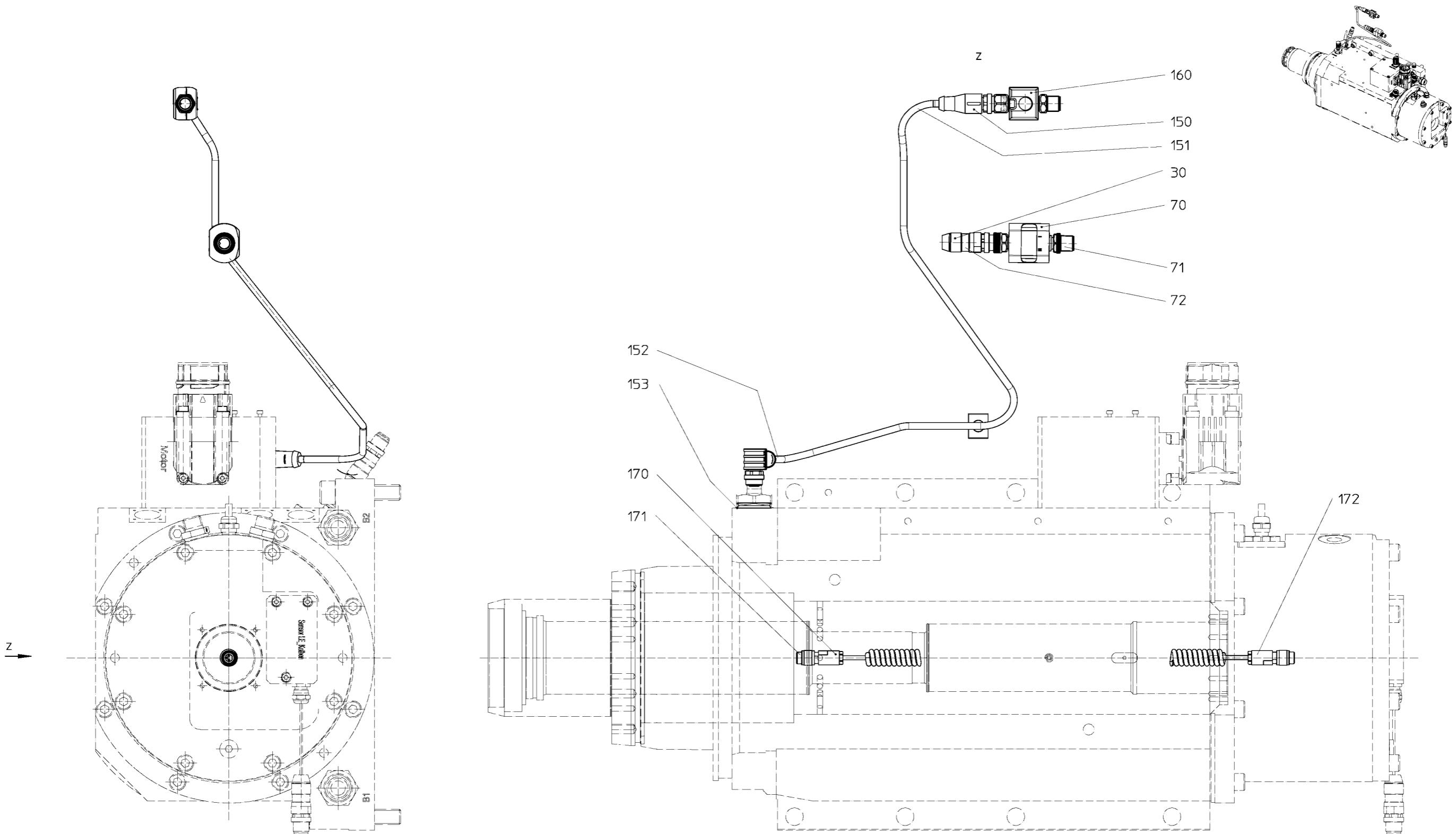
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## SpeedViper 300 Electrical parts, bed

Material no. 489502\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	489862A	Holder		1	ST		
11	7803950A	Oval flange head screw, M6x16 (strength class 10.9, black)		2	ST		
20	489863A	Sensor mount		1	ST		
21	7803950A	Oval flange head screw, M6x16 (strength class 10.9, black)		2	ST		
30	392896A	Fill level sensor		1	ST		
40	7835676A	Connecting cable		1	ST		
50	392934A	Temperature sensor		1	ST		
60	7824382A	Cable fitting M16x1.5		3	ST		
65	333683A	Connecting line WAKS4-10-WASS4/S366		1	ST		
70	392933A	Measuring signal converter		1	ST		
100	330595A	Screw plug VSTI R3/4 IN-ED CF		1	ST		
900	456331\$	Set of signs		1	ST		



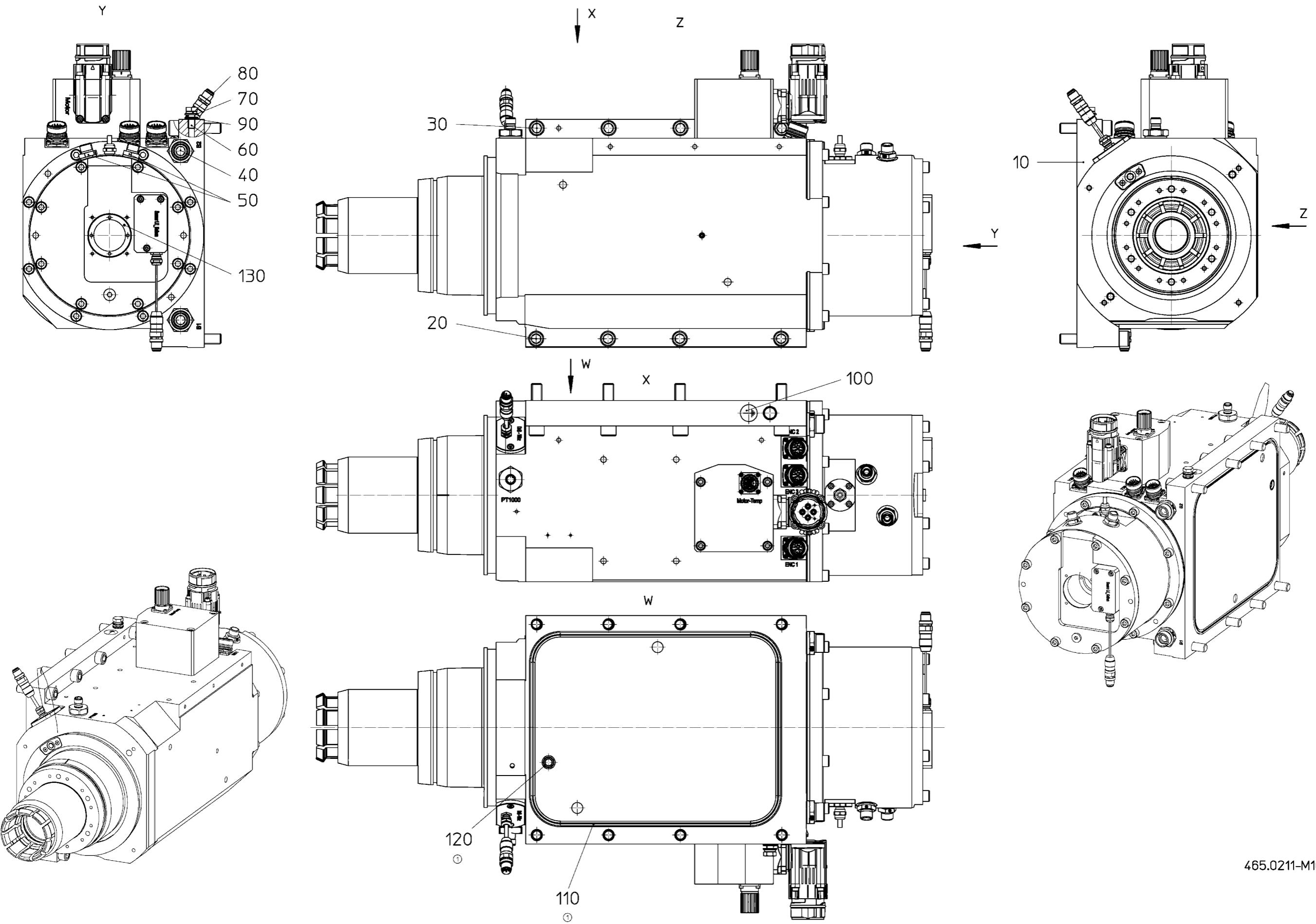
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## SpeedViper 300 Electrical parts

Material no. 492205\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
30	456329A	Plug M12 4-pin 7000-12491-0000000		1	ST		
40	306458A	Ferrule 0.34 / 8 turquoise		4	ST		
70	480961A	IO-Link Converter DP1222		1	ST		
150	7835442A	Connecting cable		1	ST		
153	335666A	Sealing ring for flow monitor		1	ST		
160	448145A	Measuring signal converter		1	ST		
170	448807A	Spiral cable		1	ST		
500	492206\$	Set of signs		1	ST		



465.0211-M103 02

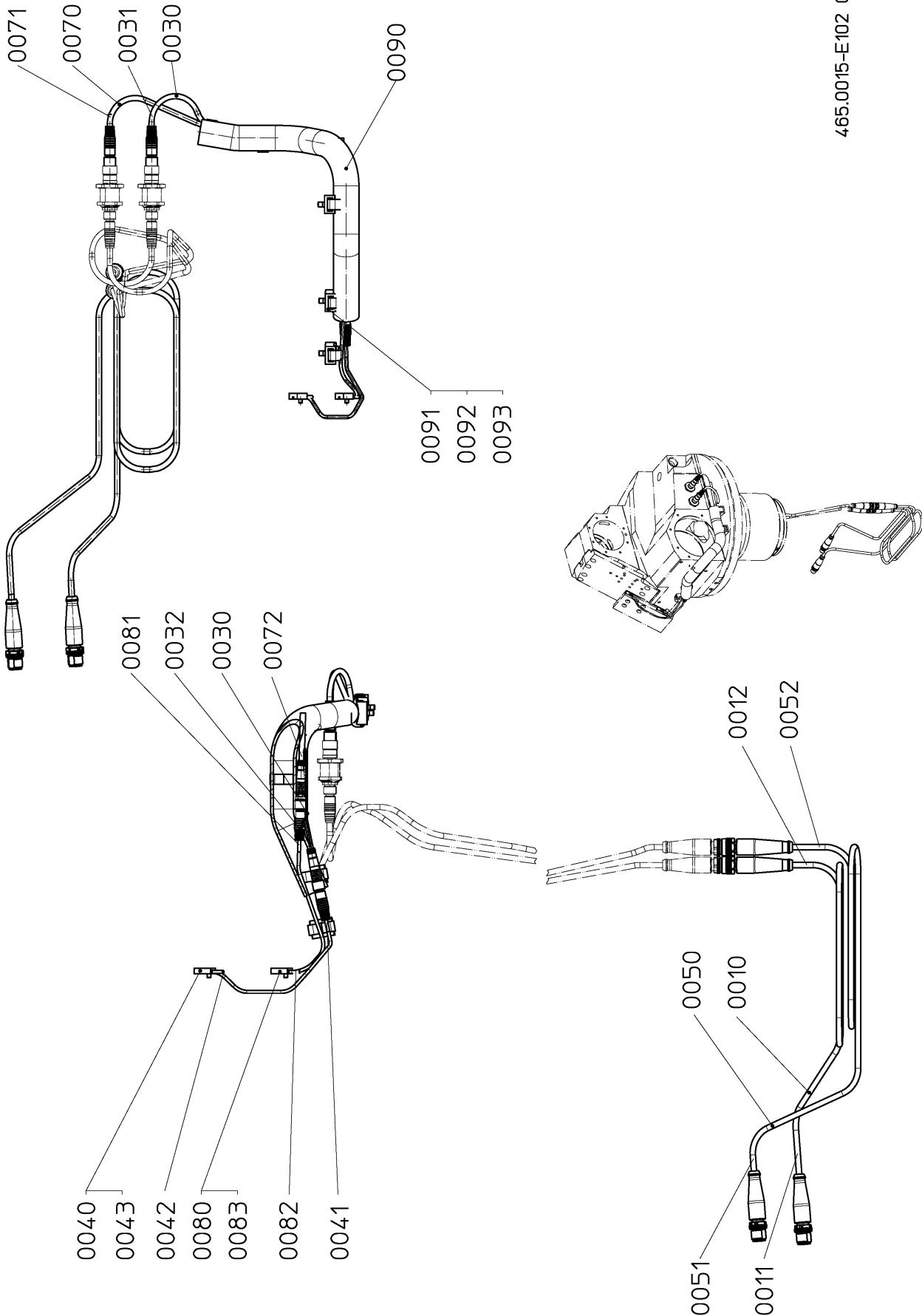


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## SpeedViper 300 B axis headstock, automatic

Material no. 492215\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	491429A	Grinding spindle 25kW		1	ST		
20	077569A	Socket head screw M12x70 (strength class 12.9)		4	ST		
30	077567A	Socket head screw M12x50		4	ST		
40	375008A	G-male coupling GE15LREDOMDCF		2	ST		
50	375003A	G-male coupling GE08LREDOMDCF		2	ST		
60	144071A	Hexagon screw M8x20 (strength class 8.8 / galvanized)		1	ST		
70	144078A	Plain washer B8.4 (steel, zinc-plated)		2	ST		
80	144081A	Spring-loaded ring A 8 (spring steel, zinc-plated)		1	ST		
90	144082A	Serrated washer A 8.4 (steel, zinc-plated)		1	ST		
100	097623A	Conductor symbol Earth sign		1	ST		
110	074873A	Sealing ring 305.00x5.00 (NBR 70)		1	ST		
120	293745A	O-ring 10.00x3.00 (NBR 70)		1	ST		
130	452271A	Laminated shim		1	ST		

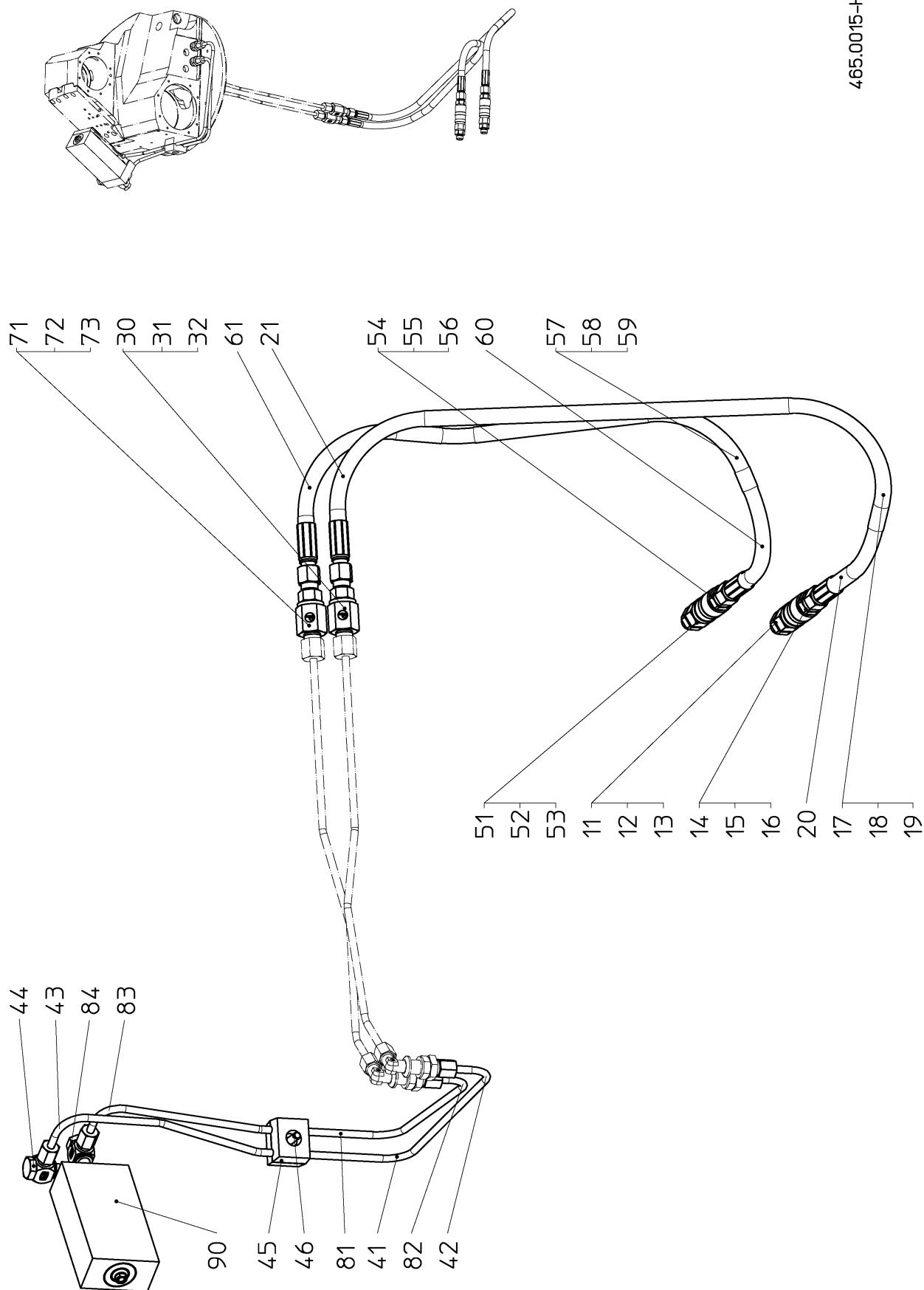




## SpeedViper 300 Electrical parts, tip dresser

Material no. 492405\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	336742A	Connecting line		1	ST		
30	461625A	Connecting cable		1	ST		
40	7836914A	Proximity switch		1	ST		
43	336395A	Countersunk head screw M3x8 (strength class 8.8)		1	ST		
50	336742A	Connecting line		1	ST		
70	461625A	Connecting cable		1	ST		
80	7836914A	Proximity switch		1	ST		
83	336395A	Countersunk head screw M3x8 (strength class 8.8)		1	ST		
90	7802154A	Corrugated pipe		300	MM		
91	356330A	Hook and loop fastener base KBS 4-20		5	ST		
92	259503A	Countersunk head screw M4x8 (strength class 8.8)		5	ST		
93	461537A	Hook and loop fastener strap 7.5mm		500	MM		
990	492420\$	Set of signs		1	ST		



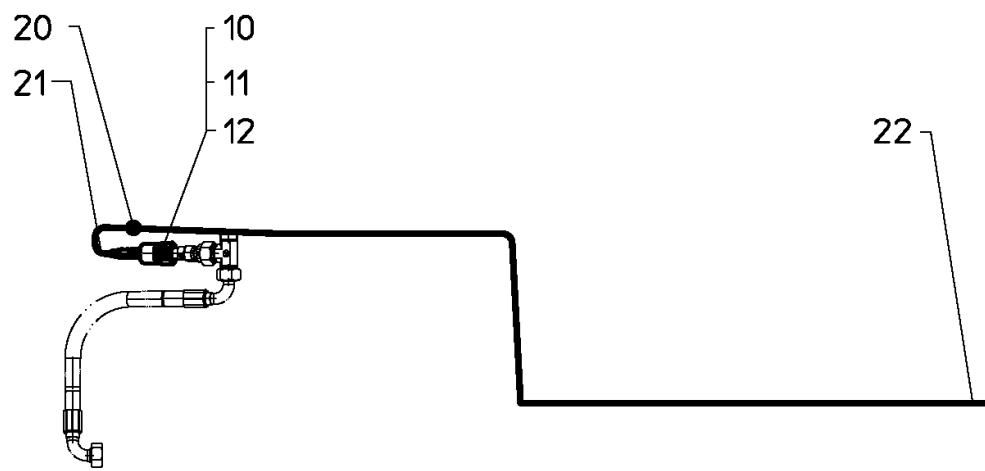
465.0015-H102 00



## SpeedViper 300 Hydraulics, tip dresser

Material no. 492406\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
11	461493A	Closure coupling		1	ST		
12	461590A	Label plate H11-1Z1		1	ST		
13	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
14	461494A	Closure nipple		1	ST		
15	461591A	Label plate H11-1Z2		1	ST		
16	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
17	461492A	Ultra-high pressure hose 4x840		1	ST		
18	461594A	Label plate H11-1H2		1	ST		
19	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
30	461497A	Ball bearing rotary screw fitting		1	ST		
31	461595A	Label plate H11-1Z3		1	ST		
32	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
41	461506A-1	Pipe D6 EO2 srew fitting		1	ST		
44	375065A	Angle swivel screw fitting		1	ST		
45	146424A	Dual pipe clamp body		2	ST		
46	309674A	Socket head screw M6x28		1	ST		
51	461493A	Closure coupling		1	ST		
52	461592A	Label plate H12-1Z1		1	ST		
53	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
54	461494A	Closure nipple		1	ST		
55	461593A	Label plate H12-1Z2		1	ST		
56	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
57	461492A	Ultra-high pressure hose 4x840		1	ST		
58	461596A	Label plate H12-1H2		1	ST		
59	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
71	461497A	Ball bearing rotary screw fitting		1	ST		
72	461597A	Label plate H12-1Z3		1	ST		
73	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
81	461504A-1	Pipe D6 EO2 srew fitting		1	ST		
84	375065A	Angle swivel screw fitting		1	ST		
90	461496A	Hydraulic cylinder		1	ST		
900	492419\$	Set of signs		1	ST		

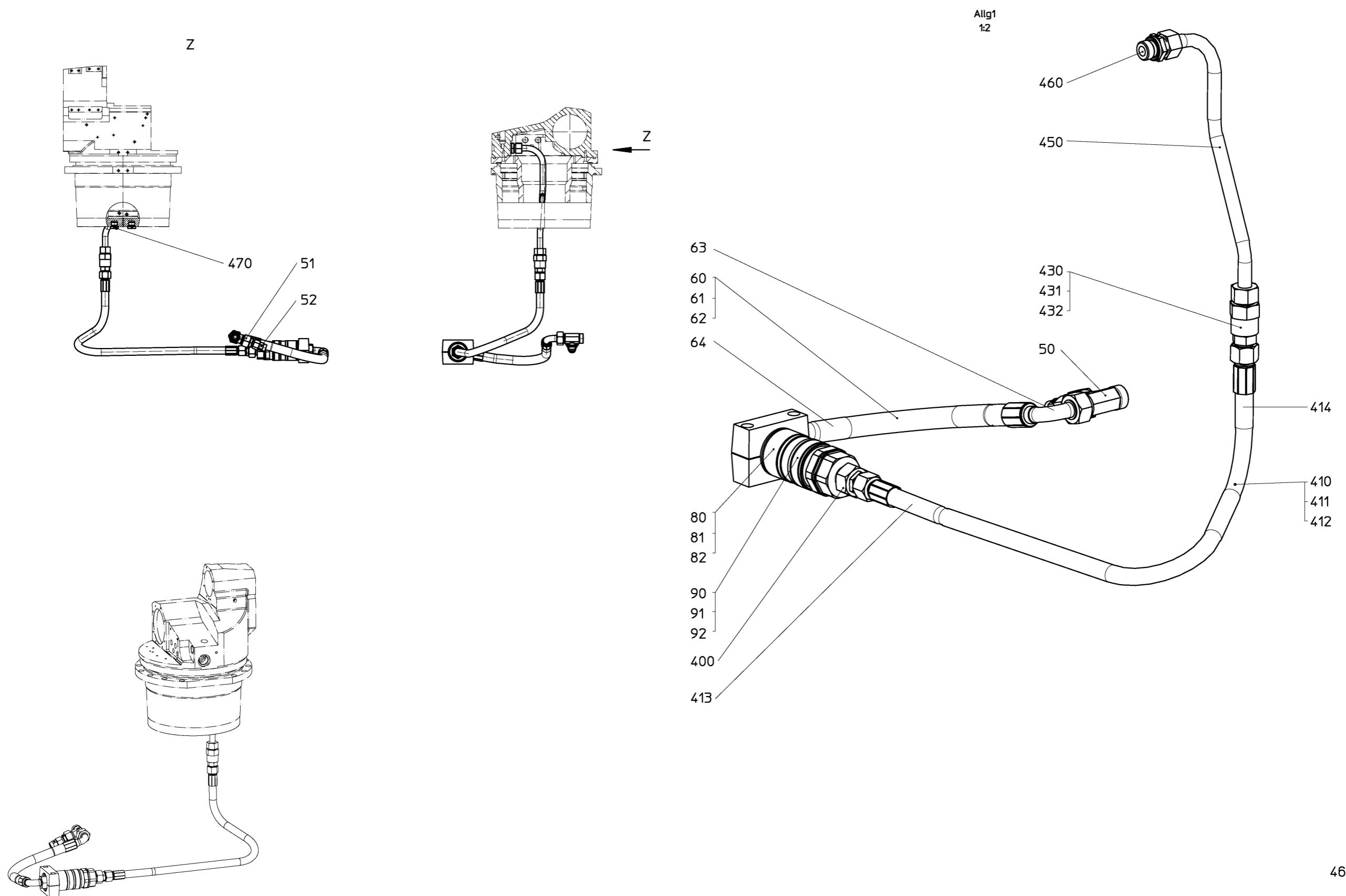


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**SpeedViper 300 Electrical parts, dressing oil monitoring**  
Material no. 492426\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	362754A	Pressure sensor PP7554		1	ST		
11	468191A	Registration plate		1	ST		
12	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
20	336742A	Connecting line		1	ST		
990	492427\$	Set of signs		1	ST		



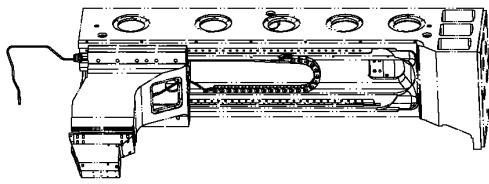
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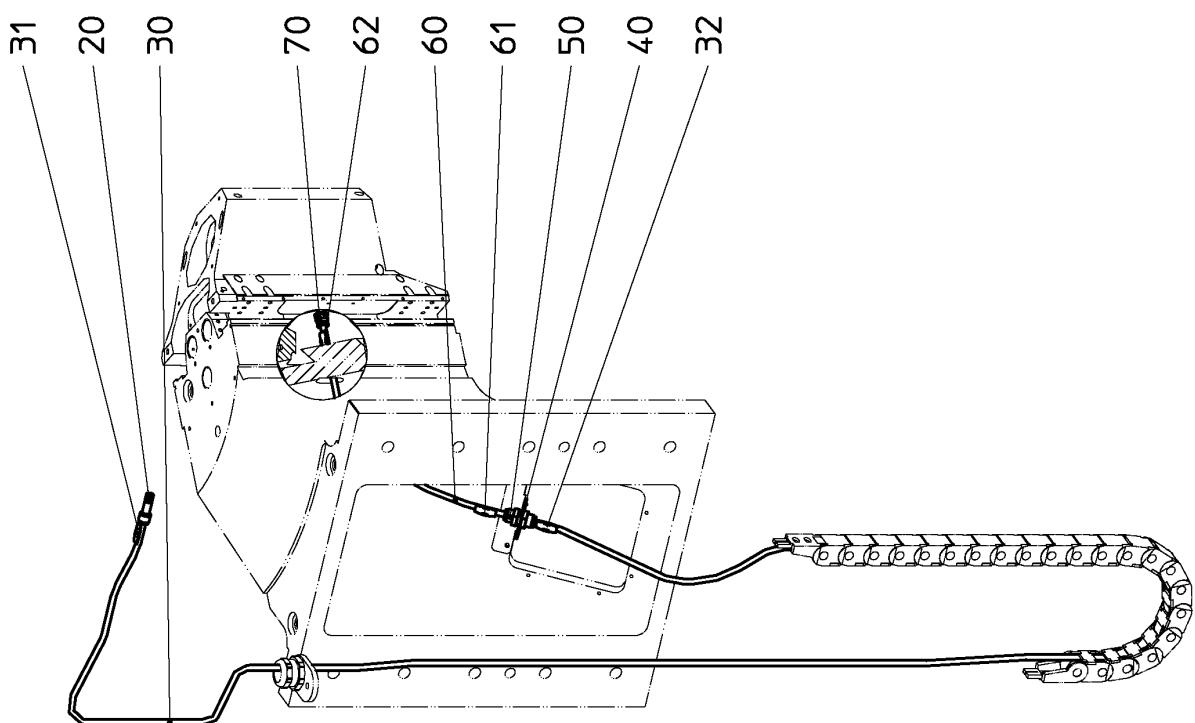
## SpeedViper 300 Dresser, process cooling

Material no. 492441\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
50	375042A	T-screw fitting T18LOMDCF		1	ST		
51	7810820A	Taper reducer RED18/12LOMDCF		1	ST		
52	362840A	Manometer screw fitting		1	ST		
60	454349A	High-pressure hose, 2-piece		1	ST		
61	437938A	Identification sign		1	ST		
62	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
80	454348A	Closure nipple		1	ST		
81	454473A	Registration plate K3-1Z1		1	ST		
82	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
90	454346A	Closure coupling		1	ST		
91	454474A	Registration plate K3-1Z2		1	ST		
92	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
410	454350A	High-pressure hose, 2-piece		1	ST		
411	454476A	Registration plate		1	ST		
412	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
430	454344A	Straight threaded adapter l 15 M22x1.5		1	ST		
431	454477A	Registration plate K3-1Z4		1	ST		
432	122624A	Cable tie T 18R l=102 mm, b= 2.5 mm		1	ST		
450	461508A-1	Pipe D15 EO2 screw fitting		1	ST		
460	375008A	G-male coupling GE15LREDOMDCF		1	ST		
470	330606A	Sealing plug VST1 R3/8 IN-ED CF		2	ST		
900	456771\$	Set of signs		1	ST		



465.1003-P101 00



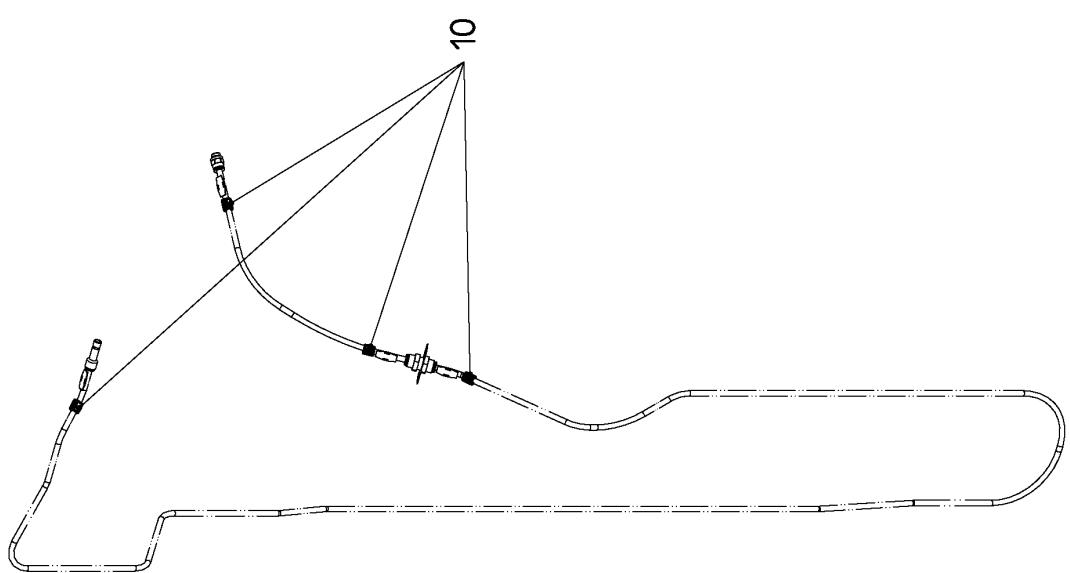
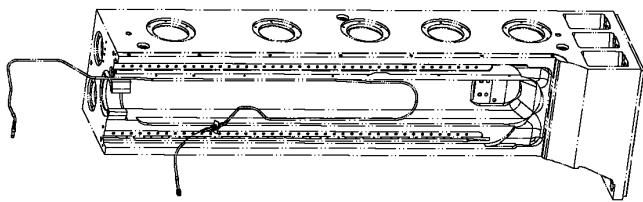


## SpeedViper 300 Z1 axis, pneumatics

Material no. 492565\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
20	407817A	Plug-in sleeve NPQH-D-S8-Q6-P10		1	ST		
30	299043A	Plastic hose		2800	MM		
40	491534A	Sign		1	ST		
50	356542A	Bulkhead push-in fitting NPGH-H-Q6-E-P10		1	ST		
60	299043A	Plastic hose		400	MM		
70	445243A	Push-in fitting NPQM-D-G18-Q6-P10		1	ST		
990	492567\$	Set of signs		1	ST		

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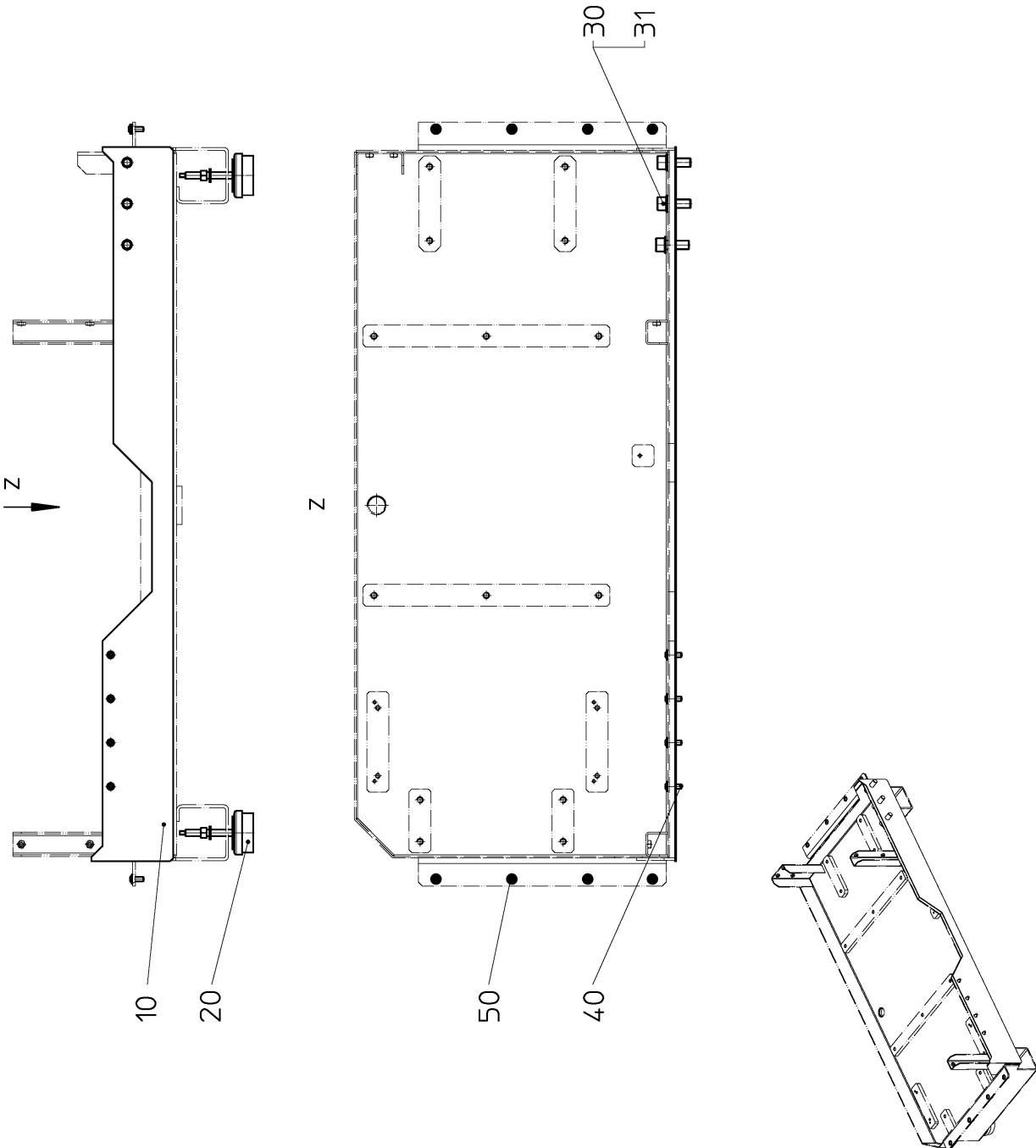


## SpeedViper 300 Z1 axis, designation rings

Material no. 492566\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	429721A	Identification ring with arrow Ø6 RAL 5012		4	ST		

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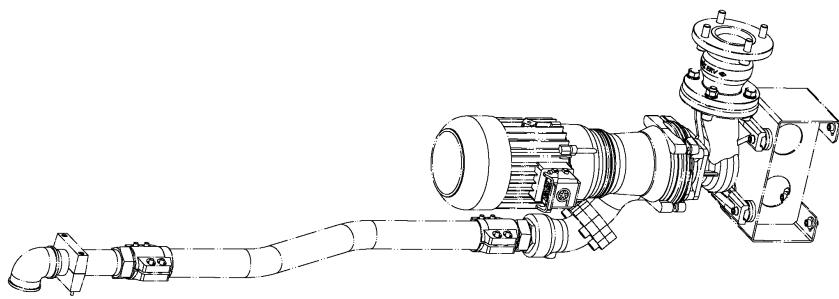




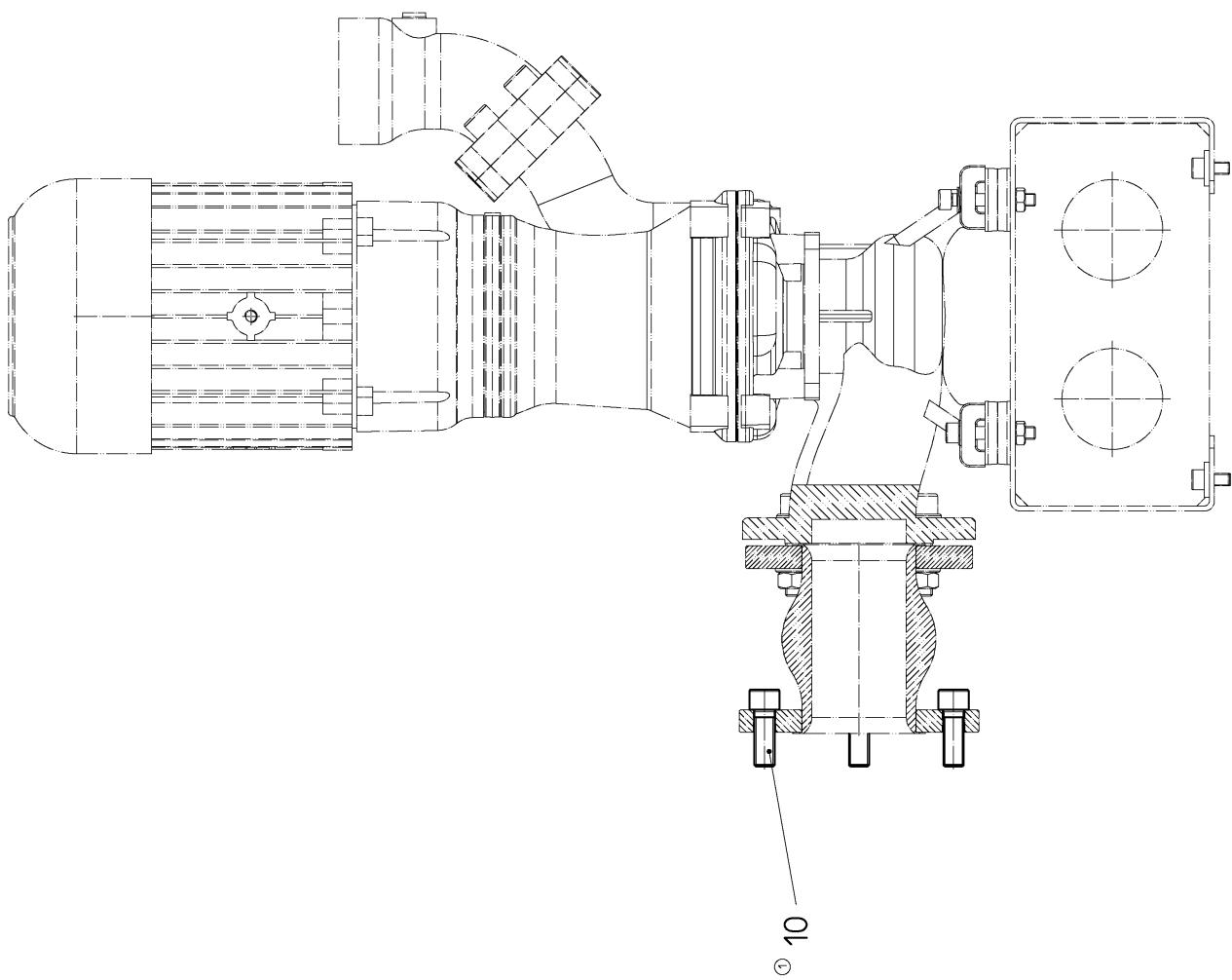
## SpeedViper 300 Connection kit, frame

Material no. 7003003\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	480007A	Sealing strip		1	ST		
20	466386A	Bed GN 248-80-M12x1.25-134(38)		2	ST		
30	147530A	Socket head screw M16x45		3	ST		
31	051150A	Plain washer B17 (steel)		3	ST		
40	303342A	Oval flange head screw M8x25 (strength class 10.9, zinc-plated)		4	ST		
50	289491A	Oval flange head screw M8x20 (strength class 10.9, zinc-plated)		8	ST		



465.0072-M301 01



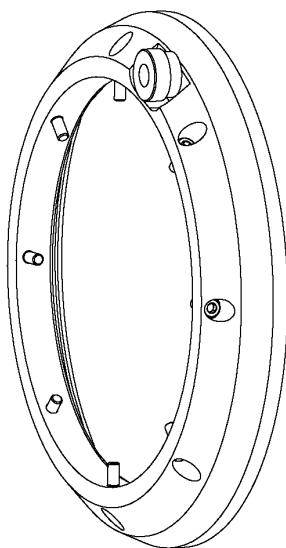
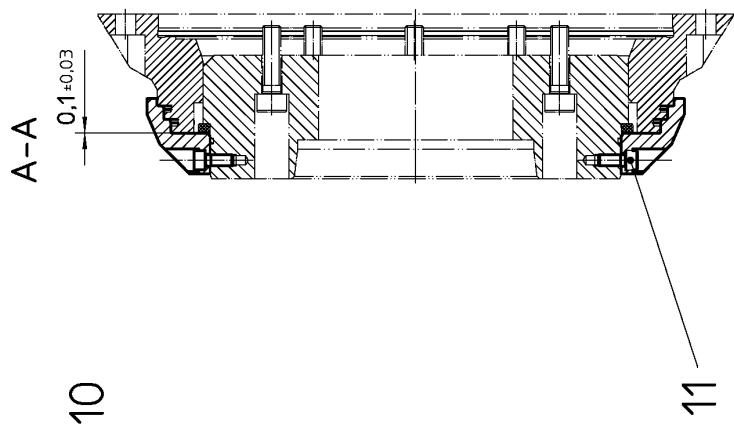
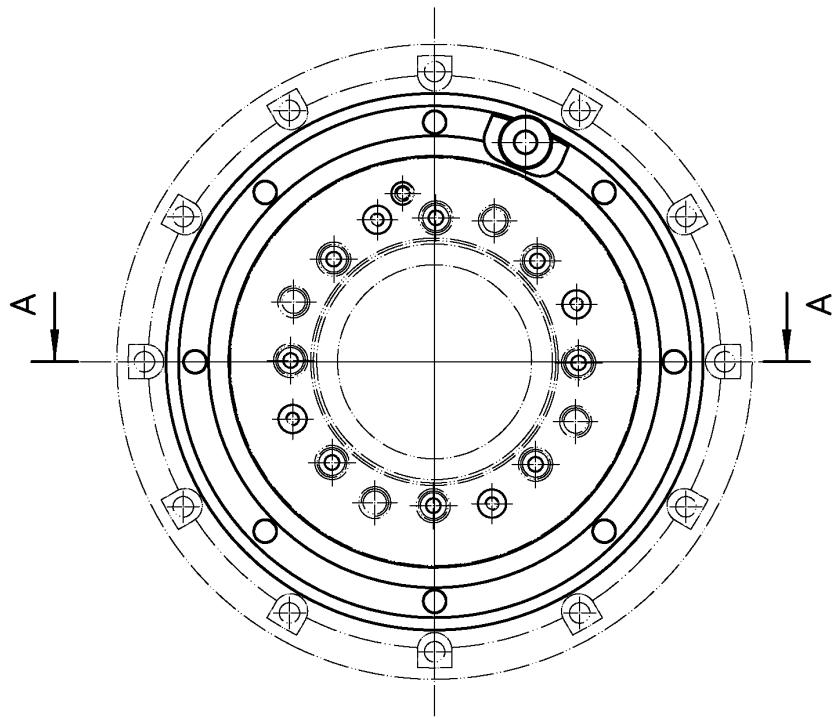


## SpeedViper 300 Connection kit, return pump

Material no. 7400766\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	147530A	Socket head screw M16x45		4	ST		

465.0012-M203 00

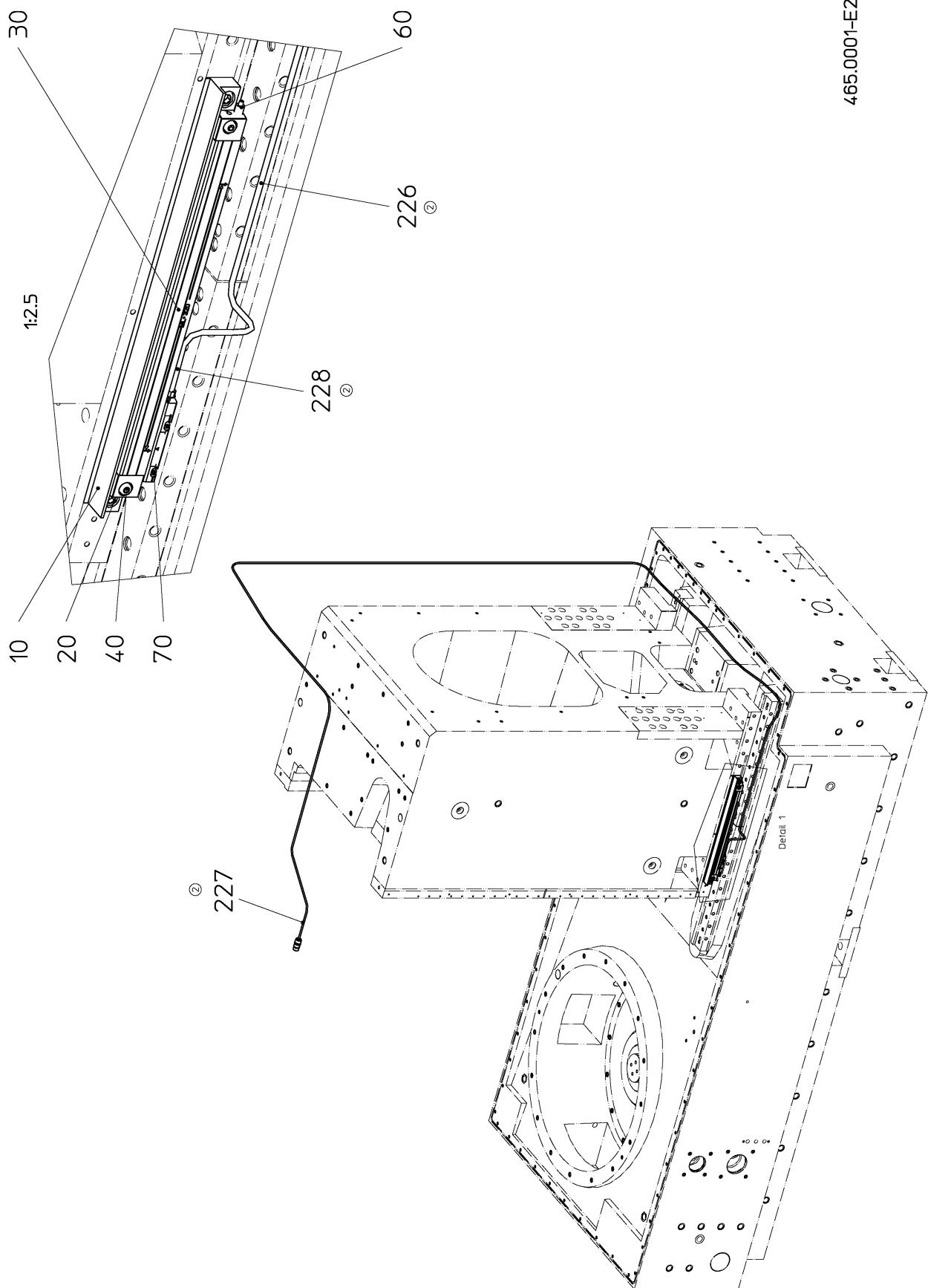




## SpeedViper 300 Centrifugal disk, measuring

Material no. 7400831\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	488633\$	Slinger, complete		1	ST		
11	053887A	Socket head screw M5x12		8	ST		





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SpeedViper 300 X axis, electrical parts, measuring  
system  
Material no. 7401003\$

Pos.	Material no.	Material designation	Name of standard	Quantity	Unit	Spare part ID	Comment
10	7003079\$	Spacer bar		1	ST		
20	147426A	Socket head screw M12x20		5	ST		
30	448255A	Length measuring system LC485 ENDAT02 ML=320MM		1	ST		
40	050628A	Socket head screw M8x25		2	ST		
60	7814355A	Connecting piece with choke		1	ST		
70	077504A	Socket head screw M4x20		2	ST		
80	7818512A	Adapter cable EnDat 533631-06		1	ST		
90	7014075\$	Set of signs		1	ST		



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