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2021 EDITION

COMPLETE COMPONENTS CATALOG
PRODUCT AND APPLICATIONS DETAILS

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Content

I. Part no. Index 5

1. Application 11

2. Quick release disconnects 53

3. Clamps & Adapters 95

4. Boom & extension stock 113

5. Swivel & extension arms 127

6. Vacuum cups 147

7. Pneumatic Components 155

8. Proximity switch mounts 179

9. Pneumatic clamp and accessories 203

10. Function and motion elements 239

11. Tooling for crossbar transfer presses 243

12. Carbon fibre gripper modules 247

13. Tooling storage cart 257

Subject to modification
Edition **01/2013**

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Part no. Index

30
30BT-*-* 154
30BT-B-*-NA 154
30PF-*-* 151
30PF-B-*-NA 151

40
40BT-*-* 154
40BT-B-*-NA 154
40HT*-* 152
40HT-B-*-NA 152

50
50-15DM-*-* 154
50-15DM-*-*-NA 154
50BT-*-* 154
50BT-B-*-NA 154
50DM 153
50DM-*-* 154
50DM-B-*-NA 154

60
60-30HT-*-* 152
60-30HT-B-*-NA 152
60-30PF-*-* 151
60-30PF-B-*-NA 151
60HT-*-* 152
60HT-B-*-NA 152
60PF-*-* 151
60PF-B-*-NA 151

75
75-20DM-*-* 154
75-20DM-*-*-NA 154
75BT-*-* 154
75BT-B-*-NA 154
75DM 153
75DM-*-* 154
75DM-B-*-NA 154

80
80-40HT-*-* 152
80-40HT-B-*-NA 152
80-40PF-*-* 151
80-40PF-B-*-NA 151
80HT-*-* 152
80HT-B-*-NA 152
80PF-*-* 151
80PF-B-*-NA 151

84
84A2-L-16-B20 229
84A2-L-16-K28 229
84A2-L-16-K32 229
84A2-L-16-K36 229
84A2-U-00-20-* 232
84A2-U-00-25-* 232
84A2-U-00-30-* 232
84A2-U-90-20-* 231
84A2-U-90-25-* 231
84A2-U-90-30-* 231
84A2-U-LR-20-* 233
84A2-U-LR-25-* 233
84A2-U-LR-30-* 233
84A2-U-TKS-00-20-70 236
84A2-U-TKS-00-20-70-L 235
84A2-U-TKS-00-25-70 236
84A2-U-TKS-00-25-70-L 235
84A2-U-TKS-00-30-70 236
84A2-U-TKS-00-30-70-L 235
84A2-U-TKS-90-20-70 234
84A2-U-TKS-90-25-70 234
84A2-U-TKS-90-30-70 234
84A3-L-19-B20 230
84A3-L-19-K28 230
84A3-L-19-K32 230
84A3-L-19-K36 230
84A3-U-00-20-* 232
84A3-U-00-25-* 232
84A3-U-00-30-* 232
84A3-U-90-20-* 231
84A3-U-90-25-* 231
84A3-U-90-30-* 231
84A3-U-LR-20-* 233
84A3-U-LR-25-* 233
84A3-U-LR-30-* 233
84A3-U-TKS-00-20-70 236
84A3-U-TKS-00-20-70-L 235
84A3-U-TKS-00-25-70 236
84A3-U-TKS-00-25-70-L 235
84A3-U-TKS-00-30-70 236
84A3-U-TKS-00-30-70-L 235
84A3-U-TKS-90-20-70 234
84A3-U-TKS-90-25-70 234
84A3-U-TKS-90-30-70 234
84A32-L-22.1-22.1-K32 237
84A32-L-305305-K32 237

100
100-25DM-*-* 154
100-25DM-*-*-NA 154
100BT-*-* 154
100BT-4215-* 187
100BT-B-*-NA 154
100DBT-4215-* 189
100DBTF-4215-* 190
100DM 153
100DM-*-* 154
100DM-B-*-NA 154
100HT-*-* 152
100HT-B-*-NA 152
100PF-*-* 151
100PF-B-*-NA 151

110
110-55HT-*-* 152
110-55HT-B-*-NA 152
110-55PF-*-* 151
110-55PF-B-*-NA 151

125
125BT-*-* 154
125BT-4215-* 187
125BT-B-*-NA 154
125PF-*-* 151
125PF-B-*-NA 151

825
825SM-0000-01 188
825SM-1810-01 188
825SM-1810-G1/4 187
825SM-3015-01 188
825SM-3015-G3/8 187
825SM-4215-01 188
825SM-4215-01-K28 188
825SM-4215-01-K32 188
825SM-4215-3/8-NPT 187
825SM-4215-05-AP 191
825SM-4215-05-AP-B20 191
825SM-4215-DBT-* 189
825SM-4215-DBT100-* 189
825SM-4215-DBTF-* 190
825SM-4215-G3/8 187
825SM-54075-01 188
825SM-54075-3/8-NPT 187
825SM-54075-G3/8 187

A
A-126305Q570111 224
ABB60-DM-RD60-A* 91
ABB60-DM-RD250-A* 91
ABB64-DM-RD60-A* 91
ABB64-DM-RD250-A* 91
ABT1-150-* 117
ABT1-250-* 117

B
BK-00-25 109
BK-00-25-M8 109
BK-00-25-M10 109
BK-00-40 109
BK-00-100 109
BK-00-150 109
BKS-00-25 123
BKS-00-30 123
BKS-00-30-20 124
BKS-00-30-25 124
BKS-90-30-20 124
BKS-90-30-25 124
BRCM-45-60 242
BRCM-45-250 242
BRCM-90-60 242
BRCM-90-250 242
BRCM-4560-50 242
BRCM-4560-63 242
BRCM-9060-50 242
BRCM-9060-63 242
BRCM-45250-50 242
BRCM-45250-63 242
BRCM-90250-63 242
BRCM-90250-63 242
BT1-40-7S-* 117
BT1-60-6S-* 117

C
CB-40-25 108
CB-50-40 108
CB-60-40 108
CB-60-50 108
CB-150-100 108
CB-250-150 108
CB-4445-40 108
CMX58-DM-RD60-A* 91
CMX58-DM-RD250-A* 91

D
DC-4040-45 101
DC-4040-90 101
DC-6060-45 101
DC-6060-90 101
DC-6060-BBA 101
DC 10208 224
DC-150150-45 101
DC-150150-90 101
DC-250250-45 101
DC-250250-90 101
DC-250250-BBA 101
DS16-T-* 139
DS25-H-* 140
DS25-H-002 139
DS25-H-025 140
DS25-H-050 140
DS25-T-* 141
DS25-T-025 141
DS25-T-050 141
DS100-H-* 140
DS100-H-002 139
DS100-H-025 140
DS100-H-050 140
DS100-T-* 141
DS100-T-025 141
DS100-T-050 141

E
ECH16-14 142
ECH16-16 142
ECH16-20 142
ECH16-25 142
ECH25-19 142
ECH25-19-M8 142
ECH25-20 142
ECH25-25 142
ECH25-25-M8 142
ECH25-30 142
ECH25-32 142
ECH25-34 142
ECH25-40 142
ECH25-60 142
ECH25-4445 142
ECH25-K28 143
ECH25-K28-M8 143
ECH25-K32-M8 143
ECH100-75 142
ECH100-100 142
ECH100-150 142
ECH100-250 142
ECT25-K28 143
ED16-16-16* 131
ED16-16-19-* 131
ED16-16-20-* 131
ED16-16-25-* 131
ED16-20-20-* 131
ED16-20-25-* 131
ED16-25-16-* 131
ED16-25-19-* 131
ED16-25-20-* 131
ED25-25-19-* 132
ED25-25-25-* 132
ED25-25-K28-* 133
ED25-40-19-* 132
ED25-40-25-* 132
ED25-40-40-* 132
ED25-40-K28-* 133
ED25-60-19-* 132
ED25-60-25-* 132
ED25-60-40-* 132
ED100-100-75-* 132
ED100-100-100-* 132
ED100-100-K28-* 133
ED100-150-75-* 132
ED100-150-100-* 132
ED100-150-150-* 132
ED100-150-K28-* 133
ED100-250-75-* 132
ED100-250-100-* 132
ED100-250-150-* 132
ES16-16-* 129
ES16-19-* 129
ES16-20-* 129
ES16-25-* 129
ES25-19-* 129

Subject to modification
Edition **01/2013**

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Part no. Index

ES25-19-*-L 137
ES25-19-M8-* 129
ES25-19-*-R 137
ES25-19-*-S 137
ES25-25-* 129
ES25-25-M8-* 129
ES25-25-*-S 137
ES25-40-* 129
ES25-40-*-S 137
ES25-60-* 129
ES25-K28-* 130
ES25-K32-* 130
ES100-75-* 129
ES100-75-*-L 137
ES100-75-*-R 137
ES100-75-*-S 137
ES100-100-* 129
ES100-100-*-S 137
ES100-150-* 129
ES100-150-*-S 137
ES100-250-* 129
ES100-K28-* 130
ES100-K32-* 130
ESA-90-25-25-* 130
ESA-90-25-K28-* 131
ESA-90-25-K32-* 131
ESA-90-30-30-* 130
ESS-00-20-K28-* 145
ESS-00-20-K32-* 145
ESS-00-20-K36-* 145
ESS-00-25-K28-* 145
ESS-00-25-K32-* 145
ESS-00-25-K36-* 145
ESS-00-30-K28-* 145
ESS-00-30-K32-* 145
ESS-00-30-K36-* 145
ESS-90-16-16-* 144
ESS-90-16-20-* 144
ESS-90-16-25-* 144
ESS-90-16-30-* 144
ESS-90-16-40-* 144
ESS-90-20-16-* 144
ESS-90-20-20-* 144
ESS-90-20-25-* 144
ESS-90-20-30-* 144
ESS-90-20-40-* 144
ESS-90-20-K28-* 144
ESS-90-20-K32-* 144
ESS-90-20-K36-* 145
ESS-90-25-16-* 144
ESS-90-25-20-* 144
ESS-90-25-25-* 144
ESS-90-25-30-* 144
ESS-90-25-40-* 144
ESS-90-25-K28-* 144
ESS-90-25-K32-* 144
ESS-90-25-K36-* 145
ESS-90-30-16-* 144
ESS-90-30-20-* 144
ESS-90-30-25-* 144
ESS-90-30-30-* 144
ESS-90-30-40-* 144
ESS-90-30-K28-* 144
ESS-90-30-K32-* 144
ESS-90-30-K36-* 145
EST-00-19-410 196
EST-00-25-410 196
EST-00-075 196
EST-00-100 196
EST-90-19-410 196
EST-90-25-410 196
EST-90-100-410 196

F

FA420-DM-RD60-A* 91
FA420-DM-RD250-A* 91
FA500-DM-RD60-A* 91
FA500-DM-RD250-A* 91
FA700-DM-RD60-A* 91
FA700-DM-RD250-A* 91
FA900-DM-RD60-A* 91
FA900-DM-RD250-A* 91

G

GEV-1/4-6x4-SCH 173
GEV-1/4-8x6-SCH 173
GEV-1/4-10x8-SCH 173
GEV-1/8-6x4-SCH 173
GEV-1/8-8x6-SCH 173
GEV-1/8-8x6-SCH-SW15 173
GEV-1/8-10x8-SCH 173
GEV-3/8-6x4-SCH 173
GEV-3/8-8x6-SCH 173
GEV-3/8-10x8-SCH 173
GFA-40 99
GFA-40-220-C 100
GFA-60 99
GFA-60-265-A 100
GFA-150 99
GFA-250 99
GFAR-40-110 99
GFAR-60-150 99
GFAR-150-110 99
GFAR-150-220-C 100
GFAR-250-150 99
GFAR-250-265-A 100
GMC-2842-663 254
GMC-TL-01 255
GMC-TL-02 255
GMC-TL-03 256
GMC-TL-04 256
GMC-TR-40-95-01-1300 253
GMC-TR-40-95-01-1700 253
GMC-TR-40-95-01-1900 253
GRS-40-50-L1 246
GRS-40-90-L1-L 246
GRS-40-90-L1-R 246
GRS-DT-40-230-LL1-L-1000 245
GRS-DT-40-230-LL1-L-1470 245
GRS-DT-40-230-LL1-L-1637 245
GRS-DT-40-230-LL1-R-1000 245
GRS-DT-40-230-LL1-R-1470 245
GRS-DT-40-230-LL1-R-1637 245
GRS-DT-40-230-LL-L-E 245
GRS-DT-40-230-LL-L-S 245
GRS-DT-40-230-LL-R-E 245
GRS-DT-40-230-LL-R-S 245
GRS-PL-CFK-73MN 249
GSWE-60-90-ABB64 79
GSWE-60-90-ABB64-EL10 79
GSWE-60-90-ABB64-EL10-S 79
GSWE-60-90-ABB64-EL16 79
GSWE-60-90-ABB64-EL16-S 79
GSWE-60-90-ABB64-EL19 79
GSWE-60-90-ABB64-EL19-S 79
GSWE-60-90-ABB64-S 79
GSWE-60-90-EL**-ABB64 79
GSWE-60-90-EL**-KA760 79
GSWE-60-90-KA760 79
GSWE-60-90-KA760-EL10 79
GSWE-60-90-KA760-EL10-S 79
GSWE-60-90-KA760-EL16 79
GSWE-60-90-KA760-EL16-S 79
GSWE-60-90-KA760-EL19 79
GSWE-60-90-KA760-EL19-S 79
GSWE-60-90-KA760-S 79
GSWE-60-AF-A4 80
GSWE-60-AF-A4-SEU 80
GSWE-60-DM-ABB64 78
GSWE-60-DM-ABB64-S 78
GSWE-60-DM-EL10-ABB64 78
GSWE-60-DM-EL10-ABB64-S 78
GSWE-60-DM-EL10-KA760 78
GSWE-60-DM-EL10-KA760-S 78
GSWE-60-DM-EL16-ABB64 78
GSWE-60-DM-EL16-ABB64-S 78
GSWE-60-DM-EL16-KA760 78
GSWE-60-DM-EL16-KA760-S 78
GSWE-60-DM-EL19-ABB64 78
GSWE-60-DM-EL19-ABB64-S 78
GSWE-60-DM-EL19-KA760 78
GSWE-60-DM-EL19-KA760-S 78
GSWE-60-DM-EL**-ABB64 78
GSWE-60-DM-EL**-KA760 78
GSWE-60-DM-KA760 78
GSWE-60-DM-KA760-S 78
GSWE-60-RDC-1 81
GSWE-60-RDC-1-EL10 81
GSWE-60-RDC-1-EL16 81
GSWE-60-RDC-1-EL19 81
GSWE-60-RDC-A4 80
GSWE-60-RDC-A4-E 80
GSWE-60-RDC-A4-EL10 80
GSWE-60-RDC-A4-EL10-E 80
GSWE-60-RDC-A4-EL16 80
GSWE-60-RDC-A4-EL16-E 80
GSWE-60-RDC-A4-EL19 80
GSWE-60-RDC-A4-EL19-E 80
GSWE-60x5-RDK-A6-S 82
GSWE-60x6-RDK-A6-S 82
GSWE-250-90-ABB64 79
GSWE-250-90-ABB64-EL10 79
GSWE-250-90-ABB64-EL10-S 79
GSWE-250-90-ABB64-EL16 79
GSWE-250-90-ABB64-EL16-S 79
GSWE-250-90-ABB64-EL19 79
GSWE-250-90-ABB64-EL19-S 79
GSWE-250-90-ABB64-S 79
GSWE-250-90-EL**-ABB64 79
GSWE-250-90-KA7250 79
GSWE-250-90-KA7250-EL10 79
GSWE-250-90-KA7250-EL10-S 79
GSWE-250-90-KA7250-EL16 79
GSWE-250-90-KA7250-EL16-S 79
GSWE-250-90-KA7250-EL19 79
GSWE-250-90-KA7250-EL19-S 79
GSWE-250-90-KA7250-S 79
GSWE-250-90M-EL**-KA760 79
GSWE-250-AF-A4 80
GSWE-250-AF-A4-SEU 80
GSWE-250-DM-ABB64 78
GSWE-250-DM-ABB64-S 78
GSWE-250-DM-EL10-ABB64 78
GSWE-250-DM-EL10-ABB64-S 78
GSWE-250-DM-EL10-KA760 78
GSWE-250-DM-EL10-KA760-S 78
GSWE-250-DM-EL16-ABB64 78
GSWE-250-DM-EL16-ABB64-S 78
GSWE-250-DM-EL16-KA760 78
GSWE-250-DM-EL16-KA760-S 78
GSWE-250-DM-EL19-ABB64 78
GSWE-250-DM-EL19-ABB64-S 78
GSWE-250-DM-EL19-KA760 78
GSWE-250-DM-EL19-KA760-S 78
GSWE-250-DM-EL**-ABB64 78
GSWE-250-DM-EL**-KA760 78
GSWE-250-DM-KA760 78
GSWE-250-DM-KA760-S 78
GSWE-250-RDC-1 81
GSWE-250-RDC-1-EL10 81
GSWE-250-RDC-1-EL16 81
GSWE-250-RDC-1-EL19 81
GSWE-250-RDC-A4 80
GSWE-250-RDC-A4-E 80
GSWE-250-RDC-A4-EL10 80
GSWE-250-RDC-A4-EL10-E 80
GSWE-250-RDC-A4-EL16 80
GSWE-250-RDC-A4-EL16-E 80
GSWE-250-RDC-A4-EL19 80
GSWE-250-RDC-A4-EL19-E 80
GSWE-250-RDK-A6-S 82
GSWE-AF-60* 82
GSWE-AF-250* 82
GSWE-KL-60 81
GSWE-KL-60-EL10 81
GSWE-KL-60-EL16 81
GSWE-KL-60-EL19 81
GSWE-KL-250 81
GSWE-KL-250-EL10 81
GSWE-KL-250-EL16 81
GSWE-KL-250-EL19 81
GSWE-PAT-60x5 117
GSWE-PAT-60x5-* 117
GSWE-PAT-60x6 117
GSWE-PAT-60x6-* 117
GSWE-PAT-60x8 117
GSWE-PAT-60x8-* 117
GT-30-01 216
GT-30-01 216
GT-30-01-SP01 216
GT-30-01-SP01-S 216
GT-30-01-SP03 216
GT-30-01-SP03-S 216
GT-30-01-SP12 216
GT-30-01-SP12-S 216
GT-30-02 217
GT-30-02-SP01 217
GT-30-02-SP01-S 217
GT-30-02-SP03 217
GT-30-02-SP03-S 217
GT-30-02-SP12 217
GT-30-02-SP12-S 217
GT-30-40-GB18-K36-L 227
GT-30-40-GB18-K36-R 227
GT-30-40-GB23-K36 227
GT-40-01 216
GT-40-01 216
GT-40-01-SP01 216
GT-40-01-SP01-S 216
GT-40-01-SP03 216
GT-40-01-SP03-S 216
GT-40-01-SP12 216
GT-40-01-SP12-S 216
GT-40-02 217
GT-40-02-SP01 217
GT-40-02-SP01-S 217
GT-40-02-SP03 217
GT-40-02-SP03-S 217
GT-40-02-SP12 217
GT-40-02-SP12-S 217
GT40-GB17-K28 228
GT40-GB17-K32 228
GT40-GB17-K36 228
GT40-GB18-K28 228
GT40-GB18-K32 228
GT40-GB18-K36 228
GT40-GB23-K28 228
GT40-GB23-K32 228
GT40-GB23-K36 228
GTK-30-01 218
GTK-30-01-SP01 218
GTK-30-01-SP01-S 218
GTK-30-01-SP03 218
GTK-30-01-SP03-S 218

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Part no. Index

GTK-30-01-SP12 218
GTK-30-01-SP12-S 218
GTK-30-02 219
GTK-30-02-SP01 219
GTK-30-02-SP01-S 219
GTK-30-02-SP03 219
GTK-30-02-SP03-S 219
GTK-30-02-SP12 219
GTK-30-02-SP12-S 219
GTK-40-01 218
GTK-40-01-SP01 218
GTK-40-01-SP01-S 218
GTK-40-01-SP03 218
GTK-40-01-SP03-S 218
GTK-40-01-SP12 218
GTK-40-01-SP12-S 218
GTK-40-02 219
GTK-40-02-SP01 219
GTK-40-02-SP01-S 219
GTK-40-02-SP03 219
GTK-40-02-SP03-S 219
GTK-40-02-SP12 219
GT-K40-02-SP12-S 219

I

ISI-4S-60-* 125
ITA-00-30-30-100 123
ITA-30-39-90-100 125
ITA-30-39-90-150 125
ITA-30-39-90-200 125
ITS-00-35-30-200 121
ITS-20-00-* 120
ITS-20-90-* 120
ITS-25-00-* 120
ITS-25-90-* 120
ITS-30-00-* 120
ITS-30-90-* 120
ITS-40-LR-230 121
ITS-90-30-30-* 119

K

KAB-16x3 118
KAB-25x5 118
KAB-40x3 118
KAB-40x6 118
KAB-60x5 118
KAB-60x6 118
KGL-ESS-K28-20 226
KGL-ESS-K28-25 226
KGL-ESS-K28-30 226
KGL-ESS-K28-40 226
KGL-ESS-K32-25 226
KGL-ESS-K32-30 226
KGL-ESS-K32-40 226
KGL-ESS-K36-30 226
KGL-ESS-K36-40 226
KGL-K28-C 167
KGL-PA-K28-AL-P001 167
KGL-PA-K32-AL-P001 167
KGL-PL-00-K28 195
KGL-PL-00-K32 195
KGL-PL-00-K36 195
KGL-PL-90-K28 195
KGL-PL-90-K32 195
KGL-PL-90-K36 195
KGL-PL-K28-P002 195
KGL-PL-K32-P002 195
KGL-PL-K36-P002 195
KK-16-16 105
KK-25-25 105
KK-40-25 105
KK-40-40 105
KK-100-100 105
KK-150-100 105
KKA-19-25 107
KKA-20-20 107
KKA-20-40 107
KKA-25-25 107
KKA-25-30 107
KKA-25-40 107
KKA-30-30 107
KKS-16-16 112
KKS-20-20 112
KKS-20-25 112
KKS-20-30 112
KKS-20-40 112
KKS-20-150 112
KKS-25-25 112
KKS-25-30 112
KKS-25-40 112
KKS-25-50 112
KKS-25-60 112
KKS-30-30 112
KKS-40-40 112
KKS-40-50 112
KL-40-60F 100
KL-60-80F 100
KLF-150 100
KLF-250 100
KLH-25-40 108
KLH-25-60 108
KLH-40-60 108
KLH-100-150 108
KLH-100-250 108
KLH-150-250 108
KLO-25-25 102
KLO-25-40 102
KLO-25-60 102
KLO-40-40 102
KLO-40-60 102
KLO-60-60 102
KLO-100-100 102
KLO-100-150 102
KLO-100-250 102
KLO-150-150 102
KLO-150-250 102
KLO-250-250 102
KLR-25-25 102
KLR-25-40 102
KLR-25-60 102
KLR-40-40 102
KLR-40-60 102
KLR-60-60 102
KLR-100-100 102
KLR-100-150 102
KLR-100-250 102
KLR-150-150 102
KLR-150-250 102
KLR-250-250 102
KQ2L10-02S 175
KQ2L12-02S 175
KQ2S10-02S 175
KQ2S12-02S 175
KQ2U10-12 175
KW150-DM-RD60-A* 91
KW150-DM-RD250-A* 91

M

MA-50-63-M5 133
MA-50-63-M5 154
MA-50-63-M5 164
MA-50-63-M5 192
MA-80-70-G1/8 133
MA-80-70-G1/8 154
MA-80-70-G1/8 164
MA-80-70-G1/8 192
MA-100-70-G1/8 133
MA-100-70-G1/8 154
MA-100-70-G1/8 164
MA-100-70-G1/8 192
MA-130-80-G1/8 133
MA-130-80-G1/8 154
MA-130-80-G1/8 164
MA-130-80-G1/8 192
MG4-G8M 169
MG4-G8M-04 169
MLK-40-G44 168
MLK-40-G44-01 168
MLK-40-G44-2 168
MLK-60-G44 168
MLK-60-G44-2 168
MLK-150-G44 168
MLK-150-G44-01 168
MLK-150-G44-02 168
MLK-250-G44 168
MLK-250-G44-01 168
MMK100-DM-RD60-A* 91
MMK100-DM-RD250-A* 91
MMNY300-DM-RD60-A* 91
MMNY300-DM-RD250-A* 91

N

Ni3,5-Q-5,5-AP6X 223
NPG-410-20-50-* 199
NPG-410-20-50-*-A 200
NPG-410-20-50-*-B 199
NPG-410-25-50-* 199
NPG-410-25-50-*-A 200
NPG-410-25-50-*-B 199
NPG-410-30-50-* 199
NPG-410-30-50-*-A 200
NPG-410-30-50-*-B 199
NPG-410E-127-* 198
NPG-410E-152-* 198
NPG-410E-178-* 198
NPG-410E-203-* 198
NPG-410S-89-* 198
NPG-410S-114-* 198
NPG-410S-133-* 198
NPG-410S-165-* 198

O

OGL 50/31 P6L-IBS 225
OGL 50/31 P6L-RIBS/PE 225
OGL 55/54 P6L-IBS 225
OGL 55/54 P6L-RIBS/PE 225

P

PA-19-C-G1/4 160
PA-19-C-G1/8 160
PA-19-G1/4 159
PA-19-G3/8 159
PA-19-LR-G1/4 159
PA-19-LR-G3/8 159
PA-19-LR-G3/8-B 159
PA-75-3/8-NPT 159
PA-75-C-1/4-NPT 160
PA-75-C-1/4-NPT-K28 160
PAB-25-* 115
PAB-100-* 115
PA-K28-3/8-NPT 159
PA-K28-C-G1/4 160
PA-K28-C-G1/8 160
PA-K28-G1/4 159
PA-K28-G3/8 159
PA-K32-G3/8 159
PAT-25x5-* 115
PAT-40x3-* 115
PAT-40x6-* 115
PAT-60x5-* 115
PAT-60x6-* 115
PAT-60x8-* 115
PAT-100-* 115
PAT-150-* 115
PAT-250-*
PAT-16x3-* 115
PCT-40x5-* 116
PCT-60x5-* 116
PCT-100-* 116
PCT-150-* 116
PCT-250-*
PCT-25x5-* 116
PKA-25-30 107
PKS-20-20 112
PKS-20-30 112
PKS-25-25 112
PKS-30-30 112
PL-100-40-S 192
PL-105-60 192
PL-105-250 192
PL-130-60 193
PL-130-250 193
PL-160-60 193
PL-160-250 193
PL-215-40 193
PL-215-60 193
PL-215-60-DC 194
PL-215-60-S 194
PL-215-150 193
PL-215-250 193
PL-215-250-DC 194
PL-215-250-S 194
PLC-400-M8-ST 83
PLC-400-M8-VT 83
PLC-400-M10-VT 83
PLR-D-40-125-A 92
PLR-D-40-160-A 92
PLR-D-40-*-A 92
PLR-D-60-125-A 92
PLR-D-60-160-A 92
PLR-D-60-*-A 92
PLR-D-150-125-A 92
PLR-D-150-160-A 92
PLR-D-150-*-A 92
PLR-D-250-125-A 92
PLR-D-250-160-A 92
PLR-D-250-*-A 92
PLR-E-40-125-A 93
PLR-E-40-160-A 93
PLR-E-40-*-A 93
PLR-E-60-125-A 93
PLR-E-60-160-A 93
PLR-E-60-*-A 93
PLR-E-150-125-A 93
PLR-E-150-160-A 93
PLR-E-150-*-A 93
PLR-E-250-125-A 93
PLR-E-250-160-A 93
PLR-E-250-*-A 93
PS-30-I2-35-K-B 207
PS-30-I2-35-K-B-S* 207
PS-30-I-35-K-B 207
PS-30-I-35-K-B-S* 207
PS-30-I-35-K-K 207
PS-30-I-35-K-K-S* 207
PS-30-I-GD-P003 221
PS-30-I-GD-P007 221
PS-30-I-P007 222
PS-30-L-50-K-B 208
PS-30-L-50-K-B-S* 208

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Part no. Index

PS-30-L-50-K-K 208
PS-30-L-50-K-K-S* 208
PS-30-L-90-K-B 208
PS-30-L-90-K-B-S* 208
PS-30-L-90-K-K 208
PS-30-L-90-K-K-S* 208
PS-30-L-90-P013 222
PS-40-I2-40-P005 222
PS-40-I2-40-SP03-B 210
PS-40-I-15-15-T-K-B-SL 211
PS-40-I-15-15-T-K-B-SR 211
PS-40-I-15-15-T-K-K-SL 212
PS-40-I-15-15-T-K-K-SR 212
PS-40-I-15-60-T-K-B-SL 211
PS-40-I-15-60-T-K-B-SR 211
PS-40-I-15-60-T-K-K-SL 212
PS-40-I-15-60-T-K-K-SR 212
PS-40-I-40-K-B 209
PS-40-I-40-K-B-S* 209
PS-40-I-40-K-K 209
PS-40-I-40-K-K-S* 209
PS-40-I-40-P005 221
PS-40-I-40-P016 222
PS-40-I-75-75-T-K-B-SL 211
PS-40-I-75-75-T-K-B-SR 211
PS-40-I-75-75-T-K-K-SL 212
PS-40-I-75-75-T-K-K-SR 212
PS-40-L-90-2-K-B 213
PS-40-L-90-2-K-B-S* 213
PS-40-L-90-2-K-K 213
PS-40-L-90-2-K-K-S* 213
PS-40-L-90-K-B 214
PS-40-L-90-K-B-SL* 214
PS-40-L-90-K-B-SR* 214
PS-40-L-90-K-K 214
PS-40-L-90-K-K-SL* 214
PS-40-L-90-K-K-SR* 214
PS-A126352Q32511 223
PSB-01-40-3-K-B 215
PSB-01-40-3-K-B-S* 215
PS-ESS-30-B19 226
PS-ESS-30-B20 226
PS-ESS-40-B19 226
PS-ESS-40-B20 226
PS-K-M8x25-G 220
PS-K-M8x25-R 220
PS-K-M8x30-G 220
PS-K-M8x30-R 220
PS-K-M10x40-G 220
PS-K-M10x40-R 220
PST-16x2.5-* 116
PST-20x1.5-* 116
PST-20x2.5-* 116
PST-25x1.5-* 116
PST-25x2.5-* 116
PST-30x2.5-* 116
PST-40x2.5-* 116
PST-60x3.0-* 116
PUN-6x1-BL 177
PUN-6x1-GE 177
PUN-6x1-GN 177
PUN-6x1-RT 177
PUN-6x1-SI 177
PUN-6x1-SW 177
PUN-8x1.25-BL 177
PUN-8x1.25-GE 177
PUN-8x1.25-GN 177
PUN-8x1.25-RT 177
PUN-8x1.25-SI 177
PUN-8x1.25-SW 177
PUN-10x1.5-BL 177
PUN-10x1.5-GE 177
PUN-10x1.5-GN 177
PUN-10x1.5-RT 177
PUN-10x1.5-SI 177
PUN-10x1.5-SW 177
PUN-12x2-SI 177

Q

QS-1/8-6 176
QS-1/8-8 176
QSL-1/4-6 176
QSL-1/4-8 176
QSL-1/8-6 176
QSL-1/8-8 176
QST-1/8-6 176
QST-1/8-8 176
QSY-6 177
QSY-8 177

R

RCM-19-NR-A / RCM-19-A 170
RCM-19-NR / RCM-19 170
RCM-19-W-NR 170
RCM-19-W-NR-A 170
RCM-40-NR-A / RCM-40-A 170
RCM-40-NR / RCM-40 170
RCM-40-W-NR 170
RCM-40-W-NR-A 170
RCM-75-NR-A / RCM-75-A 170
RCM-75-NR / RCM-75 170
RCM-75-W-NR 170
RCM-75-W-NR-A 170
RCM-95-NR-A / RCM-95-A 170
RCM-95-NR / RCM-95 170
RCM-95-W-NR 170
RCM-95-W-NR-A 170
RCM-100-NR / RCM-100 170
RCM-150-NR / RCM-150 170
RCM-300-NR / RCM-300 170
RDB-M5P-5B5 85
RDB-M5P-5B5-AU* 85
RDB-M5P-5B5-BH 86
RDB-M10P-A10 87
RDB-M10P-A10-BH 88
RDB-M16P-A19 89
RDB-M19P-A19 90
RDB-M19P-A19-AU* 90
RDB-MC16-SWA 84
RDC-60-1-A3 69
RDC-60-1-A3-EL10 69
RDC-60-1-A3-EL16 69
RDC-60-1-A3-EL19 69
RDC-60-1-A6 69
RDC-60-1-A6-EL10 69
RDC-60-1-A6-EL16 69
RDC-60-1-A6-EL19 69
RDC-250-1-A3 69
RDC-250-1-A3-EL10 69
RDC-250-1-A3-EL16 69
RDC-250-1-A3-EL19 69
RDC-250-1-A6 69
RDC-250-1-A6-EL10 69
RDC-250-1-A6-EL16 69
RDC-250-1-A6-EL19 69
RDH-F5S-5B5 85
RDH-F5S-5B5-AU* 85
RDH-F5S-5B5-BH 86
RDH-F10S-A10 87
RDH-F10S-A10-BH 88
RDH-F16S-A19 89
RDH-F19S-A19 90
RDH-F19S-A19-AU* 90
RDK-40-1B-O2-S1 60
RDK-40-1B-O3-S0 60
RDK-40-1F-O2-S1 60
RDK-40-1F-O3-S0 60
RDK-60-1-A3 69
RDK-60-1-A6 69
RDK-60-2-A3-O2-S1 68
RDK-60-2-A3-O3-S0 68
RDK-60-2-A6-O2-S1 68
RDK-60-2-A6-O3-S0 68
RDK-60-2-A6-O4-S2 68
RDK-60-2-A6-O5-S1 68
RDK-60-2-A6-O6-S0 68
RDK-150-1-A3-38 62
RDK-150-1B-O2-S1 60
RDK-150-1B-O3-S0 60
RDK-150-1F-O2-S1 60
RDK-150-1F-O3-S0 60
RDK-250-1-A3 69
RDK-250-1-A6 69
RDK-250-A3-O2-S1 68
RDK-250-A3-O3-S0 68
RDK-250-A6-O2-S1 68
RDK-250-A6-O3-S0 68
RDK-250-A6-O4-S2 68
RDK-250-A6-O5-S1 68
RDK-250-A6-O6-S0 68
RDN-250-6-O0-S0 67
RDN-250-6-O0-S0-EL5 67
RDN-250-6-O0-S0-EL10 67
RDN-250-6-O0-S0-EL16 67
RDN-250-6-O0-S0-EL19 67
RDN-250-6-O2-S1 67
RDN-250-6-O2-S1-EL5 67
RDN-250-6-O2-S1-EL10 67
RDN-250-6-O2-S1-EL16 67
RDN-250-6-O2-S1-EL19 67
RDN-250-6-O3-S0 67
RDN-250-6-O3-S0-EL5 67
RDN-250-6-O3-S0-EL10 67
RDN-250-6-O3-S0-EL16 67
RDN-250-6-O3-S0-EL19 67
RDN-250-6-O4-S2 67
RDN-250-6-O4-S2-EL5 67
RDN-250-6-O4-S2-EL10 67
RDN-250-6-O4-S2-EL16 67
RDN-250-6-O4-S2-EL19 67
RDN-250-6-O5-S1 67
RDN-250-6-O5-S1-EL5 67
RDN-250-6-O5-S1-EL10 67
RDN-250-6-O5-S1-EL16 67
RDN-250-6-O5-S1-EL19 67
RDN-250-6-O6-S0 67
RDN-250-6-O6-S0-EL5 67
RDN-250-6-O6-S0-EL10 67
RDN-250-6-O6-S0-EL16 67
RDN-250-6-O6-S0-EL19 67
RT-12-*-* 200
RT-25-*-* 200
RT-50-*-* 200
RT-75-*-* 200

S

SA25-19-20-* 134
SA25-19-25-* 134
SA25-19-40-* 134
SA25-19-60-* 135
SA25-20-19-* 134
SA25-20-40-* 134
SA25-25-19-* 134
SA25-25-25-* 134
SA25-25-40-* 134
SA25-25-60-* 135
SA25-25-K28-* 136
SA25-40-19-* 134
SA25-40-25-* 134
SA25-40-40-* 134
SA25-40-60-* 135
SA25-40-K28-* 136
SA25-60-19-* 135
SA25-60-25-* 135
SA25-60-40-* 135
SA25-60-K28-* 136
SA25-K28-25-* 136
SA25-K28-40-* 136
SA25-K28-60-* 136
SA100-75-100-* 134
SA100-75-150-* 134
SA100-75-250-* 135
SA100-100-75-* 134
SA100-100-100-* 134
SA100-100-150-* 134
SA100-100-250-* 135
SA100-100-K28-* 136
SA100-150-25-* 135
SA100-150-75-* 134
SA100-150-100-* 134
SA100-150-150-* 134
SA100-150-K28-* 136
SA100-250-75-* 135
SA100-250-100-* 135
SA100-250-150-* 135
SA100-250-K28-* 136
SA100-K28-100-* 136
SA100-K28-150-* 136
SA100-K28-250-* 136
SAPA-18 185
SAPA-30 185
SAPA-36 185
SAPA-42 185
SAPA-47 185
SAPA-I-30-B20 184
SAPA-I-30-K28 183
SAPA-I-30-K32 183
SAP-NJ50 185
SAPS-18-K28 186
SAPS-18-K32 186
SAPS-18-K36 186
SAPS-30-K28 186
SAPS-30-K32 186
SAPS-30-K36 186
SAPS-I-30-B19 184
SAPS-I-30-B20 184
SAPS-I-30-K28 183
SAPS-I-30-K32 183
SAPS-I-M2015-K28 183
SCM-19-G14-K28-NR-A / SCM-19-G14-K28-A 172
SCM-19-G14-K28-NR / SCM-19-G14-K28 172
SCM-19-G14-K32-NR / SCM-19-G14-K32 172
SCM-19-G14-NR-A / SCM-19-G14-A 171
SCM-19-G14-NR / SCM-19-G14 171
SCM-40-G14-K28-NR-A / SCM-40-G14-K28-A 172
SCM-40-G14-K28-NR / SCM-40-G14-K28 172
SCM-40-G14-K32-NR / SCM-40-G14-K32 172
SCM-40-G14-NR-A / SCM-40-G14-A 171
SCM-40-G14-NR / SCM-40-G14 171
SCM-75-G14-K28-NR-A / SCM-75-G14-K28-A 172
SCM-75-G14-K28-NR / SCM-75-G14-K28 172

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Part no. Index

SCM-75-G14-K32-NR / SCM-75-G14-K32 172
SCM-75-G14-NR-A / SCM-75-G14-A 171
SCM-75-G14-NR / SCM-75-G14 171
SCM-95-G14-K28-NR / SCM-95-G14-K28 172
SCM-95-G14-K32-NR / SCM-95-G14-K32 172
SCM-95-G14-NR-A / SCM-95-G14-A 171
SCM-95-G14-NR / SCM-95-G14 171
SCM-100-G14-K28-NR / SCM-100-G14-K28 172
SCM-100-G14-NR / SCM-100-G14 171
SCM-150-G14-K28-NR / SCM-150-G14-K28 172
SCM-150-G14-NR / SCM-150-G14 171
SCM-300-G14-K28-NR / SCM-300-G14-K28 172
SCM-300-G14-NR / SCM-300-G14 171
SCM-375-G14-K28-NR / SCM-375-G14-K28 172
SCM-375-G14-NR / SCM-375-G14 171
SH-K28-L 197
SH-K28-R 197
SH-K32-L 197
SH-K32-R 197
SH-K36-L 197
SH-K36-R 197
SP01-35 221
SP01-45 221
SP03-23 220
SP03-30 220
SP03-35 220
SP03-45 220
SP03-55 220
SP12-43 221
SS16-T-* 138
SS25-T-* 138
SS25-T-*-S 139
SS100-T-* 138
SS100-T-*-S 139
ST-12-*-* 201
ST-25-*-* 201
ST-50-*-* 201
ST-75-*-* 201
STA-15-25-* 118
STA-15-40-* 118
STS-00-16-*-GD 122
STS-00-20-*-GD 122
STS-00-25-*-GD 122
STS-00-30-*-GD 122
STS-90-16-*-GD 122
STS-90-20-*-GD 122
STS-90-25-*-GD 122
STS-90-30-*-GD 122
STS-S-00-25-* 119
SWA-819-60 84
SWA-819-60-EL16 84
SWA-819-250 84
SWA-819-250-EL16 84

T

TC-1700-1200-1715-B-A002 265
TC-DK-04-950-1056-1070 259
TC-DK-08-950-1056-1070 259
TC-DK-20-950-2242-1070 260
TC-RDC-8-1900-950-1070 261
TC-RDC-8-1900-950-1070-1 261
TC-RDC-8-2600-950-1070 261
TC-SW-DB-Z-001 265
TC-SW-KE-01 263
TC-TR-A-1600-950-1070-14H 262
TC-TR-A-1600-950-1070-14H-1RDC 262
TDC-40-2-A3 61
TDC-40-2-A3-EL5 61
TDC-40-2-A3-EL10 61
TDC-40-2-K1-30-A3 61
TDC-40-2-K1-30-A3-EL5 61
TDC-40-2-K1-30-A3-EL5-HC 61
TDC-40-2-K2-30-A3 61
TDC-40-2-K2-30-A3-EL5 61
TDC-40-2-K2-30-A3-EL5-HC 61
TDC-40-A4-K1-GM 64
TDC-40-A4-K2-GM 64
TDC-40-A4-K3-GM 64
TDC-40-A4-K4-GM 64
TDC-40-A6-K1-GM 64
TDC-40-A6-K2-GM 64
TDC-40-A6-K3-GM 64
TDC-40-A6-K4-GM 64
TDC-40-GM-P003 64
TDC-40-GM-P004 65
TDC-150-2-A3 61
TDC-150-2-A3-EL5 61
TDC-150-2-A3-EL10 61
TDC-150-2-K1-30-A3 61
TDC-150-2-K1-30-A3-EL5 61
TDC-150-2-K1-30-A3-EL5-HC 61
TDC-150-2-K1-38-A3 62
TDC-150-2-K1-38-A3-EL5 62
TDC-150-2-K1-38-A3-EL5-HC 62
TDC-150-2-K2-30-A3 61
TDC-150-2-K2-30-A3-EL5 61
TDC-150-2-K2-30-A3-EL5-HC 61
TDC-150-2-K2-38-A3 62
TDC-150-2-K2-38-A3-EL5 62
TDC-150-2-K2-38-A3-EL5-HC 62
TDC-150-A4-K1-GM 64
TDC-150-A4-K2-GM 64
TDC-150-A4-K3-GM 64
TDC-150-A4-K4-GM 64
TDC-150-A6-K1-GM 64
TDC-150-A6-K2-GM 64
TDC-150-A6-K3-GM 64
TDC-150-A6-K4-GM 64
TDC-150-GM-P003 64
TDC-150-GM-P004 65
TDC-150-GM-P005 65
TEVDZ-1/4-6x4-SCH 174
TEVDZ-1/4-8x6-SCH 174
TEVDZ-1/4-10x8-SCH 174
TEVDZ-1/8-6x4-SCH 174
TH-40-110 263
TH-60-165 263
TH-60-317 263
TH-60-470 263
TH-60-600 263
TH-60-950 263
TH-150-110 263
TH-250-165 263
TH-250-317 263
TH-250-470 263
TH-TR-40-95-25-250 264
TH-TR-A-40-250 264
TH-TR-A-40-300 264
TH-TR-A-40-500 264
TK-25-25 104
TK-25-40 104
TK-25-40-O 105
TK-25-300-O 105
TK-40-25 104
TK-40-40 104
TK-40-300-O 105
TK-100-100 104
TK-100-150 104
TK-100-150-O 105
TK-150-100 104
TK-150-150 104
TKA-20-2Z40-70 106
TKA-20-2Z40-W30-L 106
TKA-20-2Z40-W30-R 106
TKA-20-2Z40-W45-L 106
TKA-20-2Z40-W45-R 106
TKA-25-2Z40-70 106
TKA-25-2Z40-W30-L 106
TKA-25-2Z40-W30-R 106
TKA-25-2Z40-W45-L 106
TKA-25-2Z40-W45-R 106
TKA-25-K28-70 107
TKR-16-16 103
TKR-25-25 103
TKR-25-40 103
TKR-25-40-A 104
TKR-25-60 103
TKR-40-25 103
TKR-40-40 103
TKR-40-60 103
TKR-60-25 104
TKR-60-40 104
TKR-60-60 104
TKR-100-100 103
TKR-100-150 103
TKR-100-250 103
TKR-150-100 103
TKR-150-150 103
TKR-150-250 103
TKR-250-100 104
TKR-250-150 104
TKR-250-250 104
TKS-00-25-K32-70 110
TKS-20-K28-70 110
TKS-20-K32-70 110
TKS-20-K36-70 110
TKS-20-Z40-70 111
TKS-20-Z40-W30-L 111
TKS-20-Z40-W30-R 111
TKS-20-Z40-W45-L 111
TKS-20-Z40-W45-R 111
TKS-25-25-70 109
TKS-25-K28-70 110
TKS-25-K32-70 110
TKS-25-K36-70 110
TKS-25-Z40-70 111
TKS-25-Z40-W30-L 111
TKS-25-Z40-W30-R 111
TKS-25-Z40-W45-L 111
TKS-25-Z40-W45-R 111
TKS-30-30-70 109
TKS-30-K28-70 110
TKS-30-Z40-70 111
TR-40-31 191
TR-40-31-02 192
TR-40-31-03 191
TR-60-31 191
TR-60-31-02 191
TR-60-31-03 191
TR-60-31-04 192
TR-150-31 191
TR-150-31-02 192
TR-150-31-03 191
TR-250-31-02 191
TR-250-31-03 191
TR-250-31-04 192
TR-A-25-VH-A2 72
TR-A-25-VH-A2-EL5 72
TR-A-40-95-VH-A2 75
TR-A-40-95-VH-A2-EL6 75
TR-A-40-95-VH-A2-EL6 75
TR-A-40-VH-A2 72
TR-A-40-VH-A2-EL5 72
TR-A-60-VH-A3 74
TR-A-60-VH-A3-EL5 74
TR-A-100-VH-A2 72
TR-A-100-VH-A2-EL5 72
TR-A-150-95-VH-A2 75
TR-A-150-95-VH-A2-EL6 75
TR-A-150-VH-A2 72
TR-A-150-VH-A2-EL5 72
TR-A-250-VH-A3 74
TR-A-250-VH-A3-EL5 74
TR-C-40-95-VH-A2 75
TR-C-60-VH-A3 74
TR-C-60-VH-A3-EL5 74
TR-C-60-VH-A5 74
TR-C-60-VH-A5-EL5 74
TR-C-150-95-VH-A2 75
TR-C-150-95-VH-A2-EL6 75
TR-C-2540-VH-A2 71
TR-C-2540-VH-A2-EL5 71
TR-C-2540-VH-O0-S2 71
TR-C-2540-VH-O0-S2-EL5 71
TTN-40-1B-O2-S1 59
TTN-40-1B-O2-S1-EL5 59
TTN-40-1B-O2-S1-EL10 59
TTN-40-1B-O3-S0 59
TTN-40-1B-O3-S0-EL5 59
TTN-40-1B-O3-S0-EL10 59
TTN-40-1F-O2-S1 59
TTN-40-1F-O2-S1-EL5 59
TTN-40-1F-O2-S1-EL10 59
TTN-40-1F-O3-S0 59
TTN-40-1F-O3-S0-EL5 59
TTN-40-1F-O3-S0-EL10 59
TTN-40-A4 63
TTN-40-A4-K1 63
TTN-40-A4-K2 63
TTN-40-A4-K3 63
TTN-40-A4-K4 63
TTN-40-A6 63
TTN-40-A6-K1 63
TTN-40-A6-K2 63
TTN-40-A6-K3 63
TTN-40-A6-K4 63
TTN-150-1B-O2-S1 59
TTN-150-1B-O2-S1-EL5 59
TTN-150-1B-O2-S1-EL10 59
TTN-150-1B-O3-S0 59
TTN-150-1B-O3-S0-EL5 59
TTN-150-1B-O3-S0-EL10 59
TTN-150-1F-O2-S1 59
TTN-150-1F-O2-S1-EL5 59
TTN-150-1F-O2-S1-EL10 59
TTN-150-1F-O3-S0 59
TTN-150-1F-O3-S0-EL5 59
TTN-150-1F-O3-S0-EL10 59
TTN-150-A4 63
TTN-150-A4-K1 63
TTN-150-A4-K2 63
TTN-150-A4-K3 63
TTN-150-A4-K4 63
TTN-150-A6 63
TTN-150-A6-K1 63
TTN-150-A6-K2 63
TTN-150-A6-K3 63
TTN-150-A6-K4 63
TU0604BU 178

Subject to modification
Edition **01/2013**

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TU0604C 178
TU0604R 178
TU0805BU 178
TU0805C 178
TU0805G 178
TU0805R 178
TU0805W 178
TU0805Y 178
TU1065BU 178
TU1208BU 178
TVB-6x4-SCH 174
TVB-8x6-SCH 174
TVB-10x8-SCH 174

V

VDC-40-A2 83
VDC-40-A4 83
VDC-40-A5 83
VDC-60-A2 83
VDC-60-A4 83
VDC-60-A5 83
VDC-76-A2 83
VDC-76-A4 83
VDC-76-A5 83
VDC-150-A2 83
VDC-150-A4 83
VDC-150-A5 83
VDC-250-A2 83
VDC-250-A4 83
VDC-250-A5 83
VDC-300-A2 83
VDC-300-A4 83
VDC-300-A5 83
VMA-8-BO-G3/8 165
VMA-8-BO-G3/8-9 165
VMA-19-ABO3-G1/4 164
VMA-19-ABO3-G3/8 164
VMA-19-ABO6-C 165
VMA-19-BO-G1/4 162
VMA-19-BO-G1/4-LP 162
VMA-19-BO-G3/8 162
VMA-19-BO-G3/8-LP 162
VMA-19-G1/4 161
VMA-19-G3/8 161
VMA-19-MBO6-G3/8 164
VMA-75-3/8-NPT 161
VMA-75-ABO-3/8-NPT 164
VMA-75-BO-3/8-NPT 162
VMA-75-BO-3/8-NPT-LP 162
VMA-K28-3/8-NPT 161
VMA-K28-ABO-C 165
VMA-K28-ABO-G1/4 164
VMA-K28-ABO-G3/8 164
VMA-K28-BO-3/8-NPT 162
VMA-K28-BO-3/8-NPT-LP 163
VMA-K28-BO-C 163
VMA-K28-BO-C-NPT 163
VMA-K28-BO-G1/4 162
VMA-K28-BO-G1/4-LP 163
VMA-K28-BO-G3/8 162
VMA-K28-BO-G3/8-LP 163
VMA-K28-G1/4 161
VMA-K28-G3/8 161
VMA-K32-G1/4 161
VVB-8-BO 165

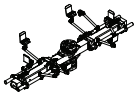
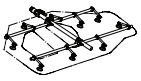
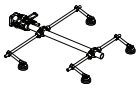
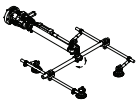
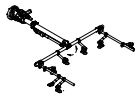
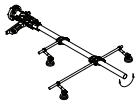
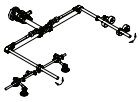
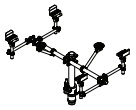
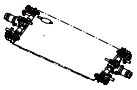
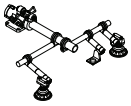
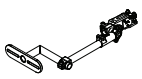
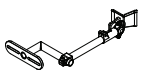
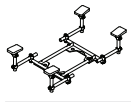
W

WEVD-1/4-6x4-SCH 173
WEVD-1/4-8x6-SCH 173
WEVD-1/4-10x8-SCH 173
WEVD1/8-6x4-SCH 173
WEVD-1/8-8x6-SCH 173
WRWM-45-60 241
WRWM-45-250 241
WRWM-90-60 241
WRWM-90-250 241
WRWM-4560-50 241
WRWM-4560-63 241
WRWM-6060-63 241
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WRWM-45250-50 241
WRWM-45250-63 241
WRWM-60250-63 241
WRWM-90250-50 241

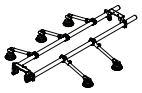
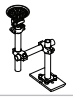
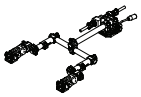
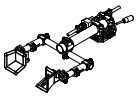
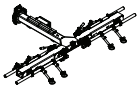
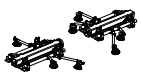
Subject to modification
Edition **01/2013**

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Application

Picture	Designation	Page
	Carbon beam-Destacker	15
	Carbon beam-Shuttle	16
	Carbon beam-Centering robot	17
	Upper Tooling series 60	18
	Upper Tooling series 60	19
	Upper Tooling series 60, 0 to 90° swivel	20
	Upper Tooling series 60,0 to 90° tilt	21
	Upper Tooling series 60, 0 to 90° rotate	22
	Upper Tooling series 60 with two tilt axis	23
	Floor stations series 60	24
	Turnover station series 60	25
	Turnover station Serie 60	26
	Upper Tooling series 40	27
	Transfer press tooling series 25	28
	Transfer press tooling series 25	29
	Floor station series 60	30

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Picture	Designation	Page
	GRS press tooling series 40	31
	GRS press tooling	32
	GRS press tooling	32
	Tooling cart	33
	Tooling cart with single tooling series 40	33
	Transfer press tooling series 25	34
	Transfer press tooling series 40	35
	Crossbar single tooling	36
	Crossbar double tooling	37
	Carbon fibre T-beam with tooling series 40 and 25	38
	Carbon fibre T-beam for destacking with multiplex tooling	39
	Carbon fibre T-beam with 2 port double tooling	40
	Body shop gripper	41
	Carbon fibre tube with tooling series 40	42
	Carbon beam-Interpress	43
	Carbon beam telescopic bar	44

Subject to modification
Edition 01/2013

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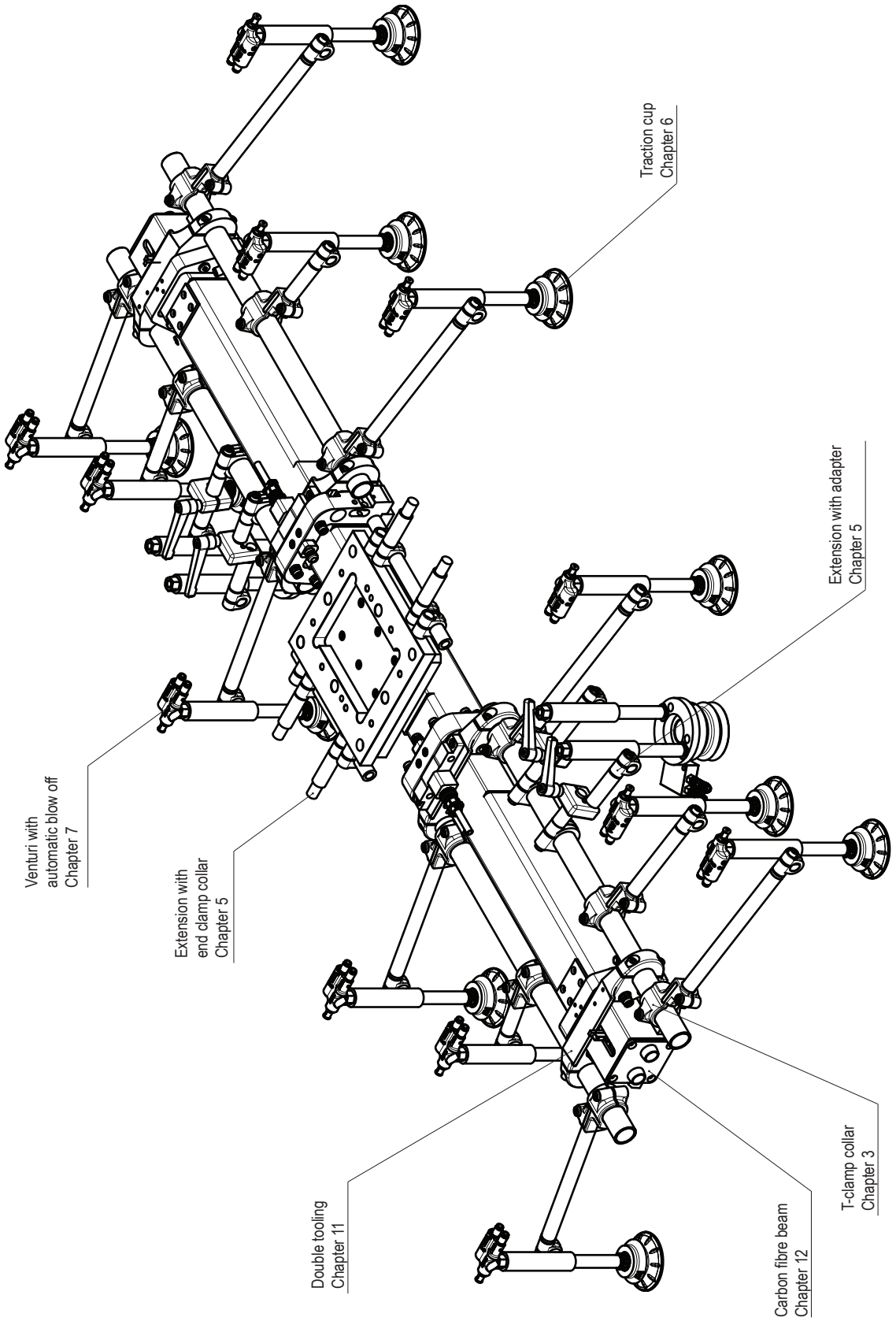
Application

Picture	Designation	Page
	H-frame - Carbon	45
	Handling gripper	46
	Handling gripper - Front bonnet	47
	Process gripper	48
	Process gripper - Floor rear	49
	Geometri gripper	50
	Geometri gripper - Floor rear	51
	Flies role gripper	52

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Application

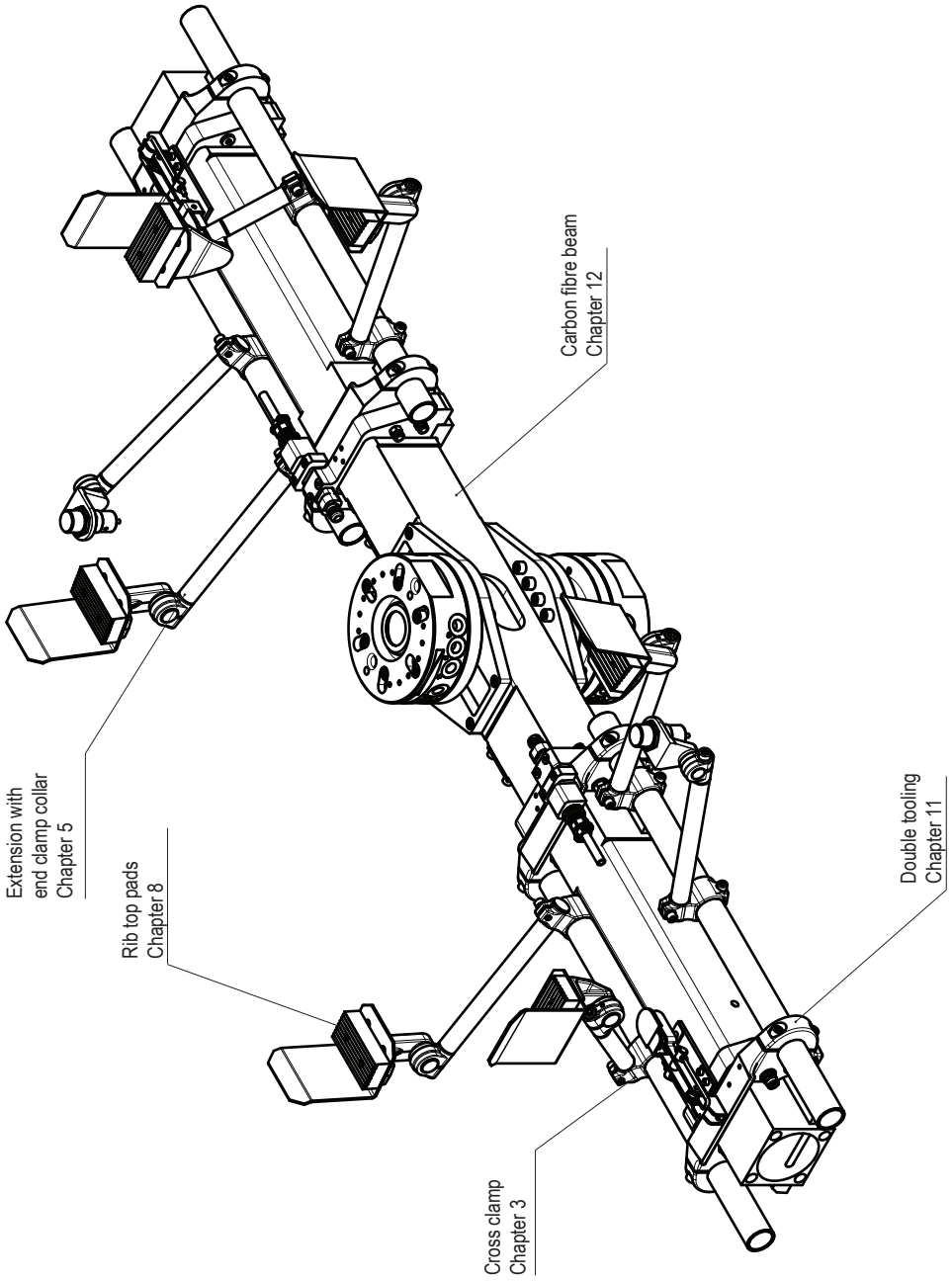
Carbon beam-Destacker



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Carbon beam-Shuttle

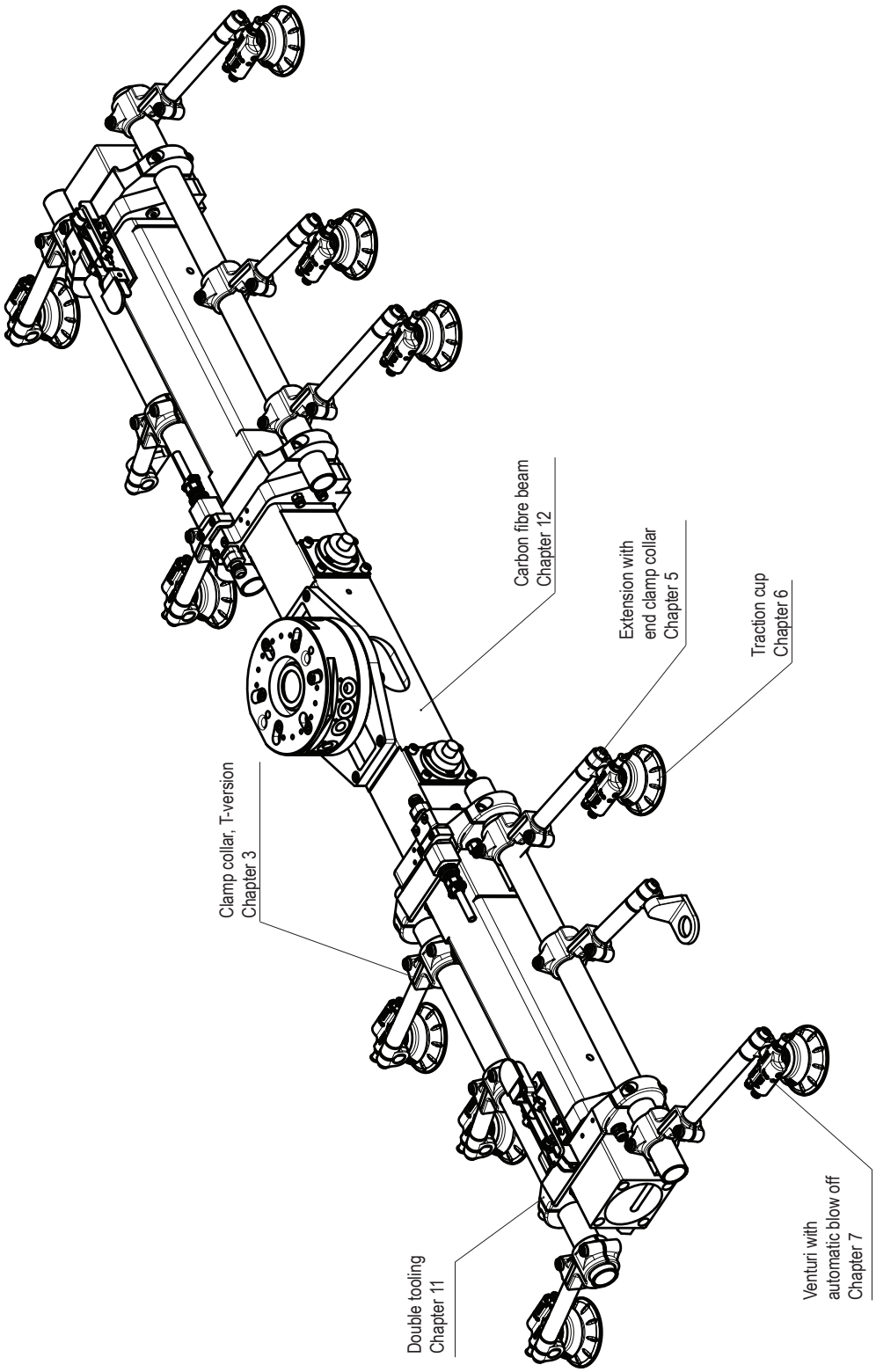


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Edition **01/2013**

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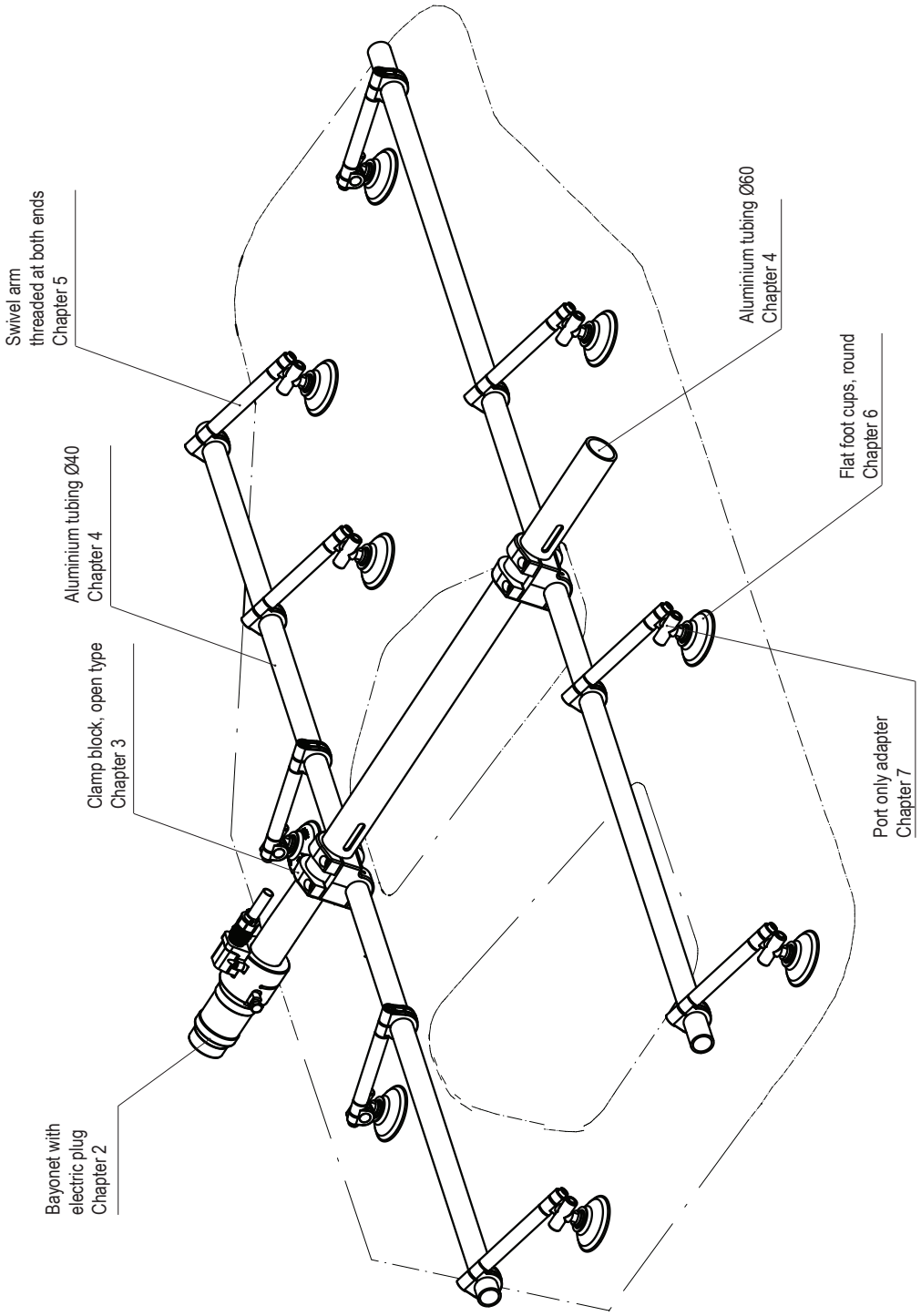
Application

Carbon beam-Centering robot



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Upper Tooling series 60

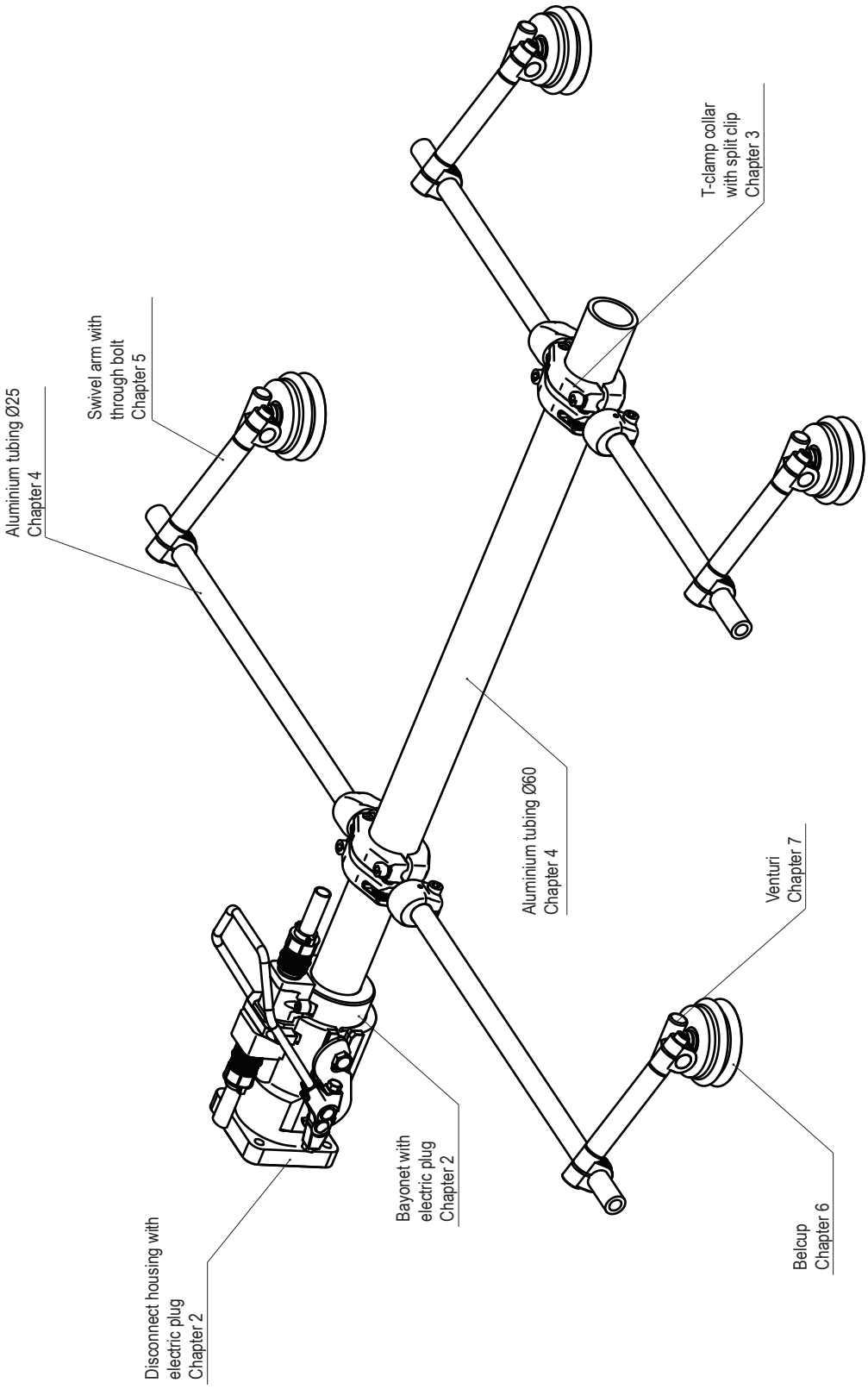


Subject to modification
Edition **01/2013**

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Application

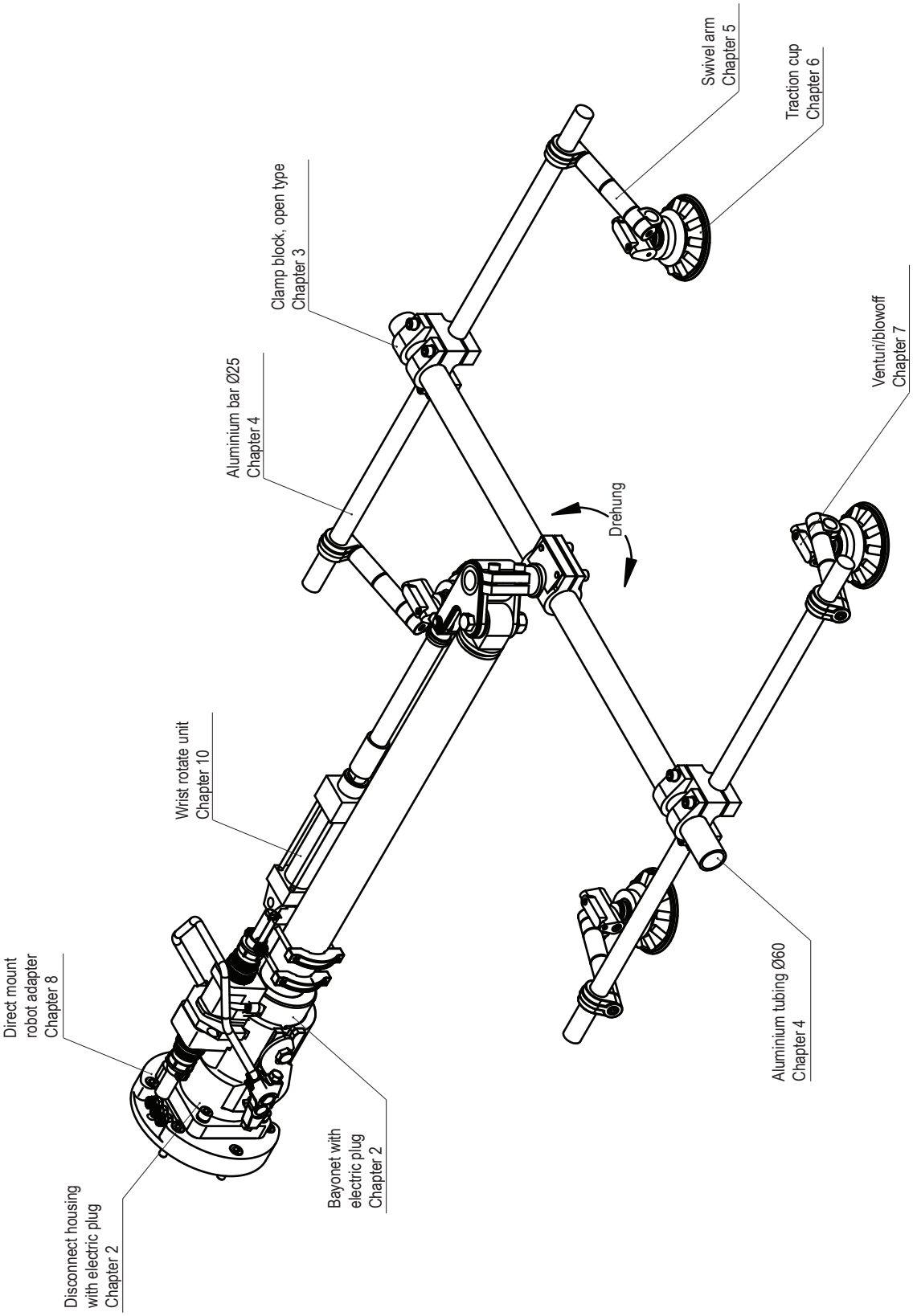
Upper Tooling series 60



Subject to modification
Edition **01/2013**

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Upper Tooling series 60, 0 to 90° swivel

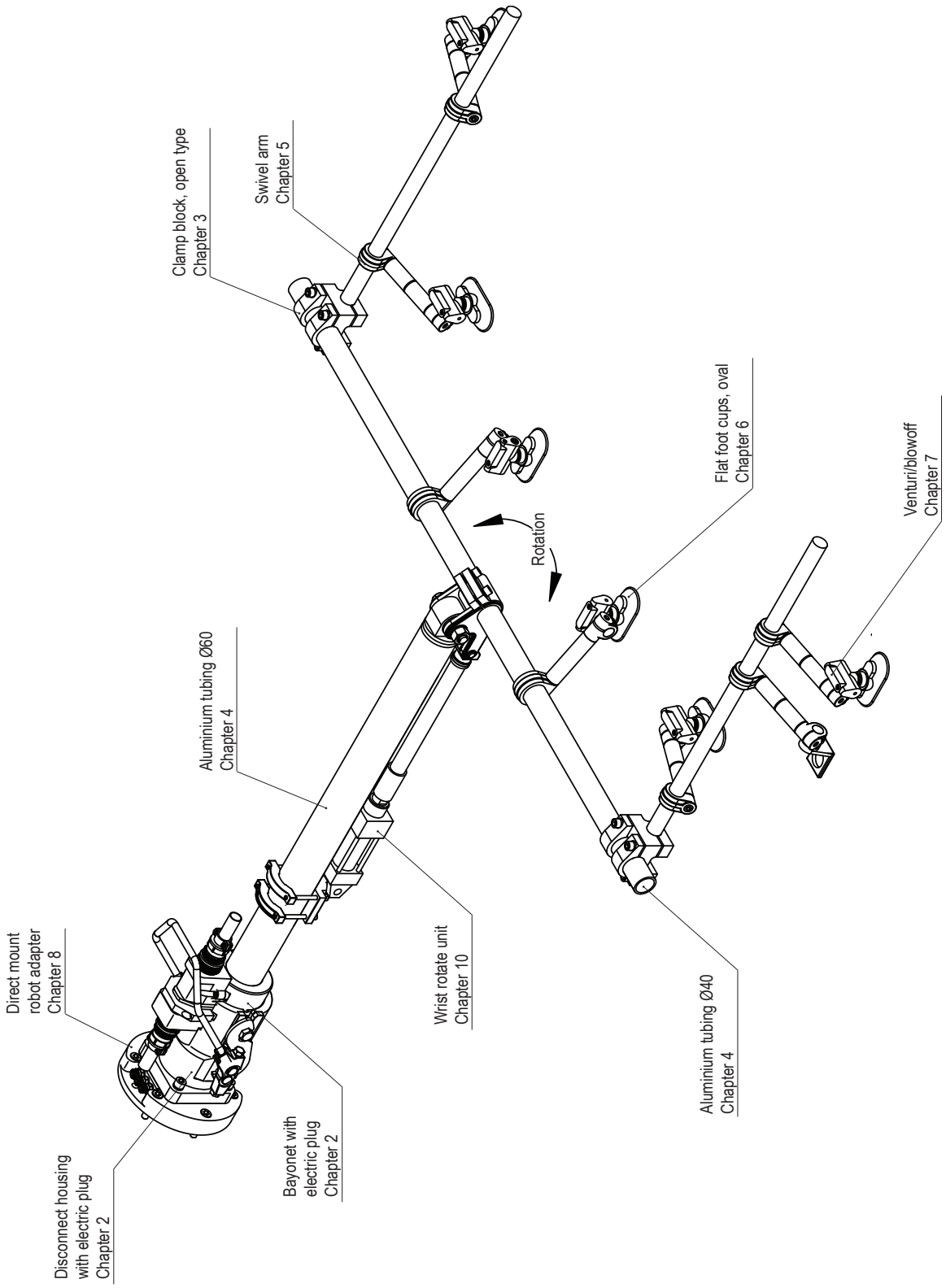


Subject to modification
Edition **01/2013**

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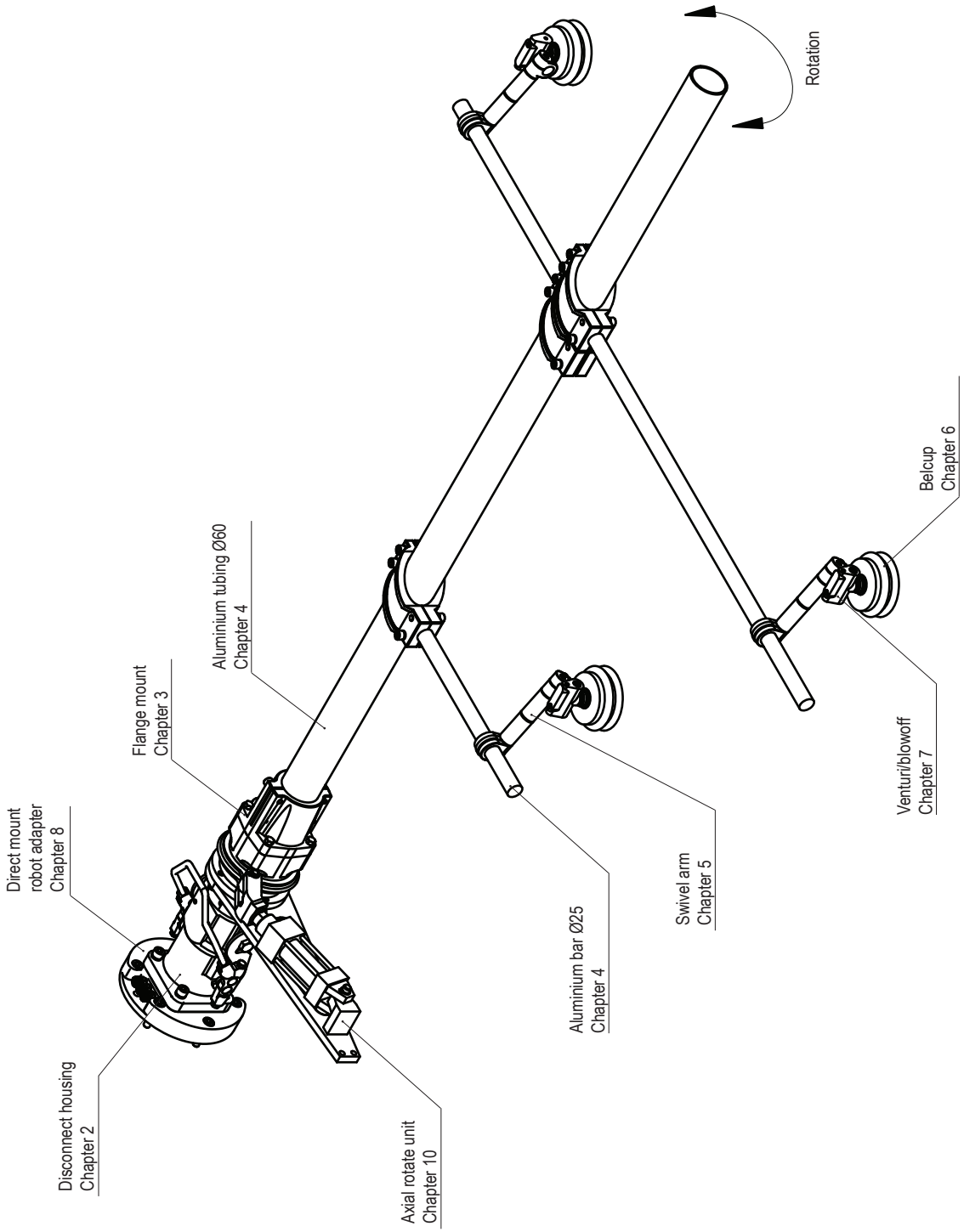
Upper Tooling series 60, 0 to 90° tilt



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Edition **01/2013**

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Upper Tooling series 60, 0 to 90° rotate

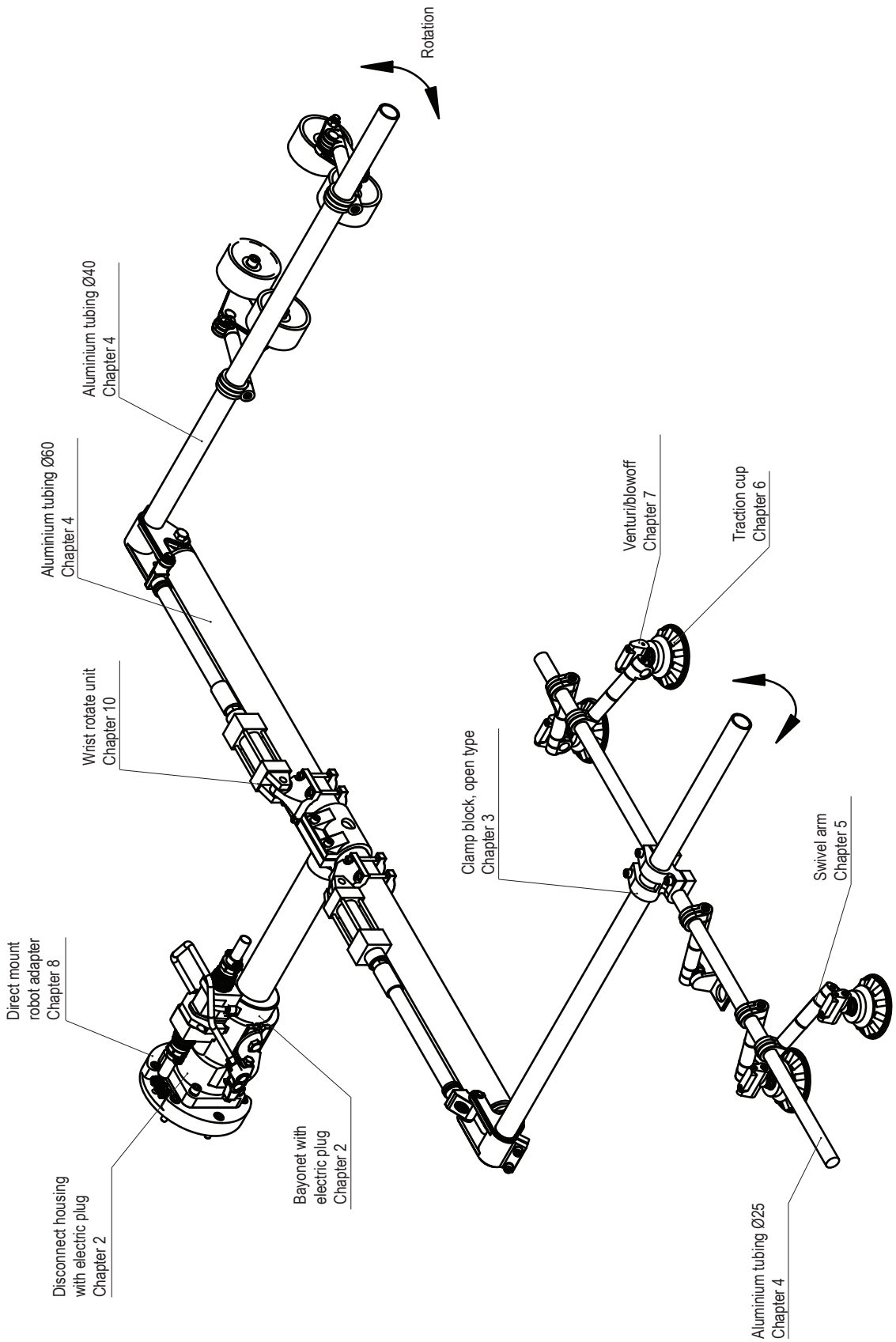


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Edition **01/2013**

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Application

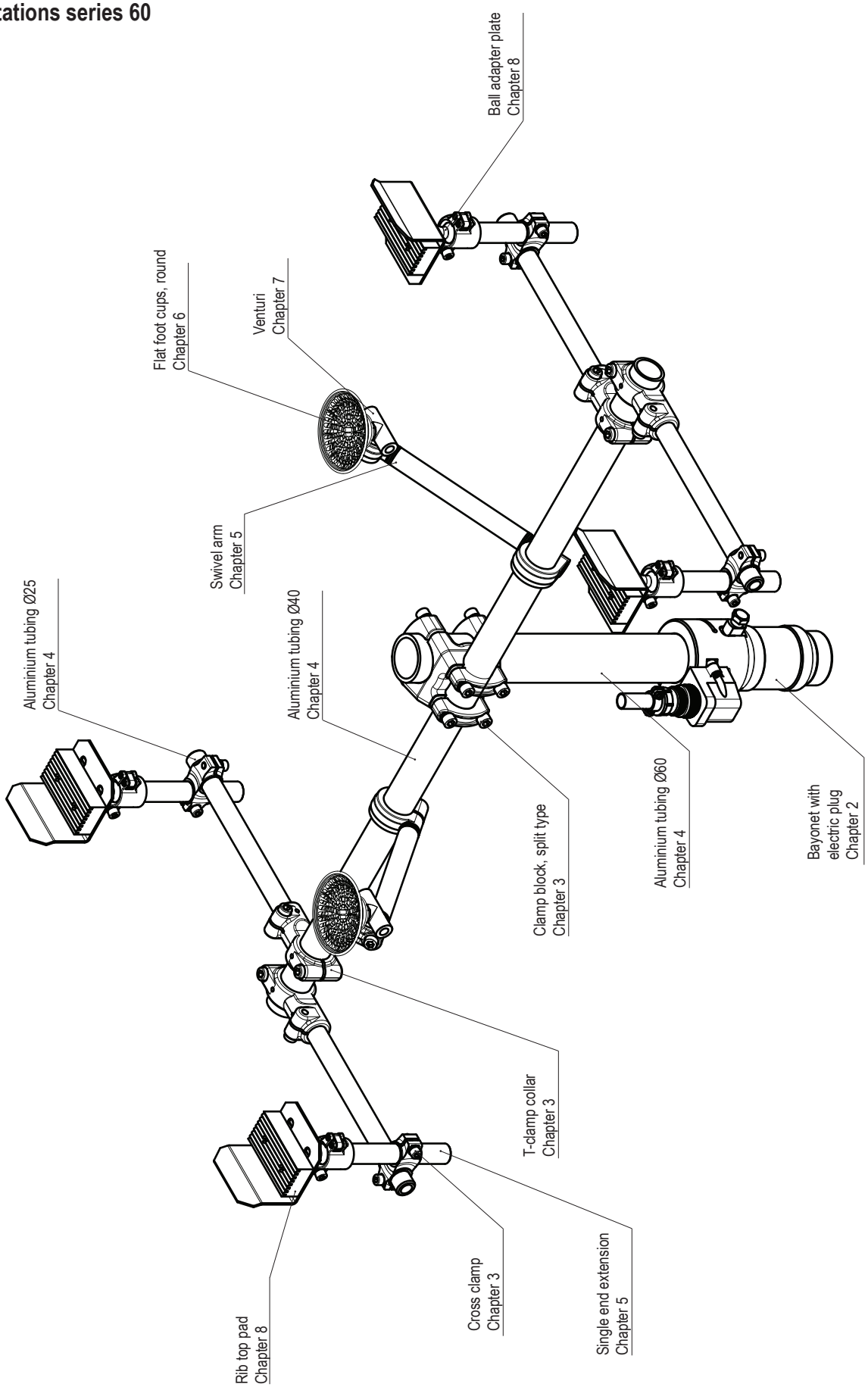
Upper Tooling series 60 with two tilt axis



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Edition **01/2013**

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Floor stations series 60

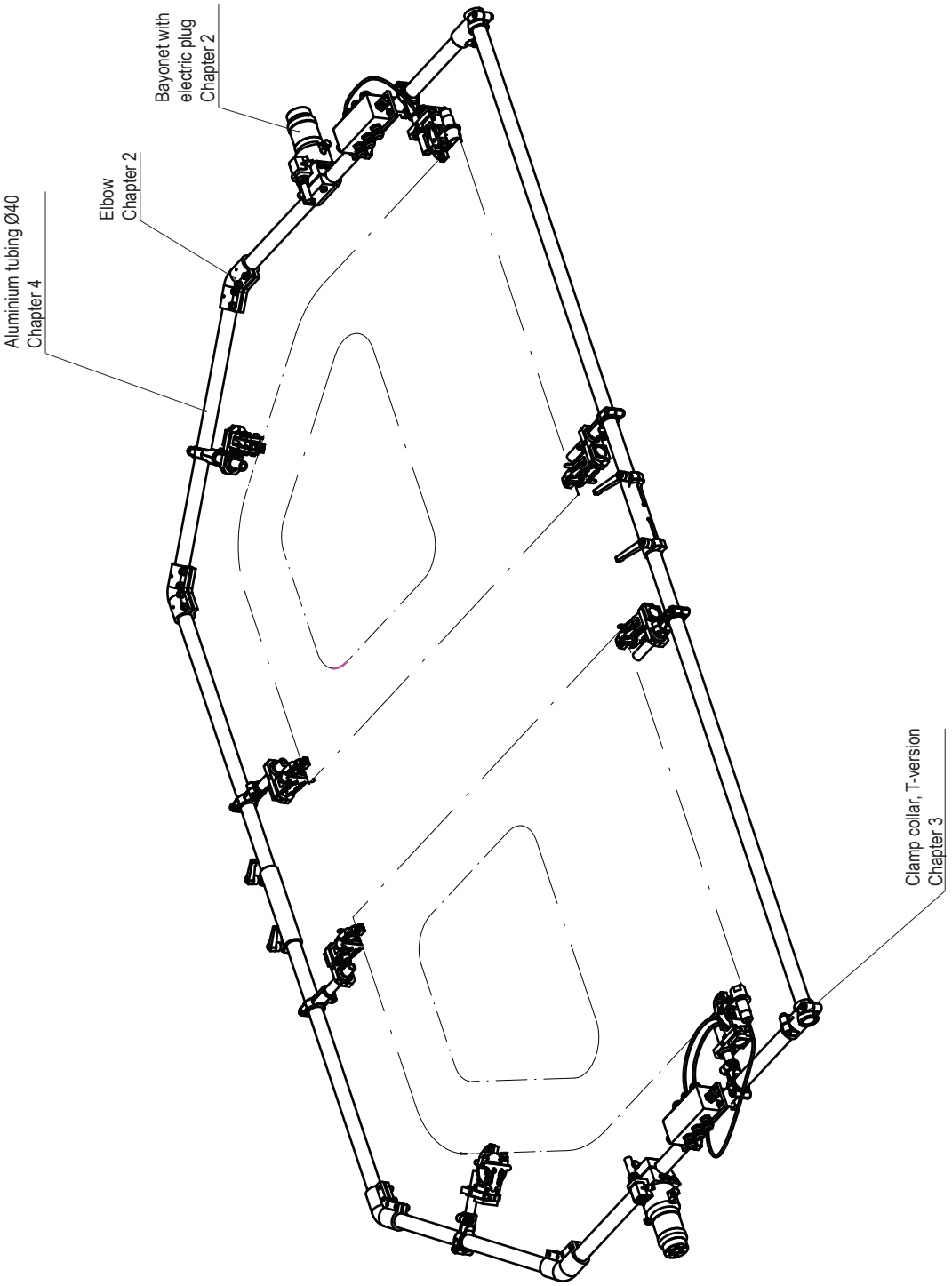


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Edition **01/2013**

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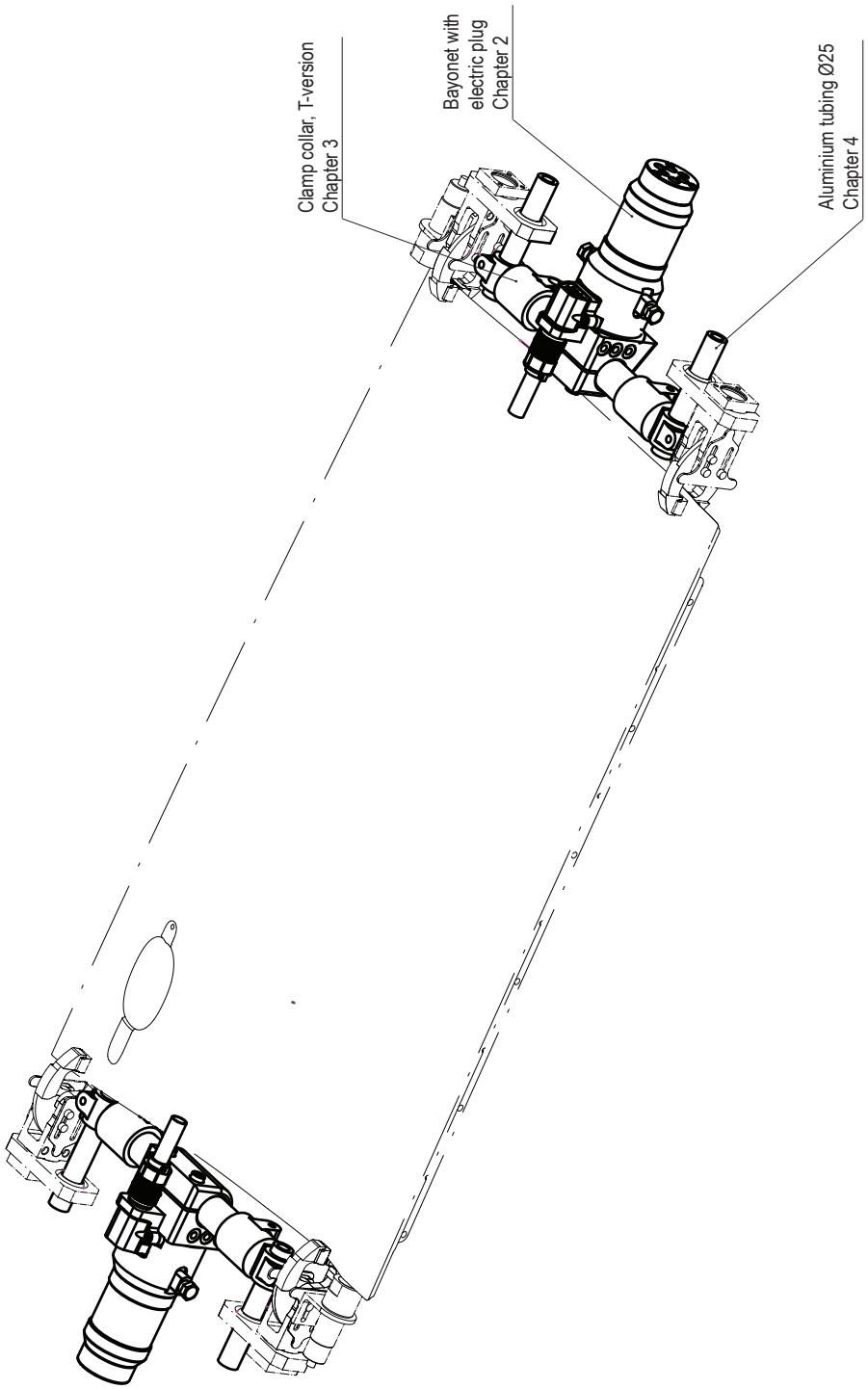
Application

Turnover station series 60



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Turnover station Serie 60

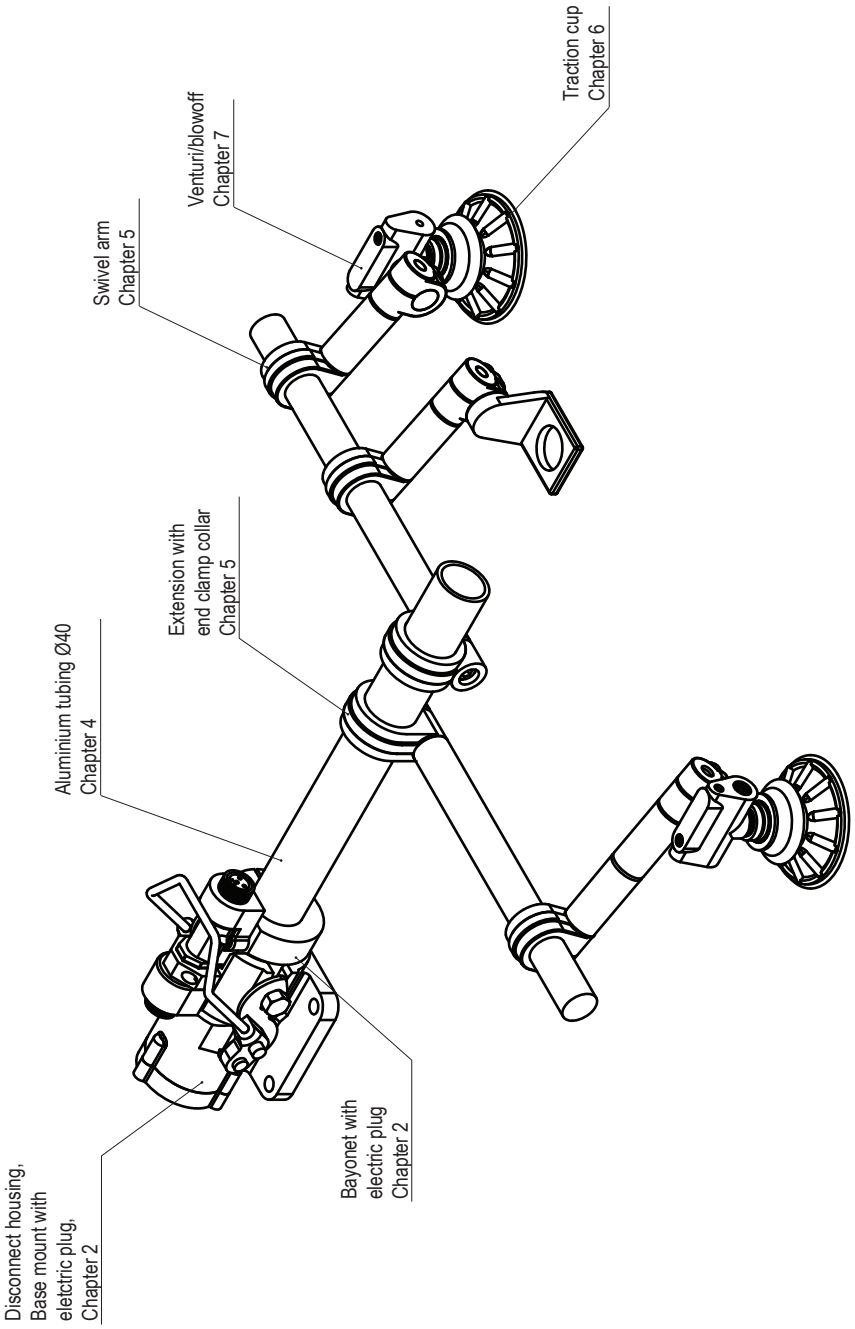


Subject to modification
Edition 01/2013

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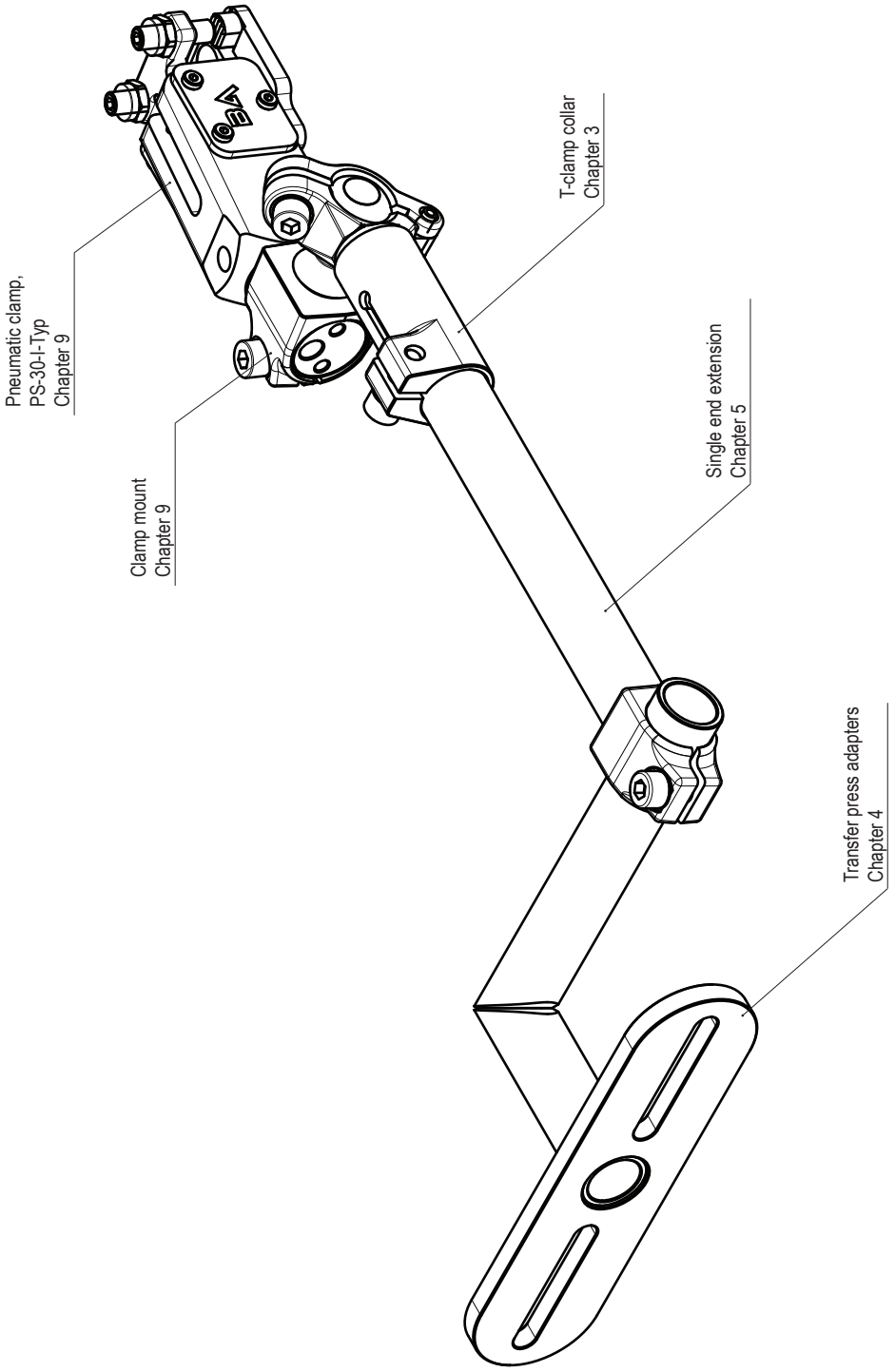
Application

Upper Tooling series 40



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Transfer press tooling series 25

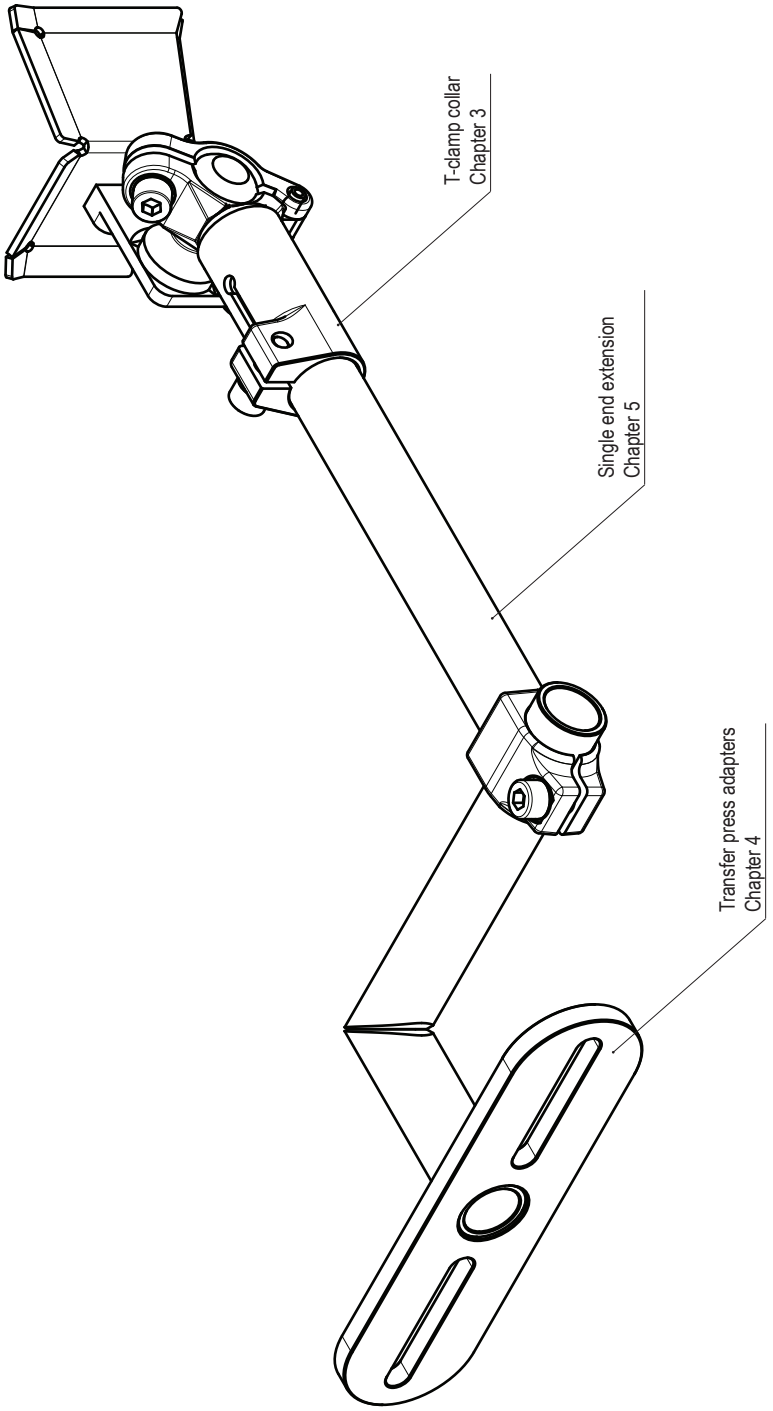


Subject to modification
Edition 01/2013

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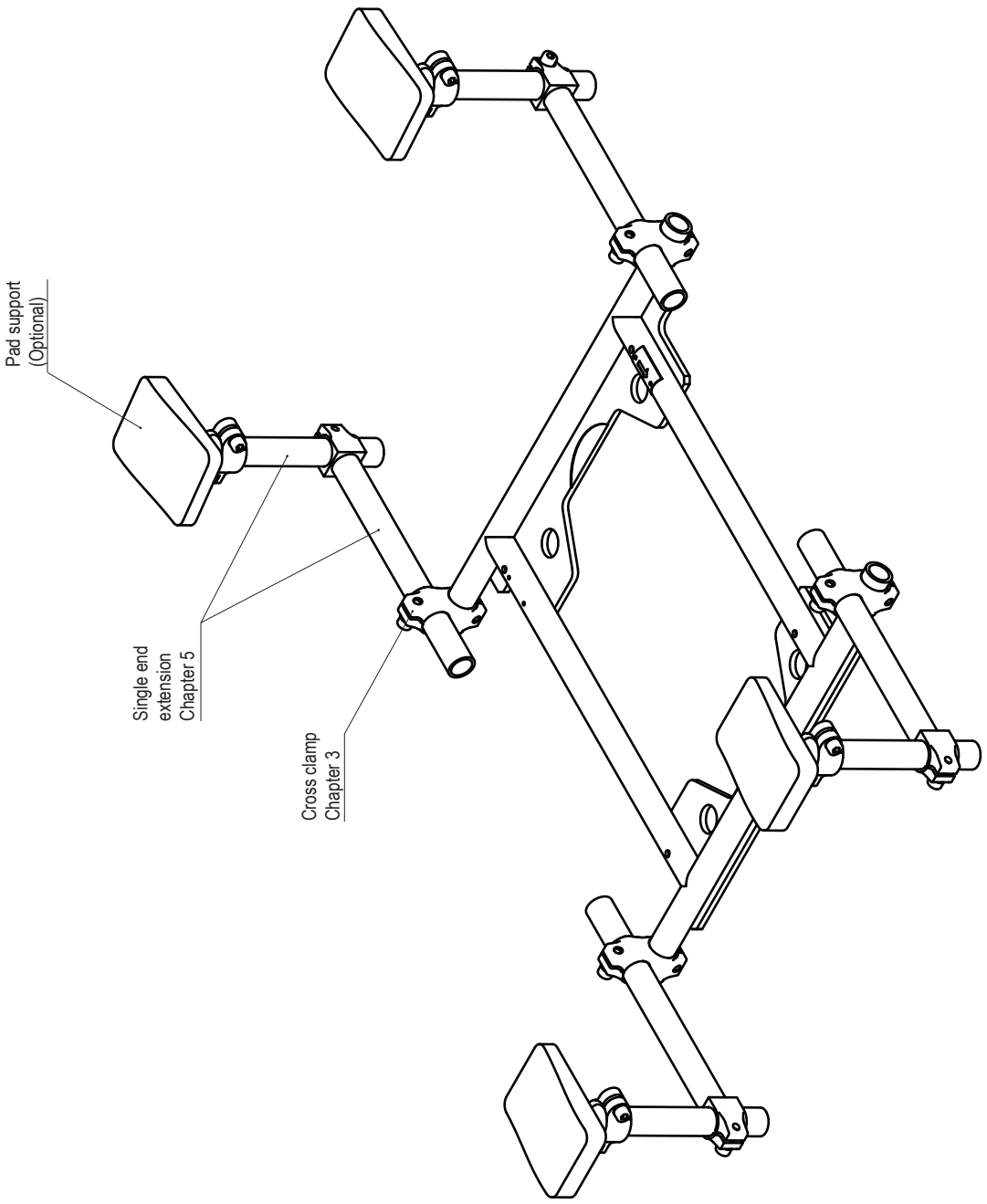
Application

Transfer press tooling series 25



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Floor station series 60

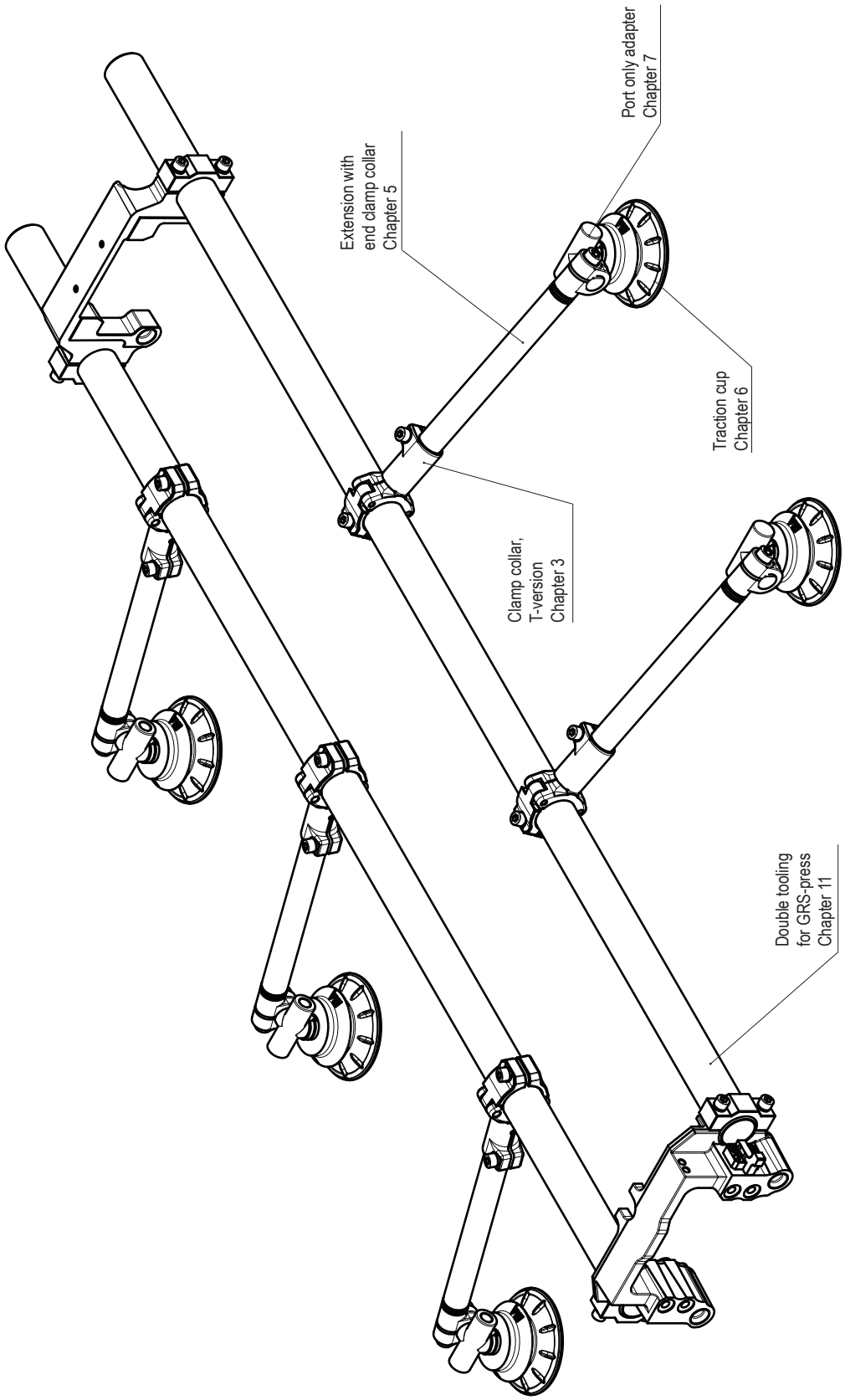


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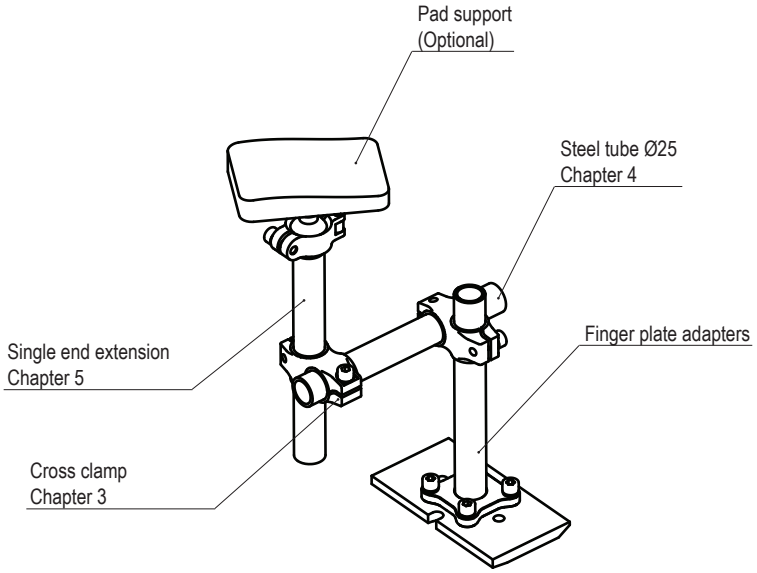
Application

GRS press tooling series 40

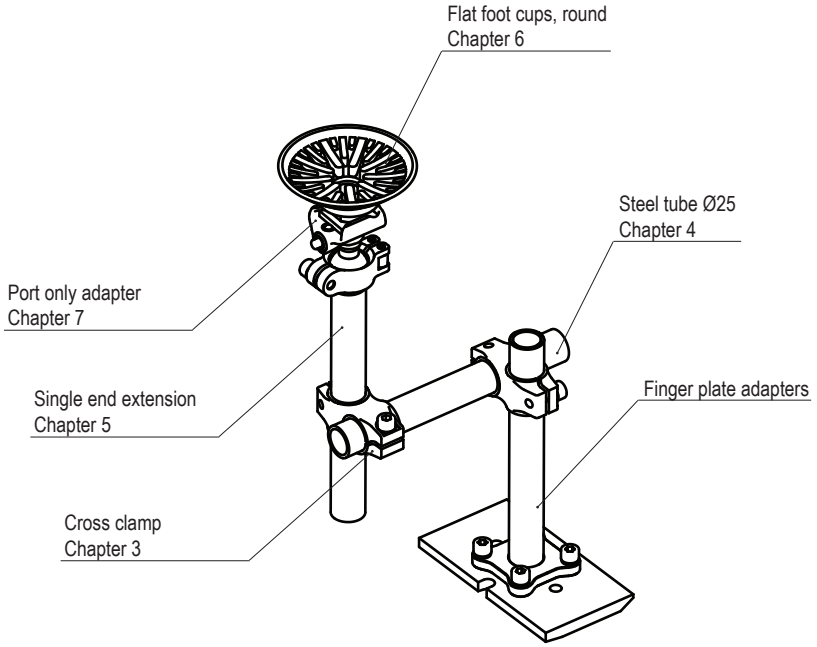


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GRS press tooling

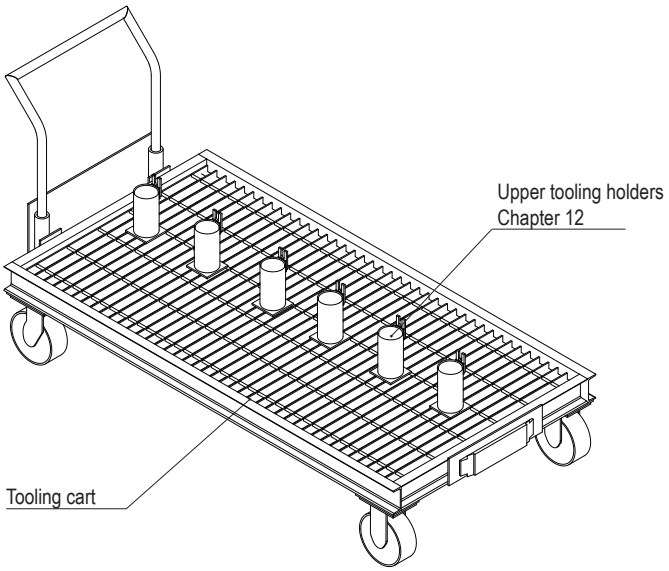


GRS press tooling

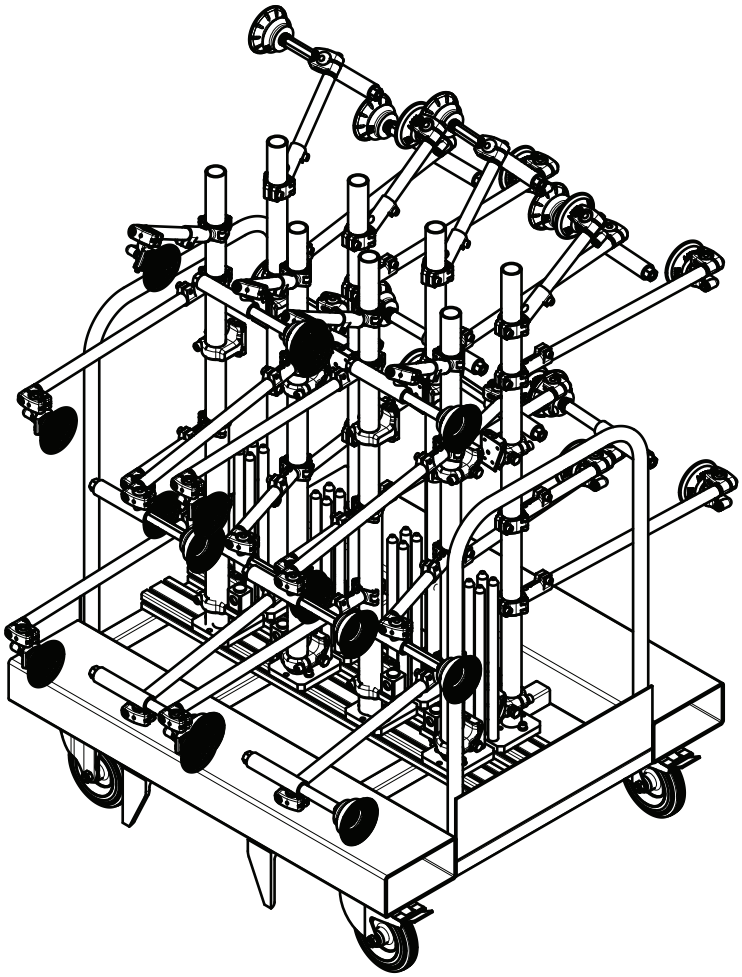


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Tooling cart

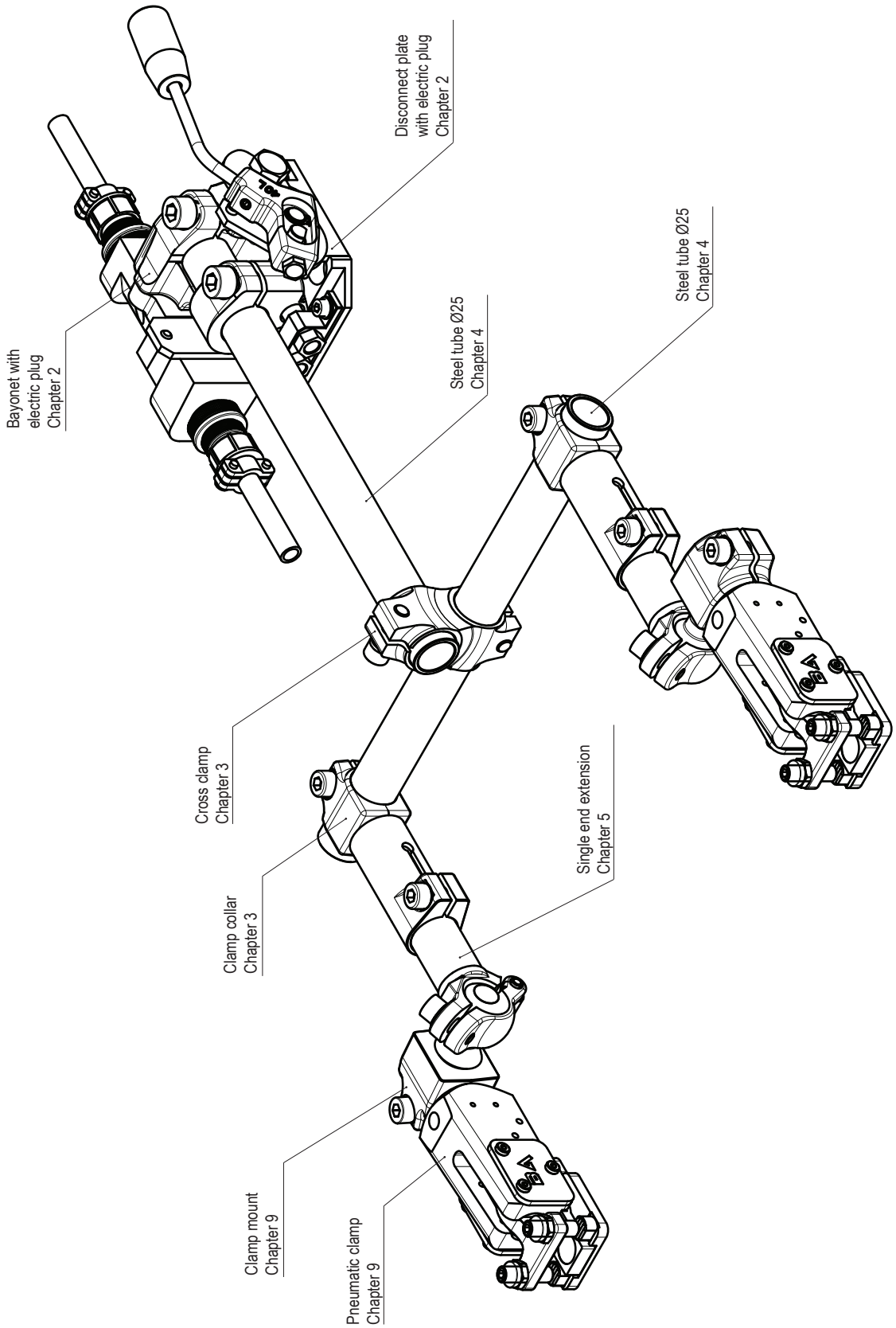


Tooling cart with single tooling series 40



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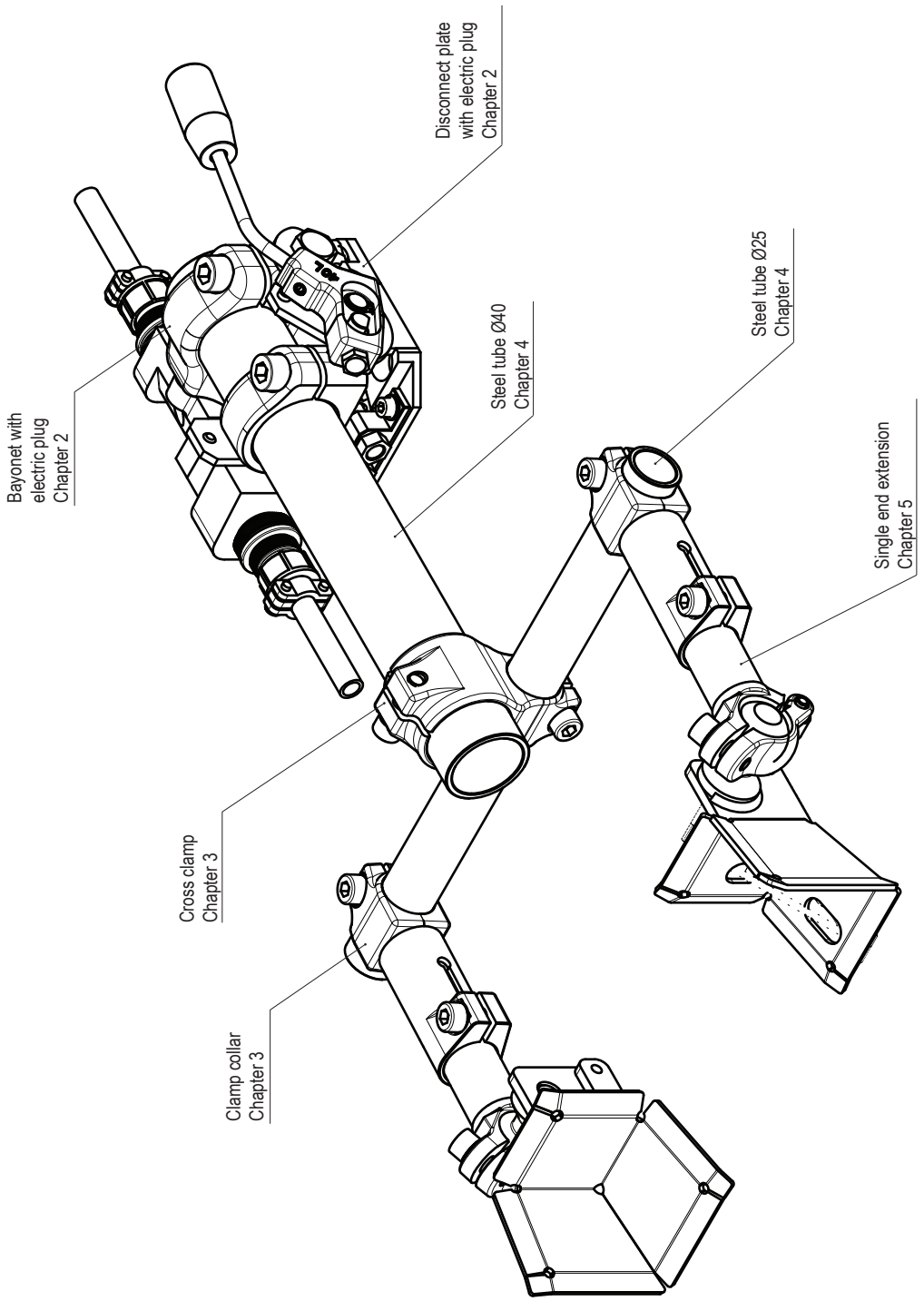
Transfer press tooling series 25



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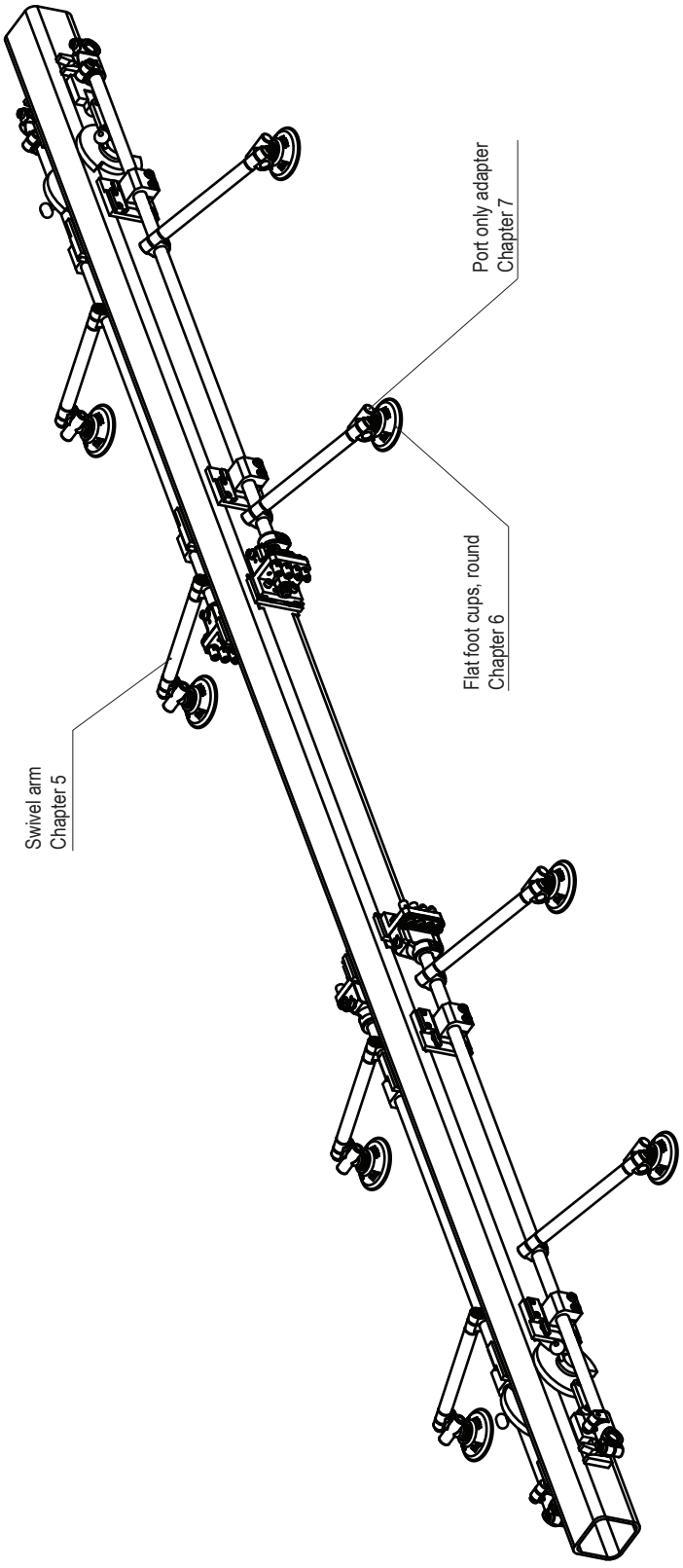
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Transfer press tooling series 40



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Crossbar single tooling

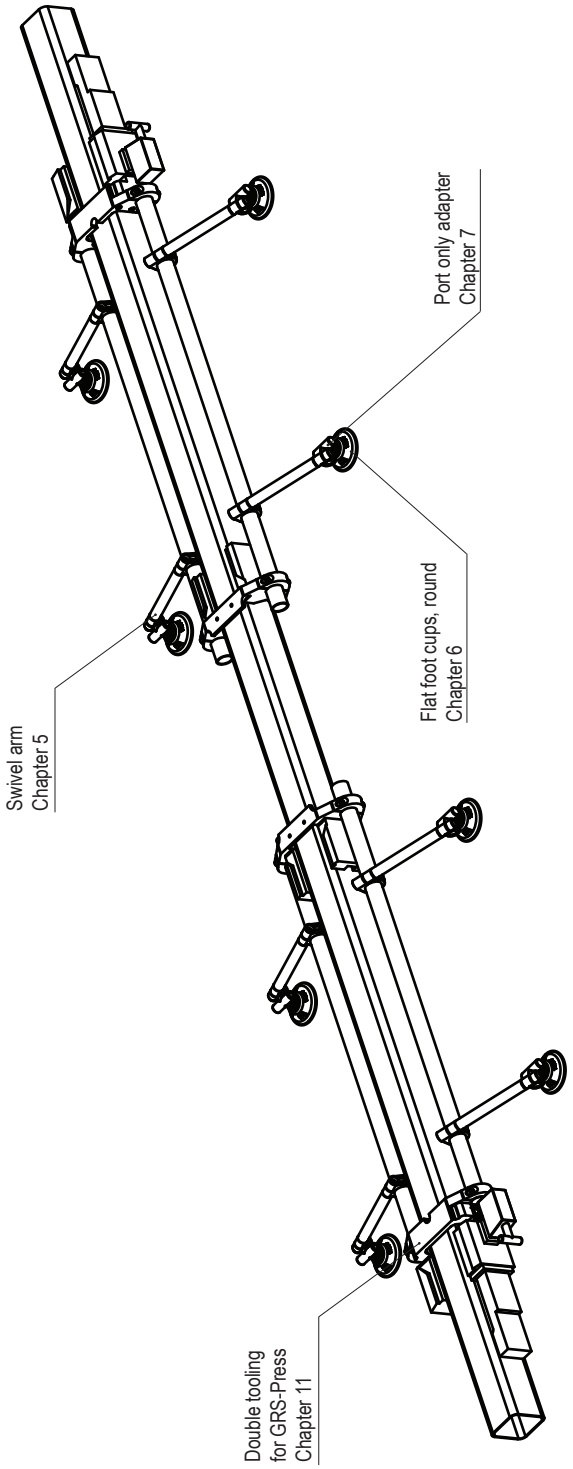


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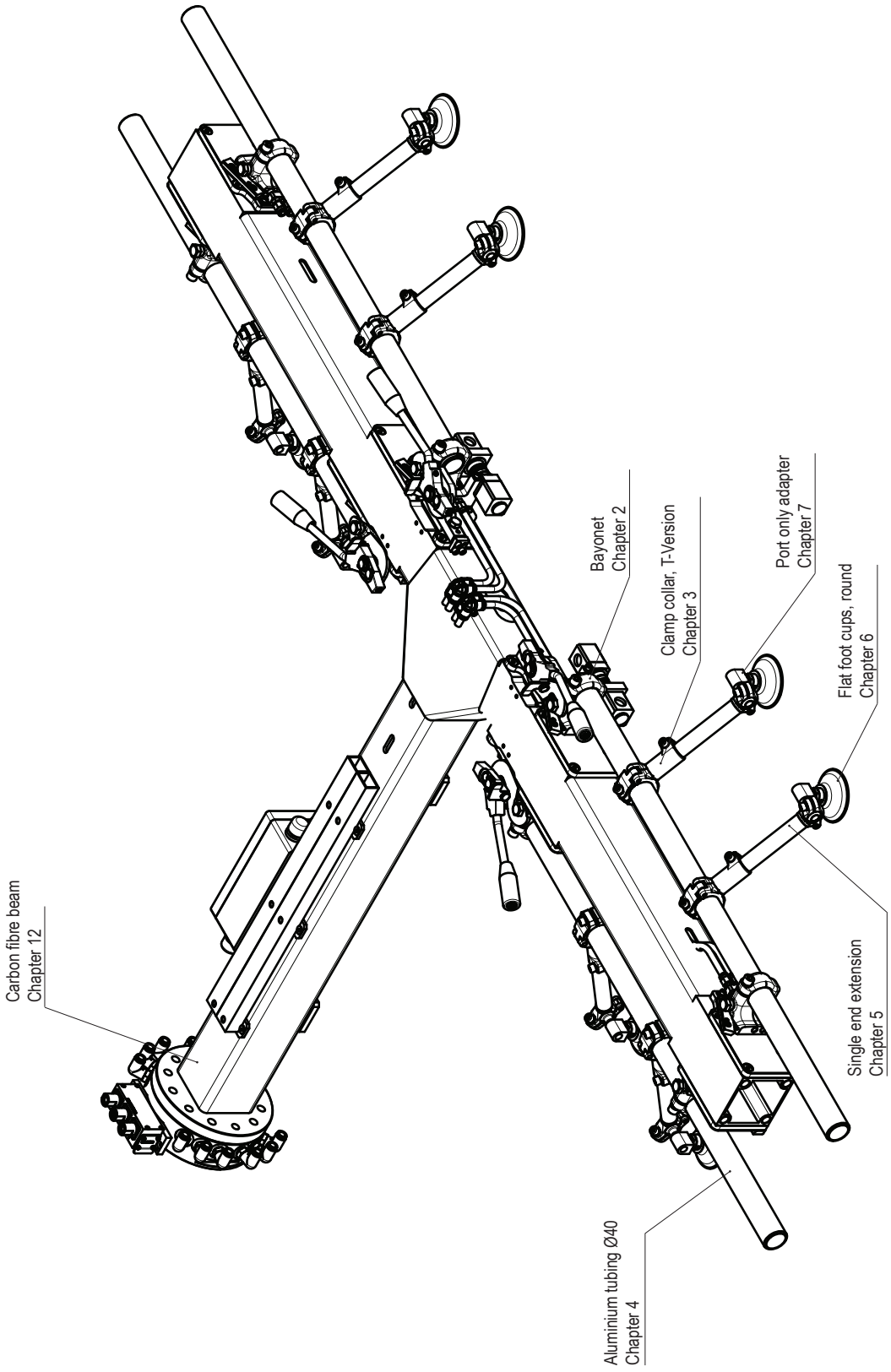
Application

Crossbar double tooling



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Carbon fibre T-beam with tooling series 40 and 25

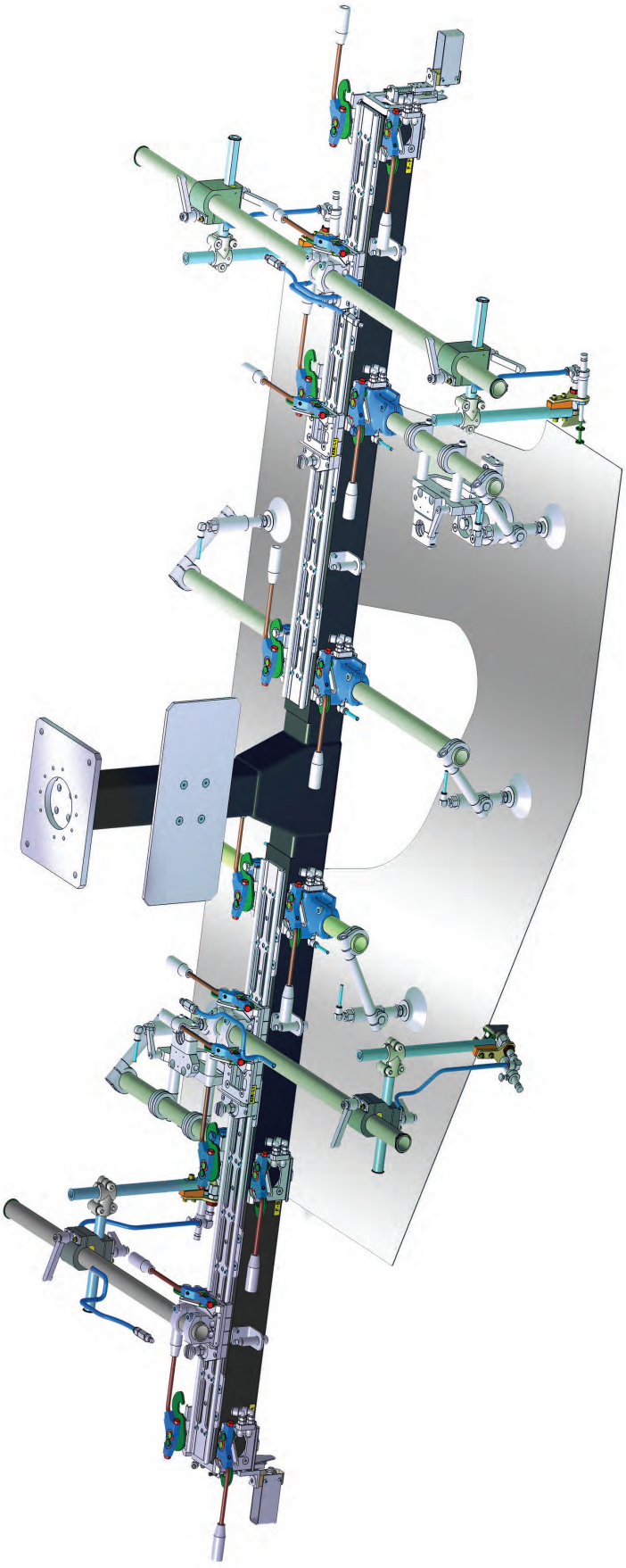


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Application

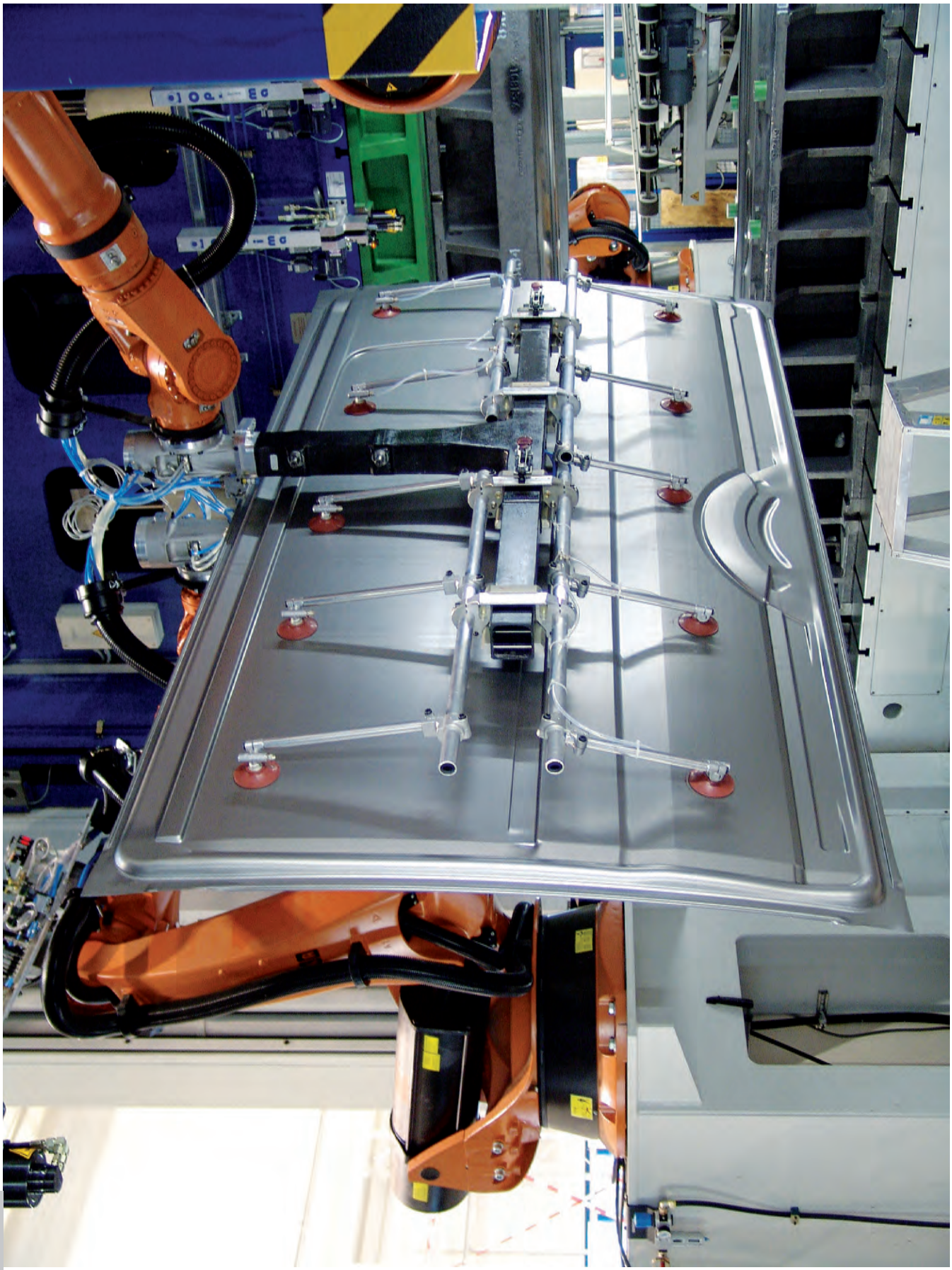
Carbon fibre T-beam for destacking with multiplex tooling



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Carbon fibre T-beam with 2 port double tooling

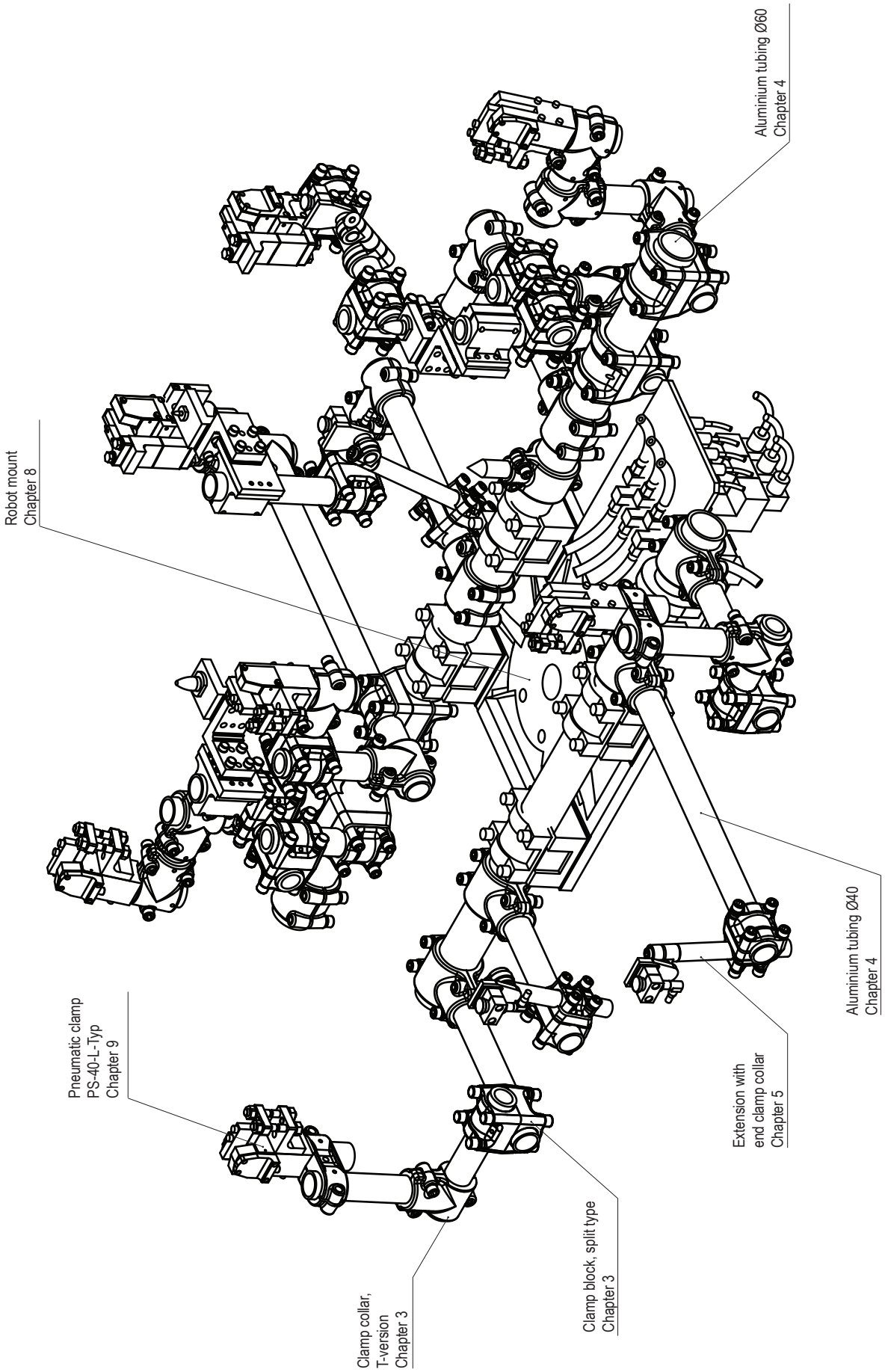


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Application

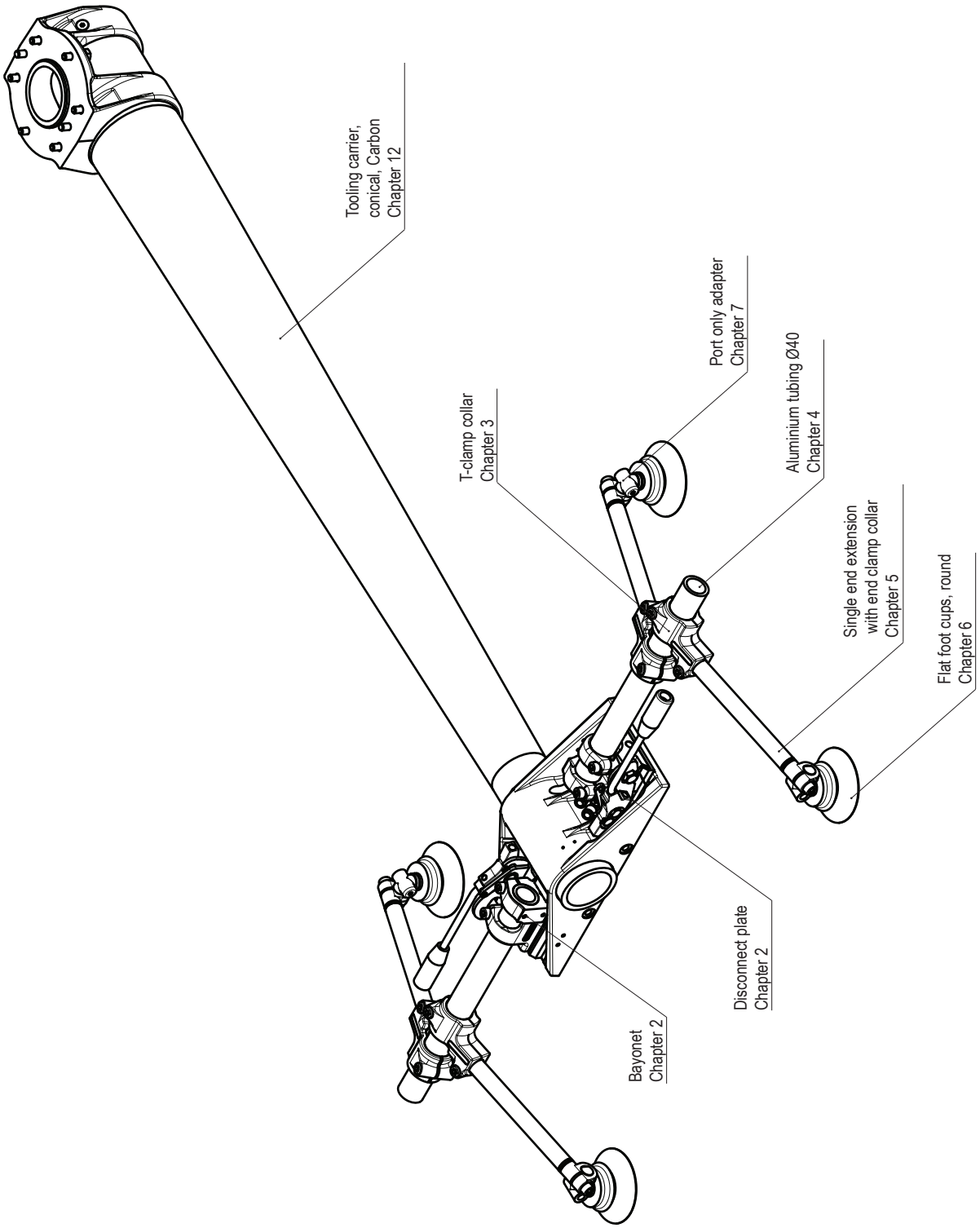
Body shop gripper



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Carbon fibre tube with tooling series 40

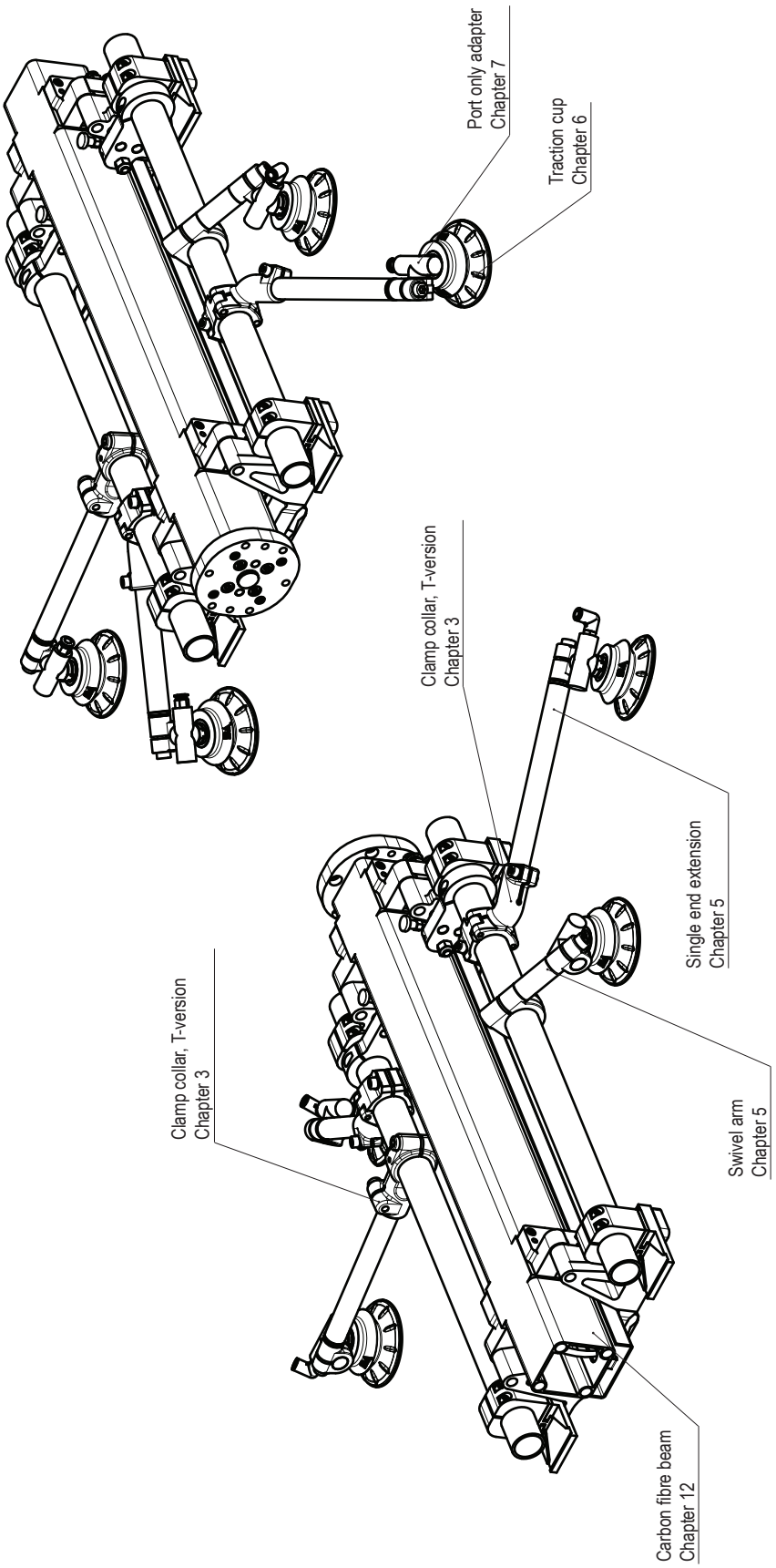


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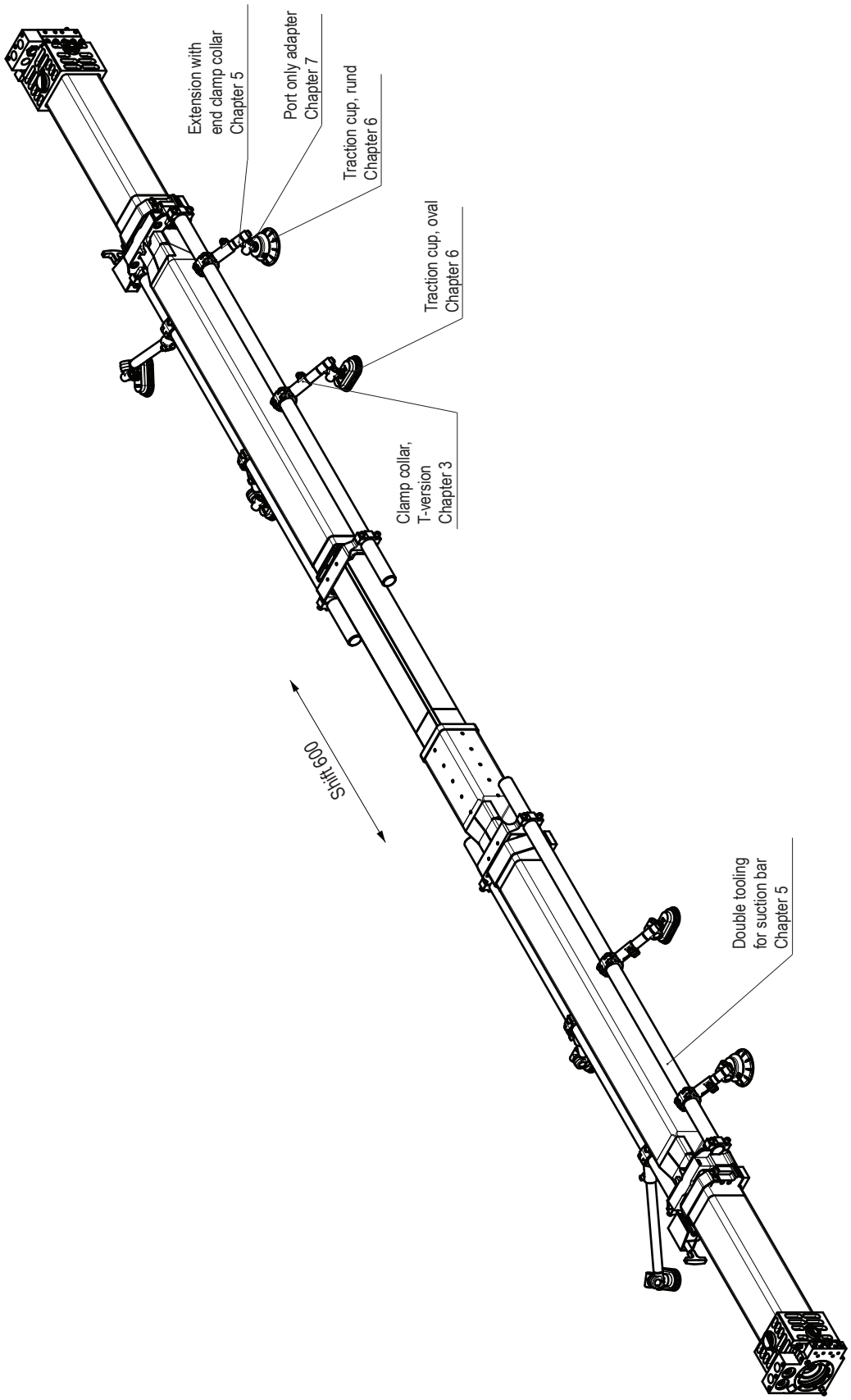
Application

Carbon beam-Interpress



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Carbon beam telescopic bar

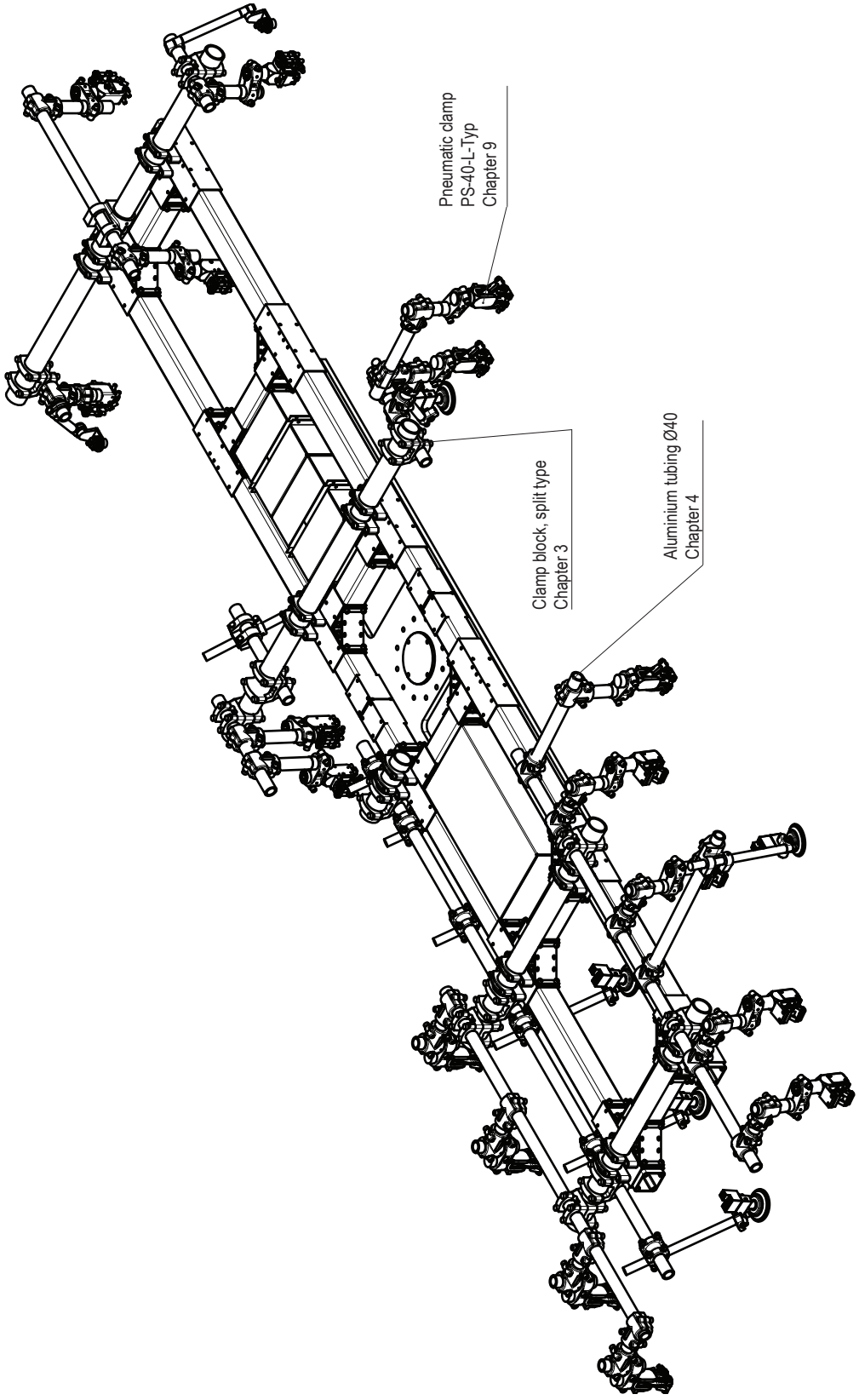


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Application

H-frame - Carbon



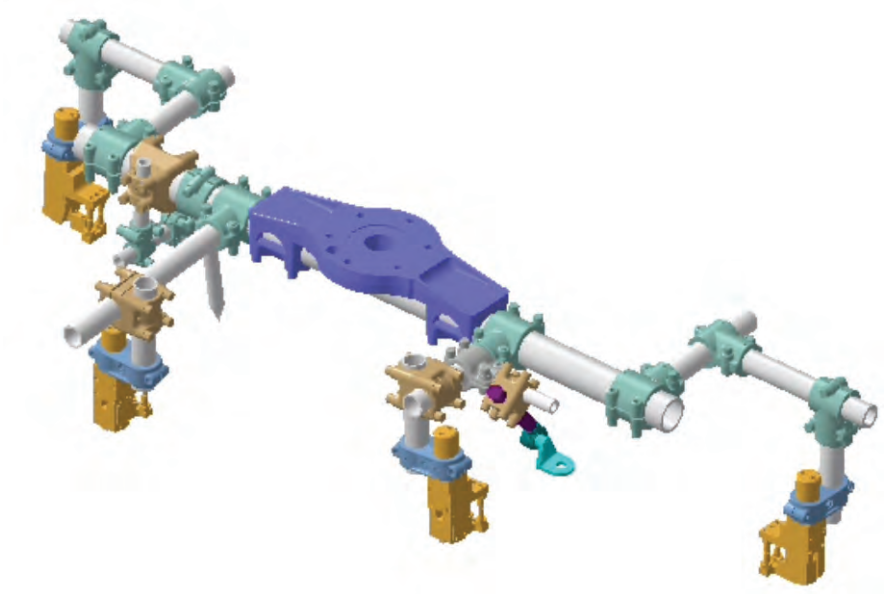
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Handling gripper

Material handling grippers are grippers for the transport of the components. The component is completely geometrically pre-fixed and all individual components and assembly groups which belong to it are attached on the component tightly. Typical applications for a handling gripper are the transport from and to:

- working stations
- deposit stations
- turning systems
- unloading systems of inlaid stations

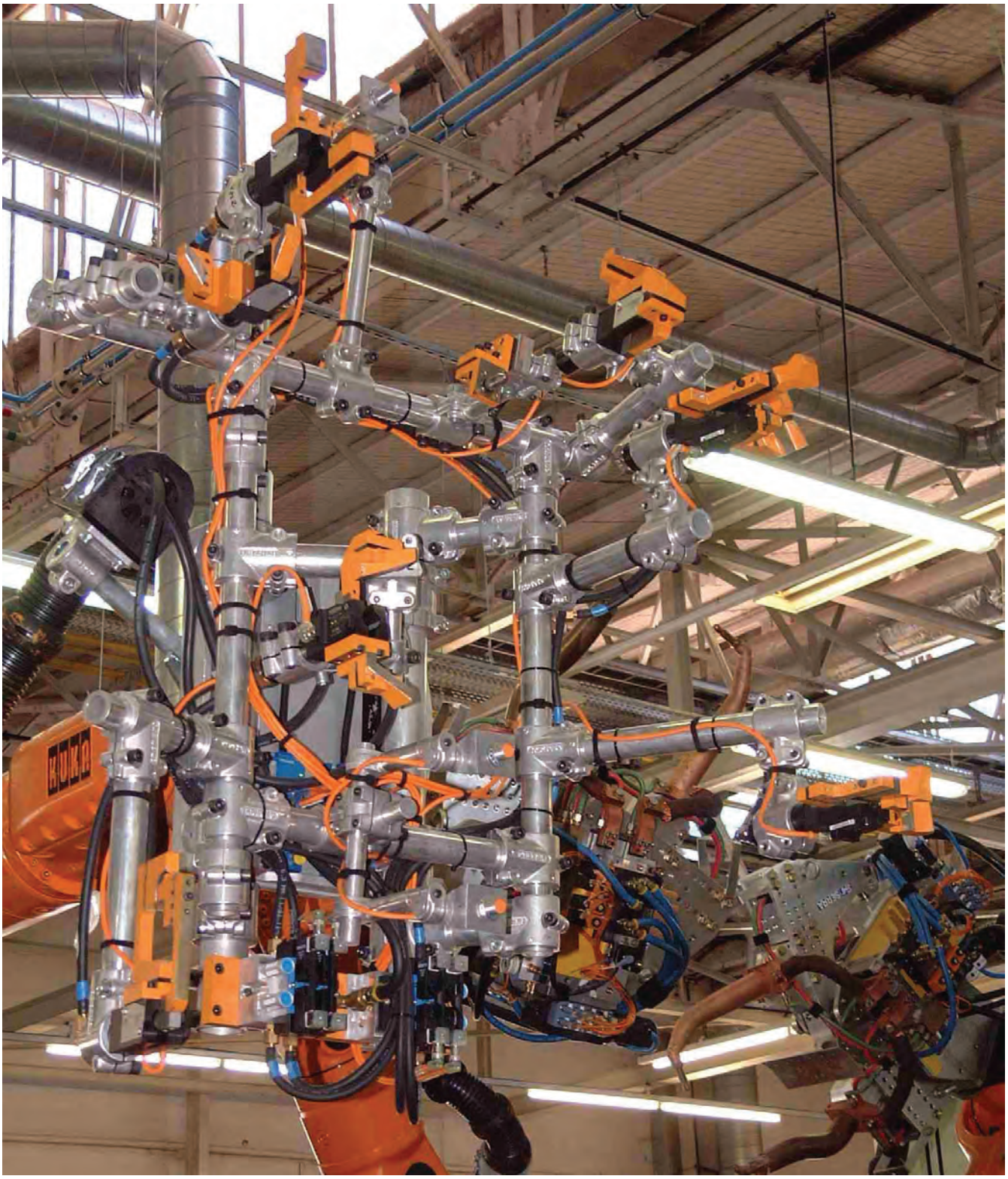
Since the components are geometrical and pre-fixed the demands regarding the structure accuracy at handling grippers are lower than at process and geometric grippers. Regarding the lower forces which have an effect on the gripper the frame structures can be carried out easier.



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Application

Handling gripper - Front bonnet



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Process gripper

Process grippers are grippers with which the component undergoes a production process.

Individual components and assembly groups are already attached on the component tightly.

Applications for process grippers are for carrying out production operations like:

- welding
- stamping
- punching
- sticking

Regarding the high process forces which have an effect on the component (e.g. Shear force during spot welding), the tension and fixation points as well as the frame structure is more stable than at handling grippers.



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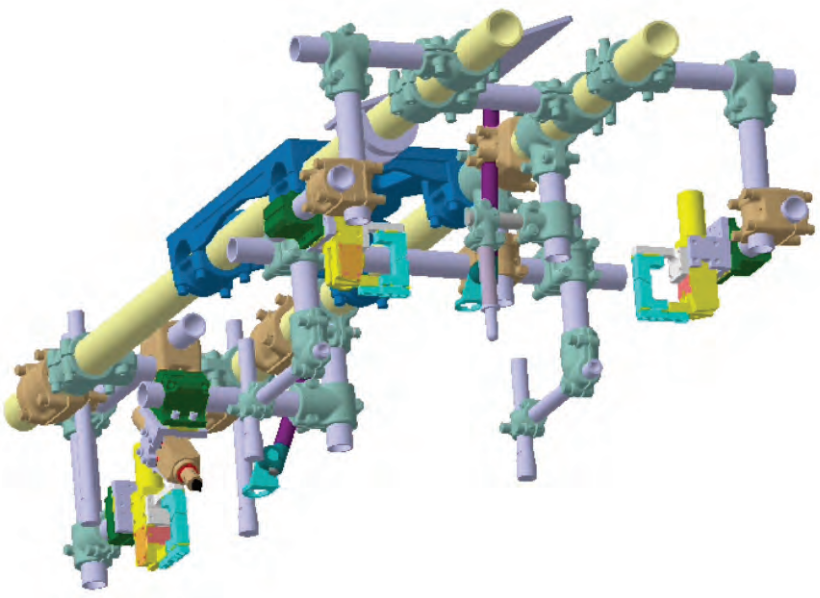
Process gripper - Floor rear



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Geometri gripper

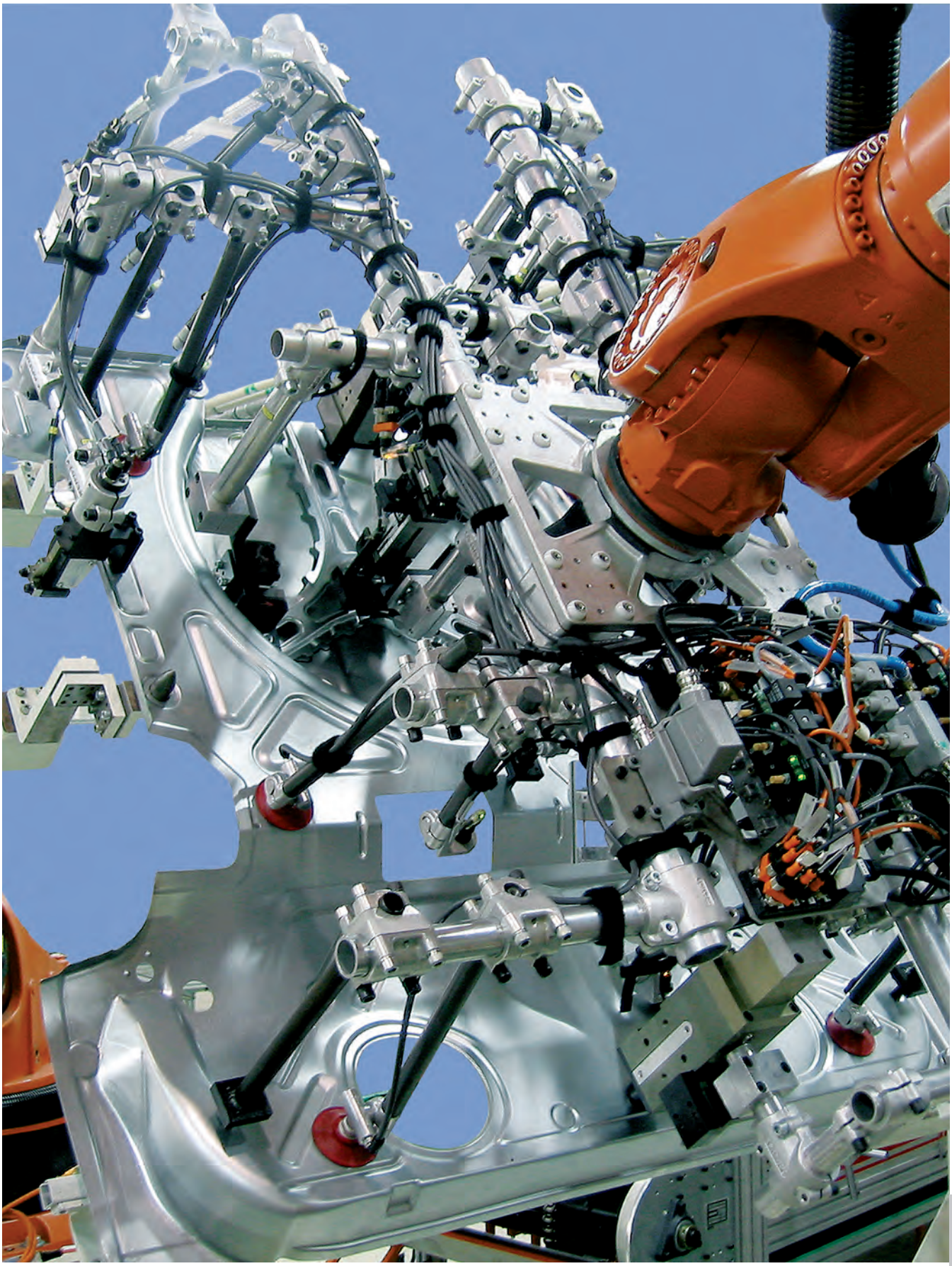
Geometric grippers are replacing the normal geometry station in the production process. On the geometric gripper the highest demands regarding the accuracy and stability are made since the gripper structure has a direct influence on the later component geometry. The individual parts and assembly groups are still not fixed on the component at the geometric gripper. Tension and positioning elements (designed correspondingly) ensure the perfect positon of these parts during the production process. Usually a geometric gripper combines the inlaid function (manual or automated) with the one of a process function (e.g. welding under a pair of welding tongs).w



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Geometri gripper - Floor rear



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Flies role gripper



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Quick release disconnects

Picture	Designation	Page
	Exploded on disconnect housing (flange mount) and bayonet series 150 / 40	58
	Exploded on disconnect housing (base mount) and bayonet series 150 / 40	59
	Disconnect housing series 150 / 40 (flange mount)	60
	Disconnect housing series 150 / 40 (base mount)	60
	Air connection for disconnect housing series 150 / 40 (flange mount)	61
	Air connection for disconnect housing series 150 / 40 (base mount)	61
	Bayonet series 150 / 40	62
	Bayonet series 150 / 40	62
	Air connection for bayonet series 150 / 40	63
	Bayonet series 150 / 40	63
	Air connection for bayonet series 150 / 40	63
	Disconnect housing series 150 / 40 (flang mount)	64
	Air distribution manifold for disconnect hosuing series 150 / 40	64
	Bayonet series 150 / 40	65
	Air distribution manifold for bayonet series 150 / 40	65
	Bayonet series 150 / 40	66

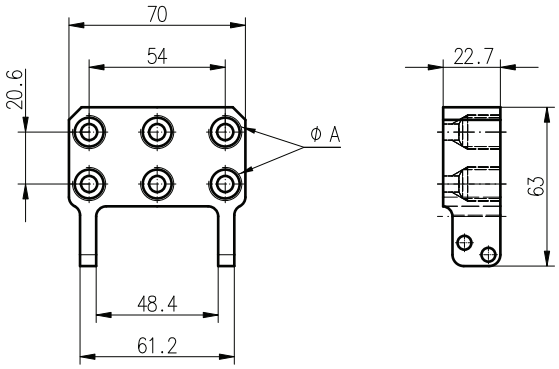
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Quick release disconnects

Bayonet series 150 / 40



Mat.: Aluminium

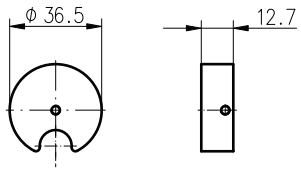


Part no.	Ø A	(kg)
TDC-150-GM-P004	1/4-NPT	0.165
TDC-40-GM-P004	G1/4	0.165

Coding disk for bayonet series 150 / 40



0.033 kg
Mat.: Aluminium



Part no.
TDC-150-GM-P005

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Picture	Designation	Page
	Coding disk for bayonet series 150 / 40	66
	Exploded on disconnect housing (flange mount) and bayonet series 250 / 60	67
	Disconnect housing series 250 / 60 (flang mount)	68
	Air connection for disconnect housing series 250 / 60 (flange mount)	69
	Air connection for disconnect housing series 250 / 60 (flange mount)	69
	Bayonet series 250 / 60	70
	Air connection for bayonet series 250 / 60	70
	Air connection for bayonet series 250 / 60	70
	Exploded on disconnect plate and bayonet series 100 / 25	71
	Exploded on disconnect plate and bayonet series 150 / 40	71
	Disconnect plate series 25 /40	72
	Bayonet series 100 / 150 and 25 / 40	73
	Exploded on disconnect plate and bayonet series 250 / 60	74
	Exploded on disconnect plate and bayonet series 150 / 40	74
	Disconnect plate series 250 / 60	75
	Bayonet series 250 / 60	75

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Edition 01/2013

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Quick release disconnects

Picture	Designation	Page
	Disconnect plate series 150 / 40	76
	Bayonet series150 / 40	76
	Exploded of the automatic gripper quick change device, series 250 / 60, 0°	77
	Exploded of the automatic gripper quick change device, series 250 / 60, 90°	78
	Automatic gripper quick change device, 0°	79
	Automatic gripper quick change device, 90° (GSWE)	80
	Location cone for gripper quick change device series 250 / 60 (gripper side)	81
	Mounting flange for gripper quick change device series 250 / 60 (coupling side)	81
	Location cone for gripper quick change device series 250 / 60 (gripper side)	82
	Mount for electric plug for gripper quick change device series 250 / 60 (coupling side)	82
	Mounting flange for gripper quick change device series 250 / 60 (coupling side)	83
	Air connection, 6-port, gripper quick change device series 250 / 60 (gripper side)	83
	Bayonet for ABB coupling	84
	Plastic connector for ABB coupling	84
	Steel connector for ABB coupling	84
	Bayonet series 250 / 60 für KUKA coupling	85

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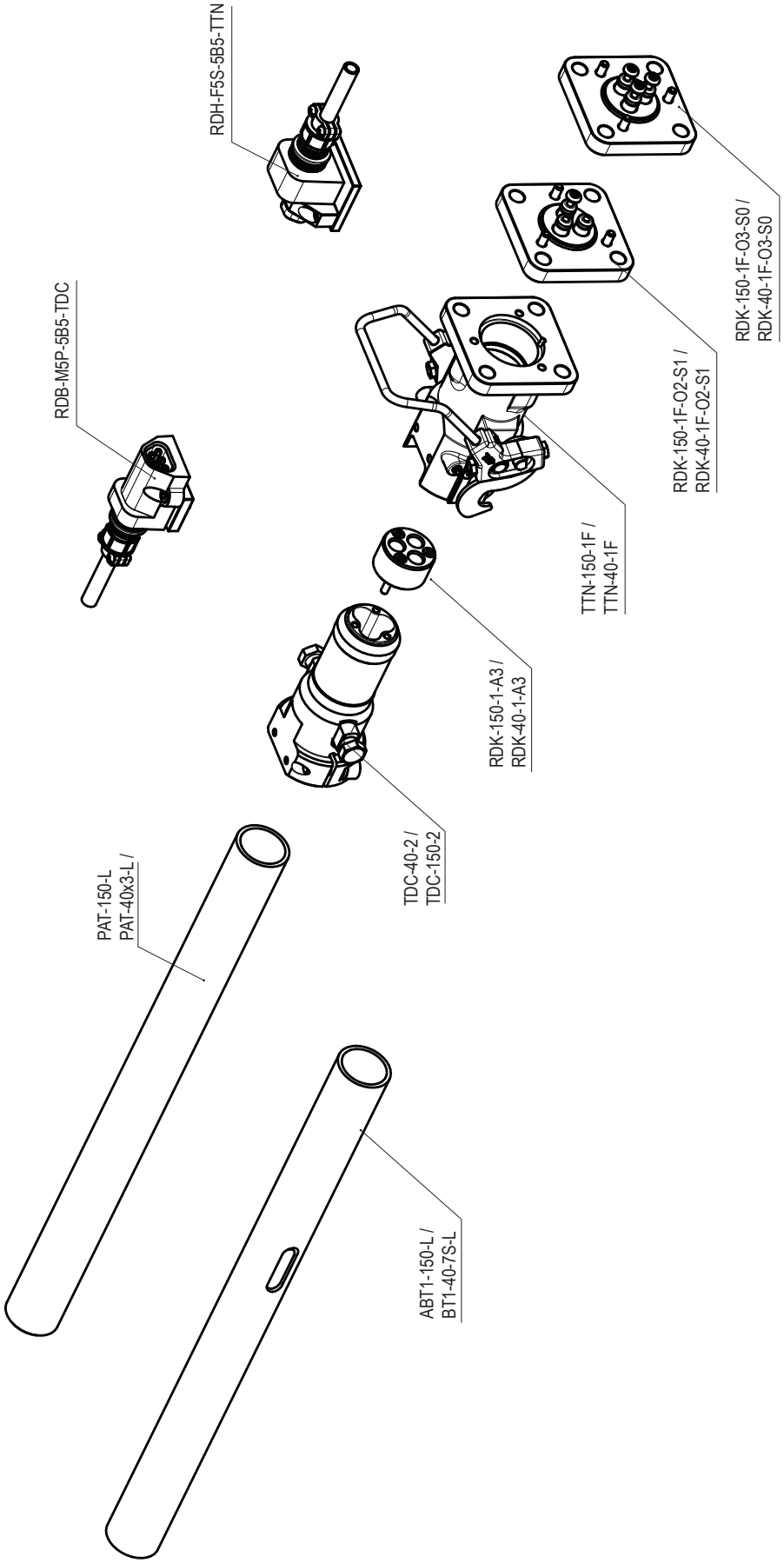
Picture	Designation	Page
	Electric plug for KUKA coupling	85
	Electrical outlet, 5-PIN	86
	Electric plug, 5-PIN	86
	Electrical outlet, 5-PIN	87
	Electric plug, 5-PIN	87
	Electrical outlet, 10-PIN	88
	Electric plug, 10-PIN	88
	Electrical outlet, 10-PIN	89
	Electric plug, 10-PIN	89
	Electrical outlet, 16-PIN	90
	Electric plug, 16-PIN	90
	Electrical outlet, 19-PIN	91
	Electric plug, 19-PIN	91
	Direct mout robot adapter series 250 / 60	92
	Robot mount series 150 / 40 and 250 / 60 with in solation	93
	Robot mount series 150 / 40 and 250 / 60 with in solation	94

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Edition 01/2013

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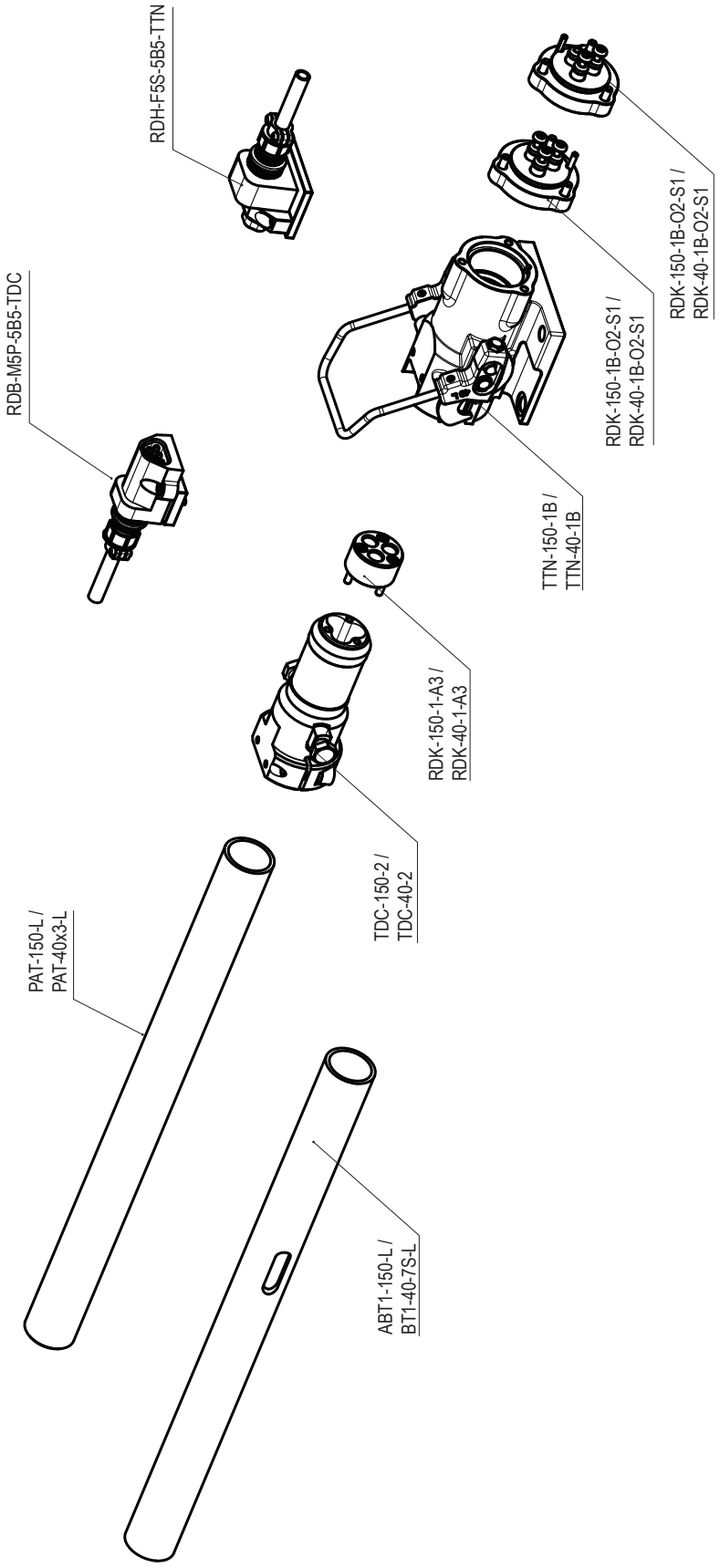
Quick release disconnects

Exploded on disconnect housing (flange mount) and bayonet series 150 / 40



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Exploded on disconnect housing (base mount) and bayonet series 150 / 40



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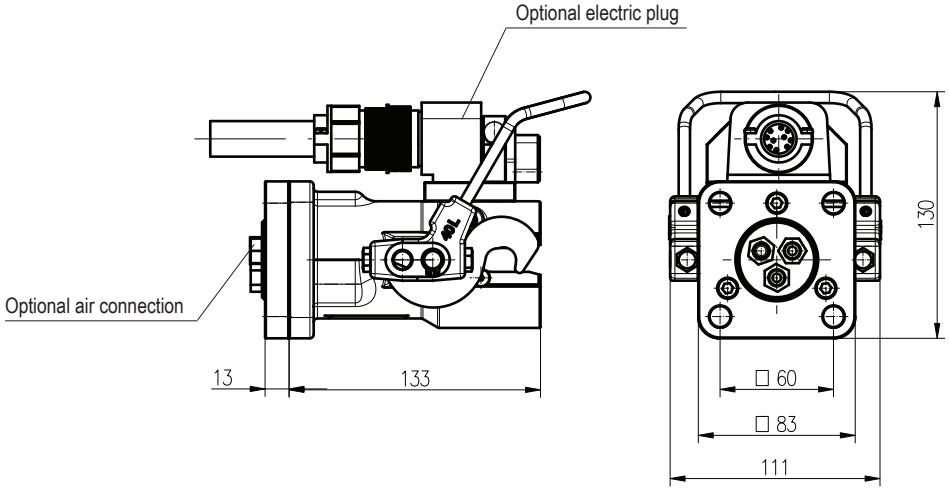
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Quick release disconnects

Disconnect housing series 150 / 40 (flange mount)



2.20 kg
Mat.: Aluminium

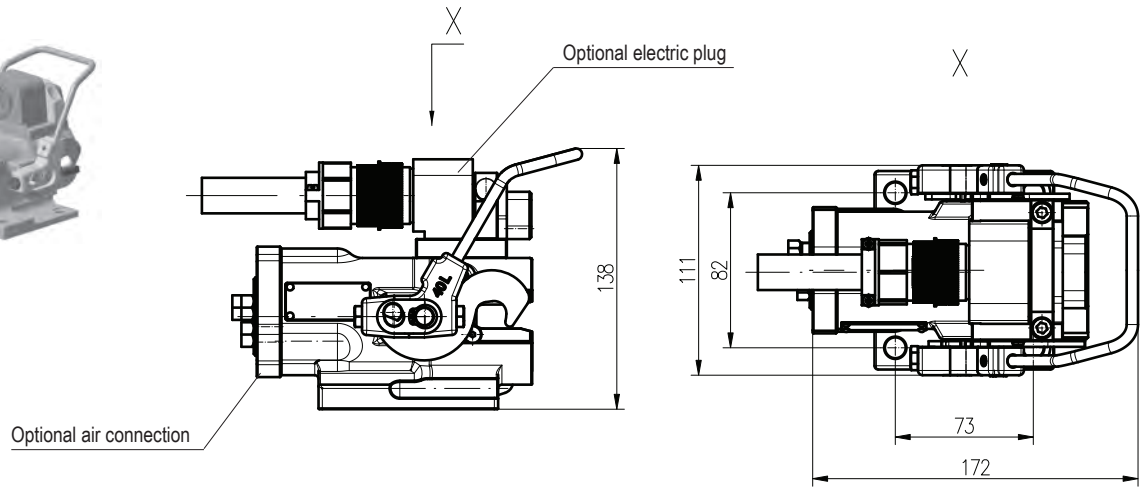


Ordering information				e.g.: TTN-150-1F-03-S1-EL5
TTN-	-	-1F	-	-
	Size		Optional air connection (Open nipple - shut off nipple)	Optional electric plug
	↓		↓	↓
	150 (1.5")		O3 - S0	EL5 (Socket for 5 pins)
	40 (40 mm)		O2 - S1	EL10 (Socket for 10 pins)

Disconnect housing series 150 / 40 (base mount)



2.58 kg
Mat.: Aluminium



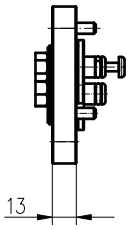
Ordering information				e.g.: TTN-150-1B-03-S1-EL5
TTN-	-	-1B	-	-
	Size		Optional air connection (Open nipple - shut off nipple)	Optional electric plug
	↓		↓	↓
	150 (1.5")		O3 - S0	EL5 (Socket for 5 pins)
	40 (40 mm)		O2 - S1	EL10 (Socket for 10 pins)

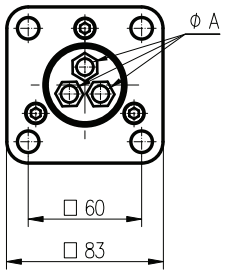
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Air connection for disconnect housing series 150 / 40 (flange mount)



0.29 kg
Mat.: Aluminium





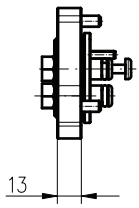
Part no.	Open nipple	Shut off nipple	Ø A
RDK-150-1F-O2-S1	O2	S1	1/8-NPT
RDK-150-1F-O3-S0	O3	S2	1/8-NPT

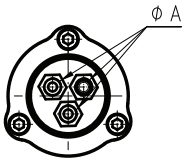
RDK-40-1F-O2-S1	O2	S1	G1/8
RDK-40-1F-O3-S0	O3	S1	G1/8

Air connection for disconnect housing series 150 / 40 (base mount)



0.19 kg
Mat.: Aluminium





Part no.	Open nipple	Shut off nipple	Ø A
RDK-150-1B-O2-S1	O2	S1	1/8-NPT
RDK-150-1B-O3-S0	O3	S2	1/8-NPT

RDK-40-1B-O2-S1	O2	S1	G1/8
RDK-40-1B-O3-S0	O3	S1	G1/8

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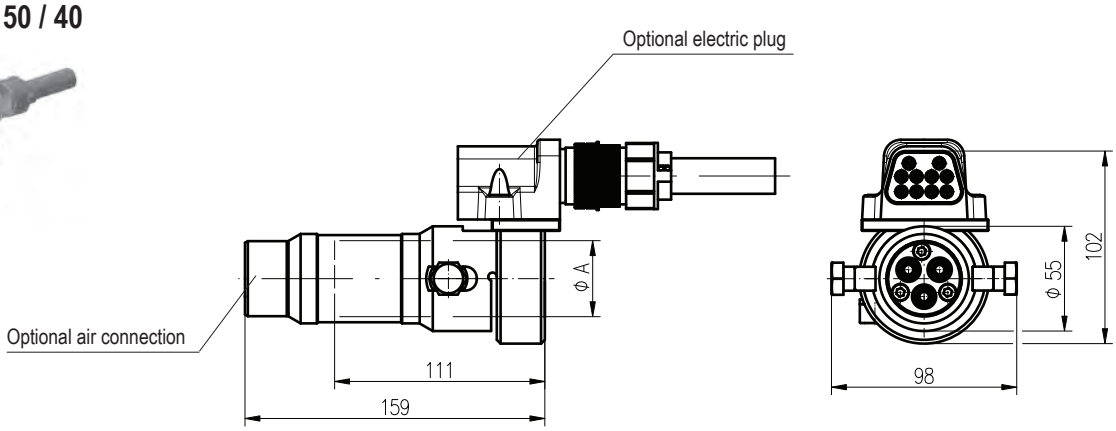
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Quick release disconnects

Bayonet series 150 / 40



0.96 kg
Mat.: Aluminium

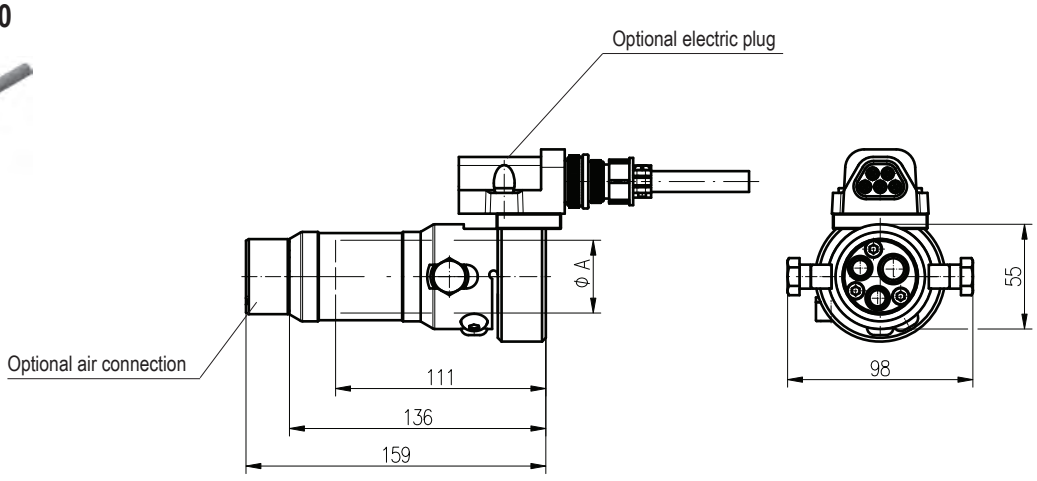


Ordering information				e.g.: TDC-150-2-A3-EL5
TDC	-	-2	-	-
	Size		Optional air connection	Optional electric plug
	↓		↓	↓
	150 (1.5")		A3	EL5 (Plug with 5 pins)
	40 (40 mm)			EL10 (Plug with 10 pins)

Bayonet series 150 / 40



0.96 kg
Mat.: Aluminium



Ordering information							e.g.: TDC-150-2-K1-30-A3-EL5-HC
TDC-	-	-2	-	-30		-	-
	Size		Optional keys		Optional air connection	Optional electric plug	
	↓		↓		↓	↓	↓
	150 (1.5")		K1		A3 (3 Port)	EL 5 (plug with 5 pins)	HC (hard coated)
	40 (40 mm)		K2				

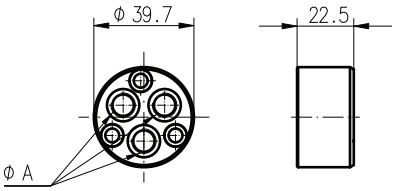
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Air connection for bayonet series 150 / 40



0.08 kg
Mat.: Aluminium

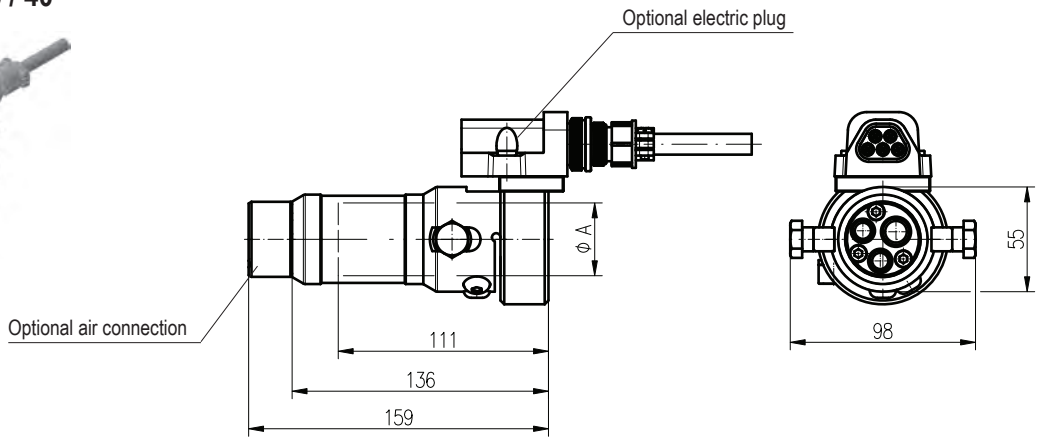


Part no.	Ø A
RDK-150-1-A3	1/8-NPT
RDK-40-1-A3	G1/8

Bayonet series 150 / 40



0.96 kg
Mat.: Aluminium

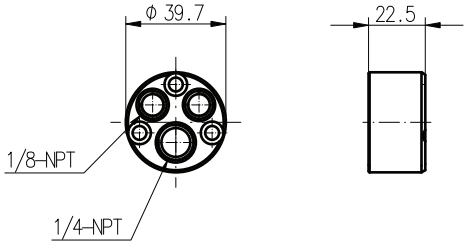


Ordering information					e.g.: TDC-150-2-K1-38-A3-EL5-HC
TDC-150-2	-	-38		-	-
	Optional keys		Optional air connection	Optional electric plug	
	↓		↓	↓	↓
	K1		A3 (3 Port)	EL 5 (plug with 5 pins)	HC (hard coated)
	K2				

Air connection for bayonet series 150 / 40



0.05 kg
Mat.: Aluminium



Part no.
RDK-150-1-A3-38

Subject to modification
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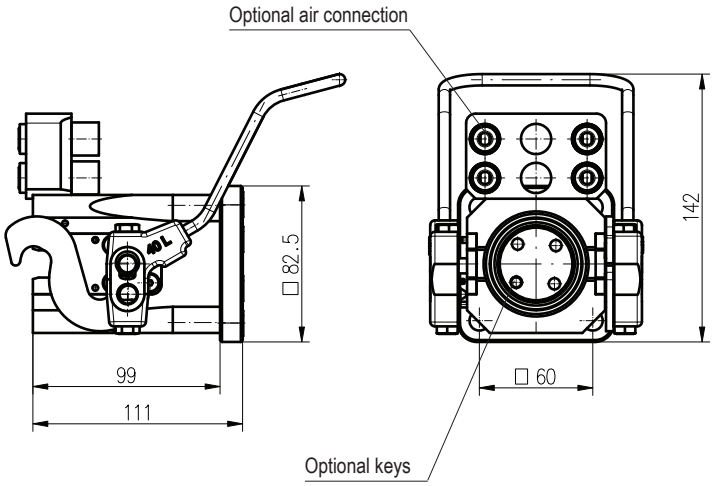
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Quick release disconnects

Disconnect housing series 150 / 40 (flang mount)



1.80 kg
Mat.: Aluminium

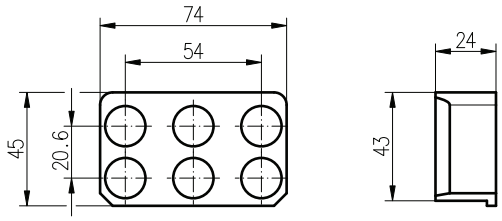


Ordering information			e.g.: TTN-150-A4-K1-GM
TTN-	-	-	-
	Size	Optional air connection	Optional keys
	↓	↓	↓
	150 (1.5")	A4 (4 Port)	K1
	40 (40 mm)	A6 (6 Port)	K2
			K3
			K4

Air distribution manifold for disconnect housing series 150 / 40



0.16 kg
Mat.: Aluminium



Part no.
TDC-150-GM-P004

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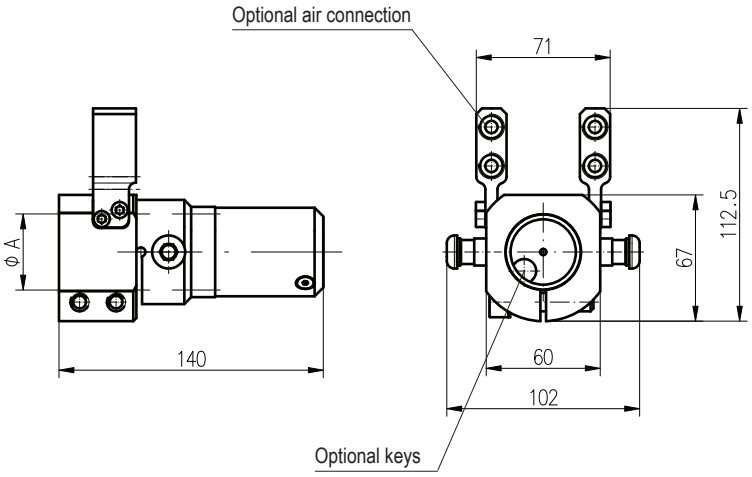
Bayonet series 150 / 40



TDC-A-A4-KX-GM
0.53 kg
Mat.: Aluminium



TDC-A-A6-KX-GM
0.63 kg
Mat.: Aluminium

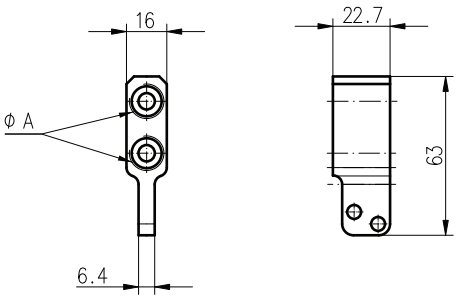


Ordering information			e.g.: TDC-150-A4-K1-GM	
TDC	-A	-	-	-GM
	Size	Optional air connection	Optional keys	
	↓	↓	↓	
	150 (1.5")	A4 (4 Port)	K1	
	40 (40 mm)	A6 (6 Port)	K2	
			K3	
			K4	

Air distribution manifold for bayonet series 150 / 40



Mat.: Aluminium

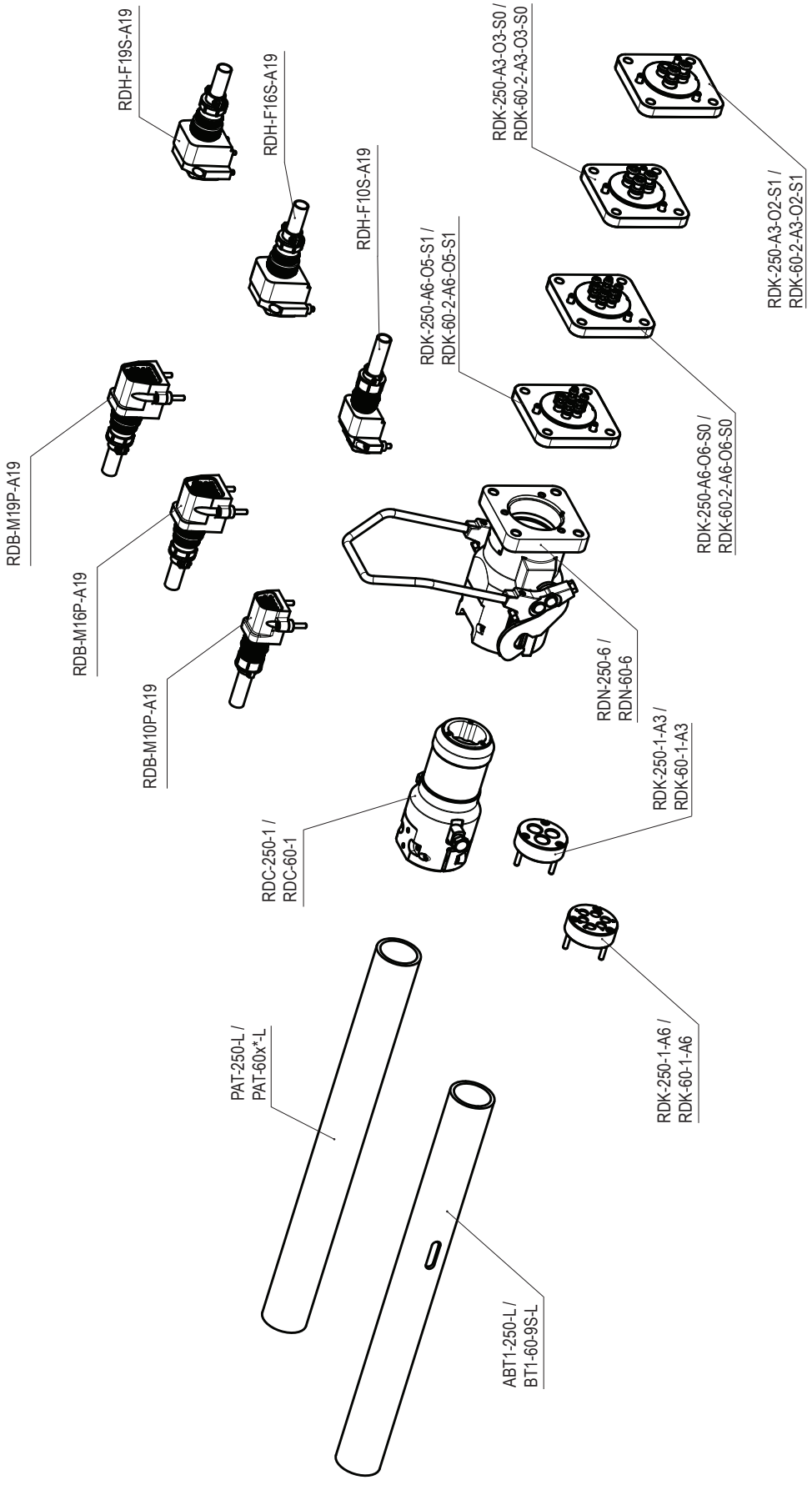


Part no.	Ø A	(kg)
TDC-150-GM-P003	1/4-NPT	0.024
TDC-40-GM-P003	G1/4	0.024

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Exploded on disconnect housing (flange mount) and bayonet series 250 / 60



Subject to modification
Edition **01/2013**

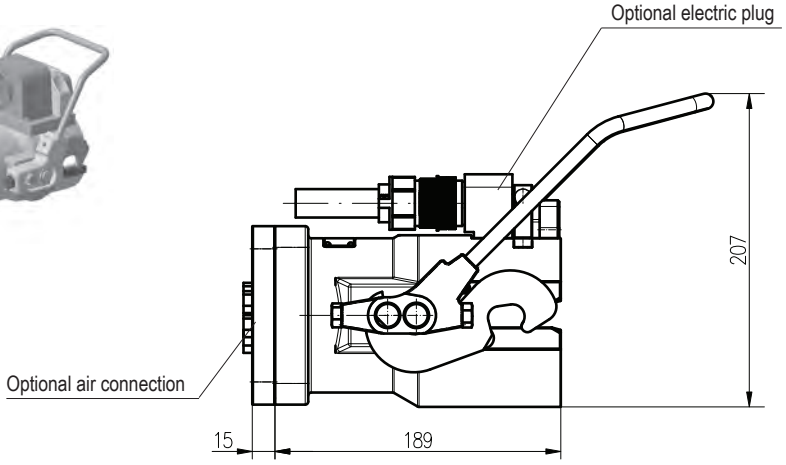
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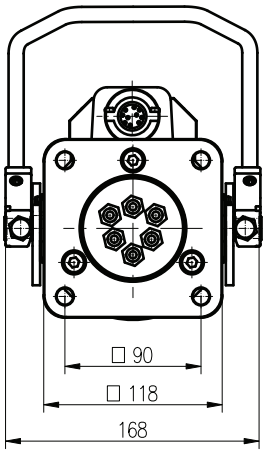
Quick release disconnects

Disconnect housing series 250 / 60 (flange mount)



4.55 kg
Mat.: Aluminium





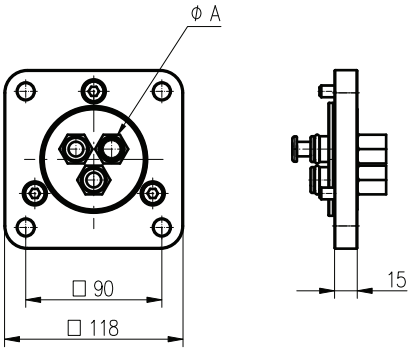
Ordering information				e.g.: RDN-250-6-02-S1-EL10
RDN	-	-6	-	-
	Size		Optional air connection (Open nipple - shut off nipple)	Optional electric plug
	↓		↓	↓
	250 (2.5")		O0 - S0	EL10 (Socket for 10 pins)
	60 (60 mm)		O3 - S0	EL16 (Socket for 16 pins)
			O2 - S1	EL19 (Socket for 19 pins)
			O6 - S0	
			O5 - S1	
			O4 - S2	

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Air connection for disconnect housing series 250 / 60 (flange mount)



0.64 kg
Mat.: Aluminium



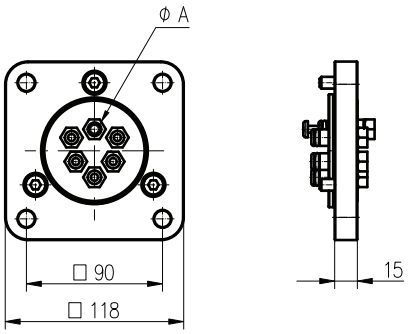
Part no.	Open nipple	Shut off nipple	Ø A
RDK-250-A3-O2-S1	O2	S1	3/8-NPT
RDK-250-A3-O3-S0	O3	S0	3/8-NPT

RDK-60-2-A3-O2-S1	O2	S1	G3/8
RDK-60-2-A3-O3-S0	O3	S0	G3/8

Air connection for disconnect housing series 250 / 60 (flange mount)



0.64 kg
Mat.: Aluminium



Part no.	Open nipple	Shut off nipple	Ø A
RDK-250-A6-O3-S0	O3	S0	1/8-NPT
RDK-250-A6-O2-S1	O2	S1	1/8-NPT
RDK-250-A6-O6-S0	O6	S0	1/8-NPT
RDK-250-A6-O5-S1	O5	S1	1/8-NPT
RDK-250-A6-O4-S2	O5	S2	1/8-NPT

RDK-60-2-A6-O3-S0	O3	S0	G1/8
RDK-60-2-A6-O2-S1	O2	S1	G1/8
RDK-60-2-A6-O6-S0	O6	S0	G1/8
RDK-60-2-A6-O5-S1	O5	S1	G1/8
RDK-60-2-A6-O4-S2	O5	S2	G1/8

Subject to modification
Edition 01/2013

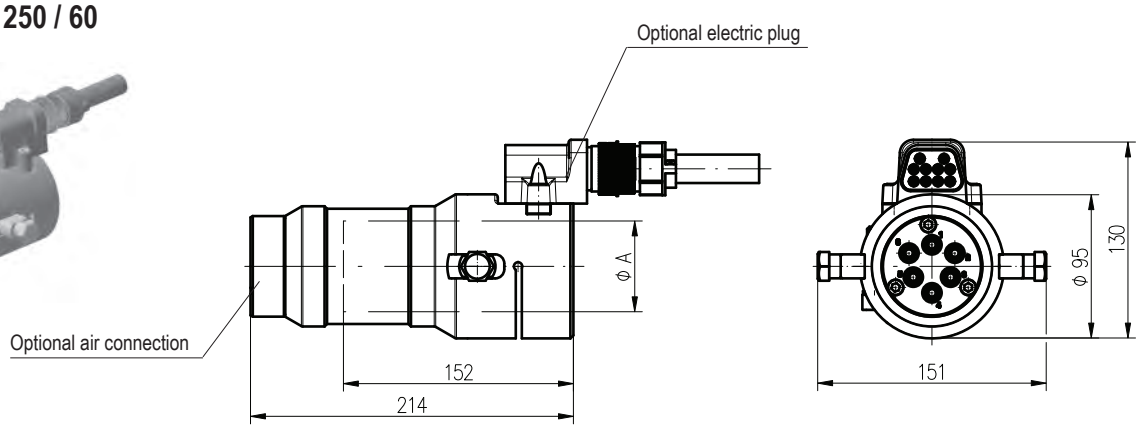
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Quick release disconnects

Bayonet series 250 / 60



2.37 kg
Mat.: Aluminium

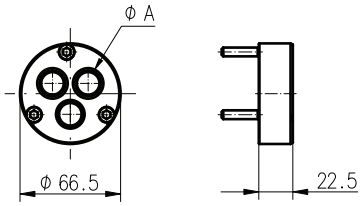


Ordering information				e.g.: RDC-250-1-A3-EL10
RDC-	-A	-1	-	-
	Size		Optional air connection (Open nipple - shut off nipple)	Optional electric plug
	↓		↓	↓
	250 (2.5")		A3 (3 Port)	EL10 (plug with 10 pins)
	60 (60 mm)		A6 (6 Port)	EL16 (plug with 16 pins)
				EL19 (plug with 19 pins)

Air connection for bayonet series 250 / 60



0.197 kg
Mat.: Aluminium

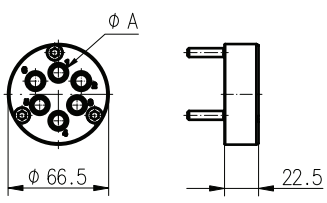


Part no.	Ø A
RDK-250-1-A3	3/8-NPT
RDK-60-1-A3	G3/8

Air connection for bayonet series 250 / 60



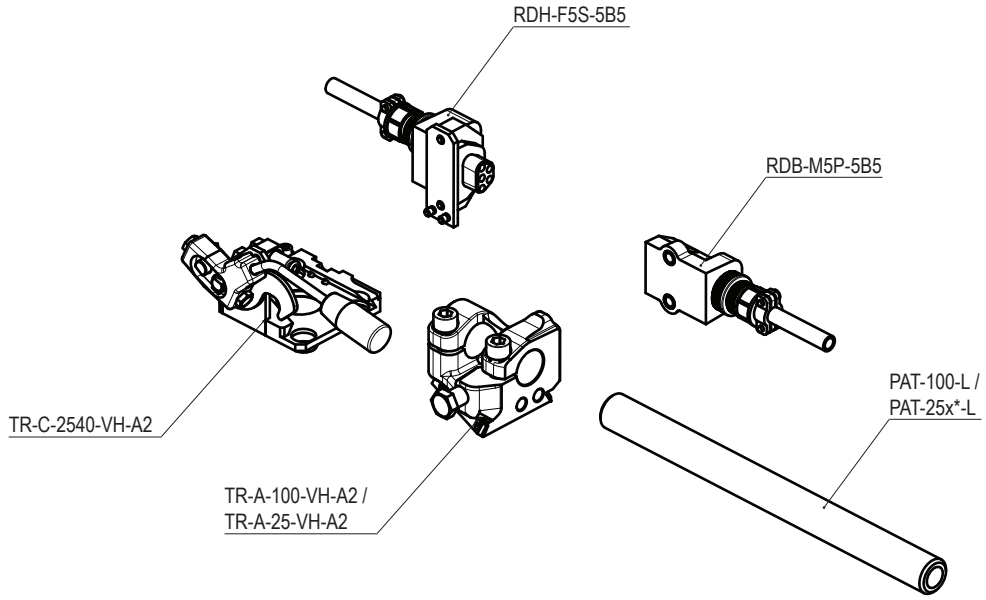
0.197 kg
Mat.: Aluminium



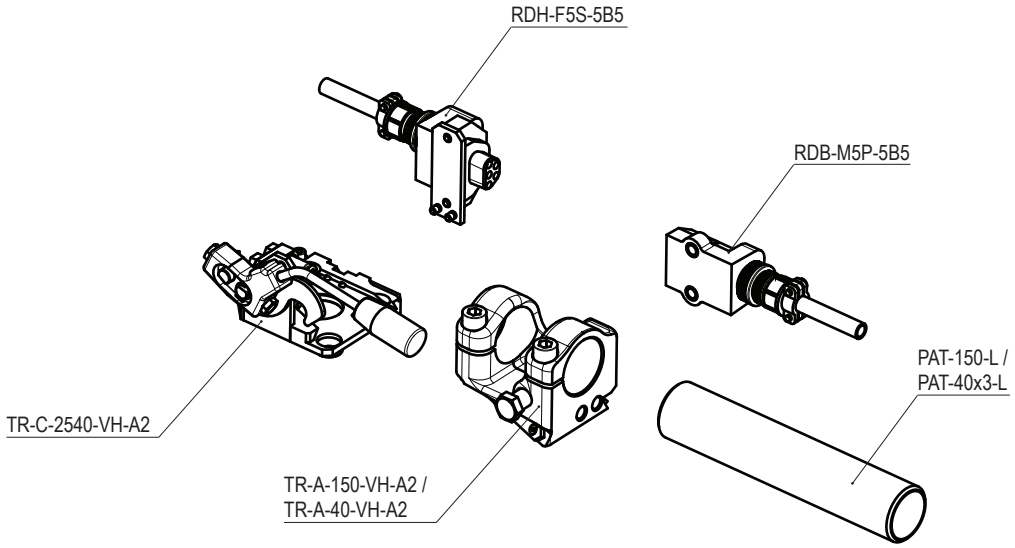
Part no.	Ø A
RDK-250-1-A6	1/8-NPT
RDK-60-1-A6	G1/8

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Exploded on disconnect plate and bayonet series 100 / 25



Exploded on disconnect plate and bayonet series 150 / 40

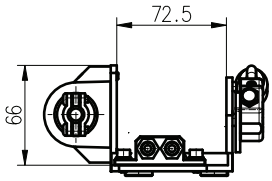


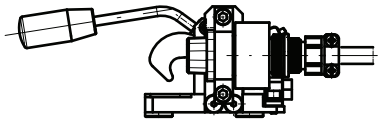
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Quick release disconnects

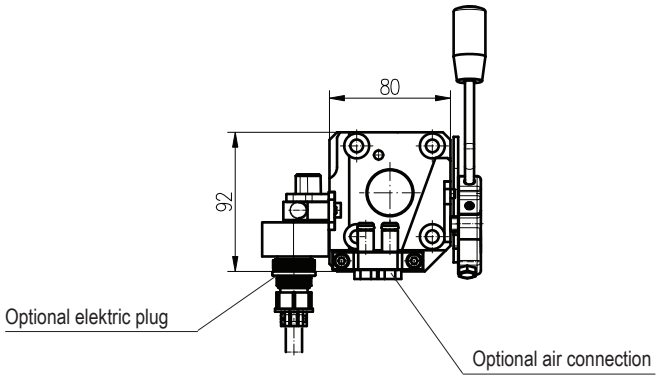
Disconnect plate series 25 /40







Material: Aluminium



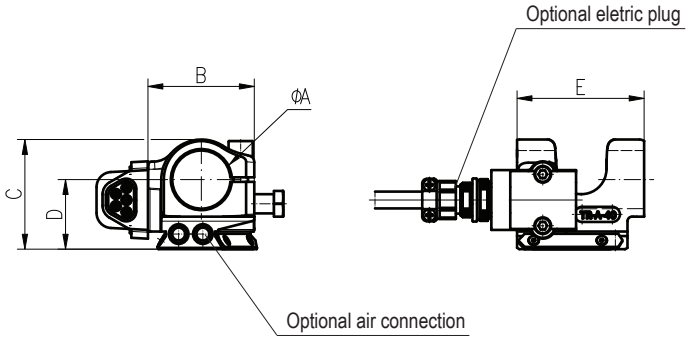
Ordering information		e.g.: TR-C-2540-VH-A2-EL5
TR-C-2540-VH	-	-
	Optional air connection	Optional electric plug
	↓	↓
	A2	EL5 (Socket for 5 pins)
	(Open nipple - shut off nipple)	
	↓	
	O0 - S2	

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Bayonet series 100 / 150 and 25 / 40



Material: Aluminium



Part no.	Ø A	B	C	D	E	(kg)
TR-A-100-VH-A2-EL5	1.0“	70	55.5	35	71	0.60
TR-A-150-VH-A2-EL5	1.5“	73	72.5	46	84	0.68
TR-A-25-VH-A2-EL5	25	70	55.5	35	71	0.60
TR-A-40-VH-A2-EL5	40	73	72.5	46	84	0.68

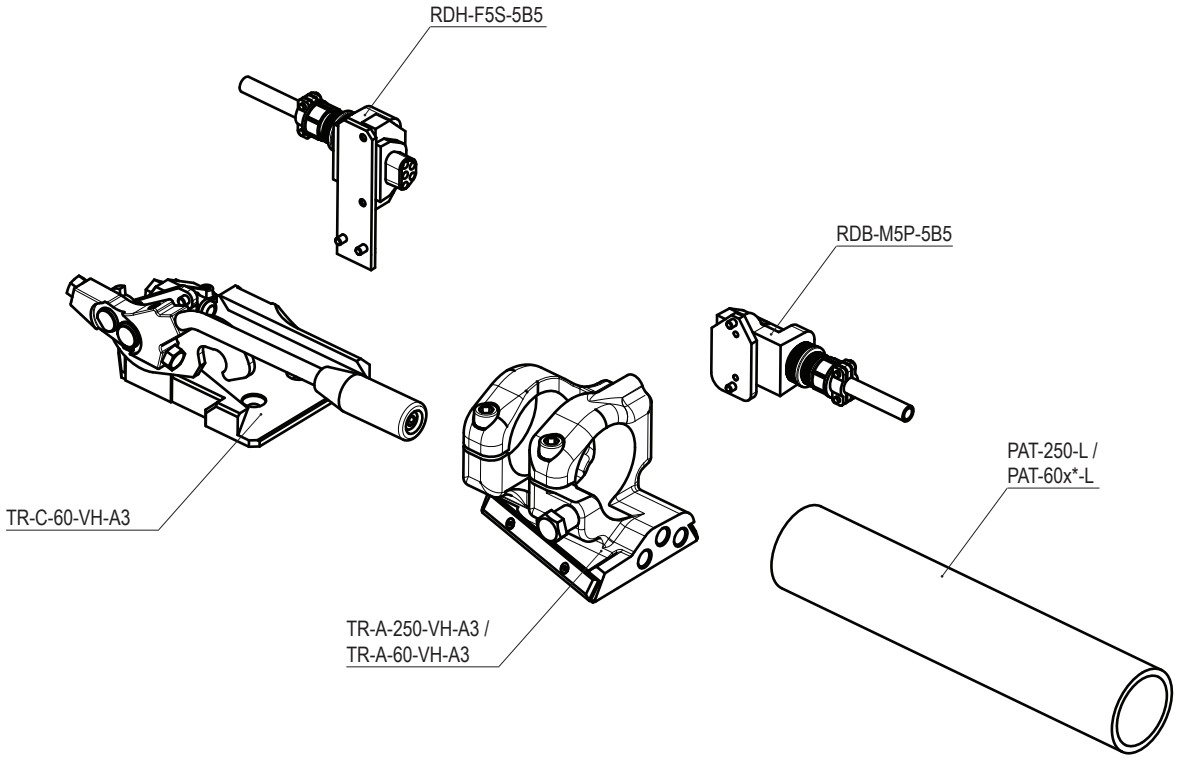
Ordering information e.g.: TR-A-100-VH-A2-EL5

TR-A-	- A	-VH	-	-
	Size		Option air connection	Optional electric plug
	↓		↓	↓
	100 (1.0“)		A2	EL 5 (plug with 5 pin)
	150 (1.5“)			
	25 (25 mm)			
	40 (40 mm)			

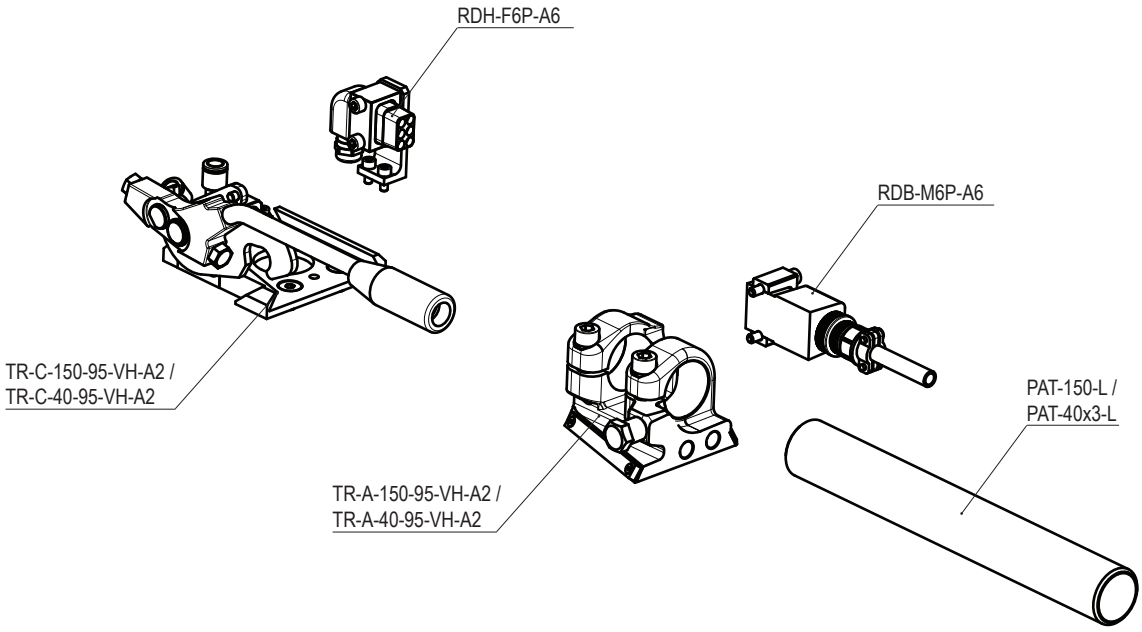
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Quick release disconnects

Exploded on disconnect plate and bayonet series 250 / 60



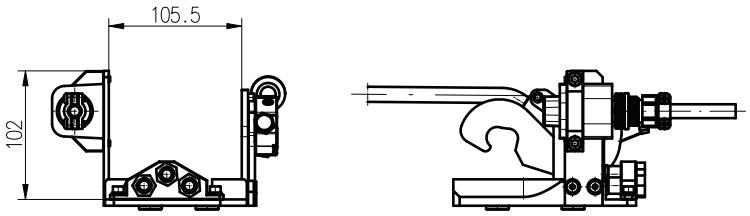
Exploded on disconnect plate and bayonet series 150 / 40



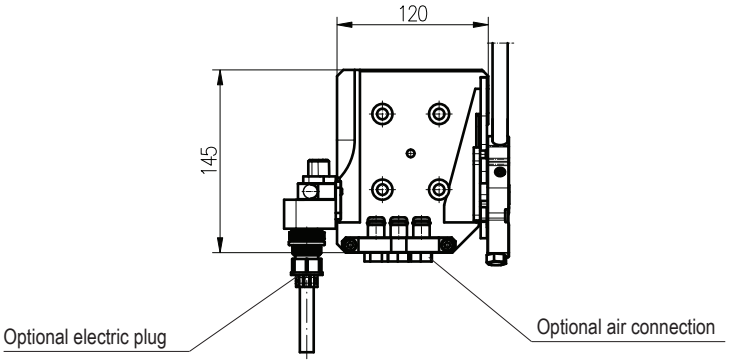
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Disconnect plate series 250 / 60





Material: Aluminium

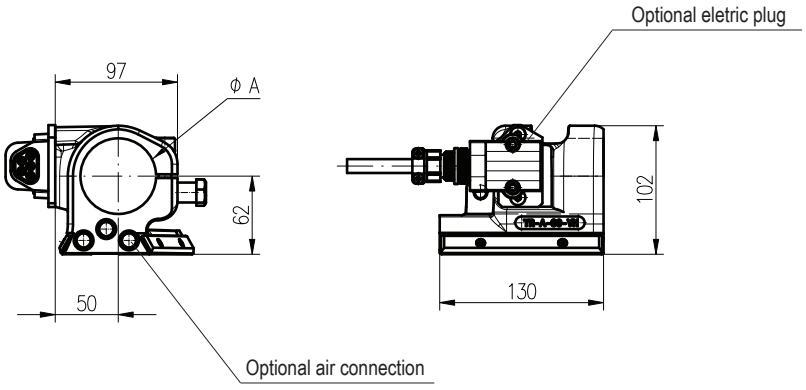


Odering information		e.g.: TR-C-60-VH-A3-EL5
TR-C-60-VH	-	-
	Optional air connection	Optional eletric plug
	↓	↓
	A3	EL 5 (plug with 5 pin)
	A5	

Bayonet series 250 / 60



Material: Aluminium



Ordering information				e.g.: TR-A-250-VH-A3-EL5
TR-A-	- A	-VH	-	-
	Size		Option air connection	Optional electric plug
	↓		↓	↓
	250 (2.5")		A3	EL 5 (Socket for 5 pin)
	60 (60 mm)			

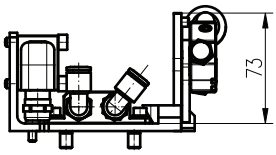
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Edition 01/2013

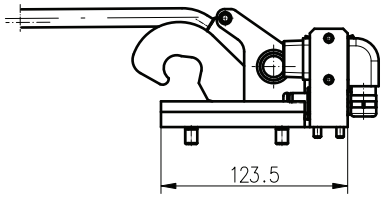
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Quick release disconnects

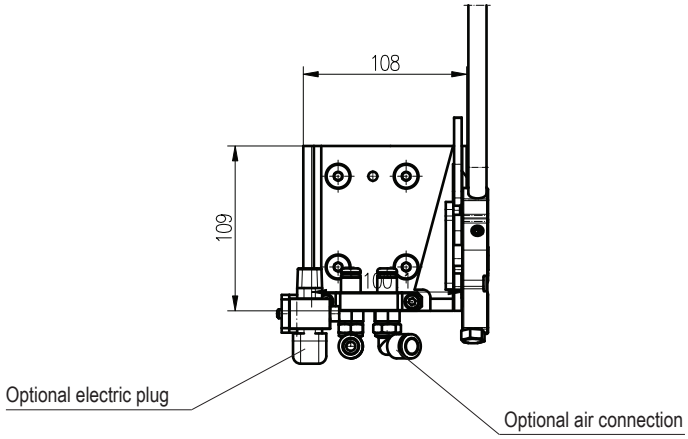
Disconnect plate series 150 / 40







Material: Aluminium

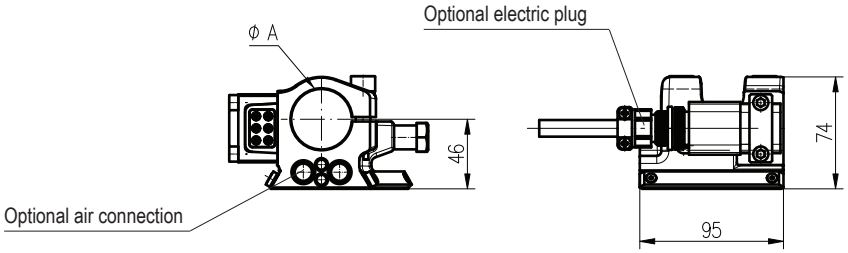


Ordering information				e.g.: TR-C-150-VH-A2-EL6
TR-C-	- A	-95-VH	-	-
	Size		Option air connection	Optional electric plug
	↓		↓	↓
	150 (1.5")		A2	EL 6 (Socket for 6 pin)
	40 (40 mm)			

Bayonet series 150 / 40



Material: Aluminium

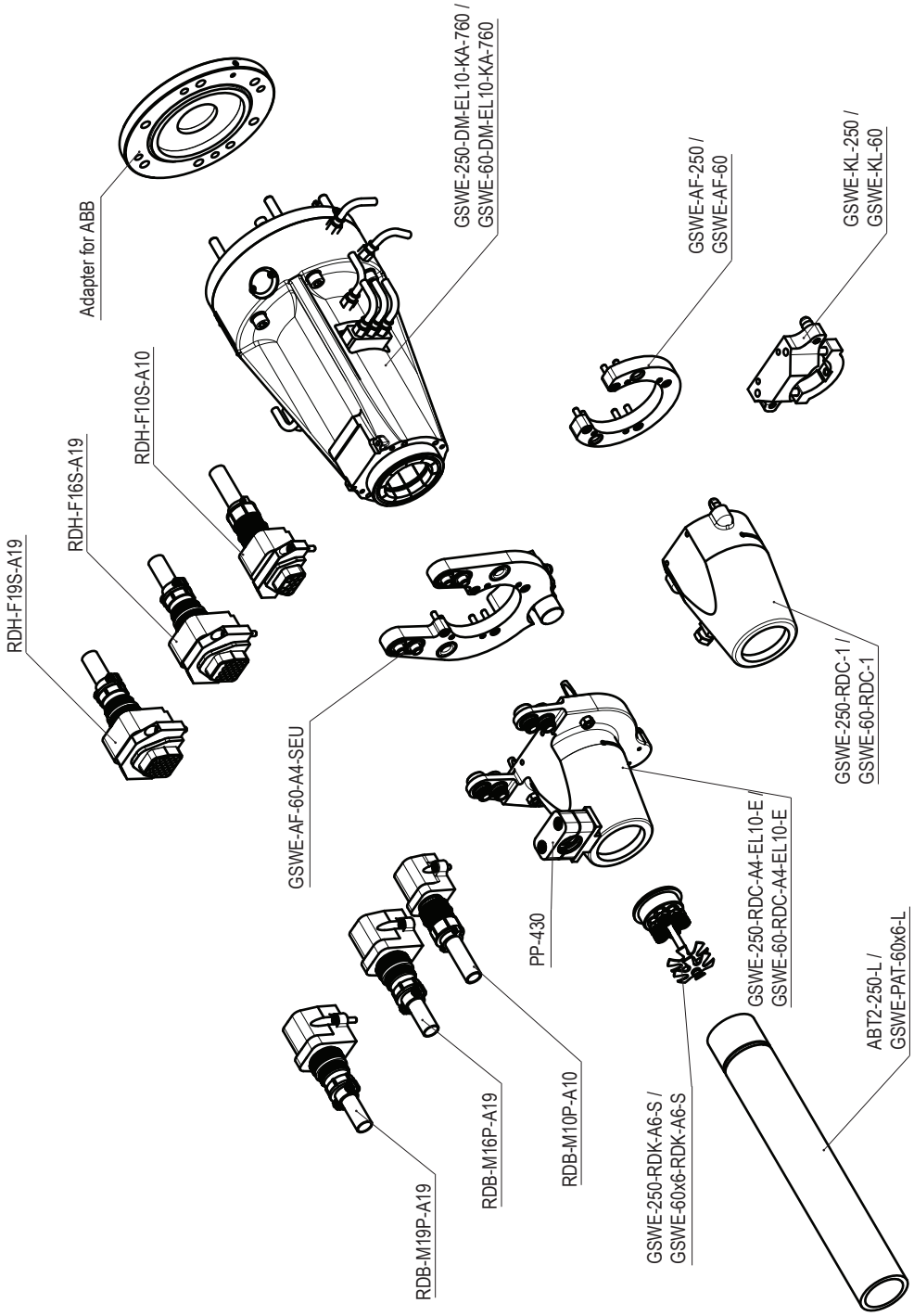


Ordering information				e.g.: TR-A-150-VH-A2-EL6
TR-A-	- A	-95-VH	-	-
	Size		Option air connection	Optional electric plug
	↓		↓	↓
	150 (1.5")		A2	EL 6 (plug with 6 pin)
	40 (40 mm)			

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Exploded of the automatic gripper quick change device, series 250 / 60, 0°

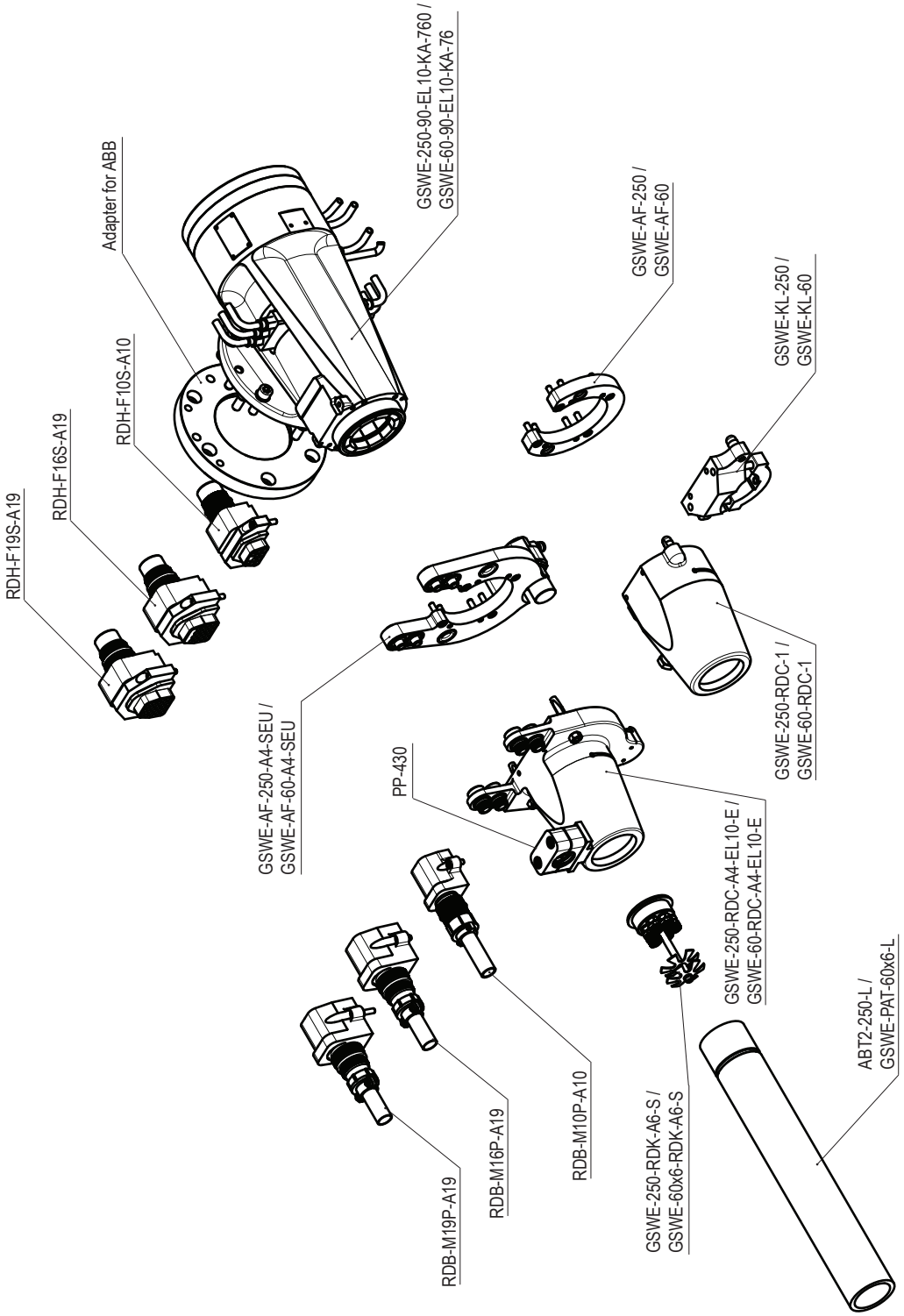


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Quick release disconnects

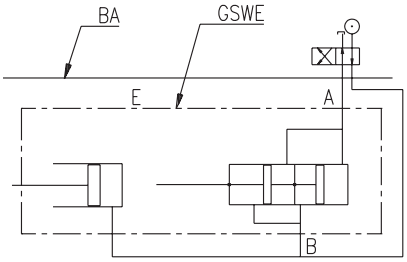
Exploded of the automatic gripper quick change device, series 250 / 60, 90°



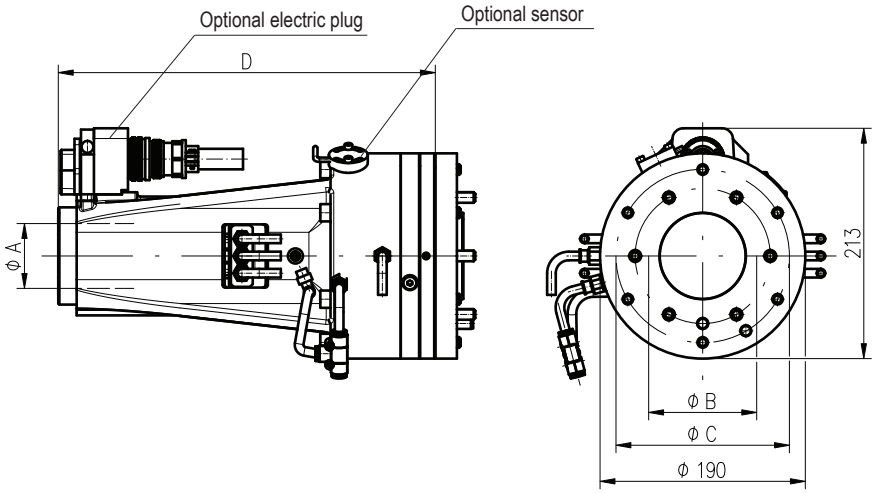
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Automatic gripper quick change device, 0°





Mat.: Aluminium



Part no.	Ø A	Ø B	Ø C	D	(kg)
GSWE-250-DM-EL**-ABB64	2.5“	80	125	369	19.0
GSWE-250-DM-EL**-KA760	2.5“	100	160	349	18.3
GSWE-60-DM-EL**-ABB64	60	80	125	369	19.0
GSWE-60-DM-EL**-KA760	60	100	160	349	18.3

Ordering information e.g.: GSWE-250-DM-EL10-KA760-S

GSWE	-	-DM	-		
	Size		Optional eletric plug	Robot type	Optional sensor
	↓		↓	↓	↓
	250 (2.5“)		EL 10 (Socket 10 pin)	ABB64	S
	60 (60 mm)		EL 16 (Socket 16 pin)	KA760	
			EL 19 (Socket 19 pin)		

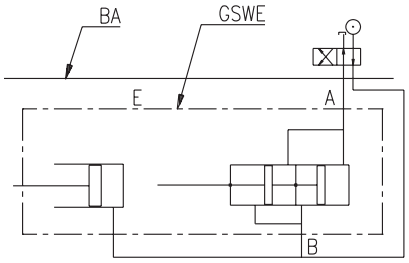
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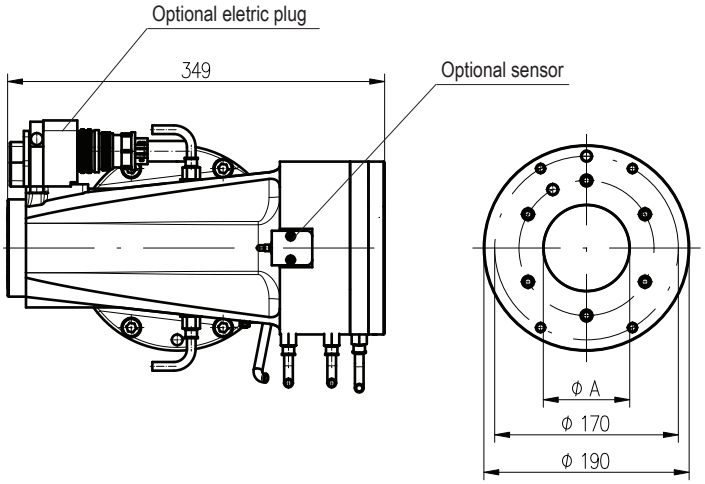
Quick release disconnects

Automatic gripper quick change device, 90° (GSWE)





Mat.: Aluminium



Part no.	Ø A	Ø B	Ø C	D	(kg)
GSWE-250-90-EL**-ABB64	2.5“	80	125	369	19.0
GSWE-250-90M-EL**-KA760	2.5“	100	160	349	18.3
GSWE-60-90-EL**-ABB64	60	80	125	369	19.0
GSWE-60-90-EL**-KA760	60	100	160	349	18.3

Ordering information e.g.: GSWE-250-90-EL10-KA760-S

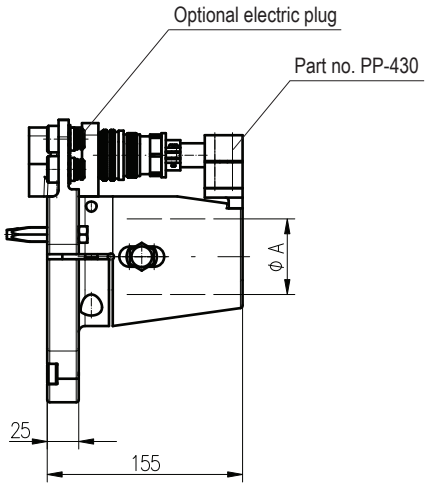
GSWE	-	-90	-		
	Size		Optional eletric plug	Robot type	Optional sensor
	↓		↓	↓	↓
	250 (2.5“)		EL 10 (Socket 10 pin)	ABB64	S
	60 (60 mm)		EL 16 (Socket 16 pin)	KA760	
			EL 19 (Socket 19 pin)		

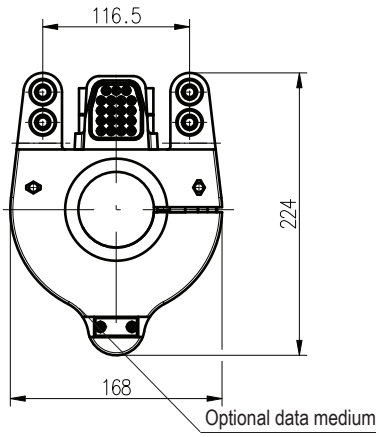
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Location cone for gripper quick change device series 250 / 60 (gripper side)



Material: Aluminium



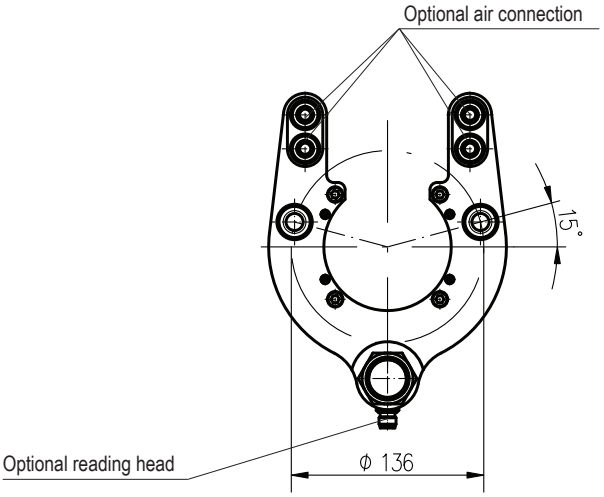


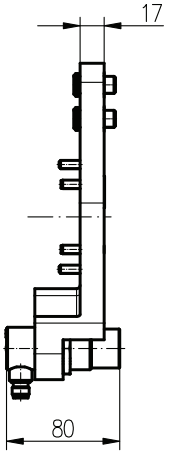
Ordering information					e.g.: GSWE-250-RDC-A4-EL10-E
GSWE	-A	-RDC	-	-	
	Size		Optional air connection	Option electric plug	Optional data medium
	↓		↓	↓	↓
	250 (2.5")		A4 (4 Port)	EL 10 (Socket for 10 pins)	E (Eprom)
	60 (60 mm)			EL 16 (Socket for 16 pins)	
				EL 19 (Socket for 19 pins)	

Mounting flange for gripper quick change device series 250 / 60 (coupling side)



1.06 kg
Material: Aluminium





Ordering information					e.g.: GSWE-250-AF-A4-SEU
GSWE	-	-AF	-	-	
	Diameter		Optional air connection	Optional reading head	
	↓		↓	↓	
	250 (2.5")		A4 (4 Port)	SEU	
	60 (60 mm)				

Subject to modification
Edition 01/2013

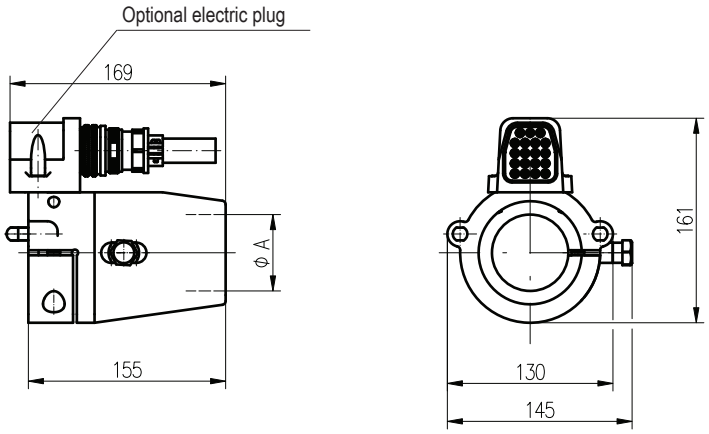
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Quick release disconnects

Location cone for gripper quick change device series 250 / 60 (gripper side)



Material: Aluminium

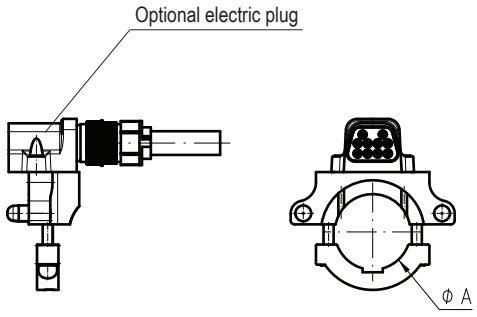


Ordering information			e.g.: GSWE-250-RDC-1-EL10
GSWE	-A	-RDC-1	-
	Size		Optional electric plug
	↓		↓
	250 (2.5")		EL 10 (Socket for 10 pins)
	60 (60 mm)		EL 16 (Socket for 16 pins)
			EL 19 (Socket for 19 pins)

Mount for electric plug for gripper quick change device series 250 / 60 (coupling side)



Material: Aluminium



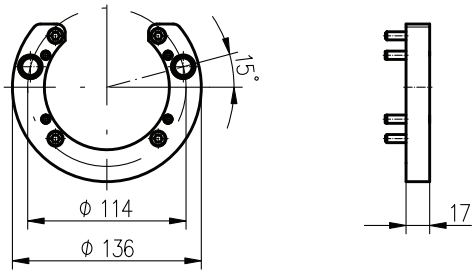
Ordering information		e.g.: GSWE-KL-250-EL10
GSWE-KL	-A	-
	Size	Optional electric plug
	↓	↓
	250 (2.5")	EL 10 (Socket for 10 pins)
	60 (60 mm)	EL 16 (Socket for 16 pins)
		EL 19 (Socket for 19 pins)

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Mounting flange for gripper quick change device series 250 / 60 (coupling side)



0.28 kg
Material: Aluminium



Part no.
GSWE-AF-250*

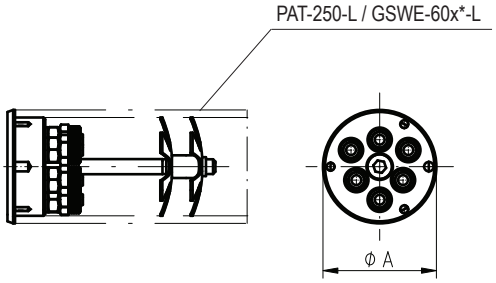
GSWE-AF-60*

* mating tube

Air connection, 6-port, gripper quick change device series 250 / 60 (gripper side)



0.25 kg
Material: Aluminium



Part no.	
GSWE-250-RDK-A6-S	For use with PAT-250-L

GSWE-60x5-RDK-A6-S	For use with GSWE-60x-*L
GSWE-60x6-RDK-A6-S	

Subject to modification
Edition 01/2013

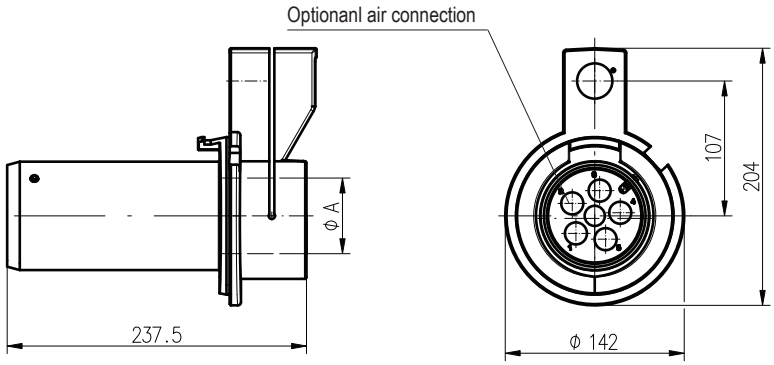
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Quick release disconnects

Bayonet for ABB coupling



Material: Aluminium

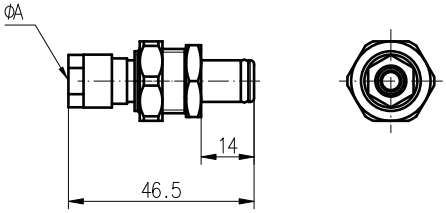


Ordering information		e.g.: VDC-250-A4
VDC	-A	-
	Size	Optional air connection
	↓	↓
	150 (1.5")	A2 (2 Port)
	250 (2.5")	A4 (4 Port)
	300 (3.0")	A5 (5 Port)
	40 (40 mm)	
	60 (60 mm)	
	76 (76 mm)	

Plastic connector for ABB coupling



0.02 kg
Material: Plastic

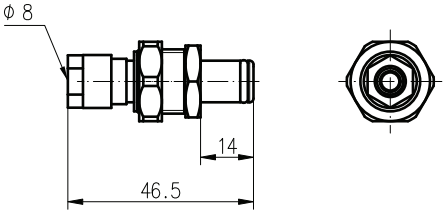


Part no.	Ø A
PLC-400-M8-VT	8
PLC-400-M10-VT	10

Steel connector for ABB coupling



0.06 kg
Material: Plastic



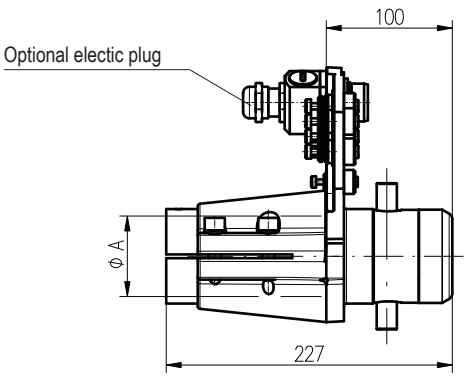
Part no.
PLC-400-M8-ST

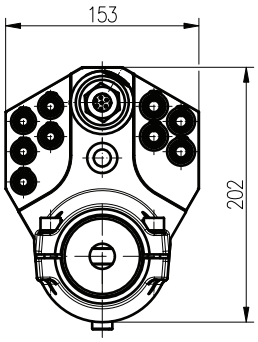
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Bayonet series 250 / 60 für KUKA coupling



Material: Aluminium





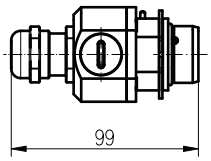
Part no.	Ø A	(kg)
SWA-819-250	2.5“	3.82
SWA-819-250-EL16	2.5“	3.93

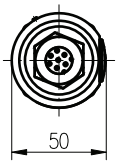
SWA-819-60	60	3.82
SWA-819-60-EL16	60	3.93

Electric plug for KUKA coupling



0.09 kg
Material: Plastic





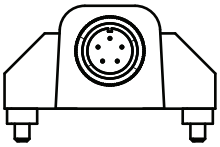
Part no.
RDB-MC16-SWA

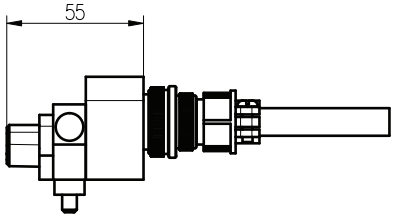
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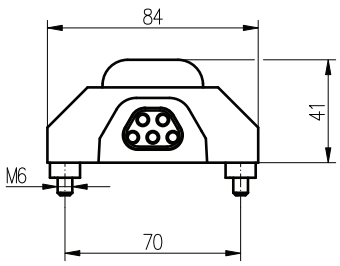
Quick release disconnects

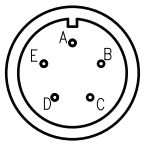
Electrical outlet, 5-PIN

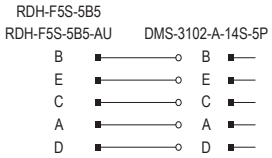


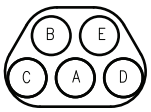












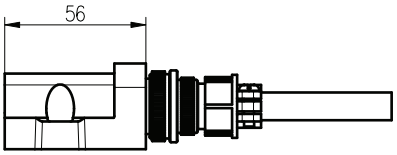
Part no.	Receptacle	kg)
RDH-F5S-5B5	5 Sockets	0.192
RDH-F5S-5B5-AU*	5 Sockets	0.192

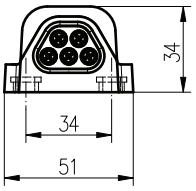
*AU = gold plated insert bushes

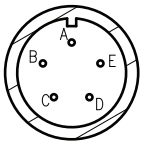
Electric plug, 5-PIN

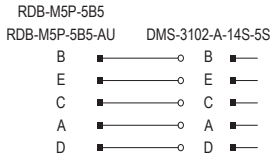


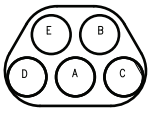












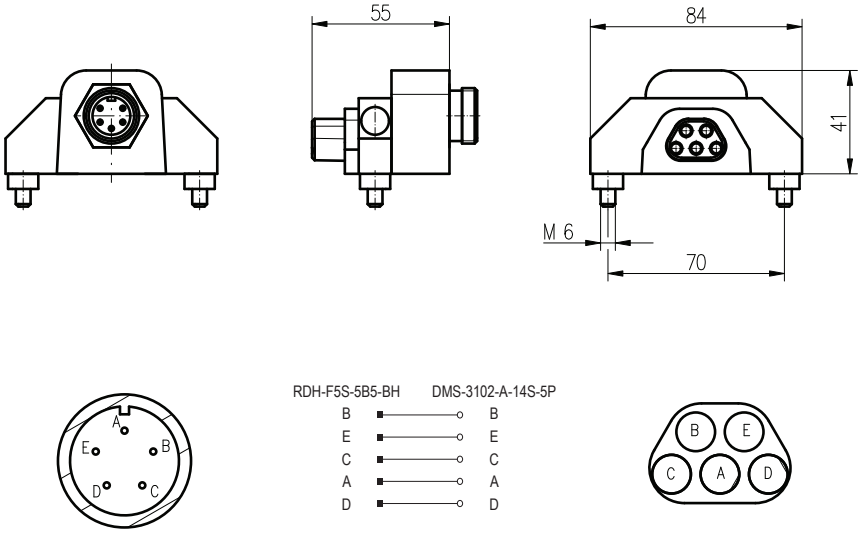
Part no.	Receptacle	(kg)
RDB-M5P-5B5	5 Pins	0.19
RDB-M5P-5B5-AU*	5 Pins	0.19

*AU = gold plated insert bushes

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Electrical outlet, 5-PIN

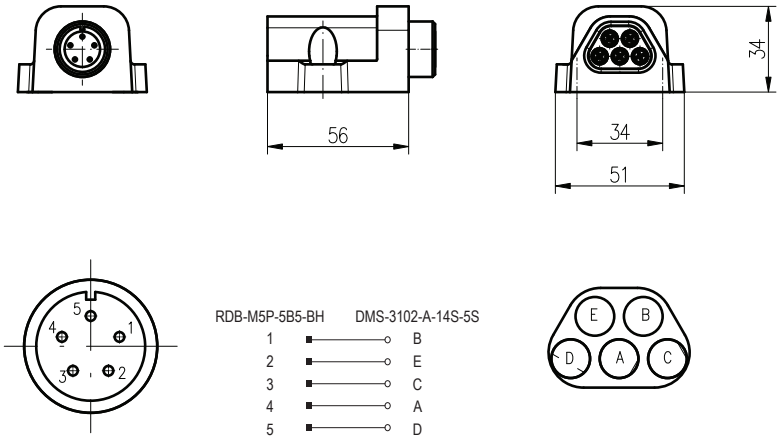




Part no.	Receptacle	kg)
RDH-F5S-5B5-BH	5 Sockets	0.192

Electric plug, 5-PIN





Part no.	Receptacle	(kg)
RDB-M5P-5B5-BH	5 Pins	0.19

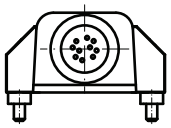
Subject to modification
Edition 01/2013

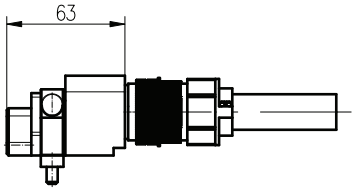
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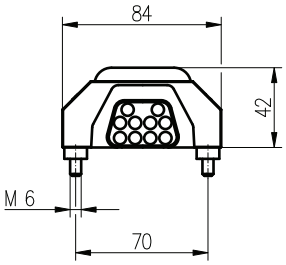
Quick release disconnects

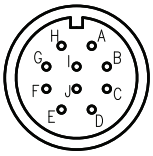
Electrical outlet, 10-PIN

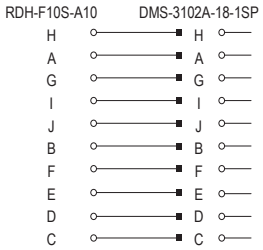


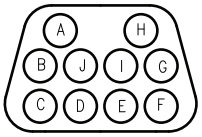








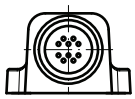


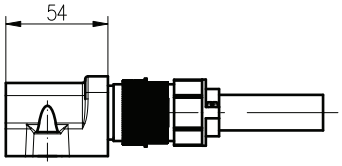


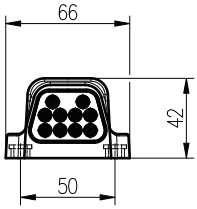
Part no.	Receptacle	(kg)
RDH-F10S-A10	10 Socket	0.192

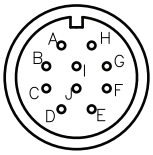
Electric plug, 10-PIN

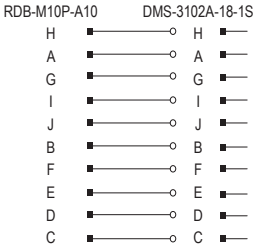


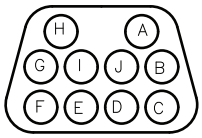










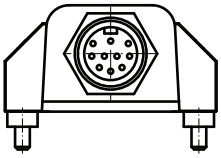


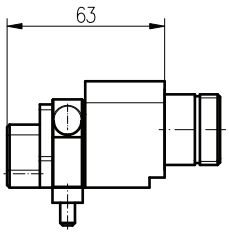
Part no.	Receptacle	(kg)
RDB-M10P-A10	10 Pins	0.19

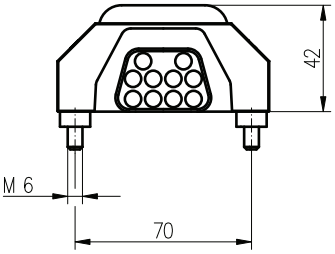
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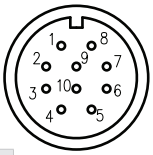
Electrical outlet, 10-PIN

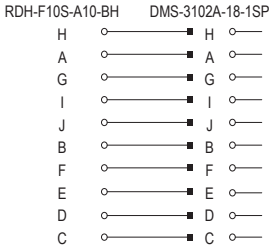


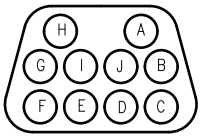








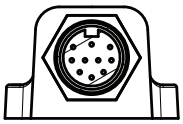


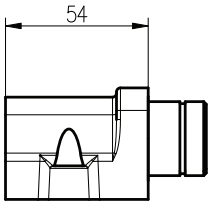


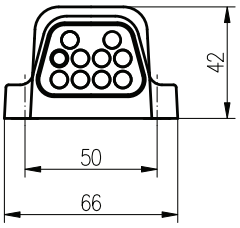
Part no.	Receptacle	(kg)
RDH-F10S-A10-BH	10 Socket	0.192

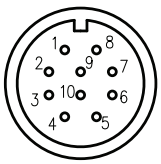
Electric plug, 10-PIN

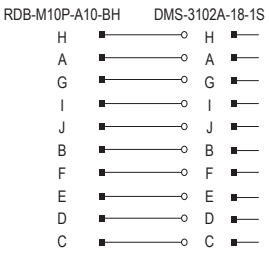


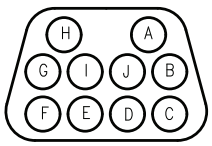












Part no.	Receptacle	(kg)
RDB-M10P-A10-BH	10 Pins	0.19

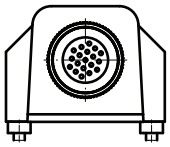
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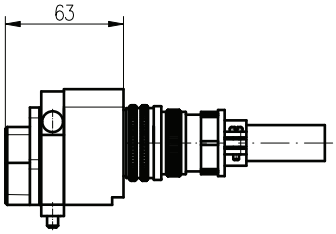
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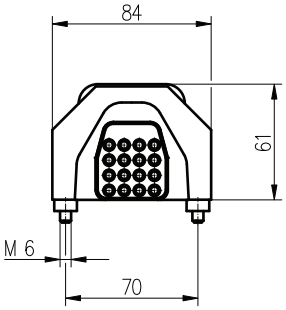
Quick release disconnects

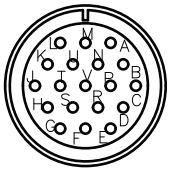
Electrical outlet, 16-PIN

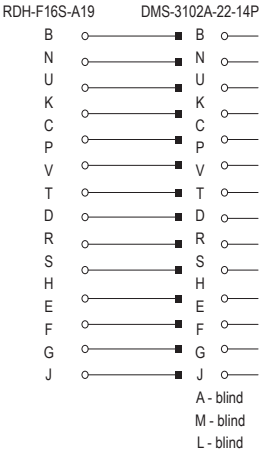


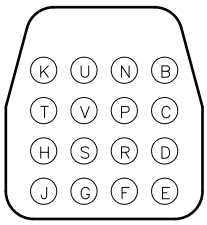








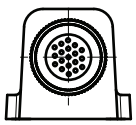


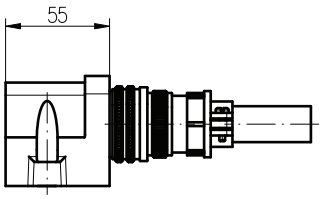


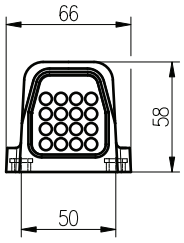
Part no.	Receptacle	(kg)
RDH-F16S-A19	16 Socket	0.22

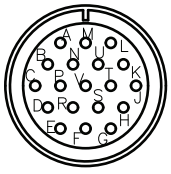
Electric plug, 16-PIN

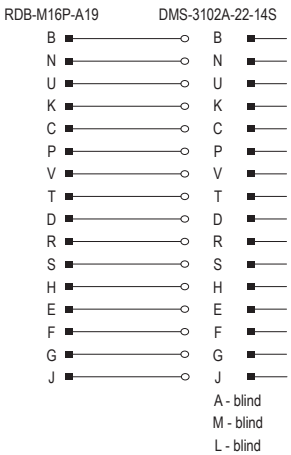


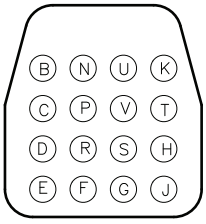










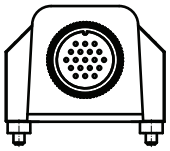


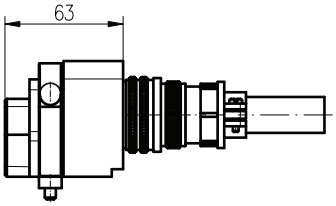
Part no.	Receptacle	(kg)
RDB-M16P-A19	16 Pins	0.22

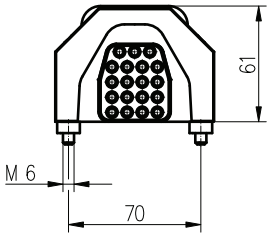
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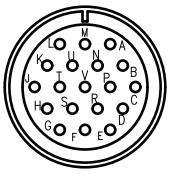
Electrical outlet, 19-PIN

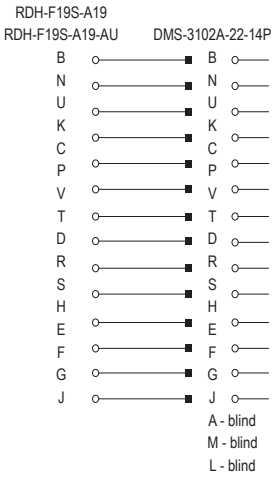


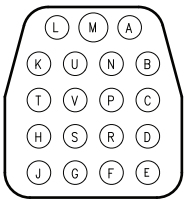










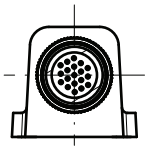


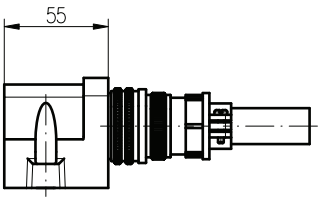
Part no.	Receptacle	(kg)
RDH-F19S-A19	19 Socket	0.22
RDH-F19S-A19-AU*	19 Socket	0.22

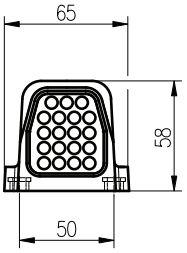
*AU = gold plated insert bushes

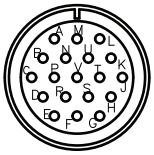
Electric plug, 19-PIN

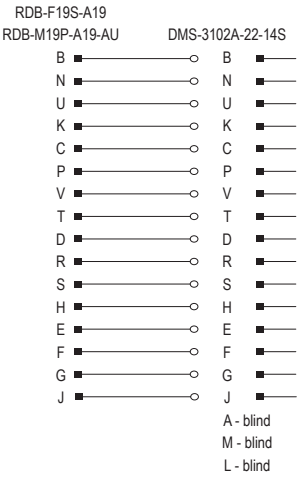


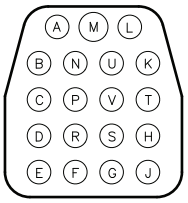












Part no.	Receptacle	(kg)
RDB-M19P-A19	19 Pins	0.22
RDB-M19P-A19-AU*	19 Pins	0.22

*AU = gold plated insert bushes

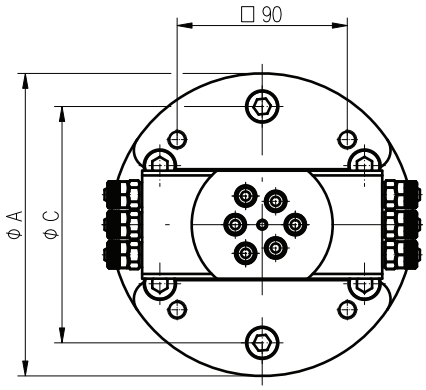
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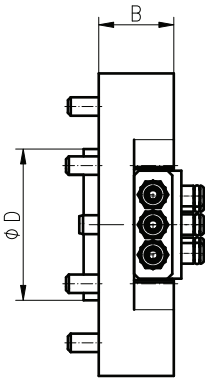
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Quick release disconnects

Direct mout robot adapter series 250 / 60







Part no.	Ø A	B	Ø C	D	(kg)	Robot model
ABB60-DM-	160	40	125	80	1.47	ABB IRB 6000
ABB64-DM-	160	40	125	80	1.47	ABB IRB 6400
CMX58-DM-	160	40	100	70	0.99	ACMA X58
FA400-DM-	160	40	125	60	0.99	FANUC M-400
FA420-DM-	160	40	125	60	0.99	FANUC S-420
FA500-DM-	160	40	125	60	0.99	FANUC M-500
FA900-DM-	160	40	125	80	1.47	FANUC S-900
KW150-DM-	160	40	92	55	0.99	KAWASAKI UK-150
KA760-DM-	190	32	160	100	1.76	KUKA760
MMNY300-DM-	229	40	200	160	2.04	MOTOMAN NY300
MMK100-DM-	152	40	125	63	1.47	MOTOMAN K100
Custom-DM-	-	-	-	-	-	-

Ordering information e.g.: KA760-DM-RD60-A3

	-DM-RD		-
		Size	Optional air connection
↓		↓	↓
ABB60		250 (2.5")	A3 (3Port)
ABB64		60 (60 mm)	A6 (6Port)
CMX58			
FA700			
FA420			
FA500			
FA900			
KW150			
MMNY300			
MMK100			

Note: Ohter Version available
please contact our distribution

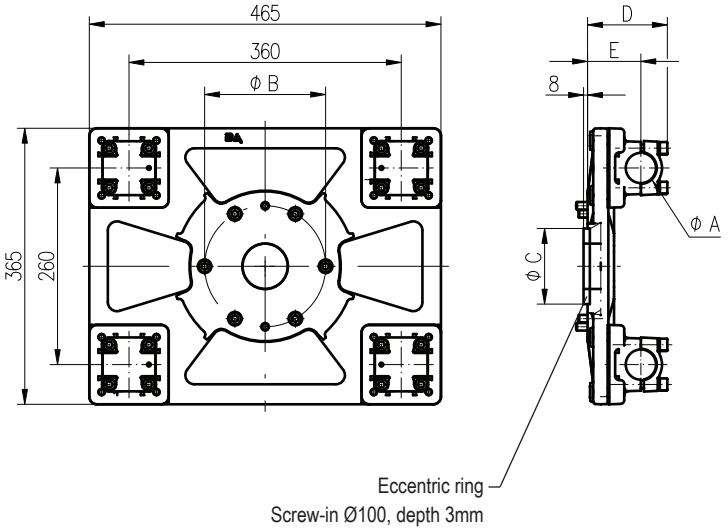
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Robot mount series 150 / 40 and 250 / 60 with in solation



Mat.: Aluminium



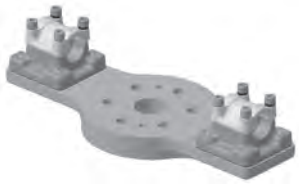
Part no.	Ø A	Ø B	Ø C	D	E	(kg)	Robot model
PLR-D-150-125-A	1.5“	125	80	105	71	11.0	ABB IRB-6400
PLR-D-150-160-A	1.5“	125	100	105	71	11.0	KUKA 760
PLR-D-250-125-A	2.5“	160	80	128	85	12.0	ABB IRB 6400
PLR-D-250-160-A	2.5“	160	100	128	85	11.0	KUKA 760
PLR-D-150-*-A	1.5“	-	-	105	71	11.0	**
PLR-D-250-*-A	1.5“	-	-	128	85	12.0	**
PLR-D-40-125-A	40	125	80	105	71	11.0	ABB IRB-6400
PLR-D-40-160-A	40	125	100	105	71	11.0	KUKA 760
PLR-D-60-125-A	60	160	80	128	85	12.0	ABB IRB 6400
PLR-D-60-160-A	60	160	100	128	85	11.0	KUKA 760
PLR-D-40-*-A	40	-	-	105	71	11.0	**
PLR-D-60-*-A	60	-	-	128	85	12.0	**

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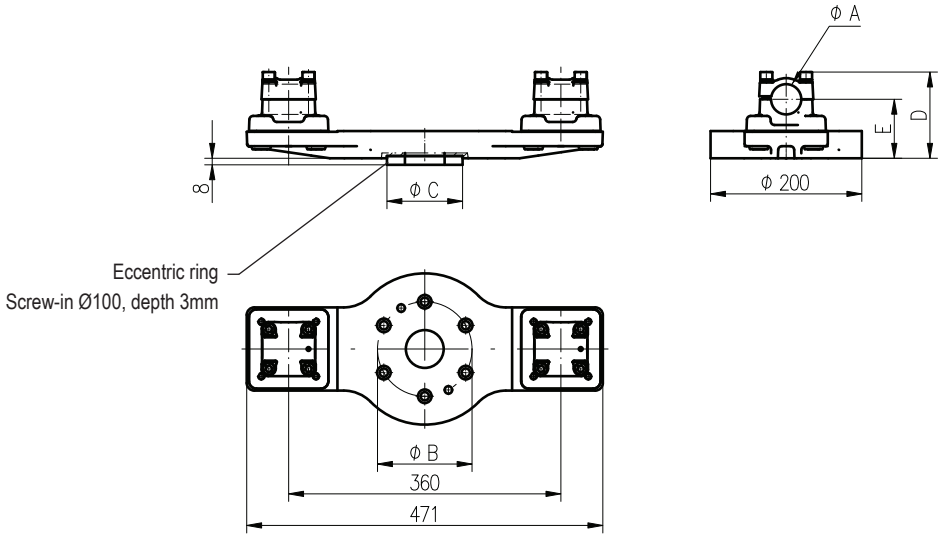
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Quick release disconnects

Robot mount series 150 / 40 and 250 / 60 with in solation



Mat.: Aluminium



Part no.	Ø A	Ø B	Ø C	D	E	(kg)	Robot model
PLR-E-150-125-A	1.5“	125	80	105	79	11.0	ABB IRB-6400
PLR-E-150-160-A	1.5“	125	100	105	79	11.0	KUKA 760
PLR-E-250-125-A	2.5“	160	80	128	93	12.0	ABB IRB 6400
PLR-E-250-160-A	2.5“	160	100	128	93	11.0	KUKA 760
PLR-E-150-*-A	1.5“	-	-	105	79	11.0	**
PLR-E-250-*-A	1.5“	-	-	128	93	12.0	**
PLR-E-40-125-A	40	125	80	105	79	11.0	ABB IRB-6400
PLR-E-40-160-A	40	125	100	105	79	11.0	KUKA 760
PLR-E-60-125-A	60	160	80	128	93	12.0	ABB IRB 6400
PLR-E-60-160-A	60	160	100	128	93	11.0	KUKA 760
PLR-E-40-*-A	40	-	-	105	79	11.0	**
PLR-E-60-*-A	60	-	-	128	93	12.0	**

Including fastening material (screws and straight pins) and eccentric ring

* With turned groove for eccentric ring and without geometry of drill holes for robot mount

** Please indicate on all inquiries or orders the necessary position of the drill holes for the robot connection

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Notes

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Clamps & Adapters

Picture	Designation	Page
	Flange mount	99
	Flange mount, split type	99
	Flange mount, split type	100
	Flange mount	100
	Cross boom adapter with outside clamping	101
	Elbow 45°	101
	Elbow 90°	101
	Clamp block, split type	102
	Clamp block, opten type	102
	Clamp collar, T-version, split type	103
	Clamp collar, T-version, split type	103
	Clamp collar, T-version, split type	104
	Clamp collar, T-version	104
	Clamp block for boom extension	105
	Cross clamp	105
	Clamp collar, T-version	106

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Picture	Designation	Page
	Clamp collar, T-version	106
	Clamp collar, T-version	106
	Clamp collar	107
	Cross clamp	107
	Parallel clamp	107
	T-clamp collar, with split clip	108
	Reducer bush	108
	Base clamp collar	109
	Clamp collar	109
	T-clamp collar	110
	T-clamp collar	110
	T-clamp collar	110
	T-clamp collar	111
	T-clamp collar	111
	T-clamp collar	111
	Cross clamp	112

Subject to modification
Edition 01/2013

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Clamps & Adapters

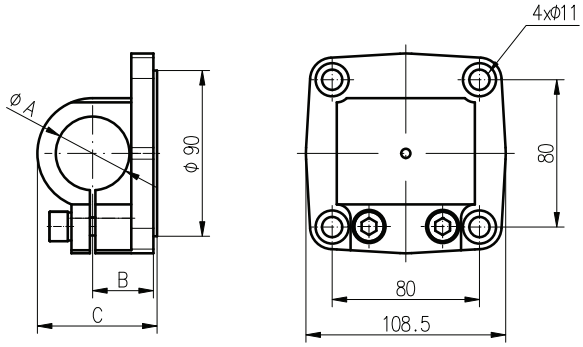
Picture	Designation	Page
	Parellel clamp	112

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Flange mount



Mat.: Aluminium



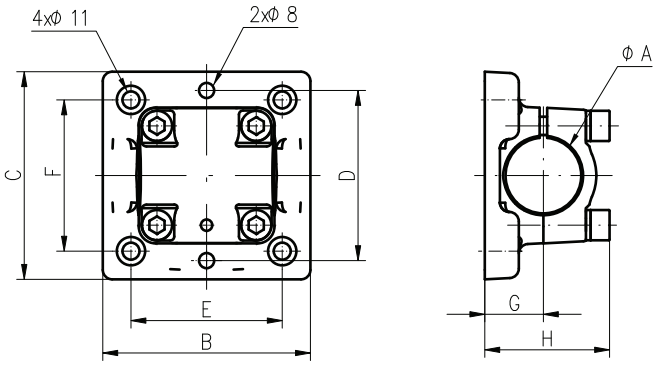
Part no.	Ø A	B	C	(kg)
GFA-150	1.5“	33	65	0.77
GFA-250	2.5“	55	96	1.20

GFA-40	40	33	65	0.77
GFA-60	60	55	96	1.20

Flange mount, split type



Mat.: Aluminium



Part no.	Ø A	B	C	D	E	F	G	H	(kg)
GFAR-150-110	1.5“	110	110	90.0	80	80	31	66	0.77
GFAR-250-150	2.5“	150	100	72.5	123	76	44	67	1.20

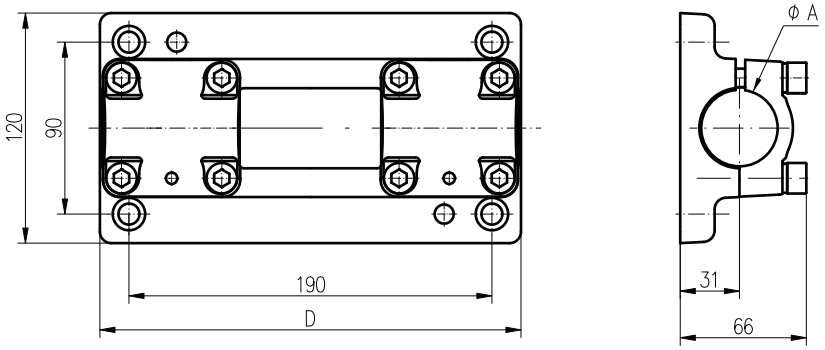
GFAR-40-110	40	110	110	90.0	80	80	31	66	0.77
GFAR-60-150	60	150	100	72.5	123	76	44	67	1.20

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Flange mount, split type



Mat.: Aluminium



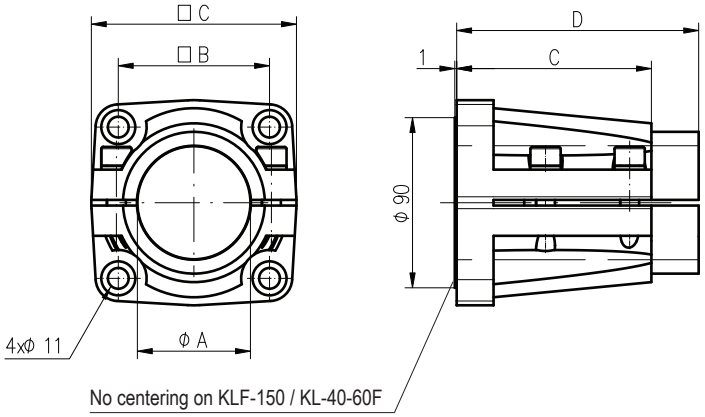
Part no.	Ø A	B	C	D	(kg)
GFAR-150-220-C	1.5“	31	66	220	1.70
GFAR-250-265-A	2.5“	44	87	265	2.70

GFA-40-220-C	40	31	66	220	1.70
GFA-60-265-A	60	44	87	265	2.70

Flange mount



Mat.: Aluminium



Part no.	Ø A	B	C	D	(kg)
KLF-150	1.5“	60	84	91	1.20
KLF-250	2.5“	80	109	129	1.52

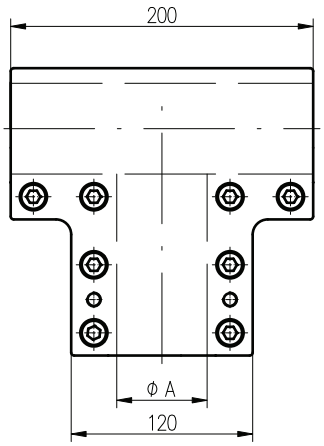
KL-40-60F	40	60	84	91	1.20
KL-60-80F	60	80	109	129	1.52

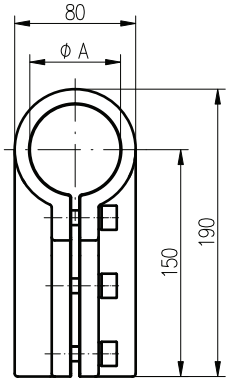
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Cross boom adapter with outside clamping





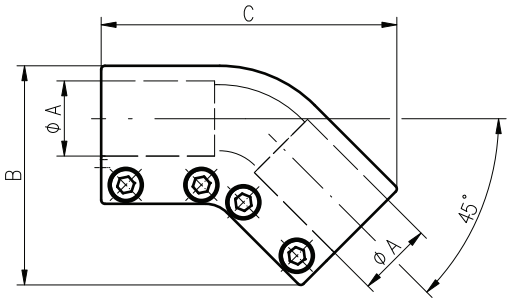


Mat.: Aluminium

Part no.	Ø A	(kg)
DC-250250-BBA	1.5“	2.05
DC-6060-BBA	60	2.05

Elbow 45°



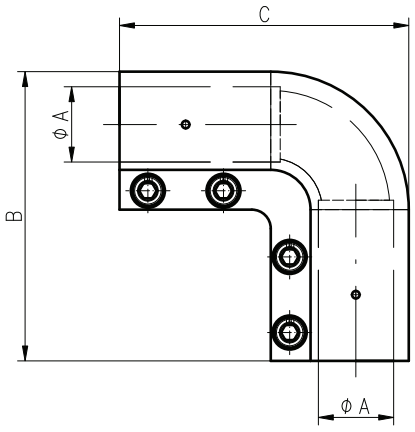


Mat.: Aluminium

Part no.	Ø A	B	C	(kg)
DC-150150-45	1.5“	116	156	0.73
DC-250250-45	2.5“	165	229	1.73
DC-4040-45	40	116	156	0.73
DC-6060-45	60	165	229	1.73

Elbow 90°





Mat.: Aluminium

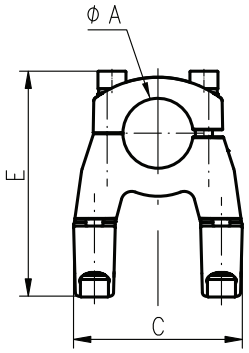
Part no.	Ø A	B	C	(kg)
DC-150150-90	1.5“	153	153	1.06
DC-250250-90	2.5“	190	190	1.73
DC-4040-90	40	153	153	1.06
DC-6060-90	60	190	190	1.73

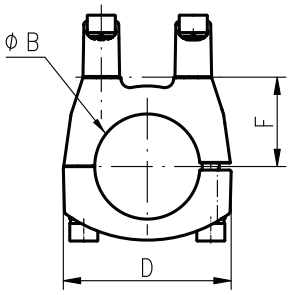
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Clamp block, split type



Mat.: Aluminium





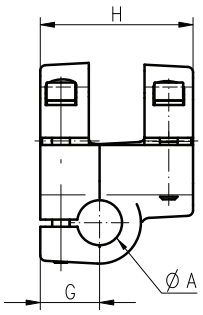
Part no.	Ø A	Ø B	C	D	E	F	(kg)
KLR-100-100	1.0“	1.0“	57	57	79	28.0	0.44
KLR-100-150	1.0“	1.5“	72	72	98	34.0	0.65
KLR-100-250	1.0“	2.5“	95	95	118	45.5	1.10
KLR-150-150	1.5“	1.5“	76	76	112	41.0	0.76
KLR-150-250	1.5“	2.5“	96	96	129	51.0	1.22
KLR-250-250	2.5“	2.5“	99	99	147	61.0	1.63

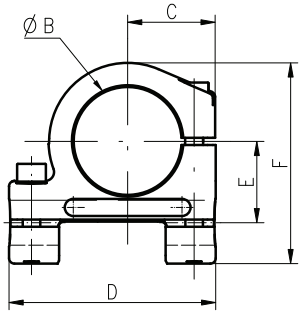
KLR-25-25	25	25	57	57	79	28.0	0.44
KLR-25-40	25	40	72	72	98	34.0	0.65
KLR-25-60	25	60	95	95	118	45.5	1.10
KLR-40-40	40	40	76	76	112	41.0	0.76
KLR-40-60	40	60	96	96	129	51.0	1.22
KLR-60-60	60	60	99	99	147	61.0	1.63

Clamp block, opten type



Mat.: Aluminium





Part no.	Ø A	Ø B	C	D	E	F	G	H	(kg)
KLO-100-100	1.0“	1.0“	30	70	28	79.5	33	66	0.44
KLO-100-150	1.0“	1.5“	49	100	35	89	33	85	0.65
KLO-100-250	1.0“	2.5“	49	115	45.5	112	33	85	1.10
KLO-150-150	1.5“	1.5“	49	100	45.5	107	42.5	85	0.76
KLO-150-250	1.5“	2.5“	49	115	52.7	124	42.5	85	1.22
KLO-250-250	2.5“	2.5“	53	119	65	152	53	112	1.63

KLO-25-25	25	25	30	70	28	79.5	33	66	0.44
KLO-25-40	25	40	49	100	35	89	33	85	0.73
KLO-25-60	25	60	49	115	45.5	112	33	85	0.92
KLO-40-40	40	40	49	100	45.5	107	42.5	85	0.44
KLO-40-60	40	60	49	115	52.7	124	42.5	85	0.70
KLO-60-60	60	60	53	119	65	152	53	112	1.60

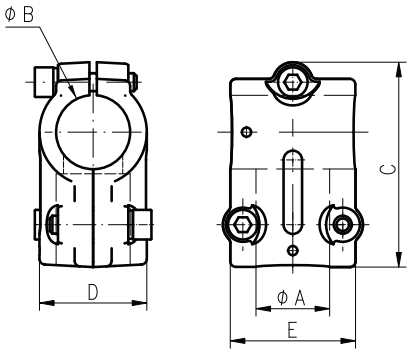
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Clamp collar, T-version, split type



Mat.: Aluminium

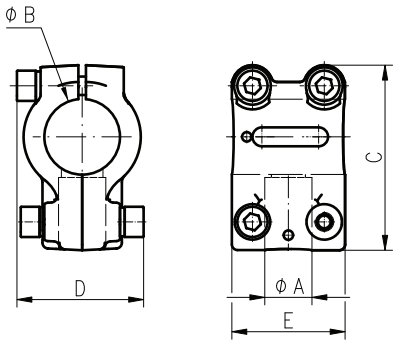


Part no.	Ø A	Ø B	C	D	E	(kg)
TKR-100-100	1.0“	1.0“	77	57	58	0.25
TKR-100-250	1.0“	2.5“	115	79	59	0.50
TKR-150-100	1.5“	1.0“	102	65	75	0.46
TKR-150-150	1.5“	1.5“	111	63	76	0.54
TKR-16-16	16	16	47	32	36	0.05
TKR-25-25	25	25	77	57	58	0.25
TKR-25-60	25	60	115	79	59	0.50
TKR-40-25	40	25	102	65	75	0.46
TKR-40-40	40	40	111	63	76	0.54

Clamp collar, T-version, split type



Mat.: Aluminium



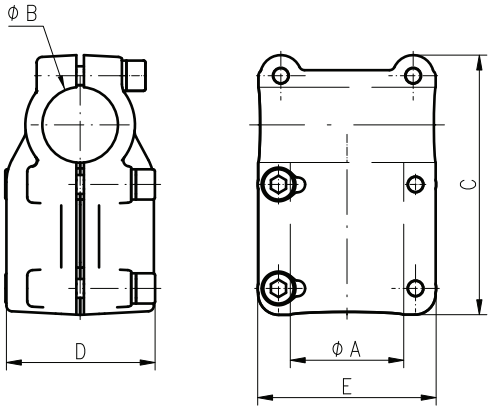
Part no.	Ø A	Ø B	C	D	E	(kg)
TKR-100-150	1.0“	1.5“	97	64	60	0.50
TKR-150-250	1.5“	2.5“	125	78	76	0.82
TKR-25-40	25	40	97	64	60	0.50
TKR-40-60	40	60	125	78	76	0.82

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Clamp collar, T-version, split type



Mat.: Aluminium



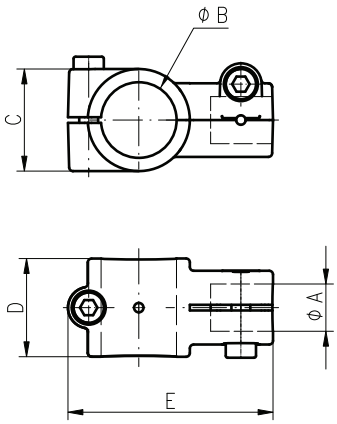
Part no.	Ø A	Ø B	C	D	E	(kg)
TKR-250-100	2.5“	1.0“	125	79	94	0.67
TKR-250-150	2.5“	1.5“	137	78	94	0.72
TKR-250-250	2.5“	2.5“	160	79	94	1.166

TKR-25-40-A	25	40	148	64	60	0.67
TKR-60-25	60	25	125	79	94	0.67
TKR-60-40	60	40	137	78	94	0.72
TKR-60-60	60	60	160	79	94	1.16

Clamp collar, T-version



Mat.: Aluminium



Part no.	Ø A	Ø B	C	D	E	(kg)
TK-100-100	1.0“	1.0“	38	38	95.0	0.26
TK-100-150	1.0“	1.5“	52	54	108.0	0.34
TK-150-100	1.5“	1.0“	39	54	113.0	0.28
TK-150-150	1.5“	1.5“	54	54	126.5	0.45

TK-25-25	25	25	38	38	95.0	0.26
TK-25-40	25	40	52	54	108.0	0.34
TK-40-25	40	25	39	54	113.0	0.28
TK-40-40	40	40	54	54	126.5	0.45

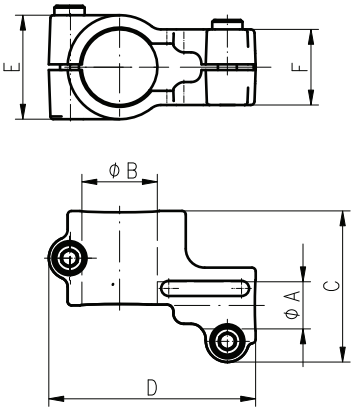
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Clamp block for boom extension



Mat.: Aluminium

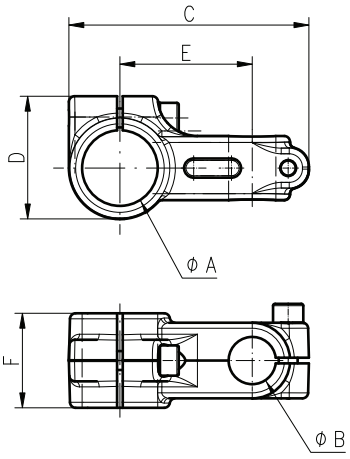


Part no.	Ø A	Ø B	C	D	E	F	(kg)
TK-100-150-O	1.0"	1.5"	80.0	109.5	55	50	0.38
TK-25-40-O	25	40	80.0	109.5	55	50	0.38
TK-25-300-O	25	76.2	80.0	150.5	94	55	0.68
TK-40-300-O	40	76.2	88.5	169.5	94	55	0.69

Cross clamp



Mat.: Aluminium



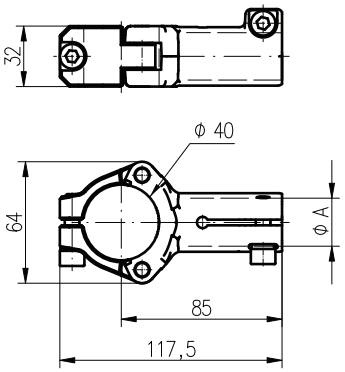
Part no.	Ø A	Ø B	C	D	E	F	(kg)
KK-100-100	1.0"	1.0"	87	52	35	40	0.227
KK-150-100	1.5"	1.0"	127	65	70	50	0.407
KK-16-16	16	16	49	22	17	22	0.026
KK-25-25	25	25	87	52	35	40	0.227
KK-40-25	40	25	127	65	70	50	0.407
KK-40-40	40	40	133	63	70	50	0.30

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Clamp collar, T-version



Mat.: Aluminium

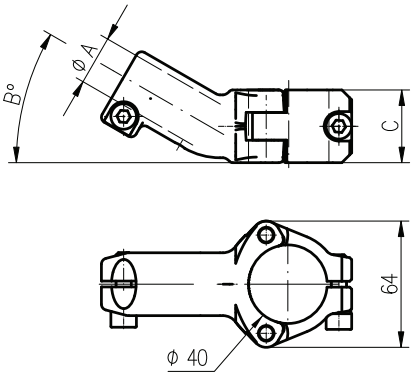


Part no.	Ø A	(kg)
TKA-20-2Z40-70	20	0.256
TKA-25-2Z40-70	25	0.257

Clamp collar, T-version



Mat.: Aluminium

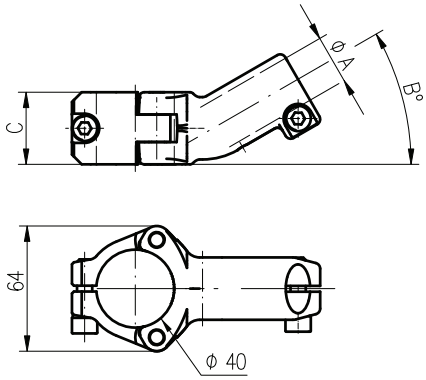


Part no.	Ø A	B°	C	(kg)
TKA-20-2Z40-W30-L	20	30°	32	0.205
TKA-25-2Z40-W30-L	25	30°	37	0.240
TKA-20-2Z40-W45-L	20	45°	32	0.210
TKA-25-2Z40-W45-L	25	45°	37	0.240

Clamp collar, T-version



Mat.: Aluminium



Part no.	Ø A	B°	C	(kg)
TKA-20-2Z40-W30-R	20	30°	32	0,205
TKA-25-2Z40-W30-R	25	30°	37	0,240
TKA-20-2Z40-W45-R	20	45°	32	0,210
TKA-25-2Z40-W45-R	25	45°	37	0,240

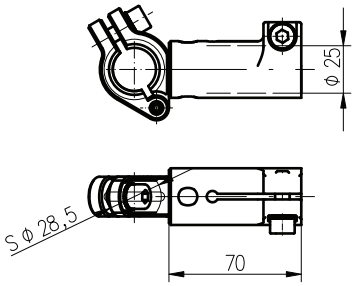
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Clamp collar



Mat.: Aluminium

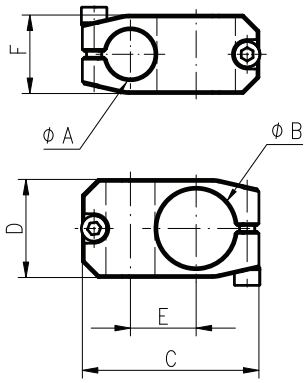


Part no.	(kg)
TKA-25-K28-70	0.12

Cross clamp



Mat.: Aluminium

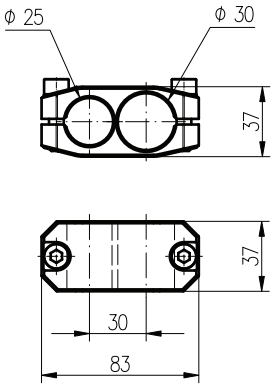


Part no.	Ø A	Ø B	C	D	E	F	(kg)
KKA-20-20	20	20	65	27	21	27	0.10
KKA-20-40	20	40	85	47	31	40	0.11
KKA-19-25	19	25	67.5	30	23	30	0.10
KKA-25-25	25	25	75	32	26.0	32	0.10
KKA-25-30	25	30	80	37	28.5	32	0.11
KKA-25-40	25	25	90	50	33.5	40	0.23
KKA-30-30	30	30	85	37	31	37	0.13

Parallel clamp



Mat.: Aluminium



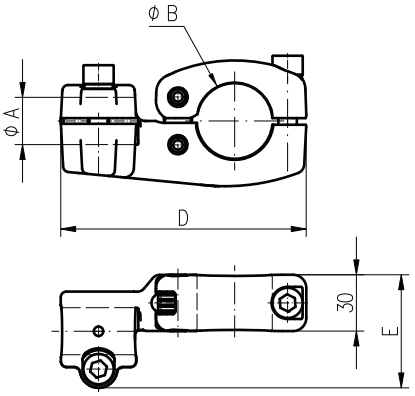
Part no.	(kg)
PKA-25-30	0.18

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T-clamp collar, with split clip



Mat.: Aluminium

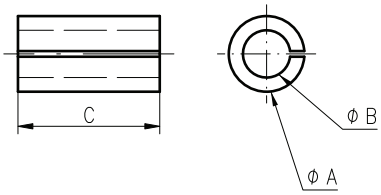


Part no.	Ø A	Ø B	C	D	E	(kg)
KLH-100-150	1.0“	1.5“	66.5	130	60.0	0.47
KLH-100-250	1.0“	2.5“	90.0	153	54.5	0.58
KLH-150-250	1.5“	2.5“	91.0	153	60.0	0.63
KLH-25-40	25	40	66.5	130	60.0	0.47
KLH-25-60	25	60	90.0	153	54.5	0.58
KLH-40-60	40	60	91.0	153	60.0	0.63

Reducer bush



Mat.: Aluminium



Part no.	Ø A	Ø B	C	(kg)
CB-150-100	1.5“	1.0“	76	0.16
CB-250-150	2.5“	1.5“	102	0.22
CB-40-25	40	25	76	0.16
CB-4445-40	44.45	40	38	0.22
CB-50-40	50	40	102	0.22
CB-60-40	60	40	102	0.43
CB-60-50	60	50	102	0.25

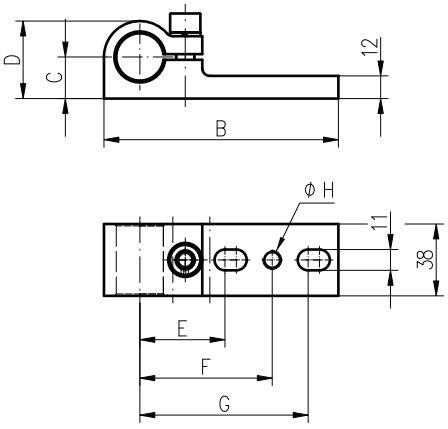
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Base clamp collar



Mat.: Aluminium



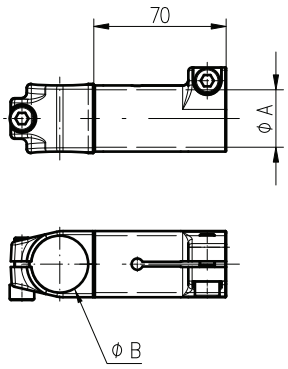
Part no.	Ø A	B	C	D	E	F	G	(kg)
BK-00-100	1.0“	125	22	41	45	-	89	0.24
BK-00-150	1.5“	138	29	56	45	-	96.5	0.29

BK-00-25	25	125	22	41	45	-	89	0.24
BK-00-25-M8	25	125	22	41	45	70	89	0.23
BK-00-25-M10	25	125	22	41	45	70	89	0.23
BK-00-40	40	138	29	56	46.5	-	96.5	0.29

Clamp collar



Mat.: Steel



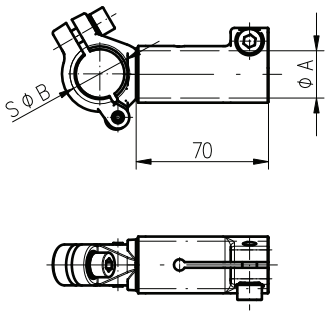
Part no.	Ø A	Ø B	(kg)
TKS-25-25-70	25	25	0.22
TKS-30-30-70	30	30	0.36

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T-clamp collar



Mat.: Steel

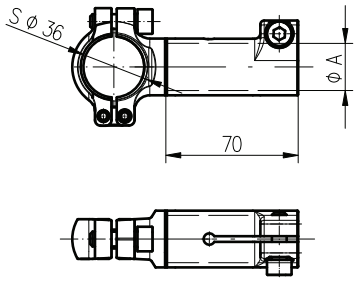


Part no.	Ø A	SØ B	(kg)
TKS-20-K28-70	20	28.5	0.23
TKS-20-K32-70	20	32.0	0.24
TKS-25-K28-70	25	28.5	0.40
TKS-25-K32-70	25	32.0	0.34

T-clamp collar



Mat.: Steel

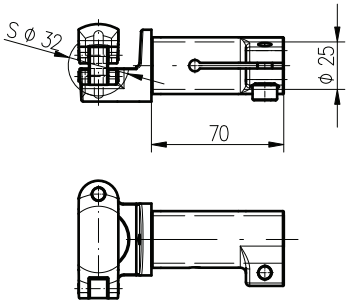


Part no.	Ø A	(kg)
TKS-20-K36-70	20	0.28
TKS-25-K36-70	25	0.38
TKS-30-K28-70	30	0.39

T-clamp collar



0.40 kg
Mat.: Steel



Part no.
TKS-00-25-K32-70

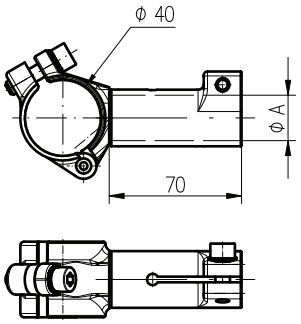
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T-clamp collar



Mat.: Steel

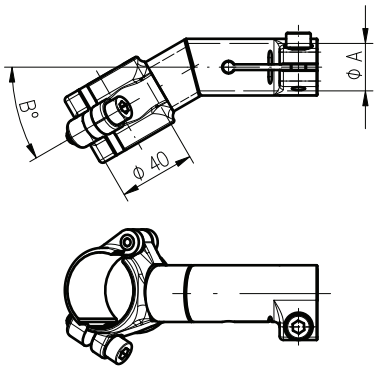


Part no.	Ø A	(kg)
TKS-20-Z40-70	20	0.30
TKS-25-Z40-70	25	0.32
TKS-30-Z40-70	30	0.36

T-clamp collar



Mat.: Steel

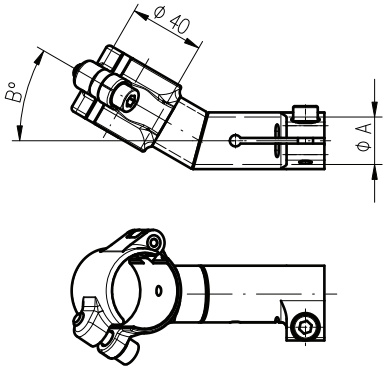


Part no.	Ø A	B°	(kg)
TKS-20-Z40-W30-L	20	30	0.38
TKS-25-Z40-W30-L	25	30	0.38
TKS-20-Z40-W45-L	20	45	0.38
TKS-25-Z40-W45-L	25	45	0.38

T-clamp collar



Mat.: Steel



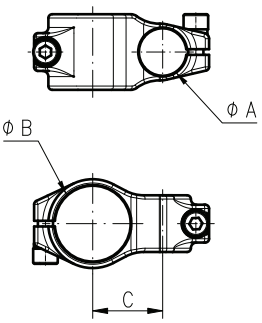
Part no.	Ø A	B°	(kg)
TKS-20-Z40-W30-R	20	30	0.38
TKS-25-Z40-W30-R	25	30	0.38
TKS-20-Z40-W45-R	20	45	0.38
TKS-25-Z40-W45-R	25	45	0.38

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Cross clamp



Mat.: Steel

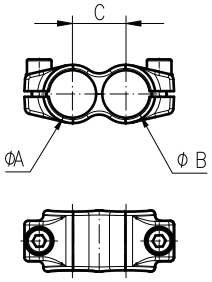


Part no.	Ø A	Ø B	C	(kg)
KKS-20-150	20	1.5“	37	0.28
KKS-16-16	16	16	18	0.06
KKS-20-20	20	20	22.5	0.14
KKS-20-25	20	25	25.5	0.18
KKS-20-30	20	30	28	0.20
KKS-20-40	20	40	37	0.28
KKS-25-25	25	25	27.5	0.20
KKS-25-30	25	30	29.7	0.22
KKS-25-40	25	40	31	0.26
KKS-25-50	25	50	38.5	0.40
KKS-25-60	25	60	32	0.50
KKS-30-30	30	30	32	0.28
KKS-40-40	40	40	47.5	0.41
KKS-40-50	40	50	44	0.40

Parellel clamp



Mat.: Steel



Part no.	Ø A	Ø B	C	(kg)
PKS-20-20	20	20	22.5	0.14
PKS-20-30	20	30	28	0.16
PKS-25-25	25	25	28.35	0.20
PKS-30-30	30	30	32	0.21

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Edition 01/2013

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Boom & extension stock

Picture	Designation	Page
	Aluminium tubing	113
	Aluminium bar	113
	Carbon fiber tube	114
	Steel tube	114
	Aluminium tube for GSWE	115
	Boom with air supply	115
	Plastic cover	116
	Finger plate adapters	116
	Finger plate adapters	117
	Transfer press adapters	117
	Transfer press adapters	118
	Transfer press adapters	118
	Transfer press adapters	119
	Transfer press adapters	119
	Transfer press adapters	120
	Transfer press adapters	120

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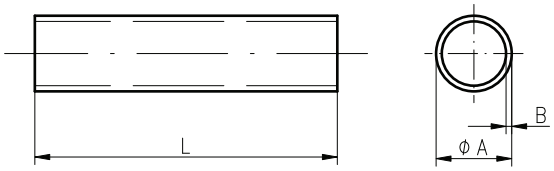
Picture	Designation	Page
	Support for idle station	121
	Support for template mount	121
	Centering pin	122
	Centering pin	122
	GT press adapter	123
	Carrier tube for ISI 4-pin adapter	123

Subject to modification
Edition 01/2013

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Aluminium tubing





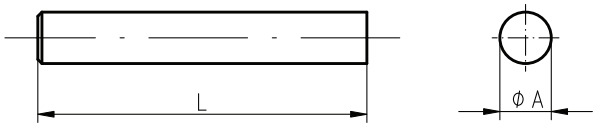
Mat.: Aluminium

Ordering information		e.g.: PAT-150-150 / PAT-40x3-150
PAT	-AxB	-L
	Diameter x wall thickness	Length
	↓	↓
	100 (1.0“ x 0.25“)	150 - 6000 (25 mm increments)
	150 (1.5“ x 0.18“)	
	150 (1.5“ x 0.25“)	
	250 (2.5“ x 0.25“)	
	16 x 3	
	25 x 5	
	40 x 3	
	40 x 6	
	60 x 5	
	60 x 6	
	60 x 8	

Part no.	kg/m
PAT-100x0.25	0.99
PAT-150x0.18	1.73
PAT-150x0.25	1.82
PAT-250x0.25	1.35
PAT-16x3	0.349
PAT-25x5	0.895
PAT-40x3	1.143
PAT-40x6	1.826
PAT-60x5	2.461
PAT-60x6	2.899
PAT-60x8	3.723

Aluminium bar





1.389 kg/m
Mat.: Aluminium

Ordering information		e.g.: PAB-100-150 / PAB-25-150
PAB	-A	-L
	Diameter	Length
	↓	↓
	100 (1.0“)	150 - 3000 (25 mm increments)
	25	

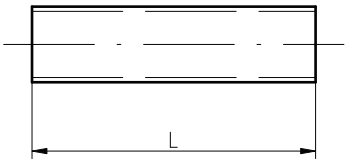
Part no.	kg/m
PAB-100	1.398
PAB-25	1.398

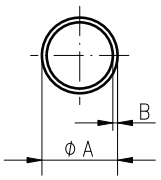
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Carbon fiber tube



Mat.: Carbon





Ordering information		e.g.: PCT-150-150 / PCT-40x5-150
PCT	-AxB	-L
	Diameter x wall thickness	Length
↓	↓	↓
	100 (1.0“ x 0.25“)	150 - 1200 (50 mm increments)
	150 (1.5“ x 0.25“)	150 - 3000 (50 mm increments)
	250 (2.5“ x 0.25“)	150 - 3000 (50 mm increments)
	25 x 5	150 - 6000 (50 mm increments)
	40 x 5	150 - 6000 (50 mm increments)
	60 x 5	150 - 6000 (50 mm increments)

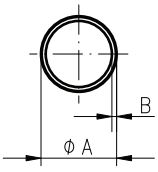
Part no.	(kg)
PCT-100	0.37
PCT-150	0.71
PCT-250	1.35
PCT-25x5	0.37
PCT-40x5	0.71
PC T-60x5	1.35

Steel tube



Mat.: Steel





Ordering information		e.g.: PAT-150-150 / PAT-40x3-150
PST	-AxB	-L
	Diameter x wall thickness	Length
↓	↓	↓
	16 x 2.5	150 - 6000 (25 mm increments)
	20 x 1.5	
	20 x 2.5	
	25 x 1.5	
	25 x 2.5	
	30 x 2.5	
	40 x 2.5	
	60 x 3.0	

Part no.	(kg)
PST-16 x 2.5	0.83
PST-20 x 1.5	0.68
PST-20 x 2.5	1.08
PST-25 x 1.5	0.87
PST-25 x 2.5	1.39
PST-30 x 2.5	1.69
PST-40 x 2.5	2.30
PST-60 x 3.0	4.20

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Edition 01/2013

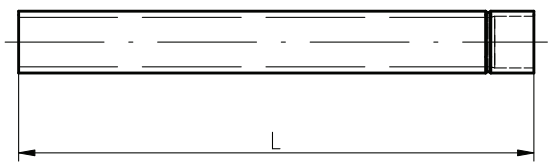
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Boom & extension stock

Aluminium tube for GSWE



Mat.: Aluminium



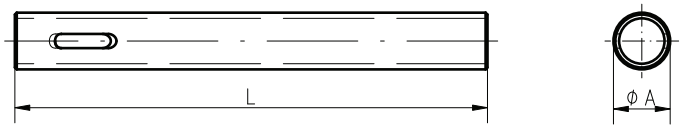
Ordering information	e.g.: GSWE-PAT-60x5-1000	
GSWE-PAT	-A x B	-L
	Diameter	Length
	↓	↓
	60 x 5	150 - 6000 (100 mm Stufung)
	60 x 6	
	60 x 8	

Part no.	kg/m
GSWE-PAT-60x5	2.461
GSWE-PAT-60x6	2.899
GSWE-PAT-60x8	3.723

Boom with air supply



Mat.: Aluminium



Ordering information	e.g.: BT1-40-7S-1000	
ABT1	-A	-L
	Diameter	Length
	↓	↓
	150 (1.5“)	150 - 3000 (150mm increments)
	250 (2.5“)	

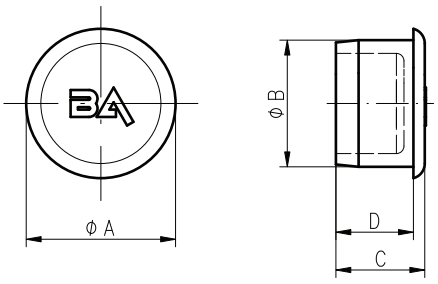
Ordering information	e.g.: BT1-40-7S-1000	
BT1	-A	-L
	Diameter	Length
	↓	↓
	40-7S	150 - 3000 (150mm increments)
	60-6S	

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Plastic cover



Mat.: Plastic

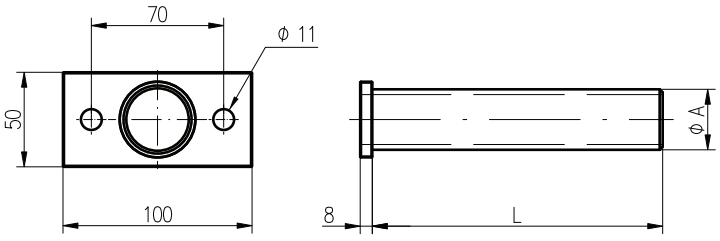


Part no.	Ø A	Ø B	C	D	(kg)
KAB-16x3	16	9.5	13.5	12.0	0.002
KAB-25x5	25	14.5	15.0	13.0	0.003
KAB-40x3	40	34.5	20.5	23.5	0.011
KAB-40x6	40	27.5	20.5	23.5	0.009
KAB-60x5	60	49.5	20.0	23.0	0.020
KAB-60x6	60	47.5	20.0	23.0	0.019

Finger plate adapters



Mat.: Aluminium



Ordering information		e.g.: STA-15-40-200
STA-15	-A	-L
	Diameter	Length
	↓	↓
	25	100 - 500 (50mm increments)
	40	Other lengths upon request

Subject to modification
Edition 01/2013

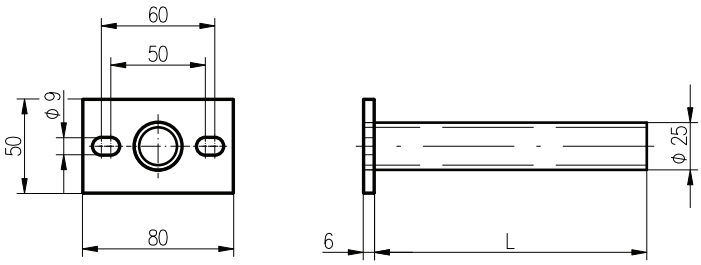
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Boom & extension stock

Finger plate adapters



Mat.: Steel



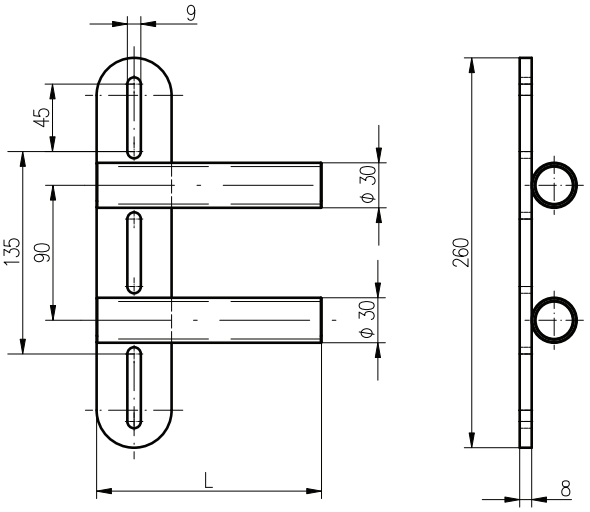
Ordering information	e.g.: STS-S-00-25-200
STS-S-00-25	-L
	Length
	↓
	100 - 500 (50mm increments)

Other lengths upon request

Transfer press adapters



Mat.: Steel



Ordering information	e.g.: ITS-90-30-30-150
ITS-90-30-30	-L
	Length
	↓
	100 - 300 (50mm increments)

Other lengths upon request

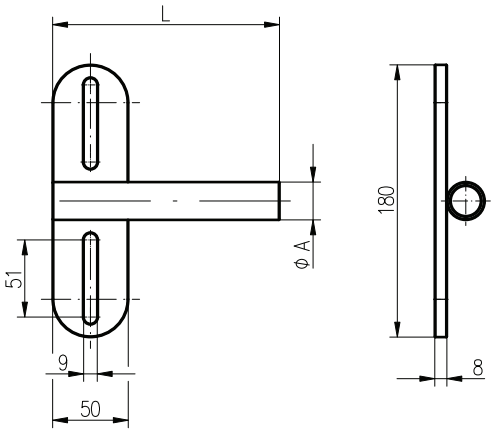
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Transfer press adapters



Mat.: Steel

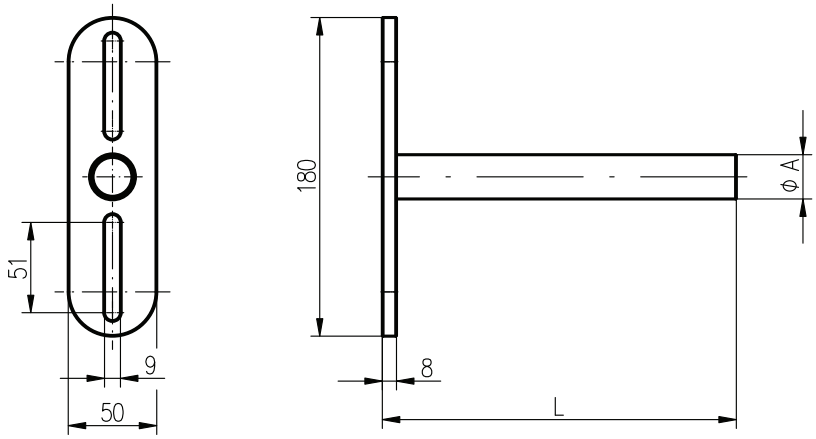


Ordering information			e.g.: ITS-25-90-150
ITS-	-A	-90	-L
	Diameter		Length
	↓		↓
	20		100 - 400 (50mm increments)
	25		Other lengths upon request
	30		

Transfer press adapters



Mat.: Steel



Ordering information			e.g.: ITS-25-00-150
ITS-	-A	-00	-L
	Diameter		Length
	↓		↓
	20		100 - 500 (50mm increments)
	25		
	30		

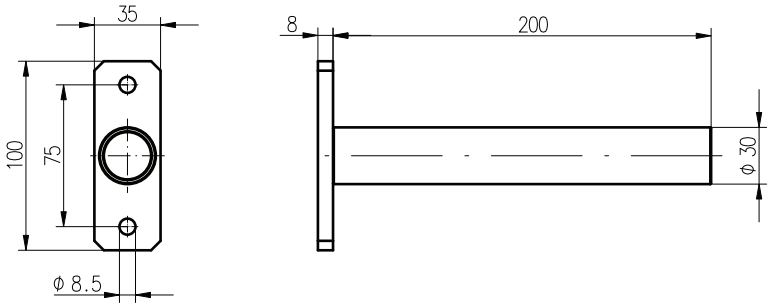
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Transfer press adapters



Mat.: Steel

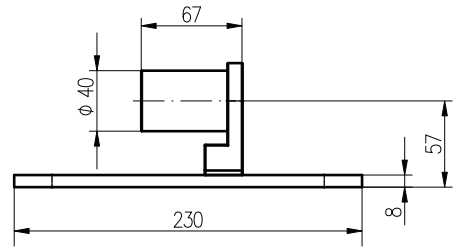


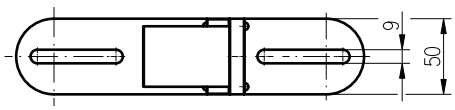
Part no.
ITS-00-35-30-200

Transfer press adapters



1.23 kg
Mat.: Steel





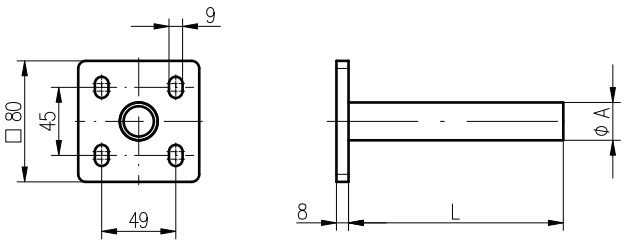
Part no.
ITS-40-LR-230

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Transfer press adapters



Mat.: Steel

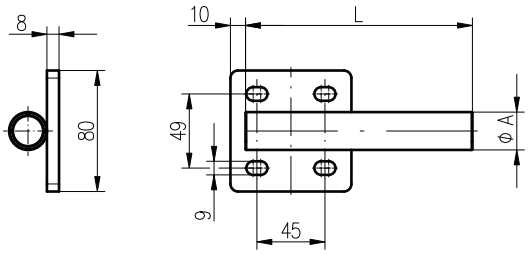


Ordering information		e.g.: STS-00-25-150-GD
STS-00	-A	-L
	Diameter	Length
	↓	↓
	16	100 - 400 (50mm increments)
	20	
	25	
	30	

Transfer press adapters



Mat.: Steel



Ordering information		e.g.: STS-90-25-150-GD
STS-90	-A	-L -GD
	Diameter	Length
	↓	↓
	16	100 - 400 (50mm increments)
	20	
	25	
	30	

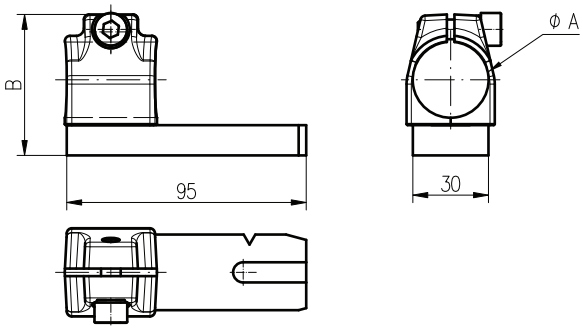
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Support for idle station



Mat.: Steel

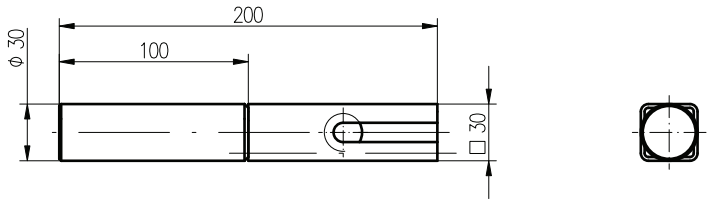


Part no.	Ø A	B	(kg)
BKS-00-25	25	52.5	0.37
BKS-00-30	30	56.0	0.40

Support for template mount



0.82 kg
Mat.: Aluminium



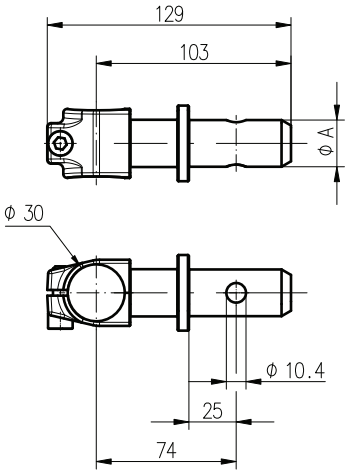
Part no.
ITA-00-30-30-100

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Centering pin



Mat.: Steel

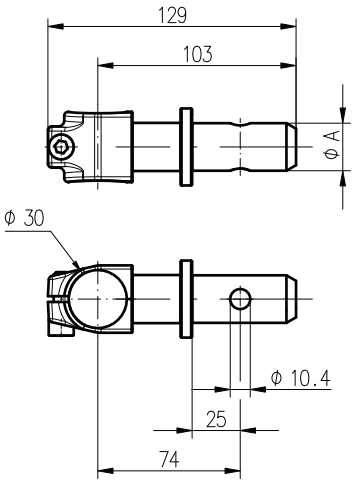


Part no.	Ø A	(kg)
BKS-00-30-20	19.7	0.41
BKS-00-30-25	24.7	0.47

Centering pin



Mat.: Steel



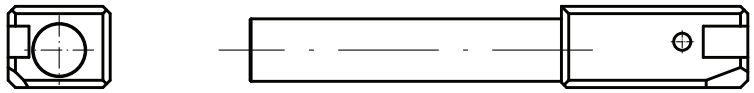
Part no.	Ø A	(kg)
BKS-90-30-20	19.7	0.41
BKS-90-30-25	24.7	0.47

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Edition 01/2013

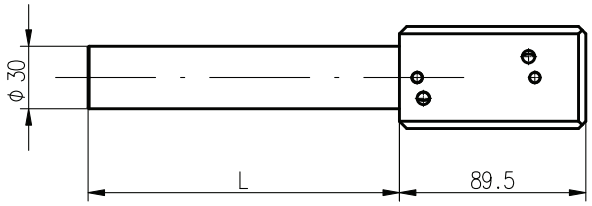
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GT press adapter





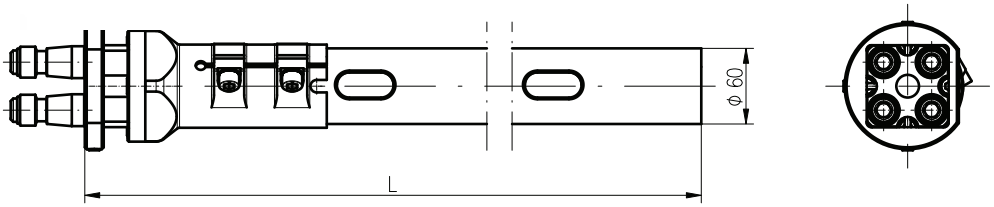
Mat.: Steel



Part no.	L	(kg)
ITA-30-39-90-100	100	1.09
ITA-30-39-90-150	150	1.18
ITA-30-39-90-200	200	1.26

Carrier tube for ISI 4-pin adapter





Ordering information	e.g.: ISI-4S-60-1000
ISI-4S-60	-L
	Length
	↓
	400 -1500 (100mm increments)

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Notes

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Swivel & extension arms

Picture	Designation	Page
	Extension with end clamp	127
	Extension with end clamp	127
	Extension with end clamp	128
	Extension with end clamp collar	128
	Extension with end clamp collar	129
	Swivel arm threaded at both ends	129
	Swivel arm threaded at both ends	130
	Swivel arm threaded at both ends	131
	Swivel arm with through bolt	132
	Swivel arm with through bolt	133
	Swivel arm with through bolt	134
	Swivel arm with through bolt	134
	Extension, threaded at one end and adapter	135
	Extension with end clamp collar	135
	Extension, threaded at one end	136
	Extension, threaded at one end	136

Subject to modification
Edition **01/2013**

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Picture	Designation	Page
	Extension, threaded at one end plug-in type	137
	Extension, threaded at boths end	137
	Extension, threaded at both ends	137
	Extension with through hole	138
	Extension with through hole	138
	Extension, with thread	139
	Extension, with thread	139
	End clamp collar, with bore	140
	End clamp collar, with bore	140
	End clamp collar, with split clip	141
	End clamp collar, with split clip	141
	Single end extension, 90°	142
	Single end extension, with split clip	142
	Single end extension, with split clip	143
	Single end extension, with split clip	143

Subject to modification
Edition 01/2013

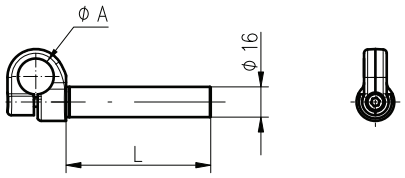
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Swivel & extension arms

Extension with end clamp



Mat.: Aluminium



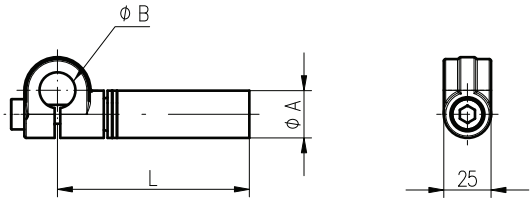
Part no.	Ø A
ES16-16-*	16
ES16-19-*	19
ES16-20-*	20
ES16-25-*	25

Ordering information		e.g.: ES16-19-150
ES16	-B	-L
	Diameter	*Length
	↓	↓
	16	25, 50 - 350 (25 mm increments)
	19	
	20	
	25	

Extension with end clamp



Mat.: Aluminium



Part no.	Ø A	Ø B
ES100-75-*	1.0“	0.75“
ES100-100-*	1.0“	1.0“
ES100-150-*	1.0“	1.5“
ES100-250-*	1.0“	2.5“

Part no.	Ø A	Ø B
ES25-19-*	25	19
ES25-25-*	25	25
ES25-40-*	25	40
ES25-60-*	25	60
ES25-19-M8-*	25	19
ES25-25-M8-*	25	25

Ordering information		e.g.: ES100-100-200
ES100	-B	-L
	Diameter	*Length
	↓	↓
	75	200
	100	400
	150	600
	250	other lengths upon request

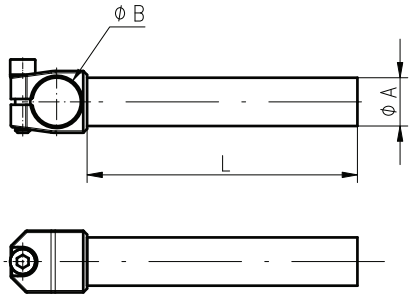
Ordering information		e.g.: ES25-100-200
ES25	-B	-L
	Diameter	*Length
	↓	↓
	75	200
	100	400
	150	600
	250	other lengths upon request

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Extension with end clamp



Mat.: Aluminium



Part no.	Ø A	Ø B
ESA-90-25-25-*	25	25
ESA-90-30-30-*	30	30

Ordering information e.g.: ESA-90-25-100-200

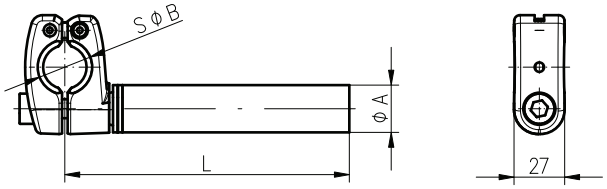
ESA-90	-A	-B	-L
	Diameter	Diameter	*Length
	↓	↓	↓
	25	25	200
	30	30	400
			600

other lengths upon request

Extension with end clamp collar



Mat.: Aluminium



Part no.	Ø A	SØ B
ES100-K28-*	1.0“	28.5
ES100-K32-*	1.0“	32.0

Part no.	Ø A	SØ B
ES25-K28-*	25	28.5
ES25-K32-*	25	32.0

Ordering information e.g.: ES100-K28-200

ES100	-A	-L
	Diameter	*Length
	↓	↓
	K28	200
	K32	400
		600

other lengths upon request

Ordering information e.g.: ES25-K28-200

ES25	-A	-L
	Diameter	*Length
	↓	↓
	K28	200
	K32	400
		600

other lengths upon request

Subject to modification
Edition 01/2013

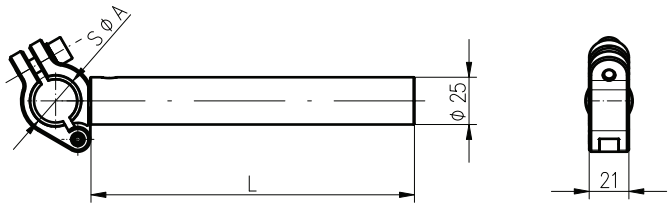
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Swivel & extension arms

Extension with end clamp collar



Mat.: Aluminium



Part no.	SØ A
ESA-90-25-K28-*	28.5
ESA-90-25-K32-*	32.0

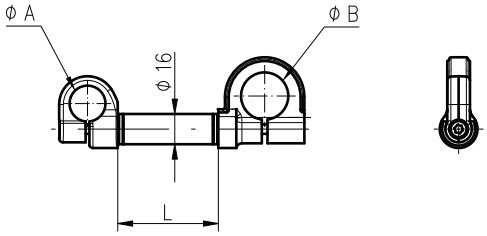
Ordering information		e.g.: ESA-90-25-K28-200
ESA-90-25	-A	-L
	Diameter	*Length
	↓	↓
	K28	200
	K32	400
		600

other lengths upon request

Swivel arm threaded at both ends



Mat.: Aluminium



Part no.	Ø A	Ø B
ED16-16-16-*	16	16
ED16-16-19-*	16	19
ED16-16-20-*	16	20
ED16-16-25-*	16	25
ED16-20-20-*	20	20
ED16-20-25-*	25	25
ED16-25-16-*	25	16
ED16-25-19-*	25	19
ED16-25-20-*	25	20

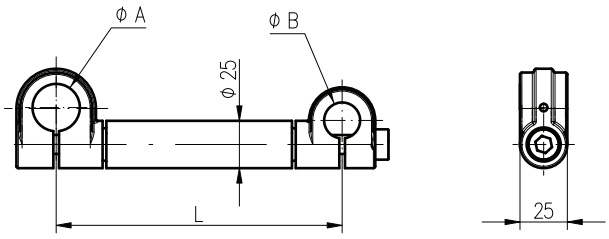
Ordering information		e.g.: ED25-19-150-200
ED16	-A-B	-L
	Diameter	*Length
	↓	↓
	16-16	25, 50 - 350 (25 mm increments)
	16-19	
	16-20	
	16-25	
	20-20	
	20-25	
	25-16	
	25-19	
	25-20	

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Swivel arm threaded at both ends



Mat.: Aluminium



Part no.	Ø A	Ø B
ED100-100-75-*	1.0“	0.75“
ED100-100-100-*	1.0“	1.0“
ED100-150-75*	1.5“	0.75“
ED100-150-100-*	1.5“	1.0“
ED100-150-150-*	1.5“	1.5“
ED100-250-75-*	2.5“	0.75“
ED100-250-100-*	2.5“	1.0“
ED100-250-150-*	2.5“	1.5“

Part no.	Ø A	Ø B
ED25-25-19-*	25	19
ED25-25-25-*	25	25
ED25-40-19-*	40	19
ED25-40-25-*	40	25
ED25-40-40-*	40	40
ED25-60-19-*	60	19
ED25-60-25-*	60	25
ED25-60-40-*	60	40

Ordering information		e.g.: ED100-100-150-200
ED100	-A-B	-L
	Diameter	*Length
	↓	↓
	100-75	75 - 400 (25 mm increments)
	100-100	
	150-75	
	150-100	
	150-150	
	250-75	
	250-100	
	250-150	

Ordering information		e.g.: ED25-19-150-200
ED25	-A-B	-L
	Diameter	*Length
	↓	↓
	25-19	75 - 400 (25 mm increments)
	25-25	
	40-19	
	40-25	
	40-40	
	60-19	
	60-25	
	60-40	

Subject to modification
Edition 01/2013

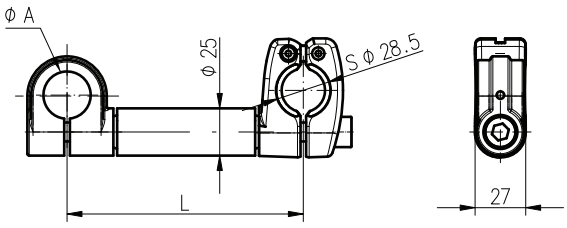
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Swivel & extension arms

Swivel arm threaded at both ends



Mat.: Aluminium



Part no.	Ø A
ED100-100-K28-*	1.0“
ED100-150-K28-*	1.5“

Part no.	Ø A
ED25-25-K28-*	25
ED25-40-K28-*	40

Ordering information e.g.: ED100-100-K28-200

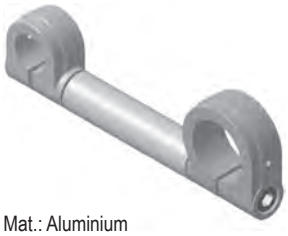
ED100	-A	-K28	-L
	Diameter		*Length
	↓		↓
	100		75 - 400 (25 mm increments)
	150		

Ordering information e.g.: ED25-25-K28-200

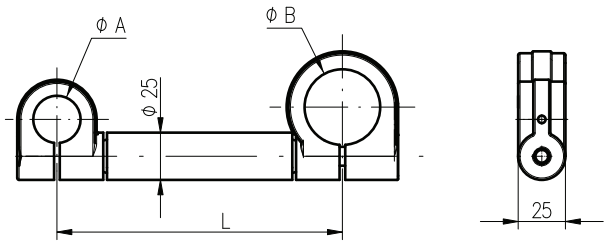
ED25	-A	-K28	-L
	Diameter		*Length
	↓		↓
	25		75 - 400 (25 mm increments)
	40		

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Swivel arm with through bolt



Mat.: Aluminium



Part no.	Ø A	Ø B
SA100-75-100-*	0.75“	1.0“
SA100-75-150-*	0.75“	1.5“
SA100-100-75-*	1.0“	0.75“
SA100-100-100-*	1.0“	1.0“
SA100-100-150-*	1.0“	1.5“
SA100-150-75*	1.5“	0.75“
SA100-150-100-*	1.5“	1.0“
SA100-150-150-*	1.5“	1.5“

Part no.	Ø A	Ø B
SA25-19-20-*	19	20
SA25-19-25-*	19	25
SA25-19-40-*	19	40
SA25-20-19-*	20	19
SA25-20-40-*	20	40
SA25-25-19-*	25	19
SA25-25-25-*	25	25
SA25-25-40-*	25	40
SA25-40-19-*	40	19
SA25-40-20-*	40	20
SA25-40-25-*	40	25
SA25-40-40-*	40	40

Ordering information		e.g.: SA100-100-150-200
SA100	-A-B	-L
	Diameter	*Length
	↓	↓
	75-100	75 - 200 (25 mm increments)
	75-150	
	100-75	
	100-100	
	100-150	
	150-75	
	150-100	
	150-150	

Ordering information		e.g.: SA25-25-40-200
SA25	-A-B	-L
	Diameter	*Length
	↓	↓
	19-20	75- 200 (25 mm increments)
	19-25	
	19-40	
	20-19	
	20-40	
	25-19	
	25-25	
	25-40	
	40-19	
	40-20	
	40-25	
	40-40	

Subject to modification
Edition 01/2013

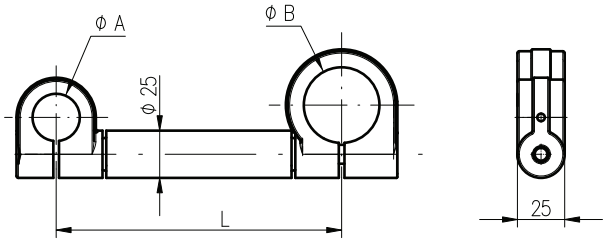
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Swivel & extension arms

Swivel arm with through bolt



Mat.: Aluminium



Part no.	Ø A	Ø B
SA100-75-250-*	0.75“	2.5“
SA100-100-250*	1.0“	2.5“
SA100-150-250-*	1.5“	2.5“
SA100-250-75-*	2.5“	0.75“
SA100-250-100-*	2.5“	1.0“
SA100-250-150-*	2.5“	1.5“

Part no.	Ø A	Ø B
SA25-19-60-*	19	60
SA25-25-60-*	25	60
SA25-40-60-*	40	60
SA25-60-19-*	60	19
SA25-60-25-*	60	25
SA25-60-40-*	60	40

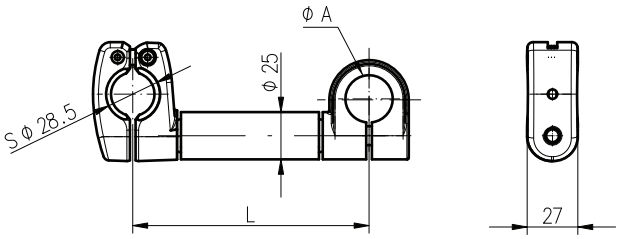
Ordering information		e.g.: SA100-100-250-200
SA100	-A-B	-L
	Diameter	*Length
	↓	↓
	75-250	75 (L = 80 mm)
	100-250	100 (L = 105 mm)
	150-250	125 (L = 130 mm)
	250-75	150 (L = 155 mm)
	250-100	175 (L = 180 mm)
	250-150	200 (L = 205 mm)

Ordering information		e.g.: SA25-25-60-200
SA25	-A-B	-L
	Diameter	*Length
	↓	↓
	19-60	75 (L = 80 mm)
	25-60	100 (L = 105 mm)
	40-60	125 (L = 130 mm)
	60-19	150 (L = 155 mm)
	60-25	175 (L = 180 mm)
	60-40	200 (L = 205 mm)

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Swivel arm with through bolt





Mat.: Aluminium

Part no.	Ø A
SA100-100-K28-*	1.0“
SA100-150-K28-*	1.5“
SA100-250-K28-*	2.5“

Part no.	Ø A
SA25-25-K28-*	25
SA25-40-K28-*	40
SA25-60-K28-*	60

Ordering information e.g.: SA100-100-K28-200

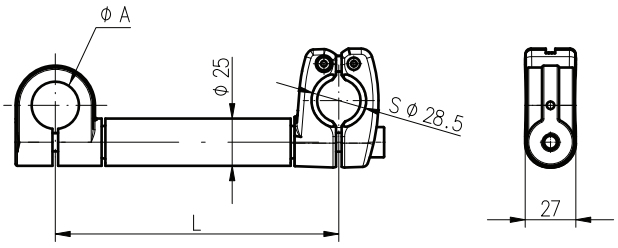
SA100	-A	-K28	-L
	Diameter		*Length
	↓		↓
	100		75 - 200 (25 mm increments)
	150		
	250		

Ordering information e.g.: SA25-25-K28-200

SA25	-A	-K28	-L
	Diameter		*Length
	↓		↓
	25		75 - 200 (25 mm increments)
	40		
	60		

Swivel arm with through bolt





Mat.: Aluminium

Part no.	Ø A
SA100-K28-100-*	1.0“
SA100-K28-150-*	1.5“
SA100-K28-250-*	2.5“

Part no.	Ø A
SA25-K28-25-*	25
SA25-K28-40-*	40
SA25-K28-60-*	60

Ordering information e.g.: SA100-K28-100-200

SA100-K28	-A	-L
	Diameter	*Length
	↓	↓
	100	75- 200 (25 mm increments)
	150	
	250	

Ordering information e.g.: SA25-K28-25-200

SA25-K28	-A	-L
	Diameter	*Length
	↓	↓
	25	75 - 200 (25 mm increments)
	40	
	60	

Subject to modification
Edition 01/2013

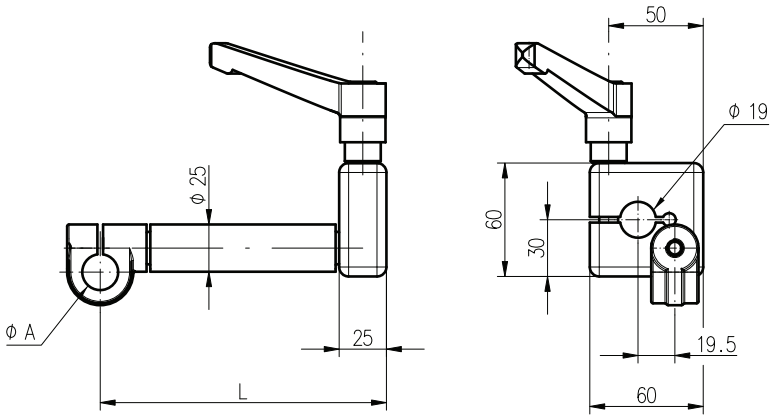
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Swivel & extension arms

Extension, threaded at one end and adapter



Mat.: Aluminium



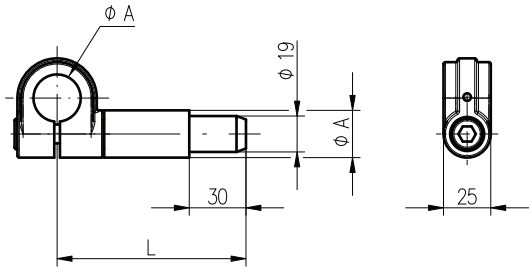
Ordering information		e.g.: ES100-75-200-L
ES100-75	-L	-
	*Length	
	↓	↓
	50 - 200 (25 mm increments)	R (Right-hand execution)
		L (Left-hand execution)

Ordering information		e.g.: ES25-19-200-L
ES25-19	-L	-
	*Length	
	↓	↓
	50 - 200 (25 mm increments)	R (Right-hand execution)
		L (Left-hand execution)

Extension with end clamp collar



Mat.: Aluminium



Part no.	Ø A
ES100-75-*-S	0.75“
ES100-100-*-S	1.0“
ES100-150-*-S	1.5“

Part no.	Ø A
ES25-19-*-S	19
ES25-25-*-S	25
ES25-40-*-S	40

Ordering information			e.g.: ES100-75-200-S
ES100	-A	-L	-S
	Diameter	*Length	
	↓	↓	↓
	75	200	Plug in type
	100	400	
	150	600	

other lengths upon request

Ordering information			e.g.: ES25-19-200-S
ES25	-A	-L	-S
	Diameter	*Length	
	↓	↓	↓
	19	200	Plug in type
	25	400	
	40	600	

other lengths upon request

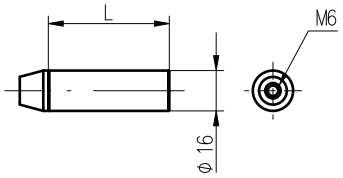
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Extension, threaded at one end



Mat.: Aluminium

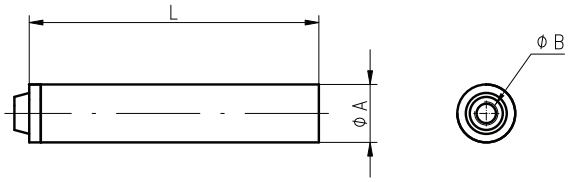


Ordering information	e.g.: SS16-100-L
SS16-T	-L
	*Length
	↓
	50 - 400 (50 mm increments)

Extension, threaded at one end



Mat.: Aluminium



Part no.	Ø A
SS100-T-L	1.0“
SS100-T-M8-L	1.0“

Part no.	Ø A
SS25-T-L	25
SS25-T-M8-L	25

Ordering information	e.g.: SS100-100-L
SS100-T SS100-T-M8-	-L
	*Length
	↓
	50 - 400 (50 mm increments)

Ordering information	e.g.: SS25-100-L
SS25-T SS25-T-M8	-L
	*Length
	↓
	50 - 400 (50 mm increments)

Subject to modification
Edition 01/2013

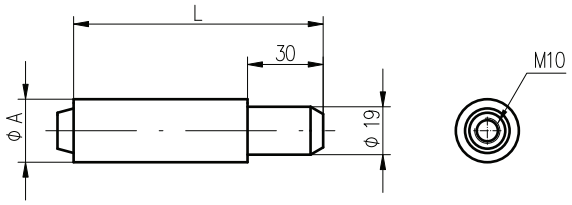
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Swivel & extension arms

Extension, threaded at one end plug-in type



Mat.: Aluminium



Part no.	Ø A
SS100-T-*	1.0“

Part no.	Ø A
SS25-T-*	25

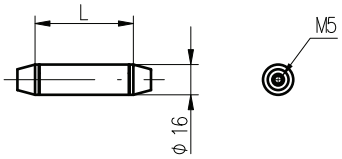
Ordering information		e.g.: SS100-T-200-S
SS100-T	-L	-S
	*Length	
	↓	↓
	75 - 275 (25 mm increments)	plug-in type

Ordering information		e.g.: SS25-T-200-S
SS25-T	-L	-S
	*Length	
	↓	↓
	75 - 275 (25 mm increments)	plug-in type

Extension, threaded at boths end



Mat.: Aluminium

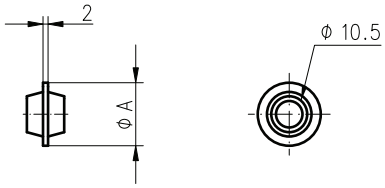


Ordering information		e.g.: DS16-100-L
DS16-T	-L	
	*Length	
	↓	
	50 - 300 (50 mm increments)	

Extension, threaded at both ends



Mat.: Aluminium



Part no.	Ø A
DS100-H-002	1.0“

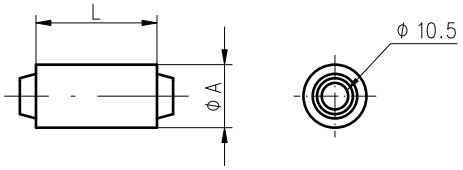
Part no.	Ø A
DS25-H-002	25

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Extension with through hole



Mat.: Aluminium



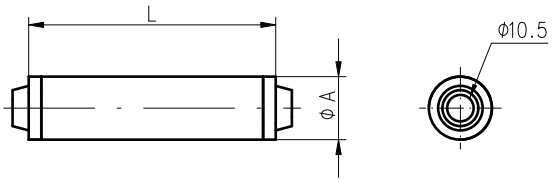
Part no.	Ø A	L
DS100-H-025	1.0“	23
DS100-H-050	1.0“	48

Part no.	Ø A	L
DS25-H-025	25	23
DS25-H-050	25	48

Extension with through hole



Mat.: Aluminium



Part no.	Ø A
DS100-H-L*	1.0“

Part no.	Ø A
DS25-H-L*	25

Ordering information	e.g.: DS100-H-200
DS100-H	-L
	*Length
	↓
	75 (L = 73 mm)
	100 (L = 98 mm)
	125 (L = 123 mm)
	150 (L = 148 mm)
	175 (L = 173 mm)
	200 (L = 198 mm)
	225 (L = 223 mm)
	250 (L = 248 mm)
	275 (L = 273 mm)
	300 (L = 298 mm)

Ordering information	e.g.: DS25-H-200
DS25-H	-L
	*Length
	↓
	75 (L = 73 mm)
	100 (L = 98 mm)
	125 (L = 123 mm)
	150 (L = 148 mm)
	175 (L = 173 mm)
	200 (L = 198 mm)
	225 (L = 223 mm)
	250 (L = 248 mm)
	275 (L = 273 mm)
	300 (L = 298 mm)

Subject to modification
Edition 01/2013

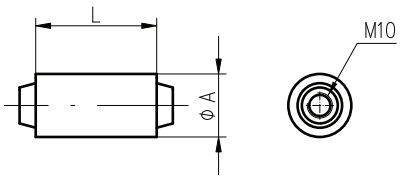
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Swivel & extension arms

Extension, with thread



Mat.: Aluminium



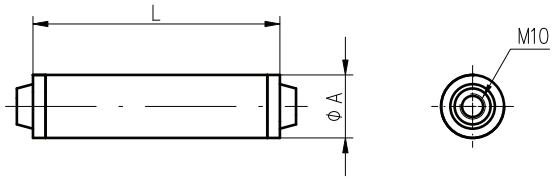
Part no.	Ø A	L
DS100-T-025	1.0“	23
DS100-T-050	1.0“	48

Part no.	Ø A	L
DS25-T-025	25	23
DS25-T-050	25	48

Extension, with thread



Mat.: Aluminium



Part no.	Ø A
DS100-T-*	1.0“

Part no.	Ø A
DS25-T-*	25

Ordering information	e.g.: DS100-T-200
DS100-T	-L
	*Length
	↓
	75 (L = 73 mm)
	100 (L = 98 mm)
	125 (L = 123 mm)
	150 (L = 148 mm)
	175 (L = 173 mm)
	200 (L = 198 mm)
	225 (L = 223 mm)
	250 (L = 248 mm)
	275 (L = 273 mm)
	300 (L = 298 mm)

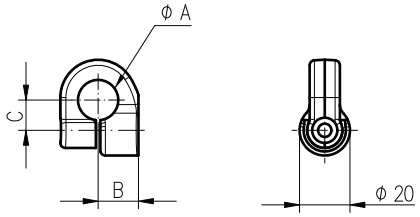
Ordering information	e.g.: DS25-T-200
DS25-T	-L
	*Length
	↓
	75 (L = 73 mm)
	100 (L = 98 mm)
	125 (L = 123 mm)
	150 (L = 148 mm)
	175 (L = 173 mm)
	200 (L = 198 mm)
	225 (L = 223 mm)
	250 (L = 248 mm)
	275 (L = 273 mm)
	300 (L = 298 mm)

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End clamp collar, with bore



Mat.: Aluminium

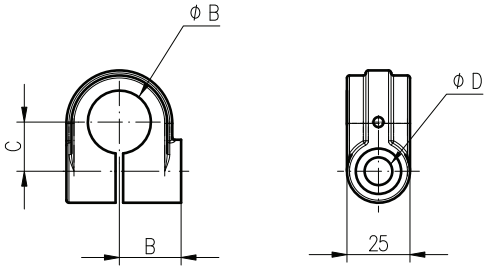


Part no.	Ø A	Ø B	C	(kg)
ECH16-14	14	16.5	10.5	0.014
ECH16-16	16	16.0	12.0	0.018
ECH16-20	20	20.0	13.5	0.018
ECH16-25	25	24.5	17.5	0.037

End clamp collar, with bore



Mat.: Aluminium



Part no.	Ø A	Ø B	C	D	(kg)
ECH100-75	1.0“	0.75“	12.7	10.5	0.06
ECH100-100	1.0“	1.0“	19.5	10.5	0.08
ECH100-150	1.0“	1.5“	26.0	10.5	0.12
ECH100-250	1.0“	2.5“	36.0	10.5	0.17

ECH25-19	25	19	12.7	10.5	0.06
ECH25-19-M8	25	19	12.7	8.5	0.06
ECH25-20	25	20	19.5	10.5	0.06
ECH25-25	25	25	19.5	10.5	0.08
ECH25-25-M8	25	25	19.5	8.5	0.08
ECH25-30	25	30	23.0	10.5	0.09
ECH25-32	25	32	23.0	10.5	0.09
ECH25-34	25	34	23.0	10.5	0.11
ECH25-40	25	40	26.0	10.5	0.12
ECH25-4445	25	44.45	28.3	10.5	0.14
ECH25-60	25	60	36.0	10.5	0.17

Subject to modification
Edition 01/2013

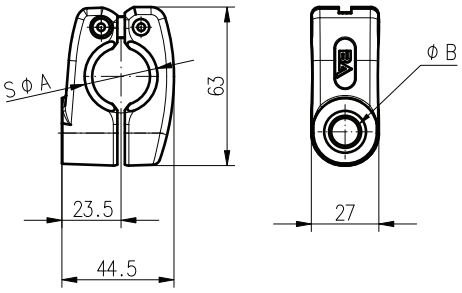
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Swivel & extension arms

End clamp collar, with split clip



Mat.: Aluminium

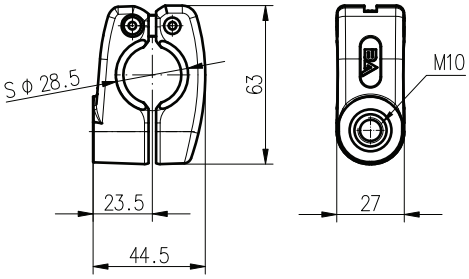


Part no.	SØ A	ØB	(kg)
ECH25-K28	28.5	10.5	0.13
ECH25-K28-M8	28.5	8.5	0.13
ECH25-K32-M8	32.0	8.5	0.13

End clamp collar, with split clip



0.13 kg
Mat.: Aluminium



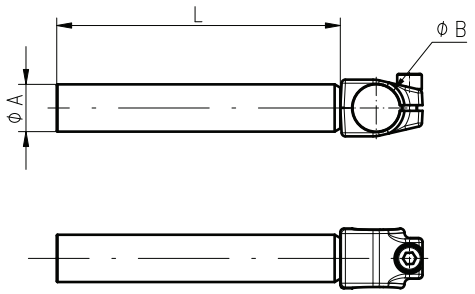
Part no.
ECT25-K28

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Single end extension, 90°



Mat.: Steel

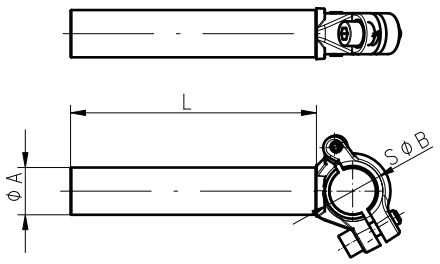


Ordering information			e.g.: ESS-90-25-25-200
ESS-90	-A	-	-L
	Diameter	Diameter	Length
	↓	↓	↓
	16	16	200
	20	20	400
	25	25	600
	30	30	other lengths upon request
		40	

Single end extension, with split clip



Mat.: Steel



Ordering information			e.g.: ESS-90-25-K28-200
ESS-90	-A	-	-L
	Diameter	Diameter	Length
	↓	↓	↓
	20	K28	200
	25	K32	400
	30		600
			other lengths upon request

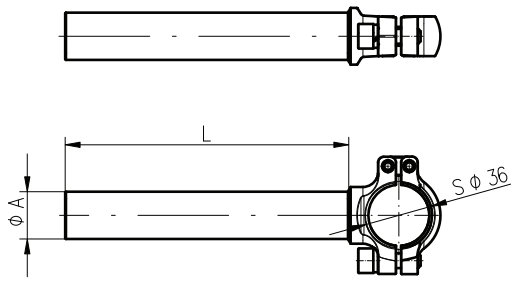
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Single end extension, with split clip



Mat.: Steel



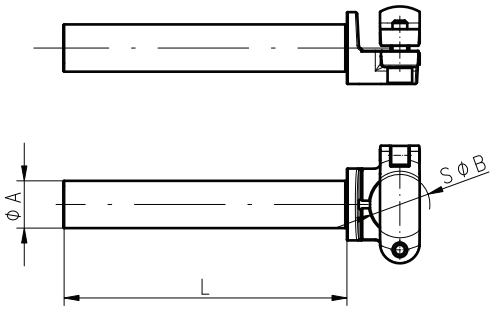
Ordering information			e.g.: ESS-90-25-K36-200
ESS-90	-A	-K36	-L
	Diameter		Length
	↓		↓
	20		200
	25		400
	30		600

other lengths upon request

Single end extension, with split clip



Mat.: Steel



Ordering information			e.g.: ESS-00-25-K28-200
ESS-00	-A	-	-L
	Diameter	Diameter	Length
	↓	↓	↓
	20	K28	200
	25	K32	400
	30	K36	600

other lengths upon request

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Notes

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Vacuum cups

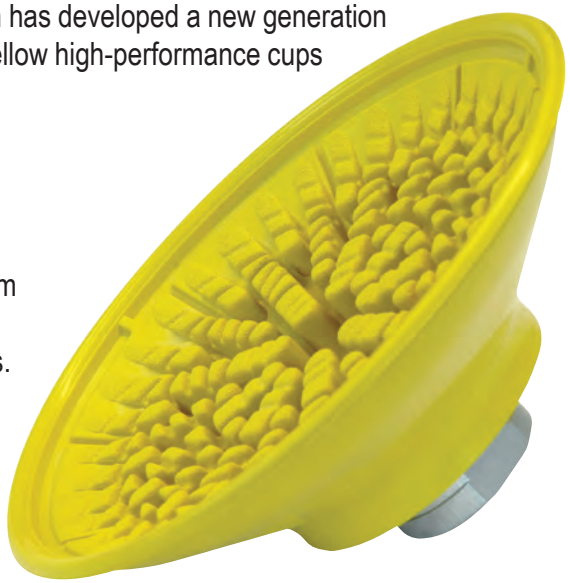
Picture	Designation	Page
	Flat foot cups, round	149
	Flat foot cups, oval	149
	Traction cups, round	150
	Traction cups, oval	150
	Belcups, round	151
	Deep dish cups, round	151
	Outer contour cups, oval	152

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Vacuum cups

New, progressive vacuum cups for your press shop

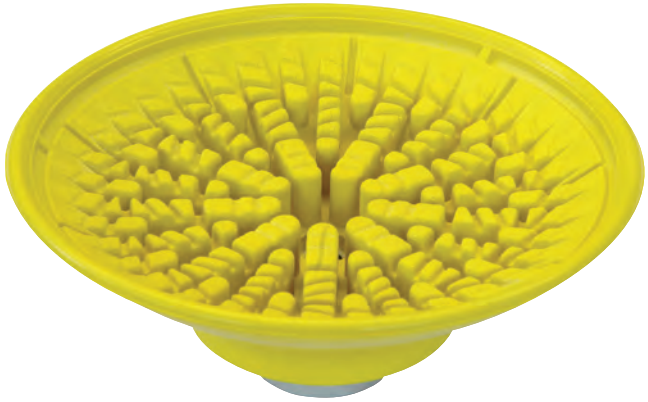
Servo-press machines and the newest automation technologies have accelerated production processes in press shops. Higher manipulation speed as a result of this upgrade demands vacuum cups with higher adhesion and friction forces. In order to meet these criteria, Bilsing Automation has developed a new generation of Vacuum cups. This new generation represented by light yellow high-performance cups offers the following advantages:



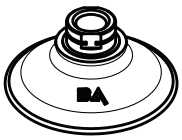
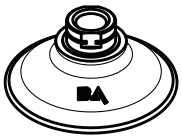
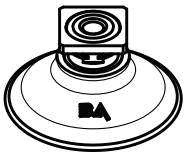
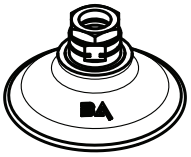
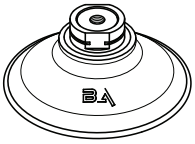
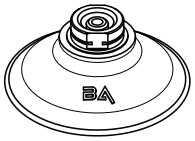
- Very high adhesion power resisting transverse forces
- Better ability to drive away oil in contact areas
- Optimal adjustment with components' outlines
- No surface damage on components as a result of vacuum performance
- Parts' position maintained even at emergency switch offs.

These advantages improve production security, increase its efficiency and the release of components from your press machines
Contact us (call 586.463.0686) for more information on our new high-performance vacuum cups!





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Connection Description		Mount
	G 3/8“ internal thread	B
	3/8-NPT internal thread	B-*-NA
	C-Mount	C
	G 3/8“ internal thread with SW22 Jam nut with SW22 (height = 6mm)	F
	M8 internal thread with SW22	J
	M10 male thread (enclosed separately)	Q

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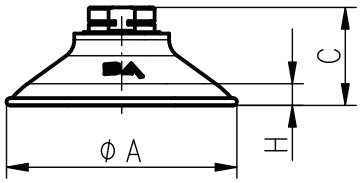
Vacuum cups

Flat foot cups, round



Part no.	Ø A	C	H*	(kg)
30PF	33	36.0	3	0.056
60PF	62	34.0	6	0.028
80PF	84	35.0	8	0.045
100PF	101	40.5	10	0.158
125PF	127	48.5	11	0.153

*Operating height

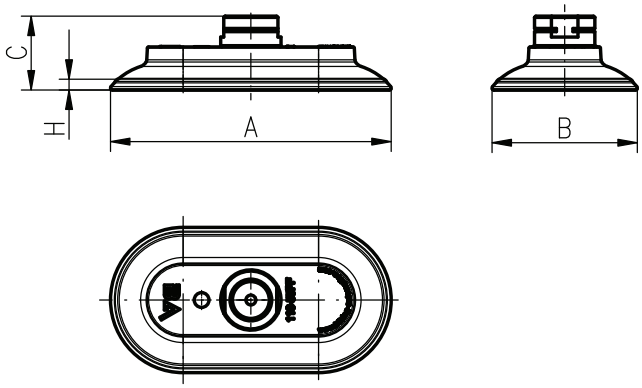


Flat foot cups, oval



Part no.	Ø A	B	C	H*	(kg)
60-30PF	64	34	28	4.5	0.013
80-40PF	84	44	29	4.5	0.047
110-55PF	114	59	30	5.0	0.067

*Operating height



Ordering information		e.g.: 80PF-B-55
Size	Mount*	Hardness in Shore
↓	↓	↓
30PF	B	30 (green)
60PF	C	45 (red)
80PF	F	55 (yellow)
100PF	J	60 (black)
125PF	Q	WF2** (black)
	*See page 150 for vacuum cup mounts	**High temperature resistent up to 250°C
60-30PF		
80-40PF		
110-55PF		

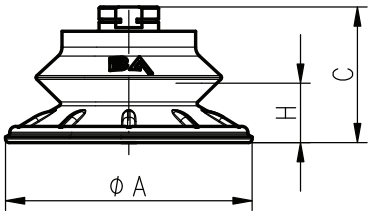
Ordering information			e.g.: 80PF-B-45-NA
Size	Mount*	Hardness in Shore	-NA
↓	↓	↓	
30PF	B	30 (green)	
60PF	*See page 150 for vacuum cup mounts	45 (red)	
80PF		55 (yellow)	
100PF		60 (black)	
125PF		WF2** (black)	
		**High temperature resistent up to 250°C	
60-30PF			
80-40PF			
110-55PF			

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Traction cups, round





Part no.	Ø A	C	H*	(kg)
40HT	40.0	40.0	9.5	0.024
60HT	60.5	49.5	14.5	0.055
80HT	81.0	46.5	19.5	0.050
100HT	100.0	53.0	23.0	0.102
115HT	112.0	53.0	19.0	0.110
140HT	140.0	53.0	22.0	0.193

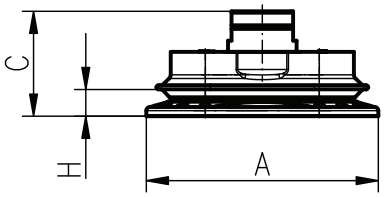
*Operating height

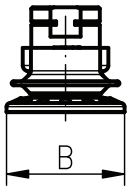
Traction cups, oval



Part no.	Ø A	C	H*	(kg)
60-30HT	63	34.0	6.0	0.039
80-40HT	82	36.5	9.5	0.048
110-55HT	114	43.5	13.0	0.097

*Operating height





Ordering information		e.g.: 80HT-B-55
Size	Mount*	Hardness in Shore
↓	↓	↓
40HT	B	30 (green)
60HT	C	45 (red)
80HT	F	55 (yellow)
100HT	J	60 (black)
	Q	WF2** (black)
60-30HT	*See page 150 for vacuum cup mounts	**High temperature resistent up to 250°C
80-40HT		
110-55HT		

Ordering information		e.g.: 80HT-B-55-NA	
Size	Mount*	Hardness in Shore	-NA
↓	↓	↓	
40HT	B	30 (green)	
60HT	*See page 150 for vacuum cup mounts	45 (red)	
80HT		55 (yellow)	
100HT		60 (black)	
		WF2** (black)	
60-30HT		**High temperature resistent up to 250°C	
80-40HT			
110-55HT			

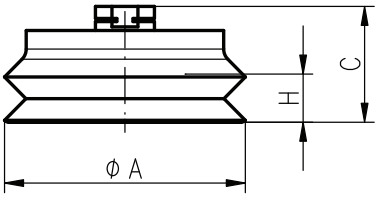
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Vacuum cups

Belcups, round



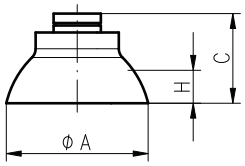


Part no.	Ø A	C	H*	(kg)
30BT	30.5	40.0	12.6	0.010
40BT	41.5	36.0	10.0	0.038
50BT	53.0	48.5	19.5	0.061
75BT	75.0	48.5	18.0	0.093
100BT	100.0	48.0	18.5	0.160
125BT	124.0	48.0	18.0	0.254

*Operating height

Deep dish cups, round





Part no.	Ø A	C	H	(kg)
50DM	50	28	11	0.060
75DM	75	40	17	0.089
100DM	100	46	25	0.116

*Operating height

Ordering information		e.g.: 75BT-B-60-NA
Size	Mount*	Hardness in Shore
↓	↓	↓
30BT	B	30 (green)
40BT	C	45 (red)
50BT	F	55 (yellow)
75BT	J	60 (black)
100BT	Q	WF2** (black)
125BT	*See page 150 for vacuum cup mounts	**High temperature resistent up to 250°C
50DM		
75DM		
100DM		

Ordering information		e.g.: 75BT-B-60-NA	
Size	Mount*	Hardness in Shore	-NA
↓	↓	↓	
30BT	B	30 (green)	
40BT	*See page 150 for vacuum cup mounts	45 (red)	
50BT		55 (yellow)	
75BT		60 (black)	
100BT		WF2** (black)	
125BT		**High temperature resistent up to 250°C	
50DM			
75DM			
100DM			

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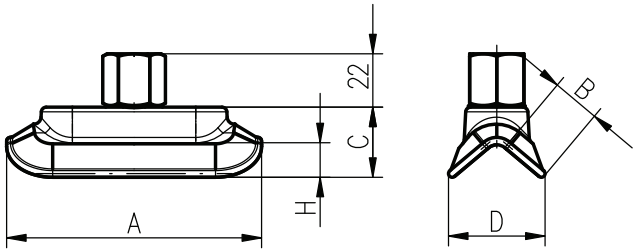
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Outer contour cups, oval



Part no.	Ø A	B	C	D	H*	(kg)
50-15DM	50	15	17	23	10	0.074
75-20DM	72	20	20	25	12	0.081
100-25DM	101	25	26	39	14	0.091

*Operating height



Ordering information e.g.: 75BT-B-55

Size	Mount*	Hardness in Shore
↓	↓	↓
50-15DM	B	30 (green)
75-20DM	C	45 (red)
100-25DM	F	55 (yellow)
	J	60 (black)
	Q	WF2** (black)

*See page 150 for vacuum cup mounts

**High temperature resistent up to 250°C

Ordering information e.g.: 75BT-B-60-NA

Size	Mount*	Hardness in Shore	-NA
↓	↓	↓	
50-15DM	B	30 (green)	
75-20DM	*See page 150 for vacuum cup mounts	45 (red)	
100-25DM		55 (yellow)	
		60 (black)	
		WF2** (black)	

**High temperature resistent up to 250°C

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Edition 01/2013

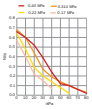
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Pneumatic Components

Picture	Designation	Page
	Port only adapter	157
	Port only adapter	157
	Port only adapter	157
	Port only adapter for vacuum cups with C-mount	158
	Port only adapter for vacuum cups with C-mount	158
	Venturi	159
	Venturi	159
	Venturi with blowoff	160
	Venturi with blowoff, low profile	160
	Venturi with blowoff	160
	Venturi with blowoff, low profile	161
	Venturi with blowoff for vacuum cups with C-mount	161
	Venturi automatic ventilation	162
	Venturi pneumatic ventilation	162
	Venturi automatic ventilation	162
	Venturi automatic ventilation	163

Subject to modification
Edition **01/2013**

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Picture	Designation	Page
	Venturi automatic ventilation	163
	Venturi	163
	Venturi, Technical Data	164
	Port only adapter for vacuum cups with C-mount	165
	Cup mount adapter with air	165
	Air distribution manifold	166
	Air distribution manifold	166
	Multiport vacuum generator	167
	Base plate vacuum generator	167
	Spring cup mounts	168
	Spring cup mounts	169
	Spring cup mounts	170
	Straight screw, coupling, rotatable	171
	Angled screw-in plug, rotatable	171
	T-type screw-in plug, rotatable	172
	T-connector	172

Subject to modification
Edition 01/2013

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Pneumatic Components

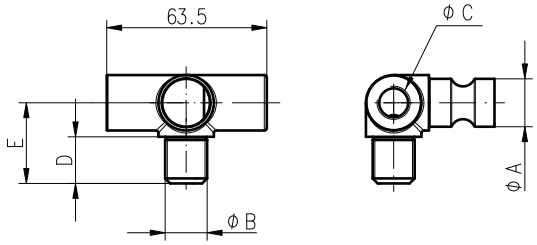
Picture	Designation	Page
	Push-in connector	173
	Push-in L-connector	173
	Push-in Y-connector	173
	Push-in connector	174
	Push-in L-connector	174
	Push-in T-connector	174
	Push-in Y-connector	175
	Pneumatic tube	175
	Pneumatic tube	176

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Port only adapter



Mat.: Aluminium

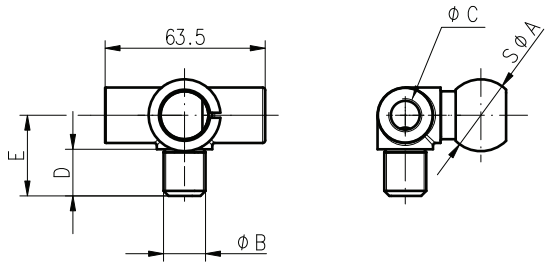


Part no.	Ø A	Ø B	Ø C	D	E	(kg)
PA-75-3/8-NPT	0.75“	3/8-NPT	1/4-NPT	14.0	27.5	0.08
PA-19-G1/4	19	G 1/4	G1/4	14.0	27.5	0.08
PA-19-G3/8	19	G 3/8	G1/4	18.5	32.0	0.08

Port only adapter



Mat.: Aluminium

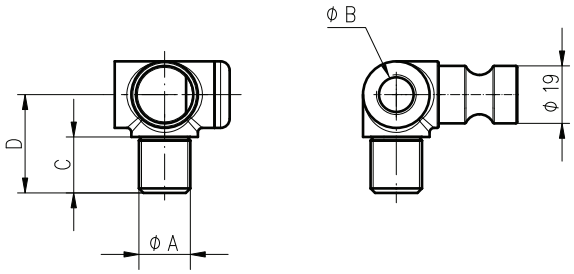


Part no.	SØ A	Ø B	Ø C	D	E	(kg)
PA-K28-3/8-NPT	28.5	3/8-NPT	1/4-NPT	14.0	27.5	0.107
PA-K28-G1/4	28.5	G 1/4	G1/4	14.0	27.5	0.107
PA-K28-G3/8	28.5	G 3/8	G1/4	18.5	32.0	0.111
PA-K32-G3/8	32.0	G3/8	G1/4	18.5	32.0	0.105

Port only adapter



Mat.: Aluminium



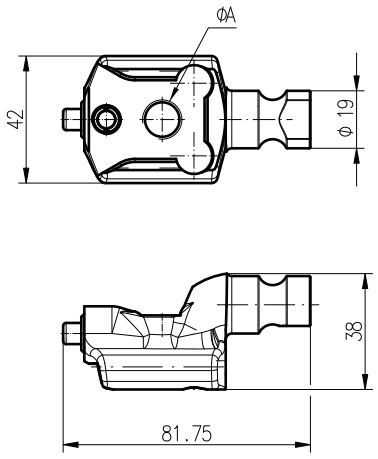
Part no.	Ø A	Ø B	C	D	(kg)	Shut-off plug
PA-19-LR-G3/8	G 3/8	G 1/4	18.5	32.0	0.06	VS-1/4-I6KT
PA-19-LR-G1/4	G 1/4	G 1/4	15.0	28.5	0.06	VS-1/4-I6KT
PA-19-LR-G3/8-B	G 3/8	G 3/8	15.0	28.5	0.06	VS-3/8-I6KT

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Port only adapter for vacuum cups with C-mount



Mat.: Aluminium

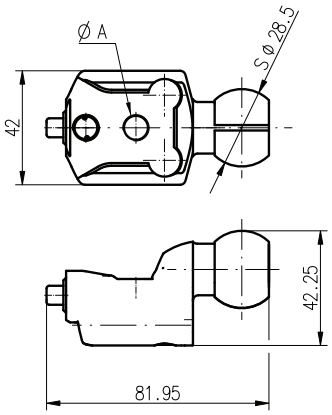


Part no.	Ø A	(kg)
PA-75-C-1/4-NPT	1/4-NPT	0.08
PA-19-C-G1/8	G1/8	0.09
PA-19-C-G1/4	G1/4	0.11

Port only adapter for vacuum cups with C-mount



Mat.: Aluminium



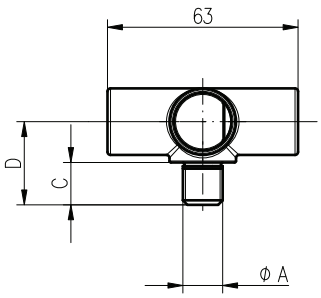
Part no.	Ø A	Ø B	(kg)
PA-75-C-1/4-NPT-K28	1/4-NPT	80.7	0.11
PA-K28-C-G1/8	G1/8	81.95	0.09
PA-K28-C-G1/4	G1/4	81.6	0.11

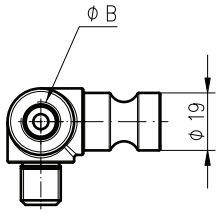
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Venturi



Mat.: Aluminium



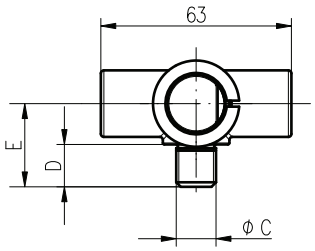


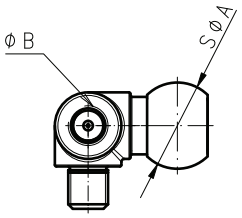
Part no.	Ø A	Ø B	C	D	(kg)
VMA-75-3/8-NPT	3/8-NPT	1/4-NPT	18.5	32.0	0.098
VMA-19-G1/4	G1/4	G1/4	14.0	27.5	0.107
VMA-19-G3/8	G3/8	G1/4	18.5	32.0	0.098

Venturi



Mat.: Aluminium



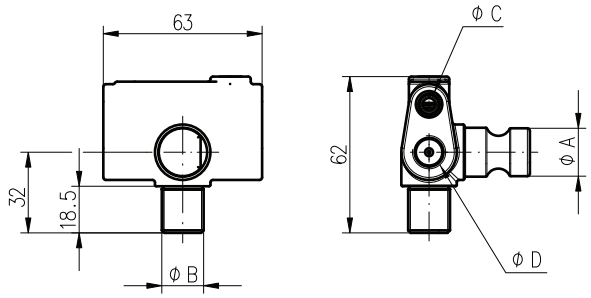


Part no.	SØ A	Ø B	C	D	E	(kg)
VMA-K28-3/8-NPT	28.5	1/4-NPT	1/4-NPT	18.5	32.0	0.110
VMA-K28-G1/4	28.5	G1/4	G1/4	14.0	27.5	0.107
VMA-K28-G3/8	28.5	G1/4	G3/8	18.5	32.0	0.111
VMA-K32-G1/4	32.0	G1/4	G1/4	14.0	27.5	0.110

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Venturi with blowoff



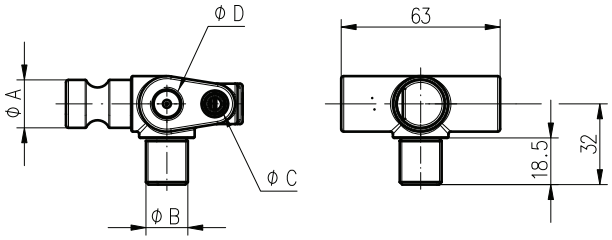


Mat.: Aluminium

Part no.	Ø A	Ø B	Ø C	Ø D	(kg)
VMA-75-BO-3/8-NPT	0.75“	3/8-NPT	1/8-NPT	1/4-NPT	0.153
VMA-19-BO-G1/4	19	G1/4	G1/8	G1/4	0.153
VMA-19-BO-G3/8	19	G3/8	G1/8	G1/4	0.153

Venturi with blowoff, low profile



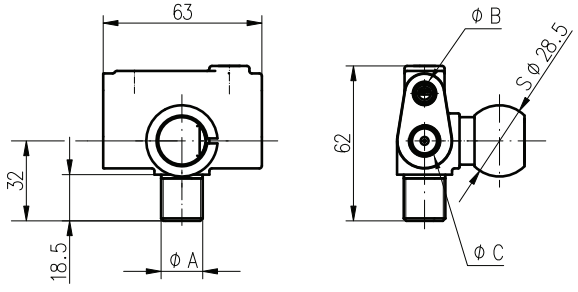


Mat.: Aluminium

Part no.	Ø A	Ø B	Ø C	Ø D	(kg)
VMA-75-BO-3/8-NPT-LP	0.75“	3/8-NPT	1/8-NPT	1/4-NPT	0.153
VMA-19-BO-G1/4-LP	19	G1/4	G1/8	G1/4	0.153
VMA-19-BO-G3/8-LP	19	G3/8	G1/8	G1/4	0.153

Venturi with blowoff





Mat.: Aluminium

Part no.	Ø A	Ø B	Ø C	(kg)
VMA-K28-BO-3/8-NPT	3/8-NPT	1/8-NPT	1/4-NPT	0.21
VMA-K28-BO-G1/4	G1/4	G1/8	G1/4	0.20
VMA-K28-BO-G3/8	G3/8	G1/8	G1/4	0.21

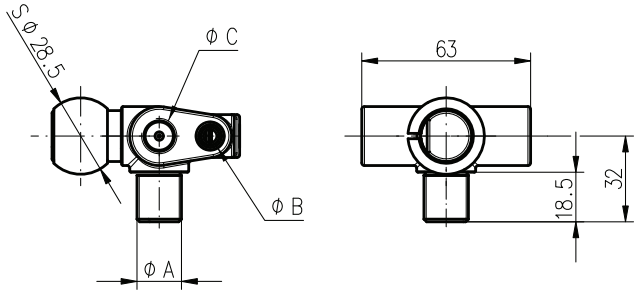
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Venturi with blowoff, low profile



Mat.: Aluminium

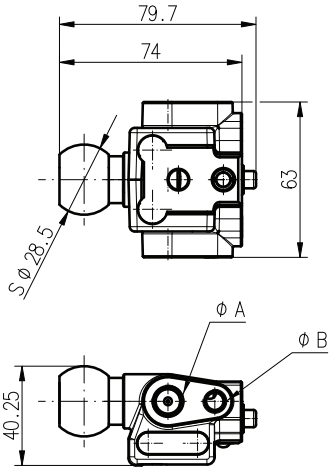


Part no.	Ø A	Ø B	Ø C	(kg)
VMA-K28-BO-3/8-NPT-LP	3/8-NPT	1/8-NPT	1/4-NPT	0.21
VMA-K28-BO-G1/4-LP	G1/4	G1/8	G1/4	0.20
VMA-K28-BO-G3/8-LP	G1/4	G1/8	G1/4	0.21

Venturi with blowoff for vacuum cups with C-mount



Mat.: Aluminium



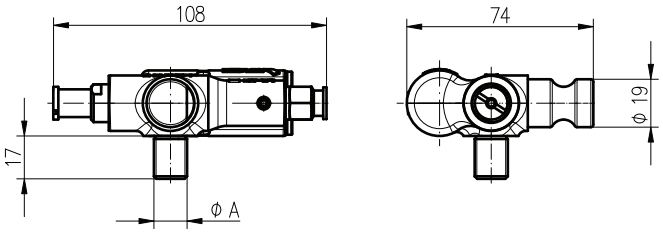
Part no.	Ø A	Ø B	(kg)
VMA-K28-BO-C-NPT	1/4-NPT	1/8-NPT	0.22
VMA-K28-BO-C	G1/4	G1/8	0.22

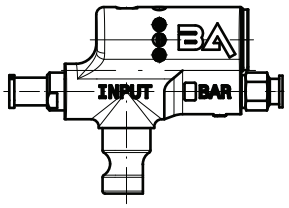
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Venturi automatic ventilation



Mat.: Aluminium



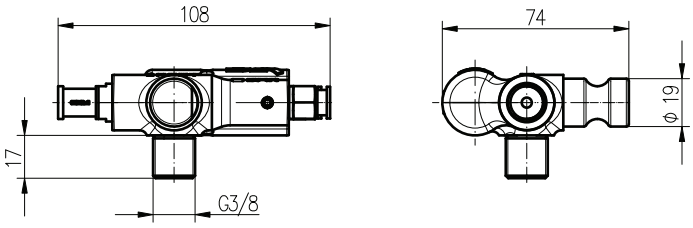


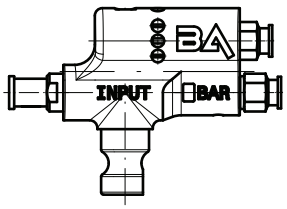
Part no.	Ø A	Ø B	(kg)
VMA-75-ABO-3/8-NPT	0.75“	3/8-NPT	0.164
VMA-19-ABO3-G1/4	19	G1/4	0.130
VMA-19-ABO3-G3/8	19	G3/8	0.164

Venturi pneumatic ventilation



0.164 kg
Mat.: Aluminium



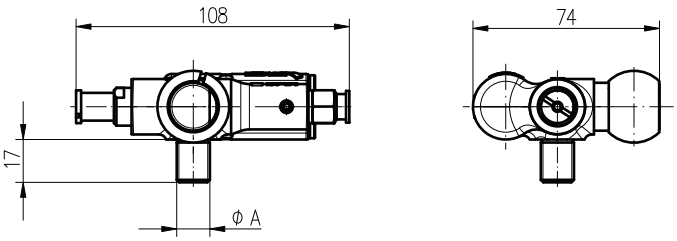


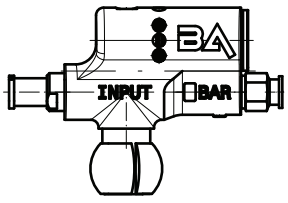
Part no.
VMA-19-MBO6-G3/8

Venturi automatic ventilation



Mat.: Aluminium





Part no.	Ø A	(kg)
VMA-K28-ABO-G1/4	G 1/4	0.189
VMA-K28-ABO-G3/8	G 3/8	0.213

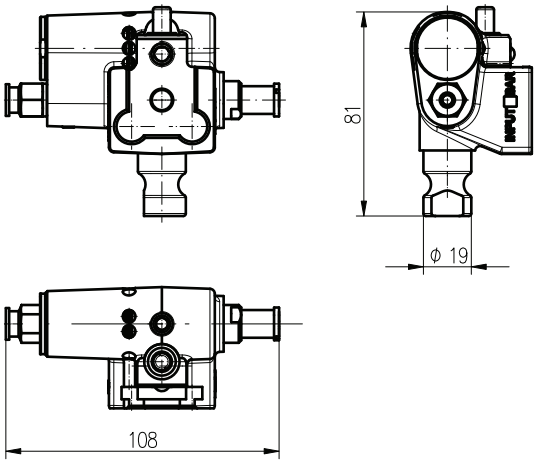
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Venturi automatic ventilation



0.26 kg
Mat.: Aluminium

Part no.
VMA-19-ABO6-C

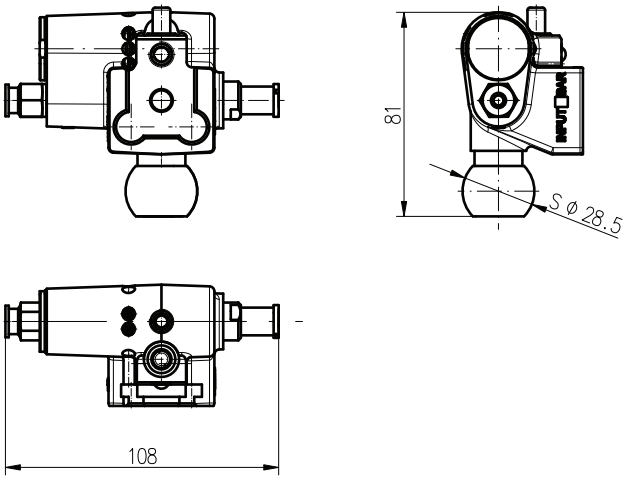


Venturi automatic ventilation



0.32 kg
Mat.: Aluminium

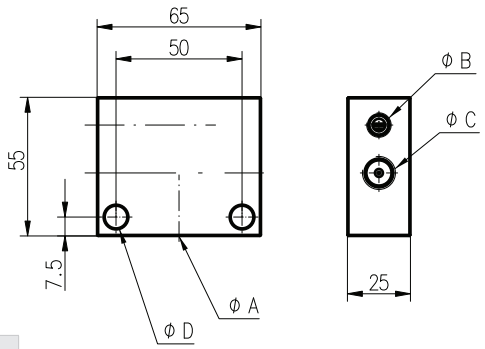
Part no.
VMA-K28-ABO-C



Venturi



Mat.: Aluminium



Part no.	Ø A	Ø B	Ø C	Ø D	(kg)
VVB-8-BO	3/8-NPT	1/8-NPT	1/4-NPT	M8	0.233
VMA-8-BO-G3/8	G3/8	G1/8	G1/4	M8	0.233
VMA-8-BO-G3/8-9	G3/8	G1/8	G1/4	9	0.233

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Venturi, Technical Data

Technical Data

Description	Unit	Value
Feed pressure. max.	MPA	0.7
Temperature range	°C	-10...80
Weight	g	ca. 160
Material		AL, NBR, PA, SS

Conversion

Pressure bar	Value
1	100.000 Pa
1	100 kPa
1	0.1m Pa

Vacuum flow

Feed pressure	Air consumption	Vacuum flow (Nl*/s) at different vacuum levels (-kPa)									Max. Vacuum
MPa	Nl/s	0	10	20	30	40	50	60	70	80	-kPa
0.17	0.29	0.57	0.40	0.22	0.15	0.07	-	-	-	-	49
0.22	0.34	0.64	0.48	0.29	0.20	0.14	0.08	0.02	-	-	64
0.314	0.44	0.68	0.60	0.44	0.27	0.19	0.14	0.10	0.06	0.03	90

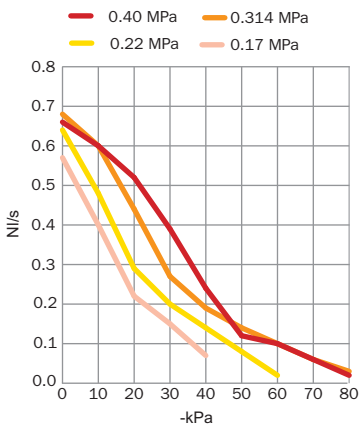
Evacuation time

Feed pressure	Air consumption	Evacuation time (Nl*/s) to reach different vacuum levels (-kPa)								Max. Vacuum
MPa	Nl/s	10	20	30	40	50	60	70	80	-kPa
0.17	0.29	0.28	0.56	1.13	2.13	-	-	-	-	49
0.22	0.34	0.20	0.42	0.85	1.50	2.30	3.00	-	-	64
0.314	0.44	0.17	0.32	0.58	1.10	1.80	2.70	4.00	6.40	90

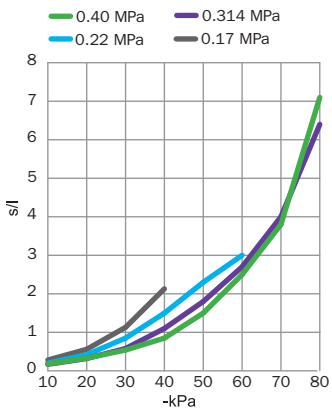
Blow flow

Feed pressure	Air consumption	Blow off (Nl*/s) at different pressure levels (-kPa)												Max. Vakuum
MPa	Nl/s	0	20	40	60	70	80	90	100	110	120	130	140	-kPa
0.6	0.75	1.37	1.36	1.13	1.12	1.03	1.03	1.03	1.03	1.00	0.95	0.86	0.79	1.40

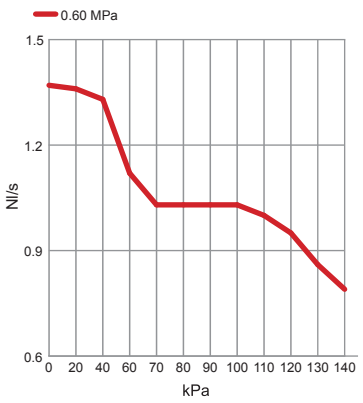
Vacuum flow



Evacuation time



Blow off

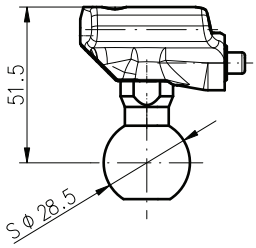


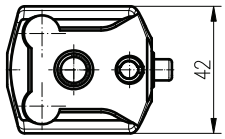
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Port only adapter for vacuum cups with C-mount







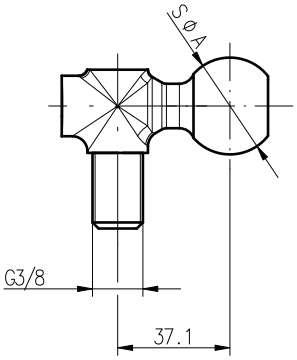
0.18 kg
Mat.: Aluminium

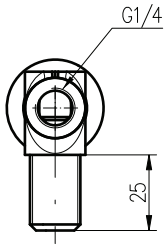
Part no.
KGL-K28-C

Cup mount adapter with air



Mat.: Aluminium





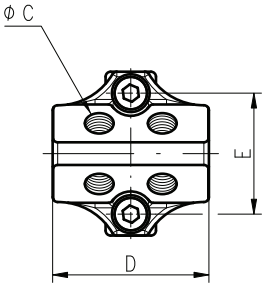
Partz no.	S Ø A	(kg)
KGL-PA-K28-AL-P001	28.5	0.071
KGL-PA-K32-AL-P001	32.0	0.088

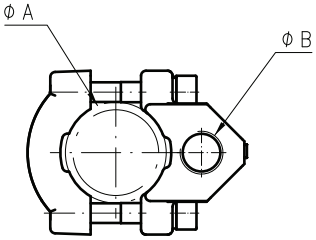
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Air distribution manifold



Mat.: Aluminium



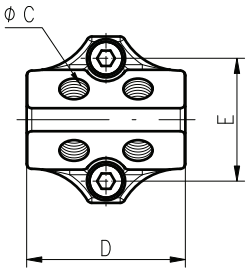


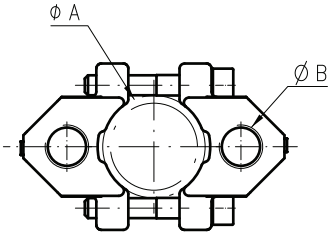
Part no.	Ø A	Ø B	C	D	E	(kg)
MLK-150-G44	1.5“	3/8-NPT	1/4-NPT	62	48	0.27
MLK-250-G44	2.5“	3/8-NPT	1/4-NPT	65	70	0.33
MLK-150-G44-01	1.5“	3/8-NPT	1/4-NPT	62	48	0.27
MLK-40-G44	40	G3/8	G1/4	62	48	0.27
MLK-40-G44-01	40	G3/8	G1/4	62	48	0.27
MLK-60-G44	60	G3/8	G1/4	65	70	0.33

Air distribution manifold



Mat.: Aluminium





Part no.	Ø A	Ø B	Ø C	D	E	(kg)
MLK-150-G44-02	1.5“	3/8-NPT	1/4-NPT	62	48	0.38
MLK-250-G44-01	2.5“	3/8-NPT	1/4-NPT	65	70	0.49
MLK-40-G44-2	40	G3/8	G1/4	62	48	0.38
MLK-60-G44-2	60	G3/8	G1/4	65	70	0.49

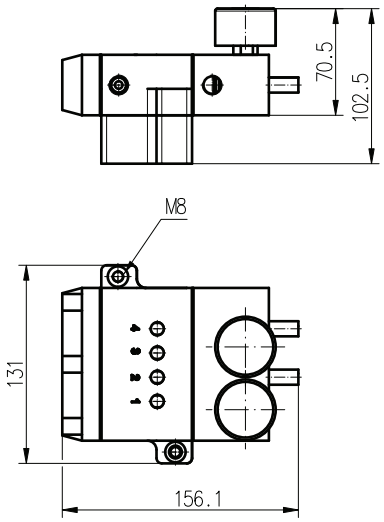
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Multiport vacuum generator



1.59 kg
Mat.: Aluminium

Part no.
MG4-G8M

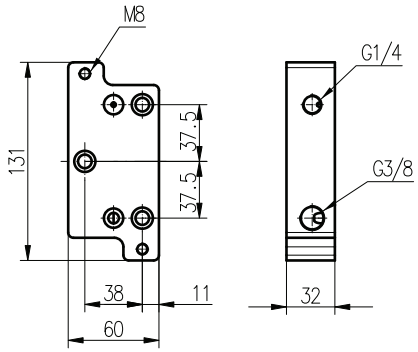


Base plate vacuum generator



0.531 kg
Mat.: Aluminium

Part no.
MG4-G8M-04

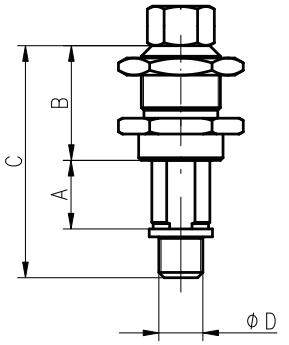


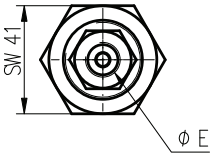
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Spring cup mounts



Mat.: Aluminium





non rotating / rotating

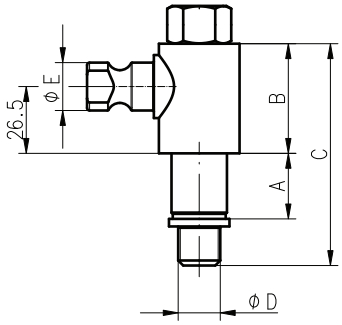
Part no.	A Travel	B	C	Ø D	Ø E	(kg)
RCM-100-NR / RCM-100	19	43.5	88.0	3/8-NPT	1/4-NPT	0.17
RCM-150-NR / RCM-150	40	82.5	145.5	3/8-NPT	1/4-NPT	0.25
RCM-300-NR / RCM-300	75	142.0	246.5	3/8-NPT	1/4-NPT	0.32
RCM-19-NR / RCM-19	19	43.5	88.0	G3/8	G1/4	0.17
RCM-19-NR-A / RCM-19-A	19	43.5	88.0	G1/4	G1/4	0.17
RCM-19-W-NR	19	43.5	88.0	G3/8	G1/4	0.17
RCM-19-W-NR-A	19	43.5	88.0	G1/4	G1/4	0.17
RCM-40-NR / RCM-40	40	82.5	145.5	G3/8	G1/4	0.25
RCM-40-NR-A / RCM-40-A	40	82.5	145.5	G1/4	G1/4	0.25
RCM-40-W-NR	40	82.5	145.5	G3/8	G1/4	0.25
RCM-40-W-NR-A	40	82.5	145.5	G1/4	G1/4	0.25
RCM-75-NR / RCM-75	75	142.0	246.5	G3/8	G1/4	0.32
RCM-75-NR-A / RCM-75-A	75	142.0	246.5	G1/4	G1/4	0.32
RCM-75-W-NR	75	142.0	246.5	G3/8	G1/4	0.32
RCM-75-W-NR-A	75	142.0	246.5	G1/4	G1/4	0.32
RCM-95-NR / RCM-95	95	142.0	261.0	G3/8	G1/4	0.47
RCM-95-NR-A / RCM-95-A	95	142.0	261.0	G1/4	G1/4	0.47
RCM-95-W-NR	95	142.0	261.0	G3/8	G1/4	0.47
RCM-95-W-NR-A	95	142.0	261.0	G1/4	G1/4	0.47

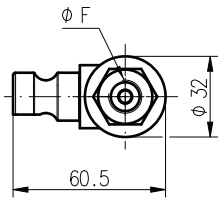
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Spring cup mounts



Mat.: Aluminium





non rotating / rotating

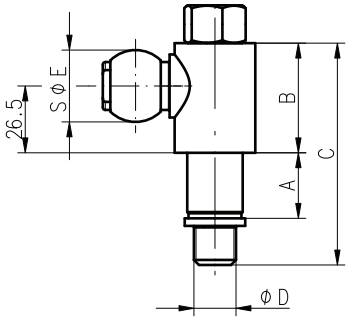
Part no.	A Travel	B	C	Ø D	Ø E	Ø F	(kg)
SCM-100-G14-NR / SCM-100-G14	19	43.5	88.0	3/8-NPT	0.75“	1/4-NPT	0.13
SCM-150-G14-NR / SCM-150-G14	40	82.5	145.5	3/8-NPT	0.75“	1/4-NPT	0.25
SCM-300-G14-NR / SCM-300-G14	75	142.0	246.5	3/8-NPT	0.75“	1/4-NPT	0.32
SCM-375-G14-NR / SCM-375-G14	101	142.0	261.6	3/8-NPT	0.75“	1/4-NPT	0.47
SCM-19-G14-NR / SCM-19-G14	19	43.5	88.0	G3/8	19	G1/4	0.17
SCM-19-G14-NR-A / SCM-19-G14-A	19	43.5	88.0	G1/4	19	G1/4	0.17
SCM-40-G14-NR / SCM-40-G14	40	82.5	145.5	G3/8	19	G1/4	0.25
SCM-40-G14-NR-A / SCM-40-G14-A	40	82.5	145.5	G1/4	19	G1/4	0.25
SCM-75-G14-NR / SCM-75-G14	75	142.0	246.5	G3/8	19	G1/4	0.32
SCM-75-G14-NR-A / SCM-75-G14-A	75	142.0	246.5	G1/4	19	G1/4	0.32
SCM-95-G14-NR / SCM-95-G14	95	142.0	261.0	G3/8	19	G1/4	0.47
SCM-95-G14-NR-A / SCM-95-G14-A	95	142.0	261.0	G1/4	19	G1/4	0.47

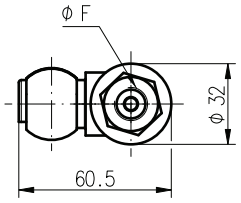
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Spring cup mounts



Mat.: Aluminium





non rotating / rotating

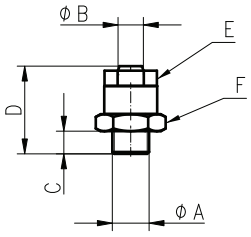
Part no.	A Travel	B	C	Ø D	SØ E	Ø F	(kg)
SCM-100-G14-K28-NR / SCM-100-G14-K28	19	43.5	88.0	3/8-NPT	28.5	1/4-NPT	0.13
SCM-150-G14-K28-NR / SCM-150-G14-K28	40	82.5	145.5	3/8-NPT	28.5	1/4-NPT	0.25
SCM-300-G14-K28-NR / SCM-300-G14-K28	75	142.0	246.5	3/8-NPT	28.5	1/4-NPT	0.32
SCM-375-G14-K28-NR / SCM-375-G14-K28	101	142.0	261.6	3/8-NPT	28.5	1/4-NPT	0.47
SCM-19-G14-K28-NR / SCM-19-G14-K28	19	43.5	88.0	G3/8	28.5	G1/4	0.17
SCM-19-G14-K28-NR-A / SCM-19-G14-K28-A	19	43.5	88.0	G1/4	28.5	G1/4	0.17
SCM-19-G14-K32-NR / SCM-19-G14-K32	19	43.5	88.0	G3/8	32.0	G1/4	0.17
SCM-40-G14-K28-NR / SCM-40-G14-K28	40	82.5	145.5	G3/8	28.5	G1/4	0.25
SCM-40-G14-K28-NR-A / SCM-40-G14-K28-A	40	82.5	145.5	G1/4	28.5	G1/4	0.25
SCM-40-G14-K32-NR / SCM-40-G14-K32	40	82.5	145.5	G3/8	32.0	G1/4	0.25
SCM-75-G14-K28-NR / SCM-75-G14-K28	75	142.0	246.5	G3/8	28.5	G1/4	0.32
SCM-75-G14-K28-NR-A / SCM-75-G14-K28-A	75	142.0	246.5	G1/4	28.5	G1/4	0.32
SCM-75-G14-K32-NR / SCM-75-G14-K32	75	142.0	246.5	G3/8	32.0	G1/4	0.32
SCM-95-G14-K28-NR / SCM-95-G14-K28	95	142.0	261.0	G3/8	28.5	G1/4	0.47
SCM-95-G14-K32-NR / SCM-95-G14-K32	95	142.0	261.0	G1/4	32.0	G1/4	0.47

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Straight screw, coupling, rotatable

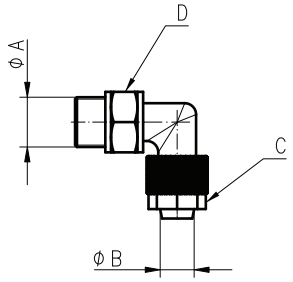




Part no.	Ø A	Ø B	C	D	E	F	(kg)
GEV-1/8-6x4-SCH	G 1/8	6	5.5	24.0	SW10	SW13	0.017
GEV-1/8-8x6-SCH	G 1/8	8	6.0	23.5	SW12	SW13	0.023
GEV-1/8-8x6-SCH-SW15	G 1/8	8	6.0	26.0	SW12	SW15	0.023
GEV-1/8-10x8-SCH	G 1/8	10	6.0	26.0	SW14	SW14	0.026
GEV-1/4-6x4-SCH	G 1/4	6	8.0	25.5	SW10	SW17	0.015
GEV-1/4-8x6-SCH	G 1/4	8	8.0	25.5	SW12	SW17	0.025
GEV-1/4-10x8-SCH	G 1/4	10	8.0	29.0	SW14	SW16	0.029
GEV-3/8-6x4-SCH	G 3/8	6	8.0	27.0	SW12	SW16	0.032
GEV-3/8-8x6-SCH	G 3/8	8	7.5	28.0	SW12	SW19	0.029
GEV-3/8-10x8-SCH	G 3/8	10	8.0	30.0	SW19	SW14	0.035

Angled screw-in plug, rotatable



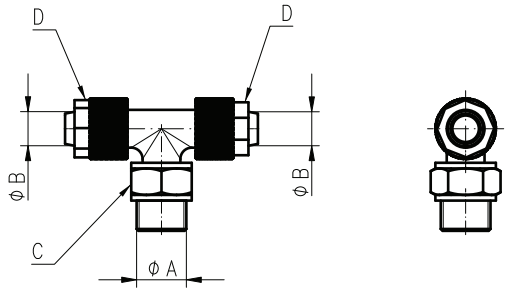


Part no.	Ø A	Ø B	C	D	(kg)
WEVD1/8-6x4-SCH	G 1/8	6	SW10	SW14	0.023
WEVD-1/8-8x6-SCH	G 1/8	8	SW13	SW12	0.030
WEVD-1/4-6x4-SCH	G 1/4	6	SW10	SW16	0.030
WEVD-1/4-8x6-SCH	G 1/4	8	SW12	SW16	0.033
WEVD-1/4-10x8-SCH	G 1/4	10	SW14	SW16	0.043

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T-type screw-in plug, rotatable

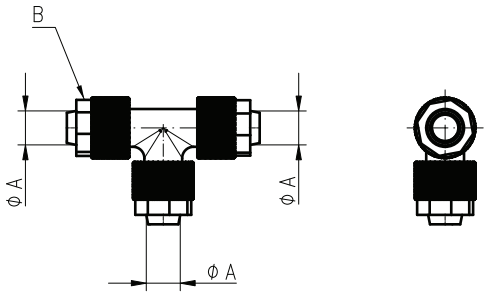




Part no.	Ø A	Ø B	C	D	(kg)
TEVDZ-1/8-6x4-SCH	G 1/8	6	SW14	SW10	0.033
TEVDZ-1/4-6x4-SCH	G 1/4	6	SW17	SW12	0.038
TEVDZ-1/4-8x6-SCH	G 1/4	8	SW16	SW14	0.045
TEVDZ-1/4-10x8-SCH	G 1/4	10	SW17	SW12	0.052

T-connector





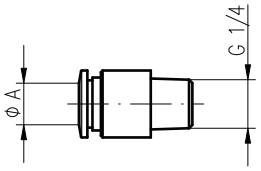
Part no.	Ø A	B	(kg)
TVB-6x4-SCH	6	SW14	0.030
TVB-8x6-SCH	8	SW16	0.037
TVB-10x8-SCH	10	SW17	0.049

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Push-in connector

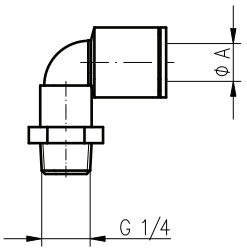




Part no.	Ø A	B	(kg)
KQ2S10-02S	10	G 1/4	0.012
KQ2S12-02S	12	G 1/4	0.023

Push-in L-connector

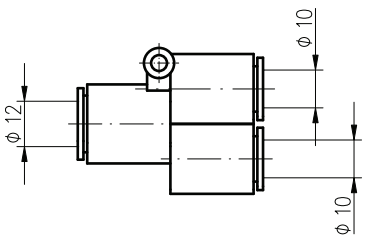




Part no.	Ø A	B	(kg)
KQ2L10-02S	10	G 1/4	0.026
KQ2L12-02S	12	G 1/4	0.028

Push-in Y-connector



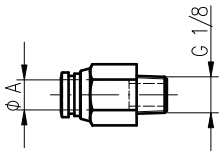


Part no.	(kg)
KQ2U10-12	0.027

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Push-in connector

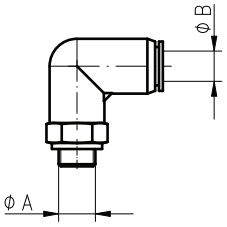




Part no.	Ø A	(kg)
QS-1/8-6	6	0.009
QS-1/8-8	8	0.015

Push-in L-connector

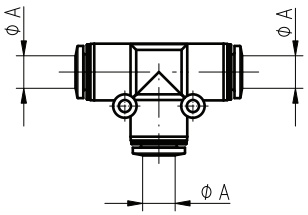




Part no.	Ø A	Ø B	(kg)
QSL-1/8-6	G 1/8	6	0.014
QSL-1/8-8	G 1/8	8	0.018
QSL-1/4-6	G 1/4	6	0.022
QSL-1/4-8	G 1/4	8	0.027

Push-in T-connector



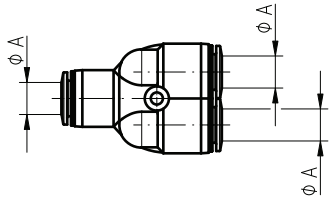


Part no.	Ø A	(kg)
QST-1/8-6	6	0.009
QST-1/8-8	8	0.015

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Push-in Y-connector





Part no.	Ø A	▮ (kg)
QSY-6	6	0.011
QSY-8	8	0.016

Pneumatic tube



Plasting tubing, standard
Ambient temperature: -35°...60°C
Temperature dependent operating pressure: -0,95...+10 bar
Material: polyurethane

Part no.	Outside-Ø	Inside-Ø	Color
PUN-6x1-BL	6	4	blue
PUN-6x1-GE	6	4	yellow
PUN-6x1-GN	6	4	green
PUN-6x1-RT	6	4	red
PUN-6x1-SI	6	4	silver
PUN-6x1-SW	6	4	black
PUN-8x1.25-BL	8	5.7	blue
PUN-8x1.25-GE	8	5.7	yellow
PUN-8x1.25-GN	8	5.7	green
PUN-8x1.25-RT	8	5.7	red
PUN-8x1.25-SI	8	5.7	silver
PUN-8x1.25-SW	8	5.7	black
PUN-10x1.5-BL	10	7	blue
PUN-10x1.5-GE	10	7	yellow
PUN-10x1.5-GN	10	7	green
PUN-10x1.5-RT	10	7	red
PUN-10x1.5-SI	10	7	silver
PUN-10x1.5-SW	10	7	black
PUN-12x2-SI	12	8	silver

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Pneumatic tube



Plastic tubing, standard
Ambient temperature: -20°...60°C
operating pressure at 20°C : 0,8MPa
Material: polyurethane

Part no.	Outside-Ø	Inside-Ø	Color
TU0604BU	6	4	blue
TU0604C	6	4	clear
TU0604R	6	4	red
TU0805BU	8	5	blue
TU0805C	8	5	clear
TU0805G	8	5	green
TU0805R	8	5	red
TU0805W	8	5	white
TU0805Y	8	5	yellow
TU1065BU	10	6.5	blue
TU1208BU	12	8	blue

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Proximity switch mounts

Picture	Designation	Page
	Holder for spring cup mounts and proximity switch mounts	181
	Holder for spring cup mounts and proximity switch mounts	181
	Holder for spring cup mounts and proximity switch mounts	182
	Holder for spring cup mounts and proximity switch mounts	182
	Proximity swtich mounts	183
	Proximity swtich mounts	183
	Proximity swtich mounts	184
	Proximity swtich mounts	184
	Adapter for double blank detector	185
	Vacuum cups for double blank detector	185
	Adapter for spring-mounted double blank detector	186
	Adapter for spring-mounted double blank detector	186
	Spring-mounted double blank detector with belcup	187
	Belcup for Spring-mounted double blank detector	187
	Spring-mounted double blank detector with flat foot cup	188
	Flat foot cup for Spring-mounted double blank detector	188

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Proximity switch mounts

Picture	Designation	Page
	Holder for spring-mounted double blank detector	189
	Clamp	189
	Clamp	190
	Mounting plate for e-distributor	190
	Mounting plate for e-distributor	190
	Mounting plate for e-distributor	191
	Mounting plate for e-distributor	191
	Mounting plate for e-distributor	192
	Mounting plate for e-distributor	192
	Ball mount	193
	Ball adapter plate	193
	Ball adapter plate	193
	Shovel adapters	194
	Shovel adapters	194
	Shovel mounts	195
	Shovel mounts	195

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Edition 01/2013

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Proximity switch mounts

Picture	Designation	Page
	Nest guides	196
	Nest guides	196
	Nest pad guide	197
	Nest pad guide	197
	Nest pad guide	198
	Rib top pads	198
	Smooth top pads	199

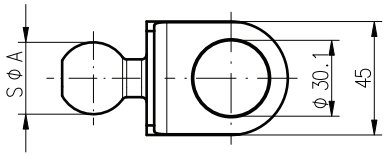
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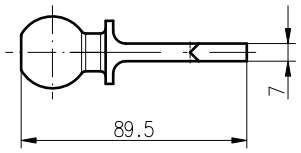
Proximity switch mounts

Holder for spring cup mounts and proximity switch mounts





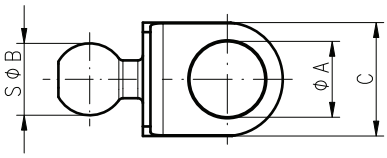
Mat.: Aluminium



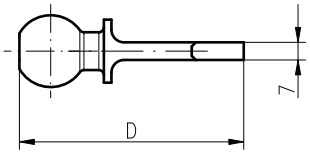
Part no.	Ø A	(kg)
SAPA-I-30-K28	28.5	0.067
SAPA-I-30-K32	32.0	0.076

Holder for spring cup mounts and proximity switch mounts





Mat.: Steel

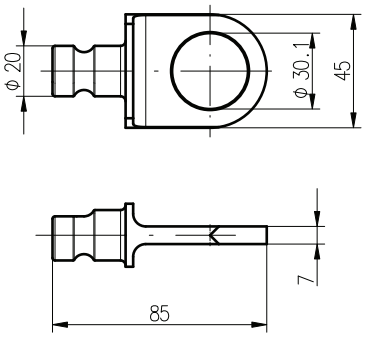


Part no.	Ø A	Ø B	C	D	(kg)
SAPS-I-30-K28	30.1	28.5	45	89.5	0.187
SAPS-I-30-K32	30.1	32.0	45	89.5	0.216
SAPS-I-M2015-K28	M20x1.5	28.5	34	76.0	0.153

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Holder for spring cup mounts and proximity switch mounts



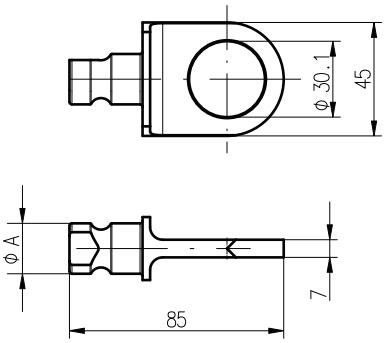


0.06 kg
Mat.: Aluminium

Part no.
SAPA-I-30-B20

Holder for spring cup mounts and proximity switch mounts





Mat.: Steel

Part no.	Ø A	(kg)
SAPS-I-30-B19	19	0.174
SAPS-I-30-B20	20	0.174

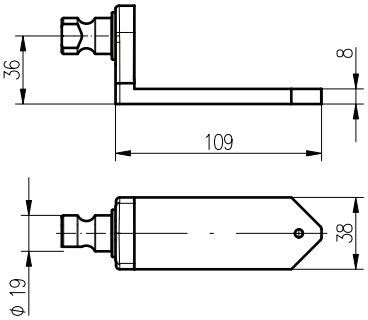
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Proximity switch mounts

Proximity swtich mounts



0.16 kg
Mat.: Aluminium

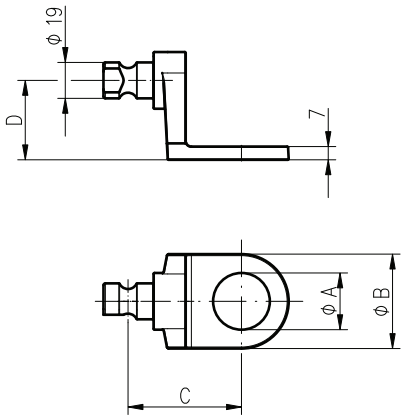


Part no.
SAP-NJ50

Proximity swtich mounts



0.16 kg
Mat.: Aluminium



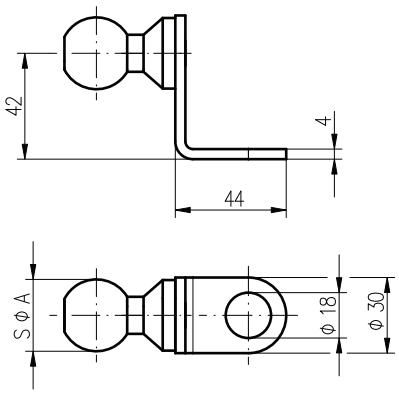
Part no.	Ø A	Ø B	C	D	(kg)
SAPA-18	18	50	60	42	0.13
SAPA-30	30	50	60	42	0.14
SAPA-36	36	50	60	42	0.11
SAPA-42	42	60	67.5	38	0.13
SAPA-47	47	67	67.0	38	0.14

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Proximity swtich mounts



Mat.: Steel

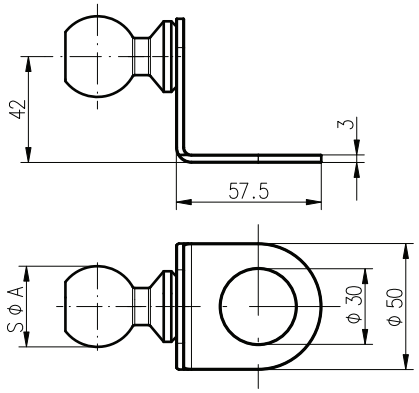


Part no.	SØ A	(kg)
SAPS-18-K28	28.5	0.18
SAPS-18-K32	32.0	0.23
SAPS-18-K36	36.0	0.25

Proximity swtich mounts



Mat.: Steel



Part no.	SØ A	(kg)
SAPS-30-K28	28.5	0.21
SAPS-30-K32	32.0	0.24
SAPS-30-K36	36.0	0.27

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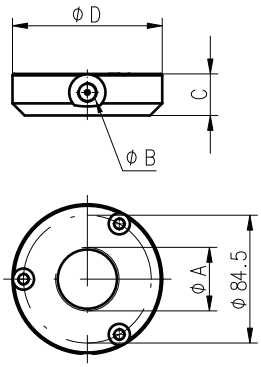
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Proximity switch mounts

Adapter for double blank detector



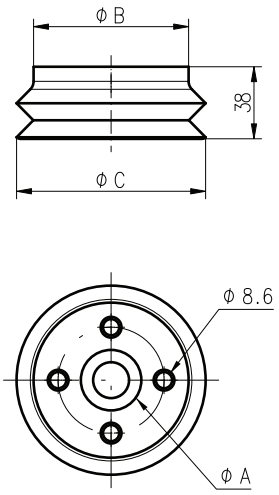
Mat.: Aluminium



Part no.	Ø A	Ø B	C	Ø D	(kg)
825SM-4215-3/8-NPT	M42x1.5	3/8-NPT	27.5	99	0.44
825SM-54075-3/8-NPT	M54x0.75	3/8-NPT	25.0	120	0.56
825SM-1810-G1/4	M18x1.0	G1/4	27.5	99	0.26
825SM-3015-G3/8	M30x1.5	G3/8	27.5	99	0.23
825SM-4215-G3/8	M42x4.5	G3/8	27.5	99	0.44
825SM-54075-G3/8	M54x0.75	G3/8	25.0	120	0.56

Vacuum cups for double blank detector





Part no.	Ø A	Ø B	Ø C	(kg)
100BT-4215-*	42	85	100	0.12
125BT-4215-*	54	109	125	0.20

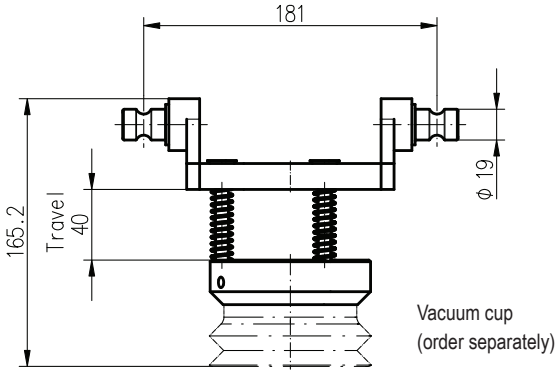
Ordering information e.g.: 100BT-4215-55	
Size	Hardness in Shore
↓	↓
100BT-4215	30 (green)
125BT-4215	45 (red)
	55 (yellow)
	60 (black)

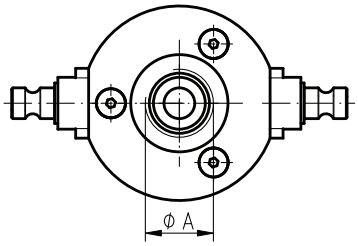
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Adapter for spring-mounted double blank detector



Mat.: Aluminium



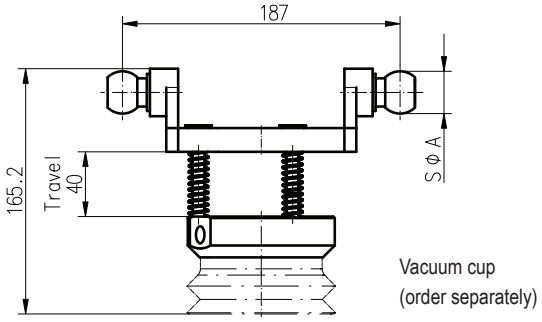


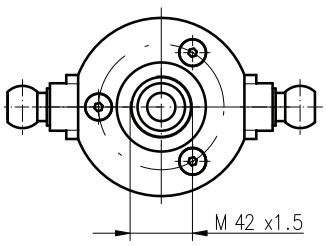
Part no.	Ø A	(kg)
825SM-0000-01	-	1.34
825SM-1810-01	M18x1.0	1.21
825SM-3015-01	M30x1.5	1.85
825SM-4215-01	M42x1.5	1.15
825SM-54075-01	M54x0.75	1.06

Adapter for spring-mounted double blank detector



Mat.: Aluminium





Part no.	SØ A	(kg)
825SM-4215-01-K28	28.5	1.15
825SM-4215-01-K32	32.0	1.30

Subject to modification
Edition 01/2013

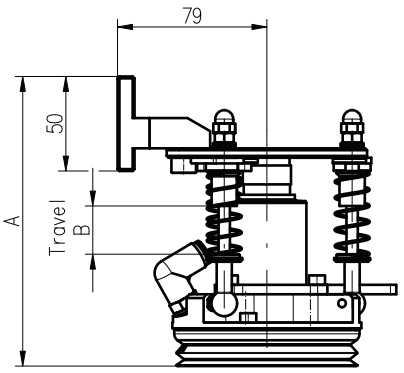
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Proximity switch mounts

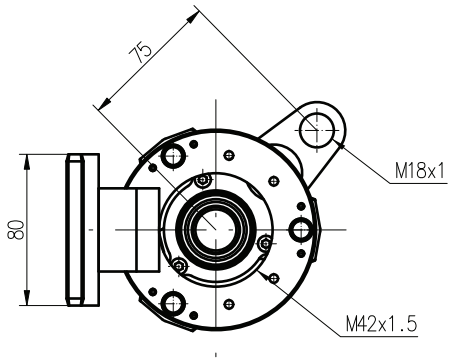
Spring-mounted double blank detector with belcup



Mat.: Aluminium



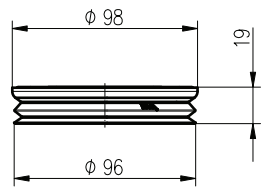
Part no.	A	B	(kg)
825SM-4215-DBT-*	153.2	25.5	0.726
825SM-4215-DBT100-*	227.5	100.0	0.838

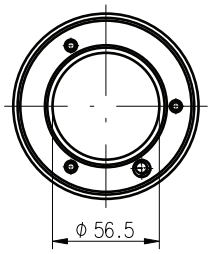


Ordering information		e.g.: 825SM-4215-DBT-55
825SM-4215	-	-
	Size	Hardness in Shore
	↓	↓
	DBT	30 (green)
	DBT100	45 (red)
		55 (yellow)
		60 (black)
		WF2** (black)
		**High temperature resistent up to 250°C

Belcup for Spring-mounted double blank detector







Part no.	(kg)
100DBT-4215-*	0.726

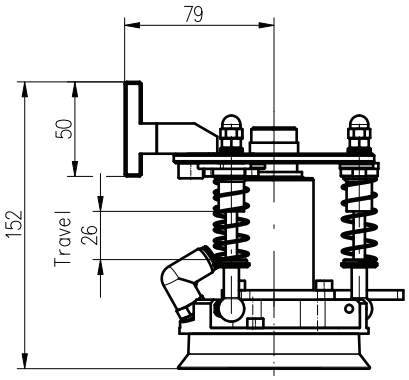
Ordering information	e.g.: 100DBT-4215-55
100DBT-4215	Hardness in Shore
	↓
	30 (green)
	45 (red)
	55 (yellow)
	60 (black)
	WF2** (black)
	**High temperature resistent up to 250°C

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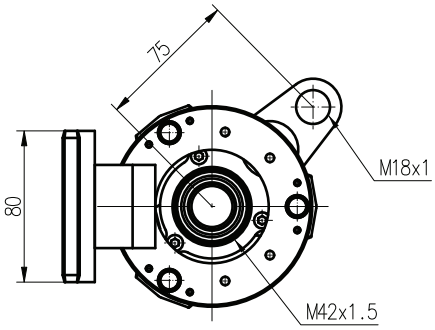
Spring-mounted double blank detector with flat foot cup



Mat.: Aluminium



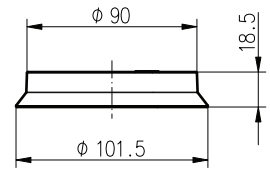
Part no.	(kg)
825SM-4215-DBTF-*	0.708

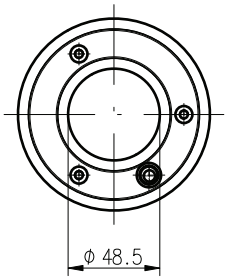


Ordering information	e.g.: 825SM-4215-DBTF-55
825SM-4215-DBTF	-
	Hardness in Shore
	↓
	30 (green)
	45 (red)
	55 (yellow)
	60 (black)
	WF2** (black)
	**High temperature resistent up to 250°C

Flat foot cup for Spring-mounted double blank detector







Part no.	(kg)
100DBTF-4215-*	0.726

Ordering information	e.g.: 100DBTF-4215-55
100DBTF-4215	-
	Hardness in Shore
	↓
	30 (green)
	45 (red)
	55 (yellow)
	60 (black)
	WF2** (black)
	**High temperature resistent up to 250°C

Subject to modification
Edition 01/2013

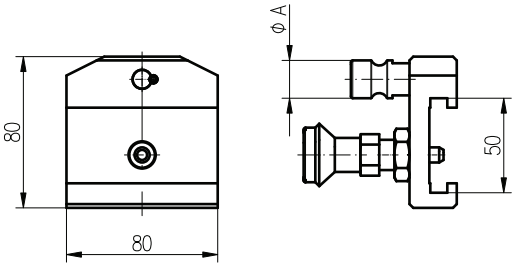
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Proximity switch mounts

Holder for spring-mounted double blank detector



Mat.: Aluminium

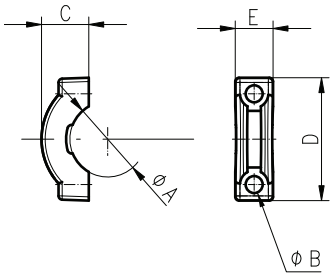


Part no.	Ø A	(kg)
825SM-4215-05-AP	19	0.32
825SM-4215-05-AP-B20	20	0.32

Clamp



Mat.: Aluminium



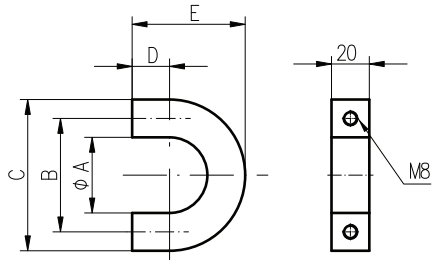
Part no.	Ø A	Ø B	C	D	E	(kg)
TR-150-31	1.5“	M8	25	65	20	0.05
TR-150-31-03	1.5“	Ø9	25	65	20	0.05
TR-250-31-02	2.5“	M8	30	90	20	0.07
TR-250-31-03	2.5“	Ø9	30	90	17	0.07
TR-40-31	40	M8	25	65	20	0.05
TR-40-31-03	40	Ø9	25	65	20	0.05
TR-60-31	60	M8	30	90	20	0.07
TR-60-31-02	60	M8	30	90	20	0.07
TR-60-31-03	60	Ø9	30	90	17	0.07

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Clamp



Mat.: Aluminium

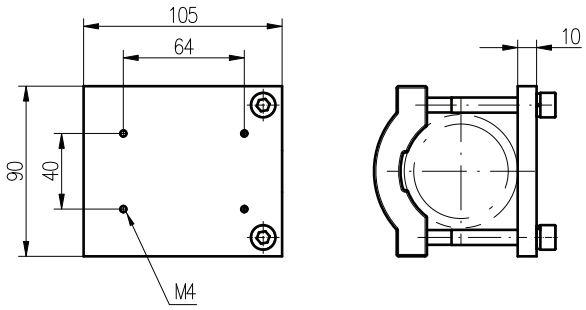


Part no.	Ø A	B	C	D	E	(kg)
TR-150-31-02	1.5“	60	80	19.8	59.8	0.14
TR-250-31-04	2.5“	86	100	29.8	79.8	0.20
TR-40-31-02	40	60	80	19.8	59.8	0.14
TR-60-31-04	60	86	100	29.8	79.8	0.20

Mounting plate for e-distributor



0.33 kg
Mat.: Aluminium

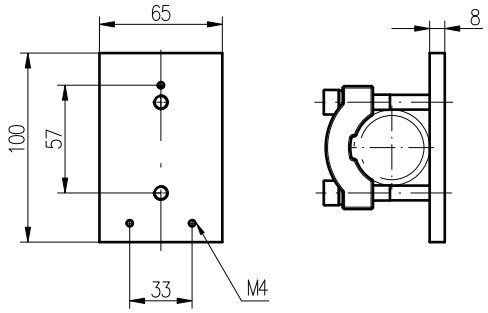


Part no.	A
PL-105-250	73
PL-105-60	70

Mounting plate for e-distributor



0.245 kg
Mat.: Aluminium



Part no.
PL-100-40-S

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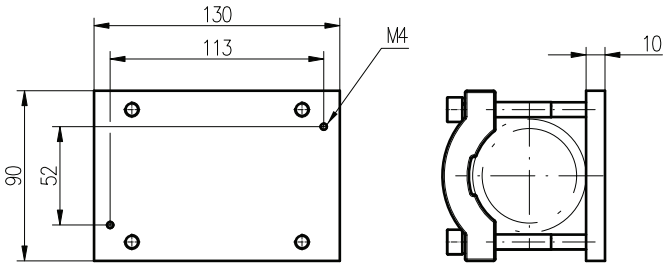
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Proximity switch mounts

Mounting plate for e-distributor



0.33 кg
Mat.: Aluminium

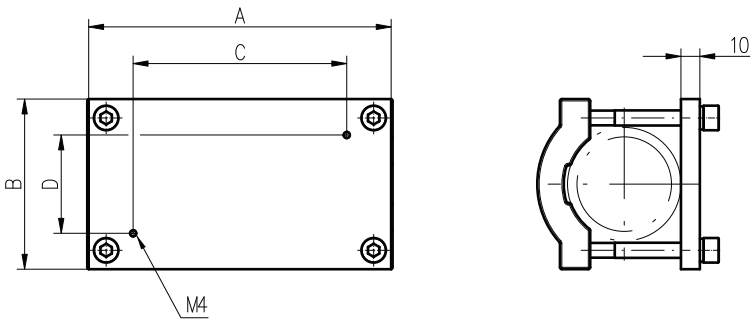


Part no.	A
PL-130-250	73
PL-130-60	70

Mounting plate for e-distributor



Mat.: Aluminium



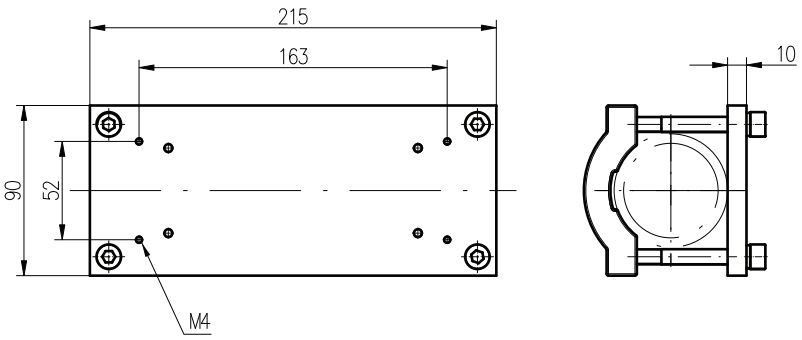
Part no.	A	B	C	D	(kg)
PL-160-250	160	250	113	52	0.54
PL-215-150	215	150	157	52	0.52
PL-215-250	215	250	157	52	0.57
PL-160-60	160	60	113	52	0.54
PL-215-40	215	40	157	52	0.52
PL-215-60	215	60	157	52	0.57

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Mounting plate for e-distributor



0.67 kg
Mat.: Aluminium

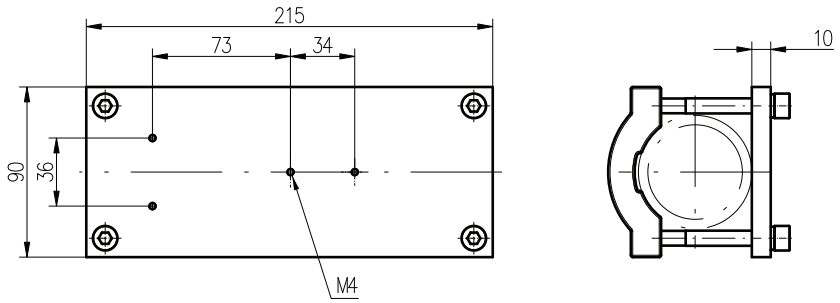


Part no.	A
PL-215-250-DC	73
PL-215-60-DC	70

Mounting plate for e-distributor



0.67 kg
Mat.: Aluminium



Part no.	A
PL-215-250-S	73
PL-215-60-S	70

Subject to modification
Edition 01/2013

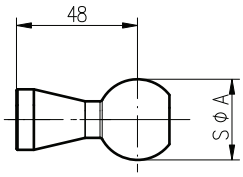
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Proximity switch mounts

Ball mount



Mat.: Aluminium

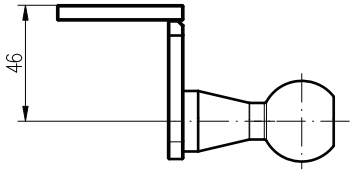


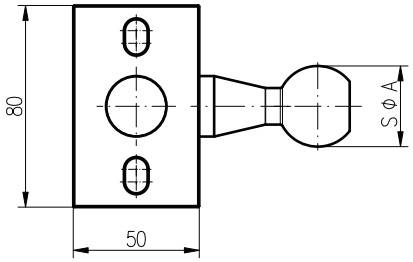
Part no.	S ØA	(kg)
KGL-PL-K28-P002	28.5	0.16
KGL-PL-K32-P002	32.0	0.15
KGL-PL-K36-P002	36.0	0.15

Ball adapter plate



Mat.: Aluminium



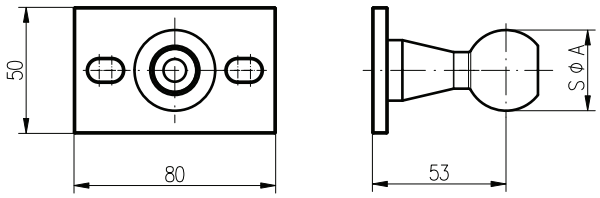


Part no.	S ØA	(kg)
KGL-PL-00-K28	28.5	0.46
KGL-PL-00-K32	32.0	0.47
KGL-PL-00-K36	36.0	0.49

Ball adapter plate



Mat.: Aluminium



Part no.	S ØA	(kg)
KGL-PL-90-K28	28.5	0.34
KGL-PL-90-K32	32.0	0.35
KGL-PL-90-K36	36.0	0.37

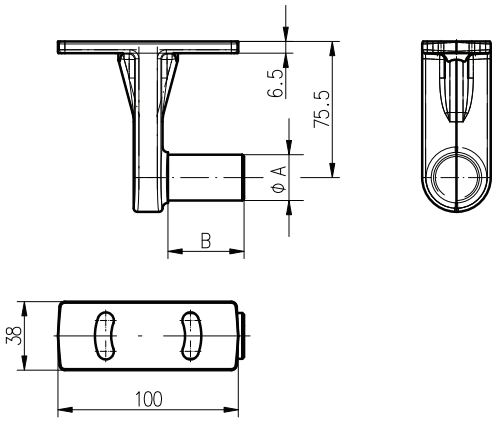
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Edition **01/2013**

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Shovel adapters



Mat.: Steel

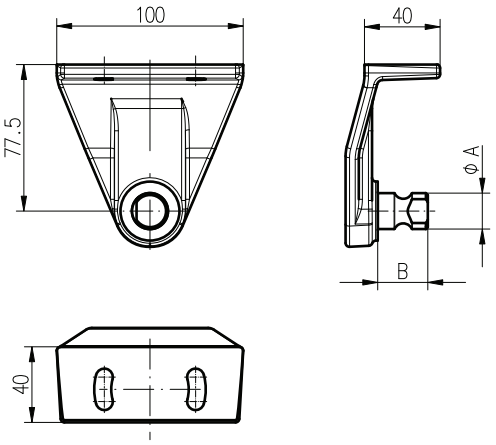


Part no.	Ø A	B	(kg)
EST-90-100-410	0.75“	26.5	0.26
EST-90-19-410	19	26.5	0.22
EST-90-25-410	25	42.2	0.26

Shovel adapters



Mat.: Steel



Part no.	Ø A	B	(kg)
EST-00-075	0.75“	26.5	0.24
EST-00-100	1.0“	42.5	0.26
EST-00-19-410	19	26.5	0.24
EST-00-25-410	25	26.5	0.26

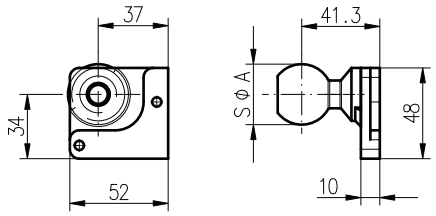
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Edition 01/2013

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Proximity switch mounts

Shovel mounts



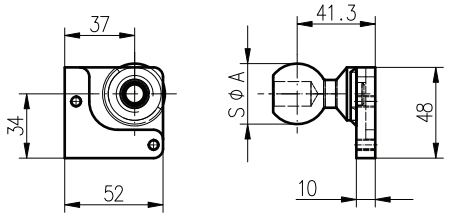


Mat.: Steel

Part no.	SØ A	^a (kg)
SH-K28-L	28.5	0.270
SH-K32-L	32.0	0.299
SH-K36-L	36.0	0.321

Shovel mounts





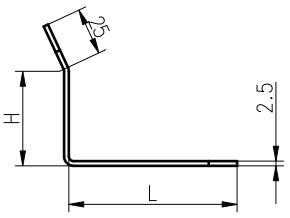
Mat.: Steel

Part no.	SØ A	^a (kg)
SH-K28-R	28.5	0.270
SH-K32-R	32.0	0.299
SH-K36-R	36.0	0.321

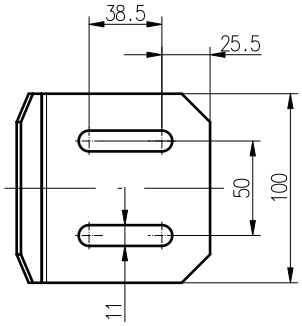
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Nest guides





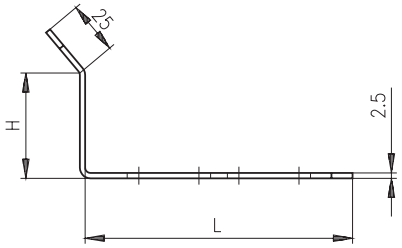
Mat.: Steel



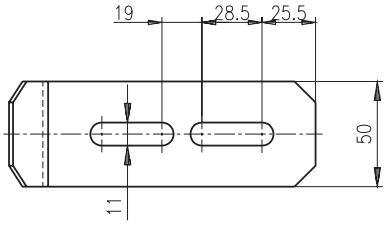
Ordering information		e.g.: NPG-410S-89-50
NPG-410S	-L	-H
	Length	Height
	↓	↓
	89	(25 - 100) 25mm increments
	114	
	133	
	165	

Nest guides





Mat.: Steel



Ordering information		e.g.: NPG-410E-127-50
NPG-410E	-L	-H
	Length	Height
	↓	↓
	127	(25 - 100) 25mm increments
	152	
	178	
	203	

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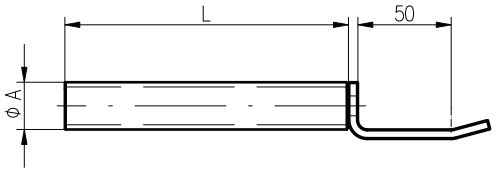
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Proximity switch mounts

Nest pad guide



Mat.: Steel

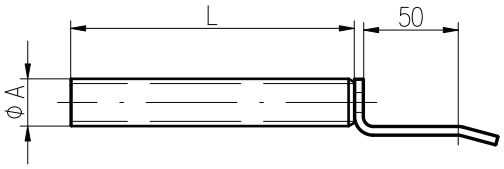


Ordering information			e.g.: NPG-410-25-50-200
NPG-410	-A	-50	-L
	Diameter		Length
	↓		↓
	20		150 - 400 (50mm increments)
	25		
	30		

Nest pad guide



Mat.: Steel



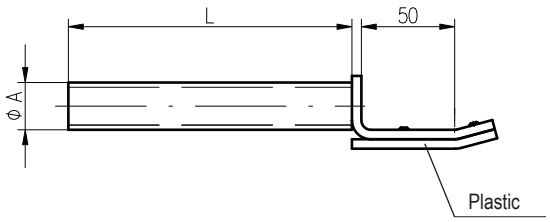
Ordering information				e.g.: NPG-410-25-50-200-B
NPG-410	-A	-50	-L	-B
	Diameter		Length	
	↓		↓	
	20		150 - 400 (50mm increments)	
	25			
	30			

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Nest pad guide



Mat.: Steel

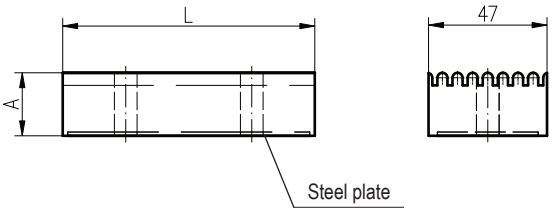


Ordering information				e.g.: NPG-410-25-50-200-A
NPG-410	-A	-50	-L	-A
	Diameter		Length	
	↓		↓	
	20		150 - 400 (50mm increments)	
	25			
	30			

Rib top pads



Mat.: NBR



Ordering information			e.g.: RT-25-150-45
RT	-A	-L	-
	Height	Length	Durometer
	↓	↓	↓
	12	100 - 300 (50mm increments)	30 (green)
	25		45 (red)
	50		60 (black)
	75		

Subject to modification
Edition 01/2013

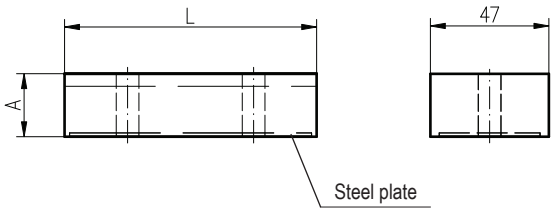
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Proximity switch mounts

Smooth top pads



Mat.: NBR



Ordering information			e.g.: ST-25-150-45
ST	-A	-L	-
	Height	Lenght	Dujrometer
	↓	↓	↓
	12	100 - 300 (50mm increments)	30 (green)
	25		45 (red)
	50		60 (black)
	75		

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Notes

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Pneumatic clamp and accessories

Picture	Designation	Page
	Pneumatic clamp, PS-30-I-35	205
	Pneumatic clamp, PS-30-I-35	205
	Pneumatic clamp, PS-30-I-35	205
	Pneumatik clamp, PS-30-L	206
	Pneumatik clamp, PS-30-L	206
	Pneumatik clamp, PS-40-I-40	207
	Pneumatik clamp, PS-40-I-40	207
	Pneumatik clamp, PS-40-I2-40	208
	Pneumatik clamp, PS-40-I-40	209
	Pneumatik clamp, PS-40-I	209
	Pneumatik clamp, PS-40-I	210
	Pneumatik clamp, PS-40-I	210
	Pneumatic clamp, PS-40-L-Typ	211
	Pneumatic clamp, PS-40-L-Typ	211
	Pneumatic clamp, PS-40-L-Typ	212
	Pneumatic clamp, PS-40-L-Typ	212

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Picture	Designation	Page
	Pneumatic clamp, PSB-Typ	213
	Pneumatik clamp, GT-30-01 and GT-40-01	214
	Pneumatic clamp, GT-30-02 and GT-40-02	215
	Pneumatik clamp, GTK-30-01 and GT-K40-01	216
	Pneumatik clamp, GTK-30-01 and GT-K40-01	217
	Ball screw	218
	Ball screw	218
	Clamping top	218
	Gripper jaw	219
	Gripper jaw	219
	Gripper jaw	219
	Gripper jaw	219
	Gripper jaw	220
	Gripper jaw	220
	Gripper jaw	220
	Sensor	221

Subject to modification
Edition 01/2013

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Pneumatic clamp and accessories

Picture	Designation	Page
	Sensor	221
	Sensor	222
	Sensor	222
	Angle light barrier	223
	Angle light barrier	223
	Mount for pneumatic clamp	224
	Clamp mount	224
	Ball mount for GT and GTK mount, left	225
	Ball mount for GT and GTK mount, right	225
	Ball mount for GT and GTK mount	225
	Clamp mount for GT-40 Clamp	226
	Clamp mount for GT-40 Clamp	226
	Clamp mount for GT-40 Clamp	226
	Clamp mount	227
	Clamp mount	227
	Clamp mount	228

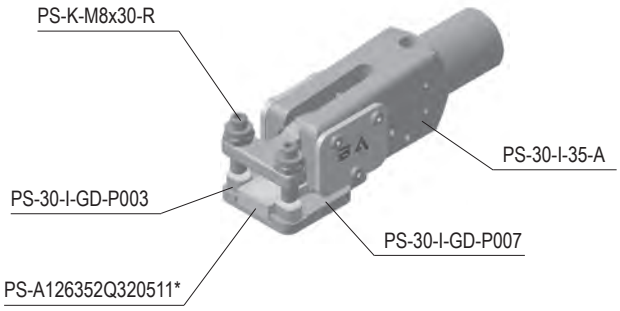
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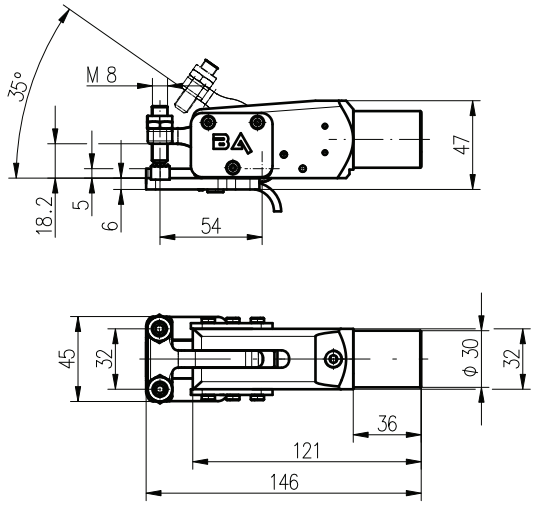
Picture	Designation	Page
	Clamp mount	228
	Support	229
	Support	229
	Support	230
	Support	230
	Support	231
	Support	231
	Clamp mount	232
	Clamp mount	232
	Clamp mount	233
	Clamp mount	233
	Clamp mount	234
	Clamp mount	234
	Mount for pneumatic clamp	235
	Flange	235

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Edition 01/2013

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Pneumatic clamp, PS-30-I-35

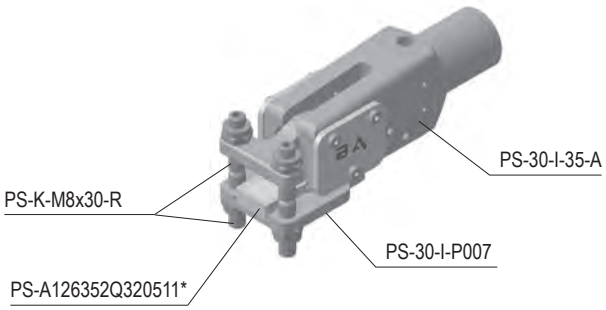


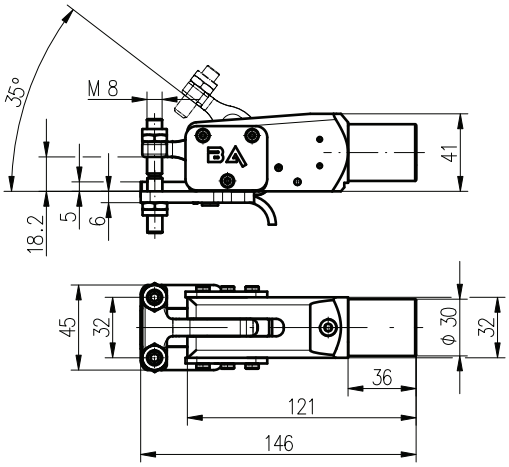


Part no.	(kg)
PS-30-I-35-K-B	0.569
PS-30-I-35-K-B-S*	0.576

* with Sensor

Pneumatic clamp, PS-30-I-35

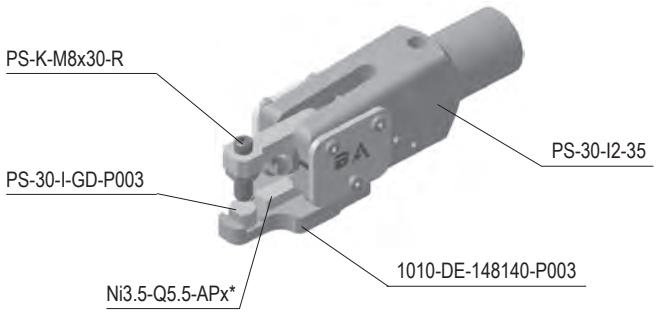


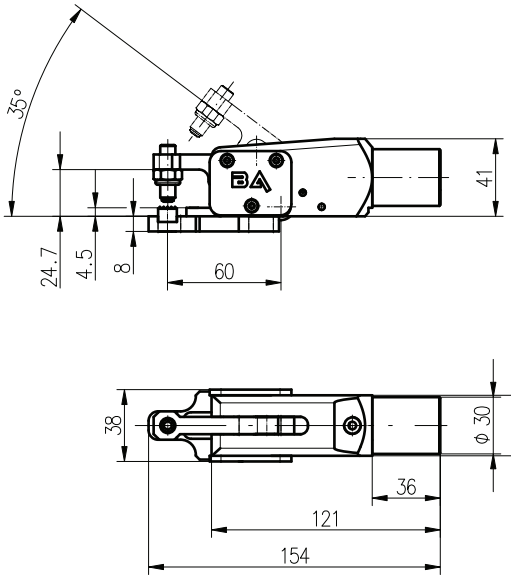


Part no.	(kg)
PS-30-I-35-K-K	0.571
PS-30-I-35-K-K-S*	0.578

* with Sensor

Pneumatic clamp, PS-30-I-35



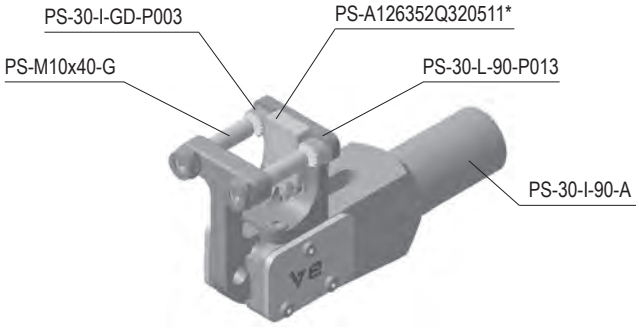


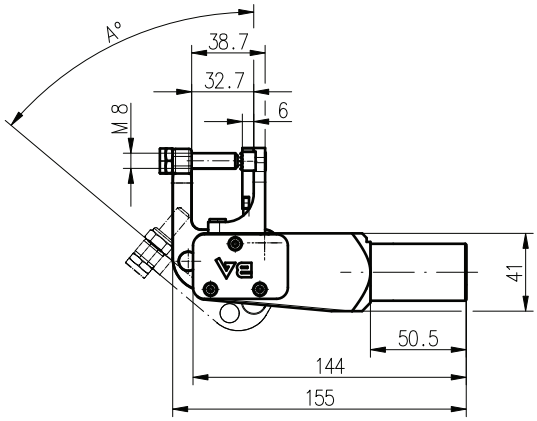
Part no.	(kg)
PS-30-I2-35-K-B	0.555
PS-30-I2-35-K-B-S*	0.562

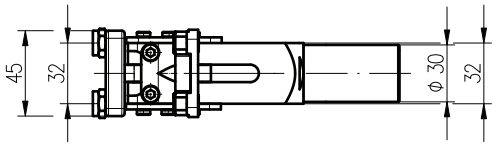
* with Sensor

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Pneumatik clamp, PS-30-L



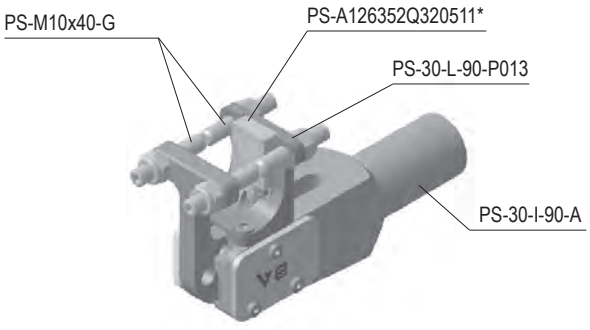


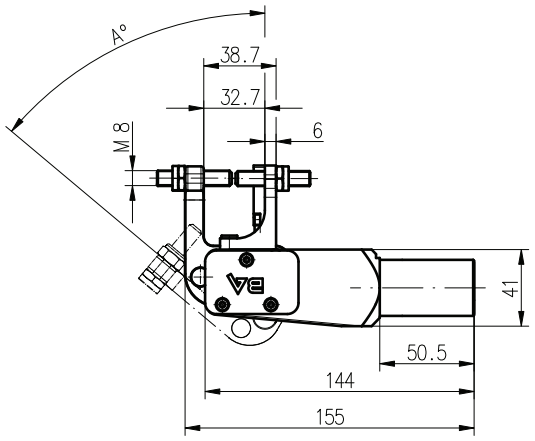


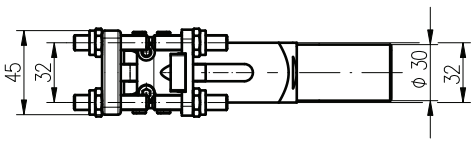
Part no.	A°	(kg)
PS-30-L-50-K-B	50	0.614
PS-30-L-50-K-B-S*	50	0.621
PS-30-L-90-K-B	90	0.614
PS-30-L-90-K-B-S*	90	0.621

*with Sensor

Pneumatik clamp, PS-30-L







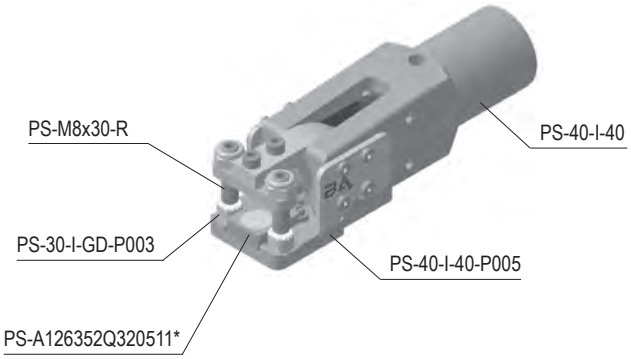
Part no.	(kg)
PS-30-L-50-K-K	0.685
PS-30-L-50-K-K-S*	0.666
PS-30-L-90-K-K	0.685
PS-30-L-90-K-K-S*	0.666

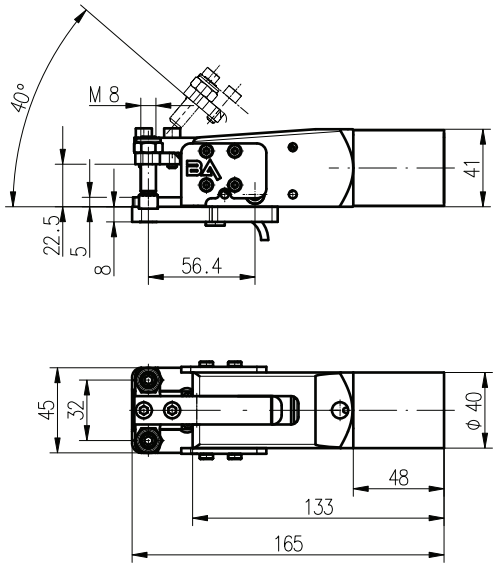
*with Sensor

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Pneumatic clamp and accessories

Pneumatik clamp, PS-40-I-40

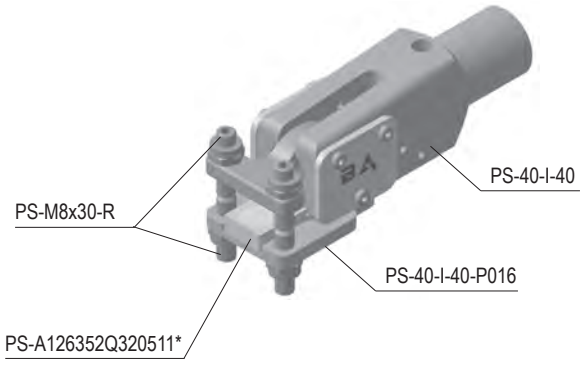


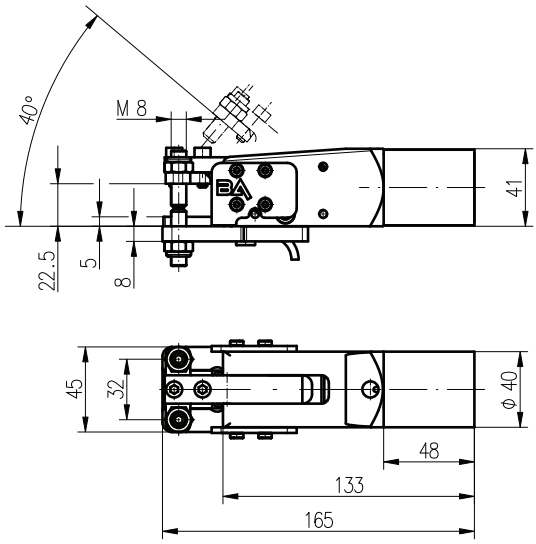


Part no.	(kg)
PS-40-I-40-K-B	0.569
PS-40-I-40-K-B-S*	0.576

*with Sensor

Pneumatik clamp, PS-40-I-40



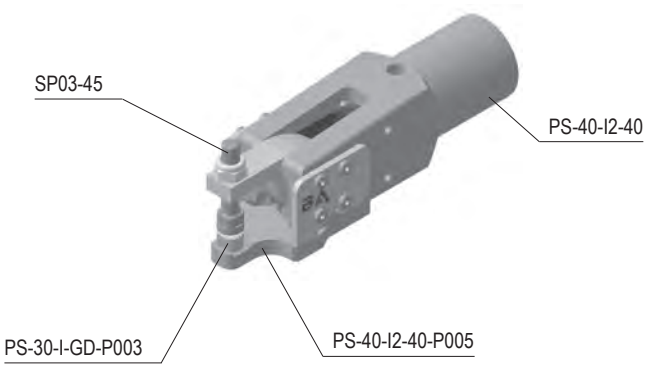


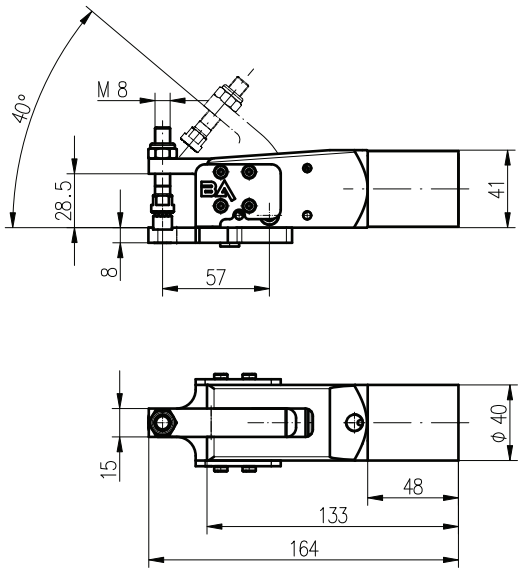
Part no.	(kg)
PS-40-I-40-K-K	1.00
PS-40-I-40-K-K-S*	1.03

*with Sensor

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Pneumatik clamp, PS-40-I2-40



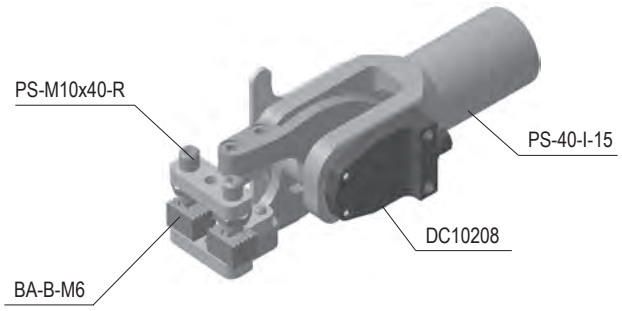


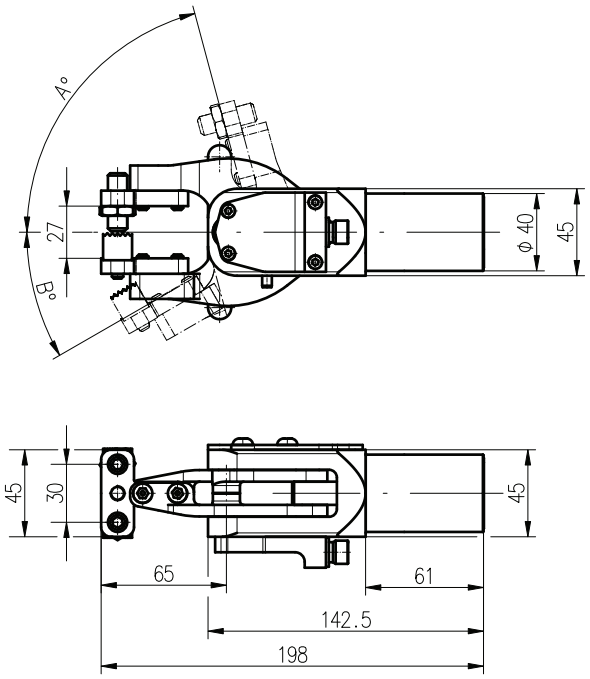
Part no.	(kg)
PS-40-I2-40-SP03-B	1.10

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Pneumatic clamp and accessories

Pneumatik clamp, PS-40-I-40

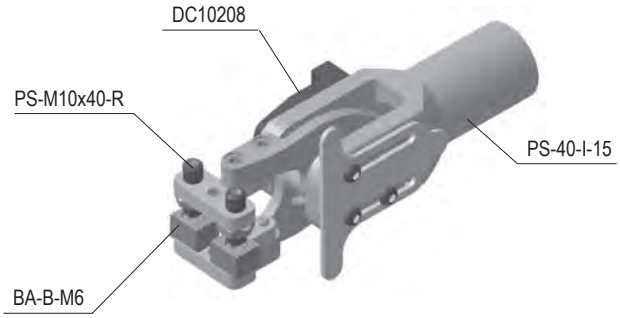


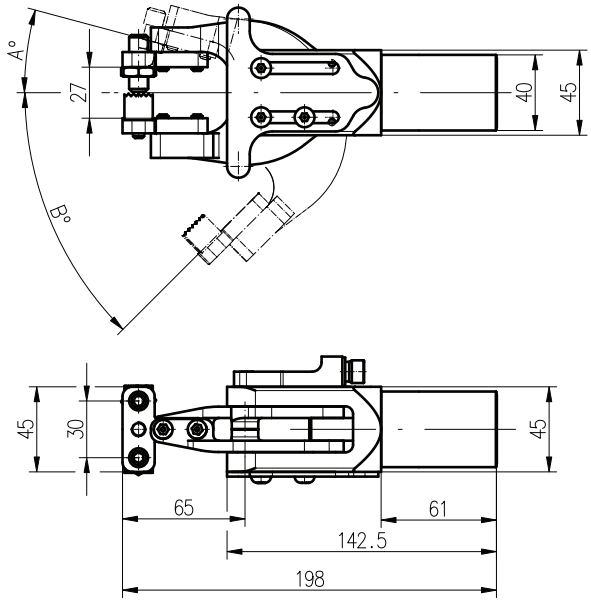


Part no.	A°	B°	(kg)
PS-40-I-15-15-T-K-B-SL	15	15	1.00
PS-40-I-15-60-T-K-B-SL	15	60	1.20
PS-40-I-75-75-T-K-B-SL	75	75	1.20

*with Sensor
SL: Sensor left

Pneumatik clamp, PS-40-I



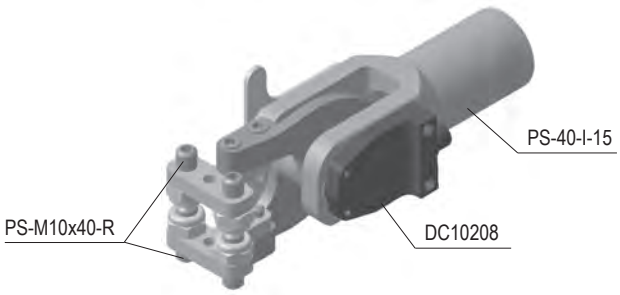


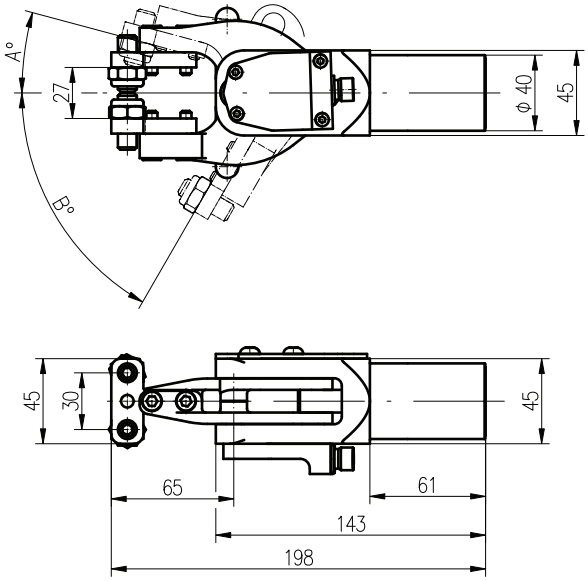
Part no.	A°	B°	(kg)
PS-40-I-15-15-T-K-B-SR	15	15	1.00
PS-40-I-15-60-T-K-B-SR	15	60	1.20
PS-40-I-75-75-T-K-B-SR	75	75	1.20

*with Sensor
SR: Sensor right

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Pneumatik clamp, PS-40-I

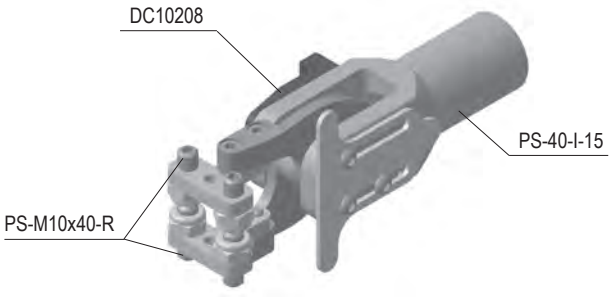


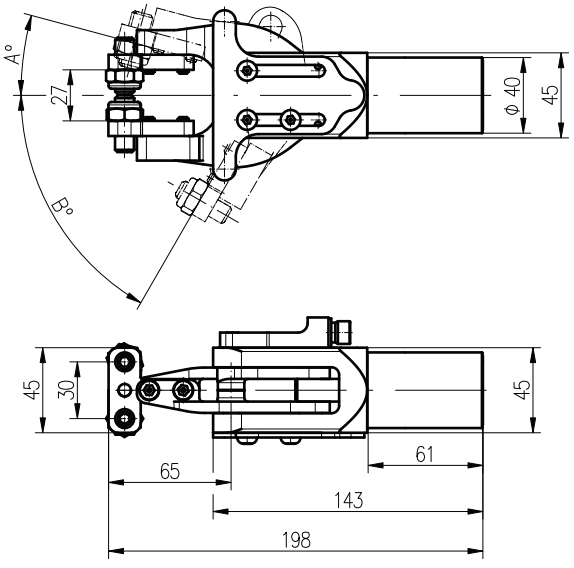


Part no.	A°	B°	(kg)
PS-40-I-15-15-T-K-K-SL	15	15	1.00
PS-40-I-15-60-T-K-K-SL	15	60	1.20
PS-40-I-75-75-T-K-K-SL	75	75	1.20

*with Sensor
SL: Sensor left

Pneumatik clamp, PS-40-I





Part no.	A°	B°	(kg)
PS-40-I-15-15-T-K-K-SR	15	15	1.00
PS-40-I-15-60-T-K-K-SR	15	60	1.20
PS-40-I-75-75-T-K-K-SR	75	75	1.20

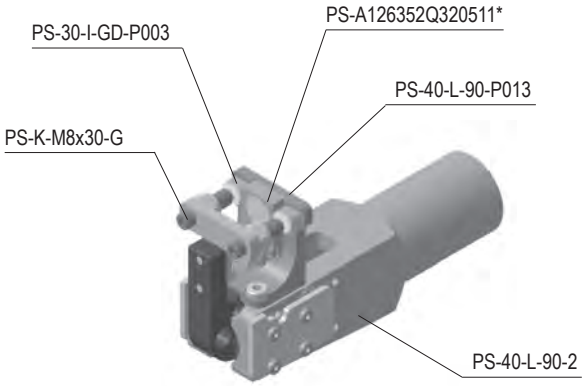
*with Sensor
SR: Sensor right

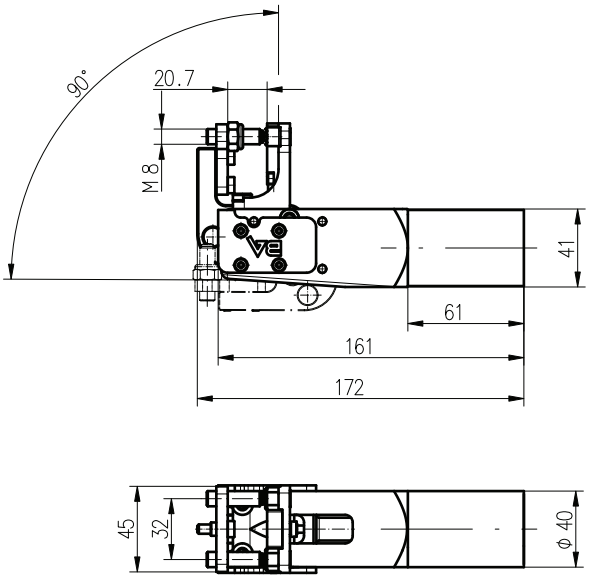
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Pneumatic clamp and accessories

Pneumatic clamp, PS-40-L-Typ

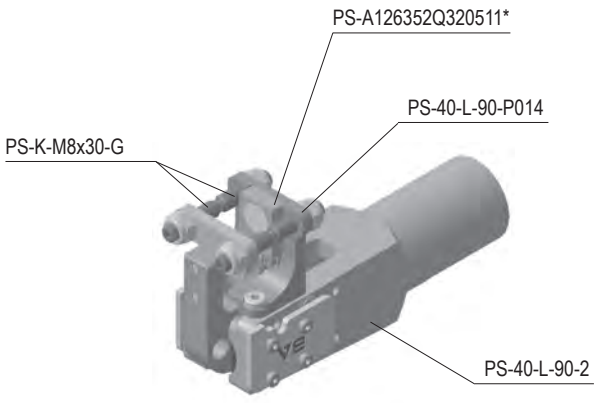


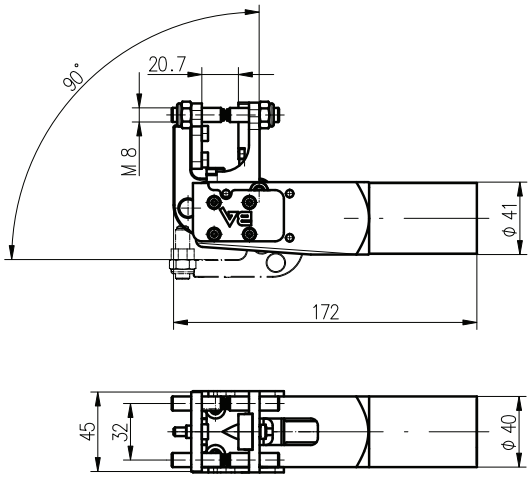


Part no.	(kg)
PS-40-L-90-2-K-B	0.85
PS-40-L-90-2-K-B-S*	0.86

* with Sensor

Pneumatic clamp, PS-40-L-Typ



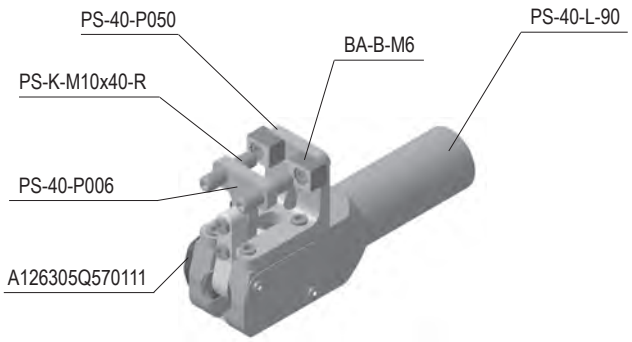


Part no.	(kg)
PS-40-L-90-2-K-K	0.85
PS-40-L-90-2-K-K-S*	0.86

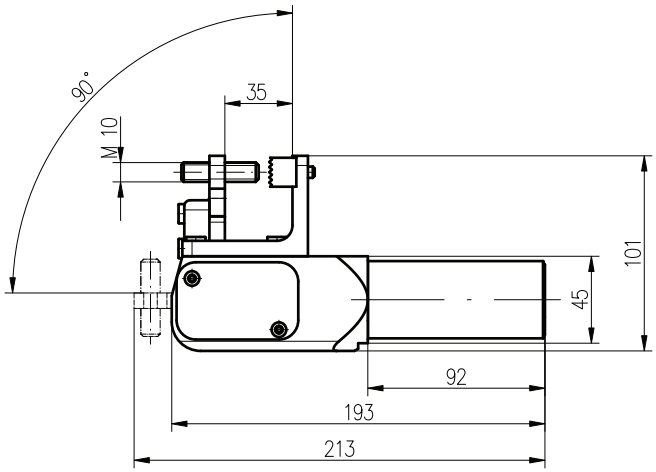
* with Sensor

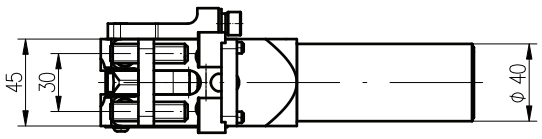
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Pneumatic clamp, PS-40-L-Typ



show: PS-40-L-90-K-B-SL

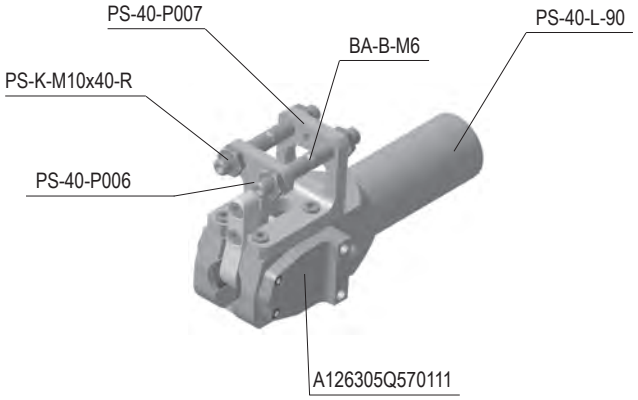




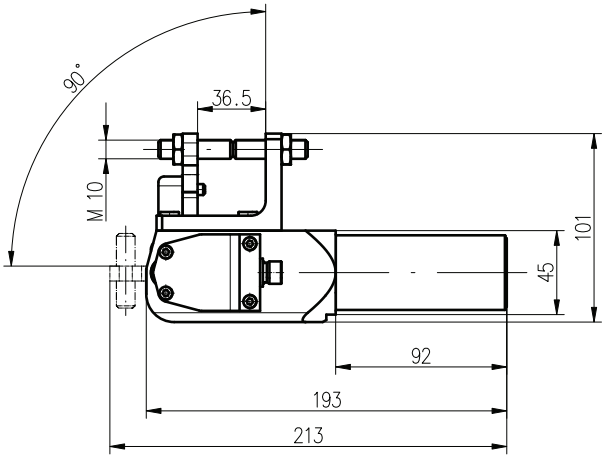
Part no.	(kg)
PS-40-L-90-K-B	1.54
PS-40-L-90-K-B-SL*	1.6
PS-40-L-90-K-B-SR*	1.6

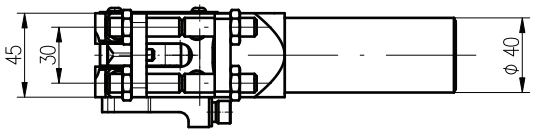
*with Sensor
SL: Sensor left
SR: Sensor right

Pneumatic clamp, PS-40-L-Typ



show: PS-40-L-90-K-K-SR





Part no.	(kg)
PS-40-L-90-K-K	1.54
PS-40-L-90-K-K-SL*	1.6
PS-40-L-90-K-K-SR*	1.6

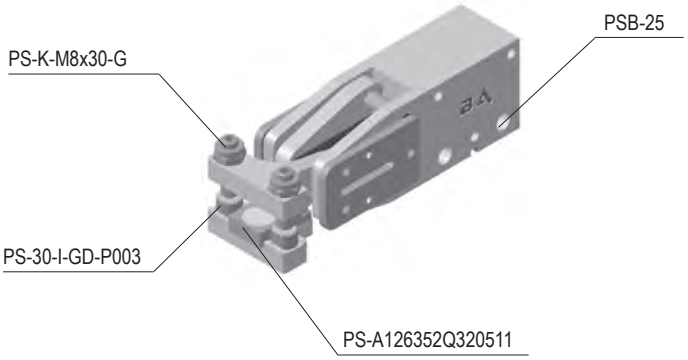
*with Sensor
SL: Sensor left
SR: Sensor right

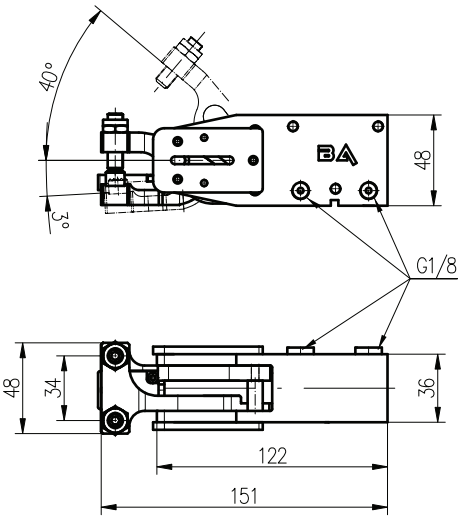
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Pneumatic clamp and accessories

Pneumatic clamp, PSB-Typ



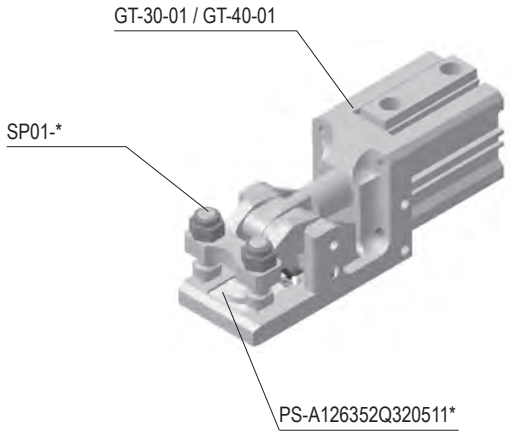


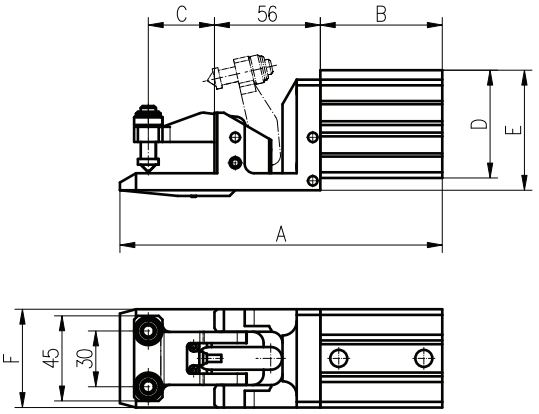
Part no.	(kg)
PSB-01-40-3-K-B	0.58
PSB-01-40-3-K-B-S*	0.69

* with Sensor

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Pneumatik clamp, GT-30-01 and GT-40-01





Part no.	A	B	C	D	E	F	(kg)
GT-30-01	144.0	53.0	25	49.5	59.5	45	0.85
GT-40-01	170.5	64.5	35	57.0	63.5	52	0.95

Gripper jaw


SP01

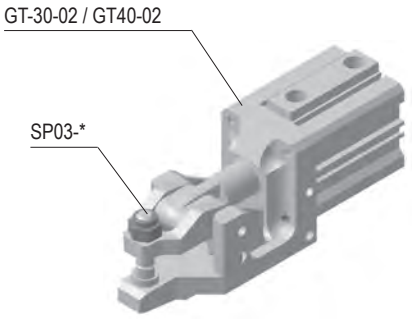

SP03

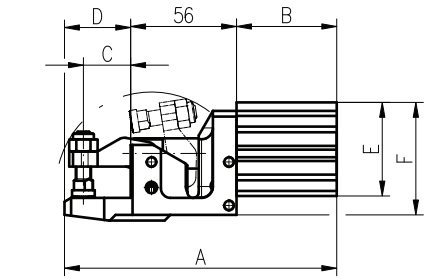

SP12

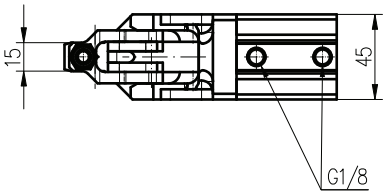
Ordering information			e.g.: GT-40-01-SP01-S
GT-	-	-	
	Optional size	Optional gripper jaw	Optional sensor
	↓	↓	↓
	30-01	SP01	S
	40-01	SP03	
		SP12	

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Pneumatic clamp, GT-30-02 and GT-40-02







Part no.	A	B	C	D	E	F	(kg)
GT-30-02	144.0	53.0	25	35	49.5	59.5	1.10
GT-40-02	165.5	64.5	35	49	52.0	63.5	1.30

Gripper jaw



SP01



SP03

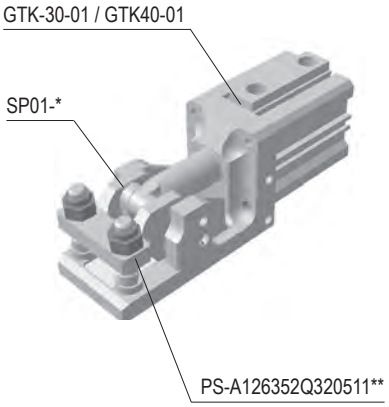


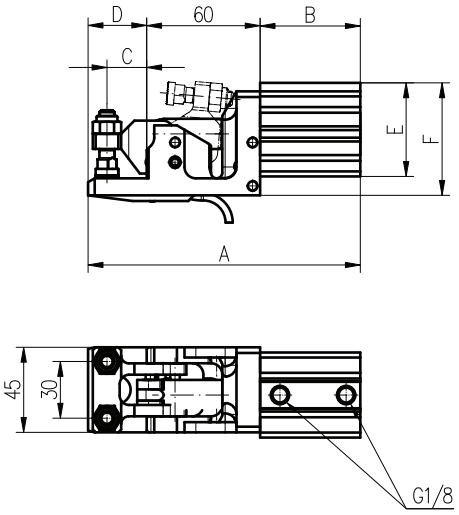
SP12

Ordering information		e.g.:GT-40-02-SP03
GT	-	-
	Optional Size	Optional Gripper jaw
	↓	↓
	30-02	SP01
	40-02	SP03
		SP12

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Pneumatik clamp, GTK-30-01 and GT-K40-01





Part no.	A	B	C	D	E	F	(kg)
GTK-30-01	144.0	53.0	21	31	49.5	59.5	1.10
GTK-40-01	165.5	59.5	31	46	57.0	63.5	1.30

Gripper jaw


SP01


SP03


SP12

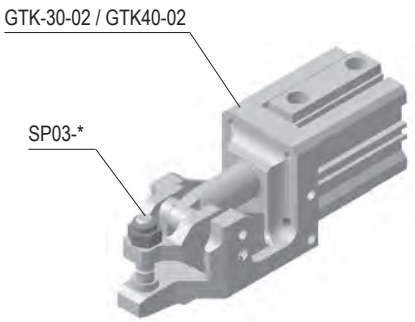
Ordering information			e.g.: GTK-40-01-SP01-S
GTK	-	-	-
	Optional Size	Optional Gripper jaw	Optional Sensor
	↓	↓	↓
	30-01	SP01	S**
	40-01	SP03	
		SP12	

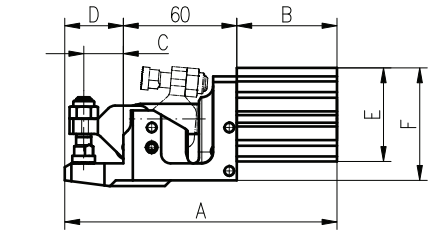
Subject to modification
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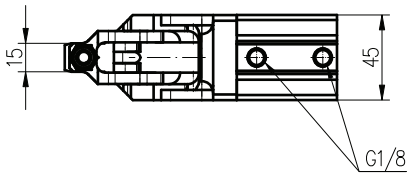
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Pneumatic clamp and accessories

Pneumatik clamp, GTK-30-01 and GT-K40-01







Part no.	A	B	C	D	E	F	(kg)
GTK-30-02	144.0	53.0	21	31	49.5	59.5	1.10
GTK-40-02	165.5	59.5	31	46	57.0	63.5	1.30

Gripper jaw



SP01



SP03



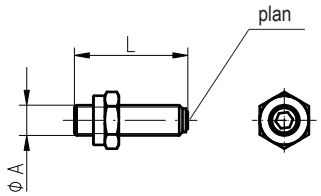
SP12

Ordering information			e.g.:GTK-40-02-SP03
GTK	-	-	-
	Optional Size	Optional Gripper jaw	Optional Sensor
	↓	↓	↓
	30-02	SP01	S
	40-02	SP03	
		SP12	

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Ball screw



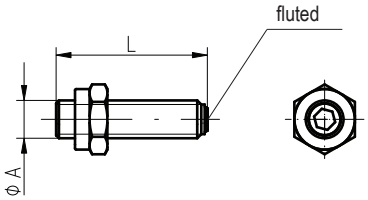


Mat.: Steel

Part no.	Ø A	L	(kg)
PS-K-M8x25-G	M8	25	0.007
PS-K-M8x30-G	M8	30	0.007
PS-K-M10x40-G	M10	40	0.010

Ball screw



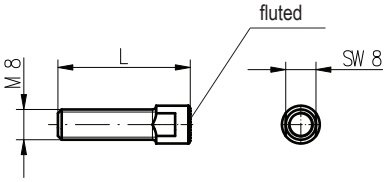


Mat.: Steel

Part no.	Ø A	L	(kg)
PS-K-M8x25-R	M8	25	0.007
PS-K-M8x30-R	M8	30	0.007
PS-K-M10x40-R	M10	40	0.010

Clamping top





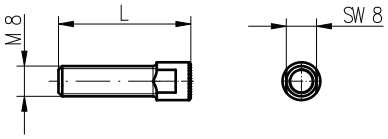
Mat.: Steel

Part no.	L	(kg)
SP03-23	23	0.011
SP03-30	30	0.014
SP03-35	35	0.016
SP03-45	45	0.020
SP03-55	55	0.024

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Gripper jaw



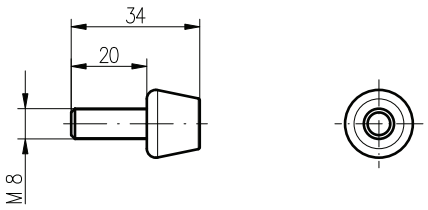


Mat.: Steel

Part no.	L	(kg)
SP01-35	35	0.015
SP01-45	45	0.019

Gripper jaw

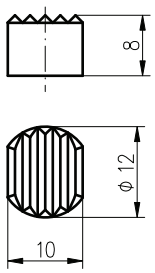




Part no.
SP12-43

Gripper jaw



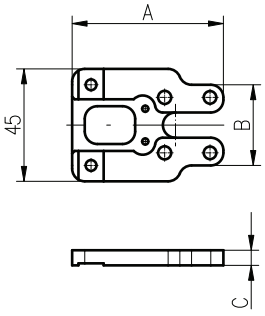


0.007 kg
Mat.: Steel

Part no.
PS-30-I-GD-P003

Gripper jaw





Mat.: Steel

Part no.	A	B	C	(kg)
PS-30-I-GD-P007	60	32	6	0.06
PS-40-I-40-P005	77	38	8	0.11

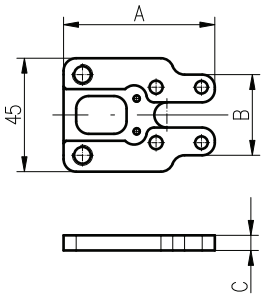
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Gripper jaw



Mat.: Steel

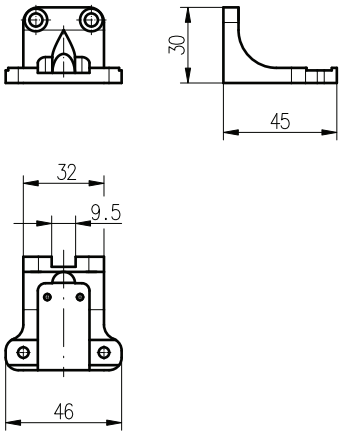


Part no.	A	B	C	♟ (kg)
PS-30-I-P007	60	32	6	0.06
PS-40-I-40-P016	77	38	8	0.11

Gripper jaw



♟ 0.09 kg
Mat.: Steel

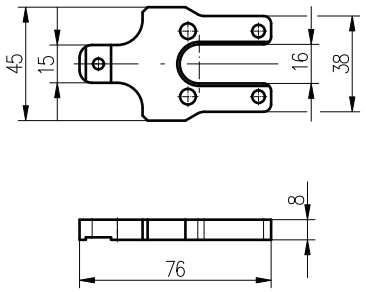


Part no.
PS-30-L-90-P013

Gripper jaw



♟ 0.113 kg
Mat.: Steel



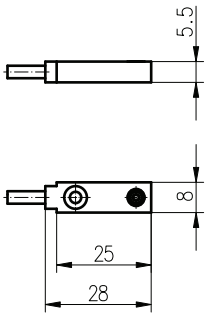
Part no.
PS-40-I2-40-P005

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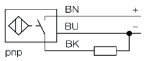
Sensor



Part no.	(kg)
Ni3,5-Q-5,5-AP6X	0.057



Connection diagram
PNP



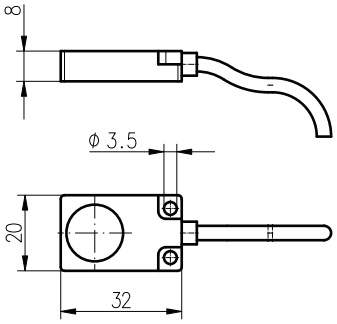
Rated operating distance Sn	3.5 mm
Mounting condition	non-flush
Assured sensing range	(0,81 x Sn) mm
Correction factors	St37 = 1, V2A ~ 0.7, Ms ~ 0.4, Al ~ 0.3
Repeatability	≤ 2 %
Temperaturdrift	10 %
Hysteresis	3…15 %
Ambient temperature	-25…+70 °C
Operating voltage	10…30VDC
Residual ripple	≤ 10 % Uss
DC rated operational current	≤ 150 mA
No-load current I0	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at Ie	≤ 1.8 V
Wire breakage /	
Reverse polarity protection	yes/ complete
Output function	3-wire, NO contact, PNP

Switching frequency	2 kHz
Design rectangular,	Q5.5
Dimensions	28x 8x 5.5 mm
Housing material Plastic,	PP-GF20
Tightening torque fixing screw	0.5 Nm
Connection	cable
Cable quality	3 mm, LifYY-11Y, PUR, 2 m
Cable cross section	3 x 0.14 mm2
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
Switching state	LED yellow

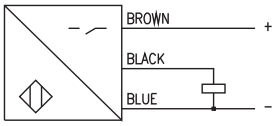
Sensor



Part no.	(kg)
PS-A126352Q32511	0.07



Connection diagram
PNP



Electrical Data

Supply voltage	10-30 V DC
Maximum load current	200 mA
Maximum load current	< 20 mA
Voltage drop	< 2 V
Current requirements	< 70 µA
Temperature range	-25 to 70° C
Hysteresis	3 to 15 %
Repetition accuracy	< 5 %

Particular protections

Short circuit protection
Overload protection
Reverse polarity protection
Power on pulse suppression
IP 67

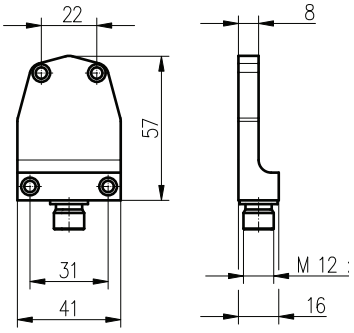
Output state visualisation LEDs

Green LED (Power)
Yellow LED (closed)
Connection
Cable section 3 x 0,034mm2
Cable length 2m

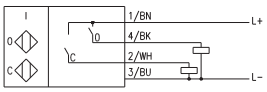
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Sensor





Connection diagram
PNP



Part no.	(kg)
A-126305Q570111	0.04

Electrical Data

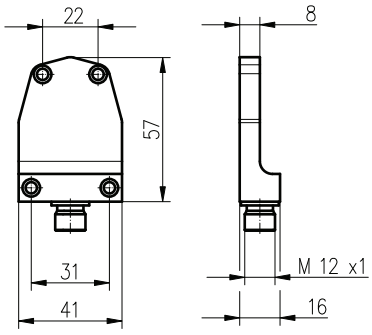
Supply voltage	10-30 V DC
Maximum load current	200 mA
Maximum load current	< 20 mA
Voltage drop	< 2 V
Current requirements	< 70 µA
Temperature range	-25 to 70° C
Hysteresis	3 to 15 %
Repetition accuracy	< 5 %

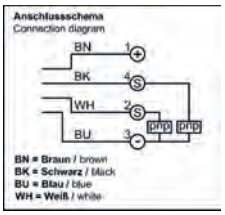
Particular protections

Short circuit protection
Overload protection
Reverse polarity protection
Power on pulse suppression
IP 67
Output state visualisation LEDs
Green LED (power)
Red LED (closed)
yellow LED (open)

Sensor







Part no.	(kg)
DC 10208	0.04

Electrical Data

Supply voltage	10-35 V DC
Maximum load current	200 mA
Internal power consumption	< 20 mA
Operating frequency	2000 Hz
Hysteresis	3 ... 15 %
Temperature range	-25 to 70° C
Insulation voltage endurance	500 V
Protection degree	IP67

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Pneumatic clamp and accessories

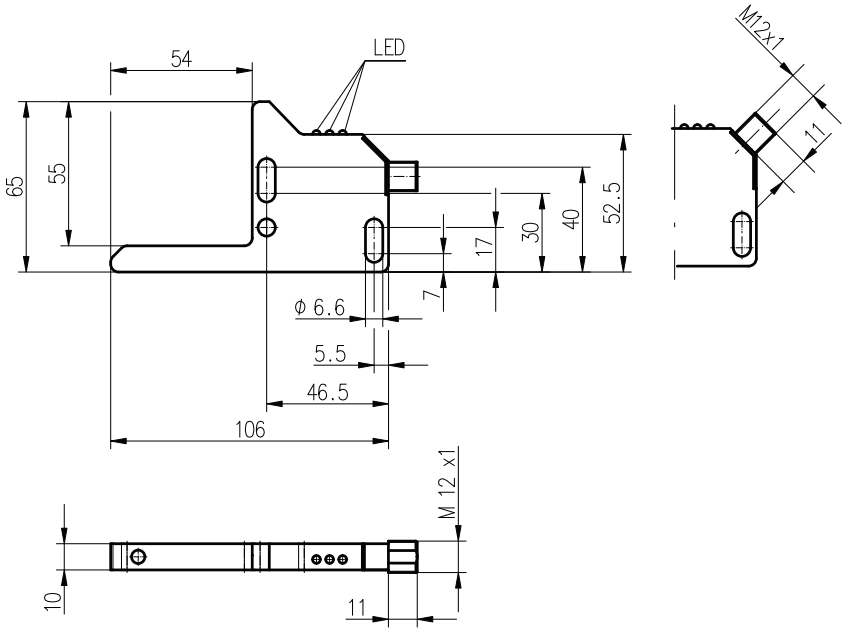
Angle light barrier



OGL 55/54 P6L-IBS



OGL 55/54 P6L-RIBS/PE



Part no.	Function	Connector
OGL 55/54 P6L-IBS	PNP	4 Pin
OGL 55/54 P6L-RIBS/PE	PNP	5 Pin

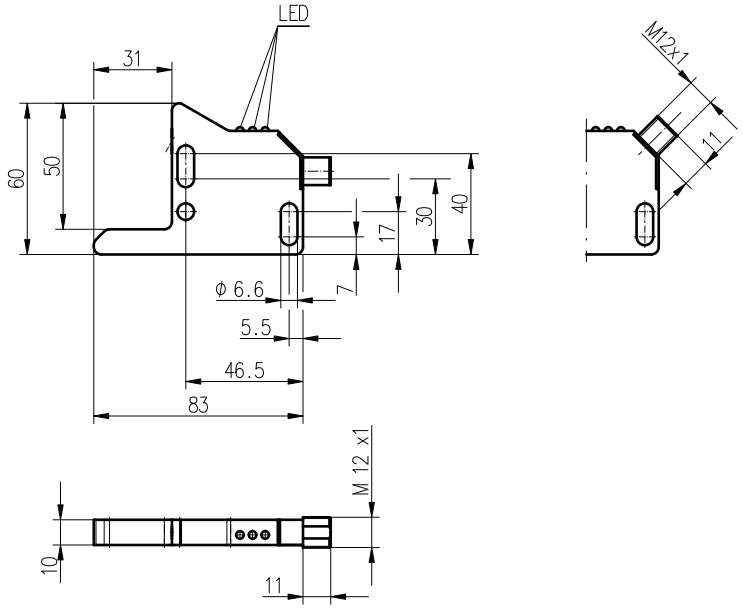
Angle light barrier



OGL 50/31 P6L-IBS



OGL 50/31 P6L-RIBS/PE



Part no.	Function	Connector
OGL 50/31 P6L-IBS	PNP	4 Pin
OGL 50/31 P6L-RIBS/PE	PNP	5 Pin

Electrical Data

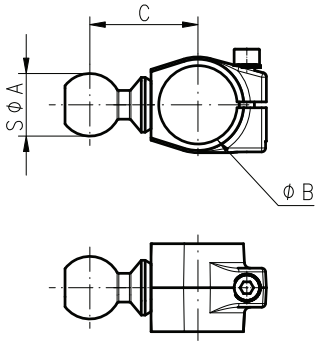
Service voltage	10-30 V DC
Output pnp.	NO
Contamination	output pnp
Ampacity	200 mA
Ampacity	< 45 mA
Operating frequency	200 Hz
Ambient temperature	-10...+60°C
Ambient light immunity	5000 Lux
Protection degree	IP 67
Casing material	die-cast zinc

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Mount for pneumatic clamp



Mat.: Steel

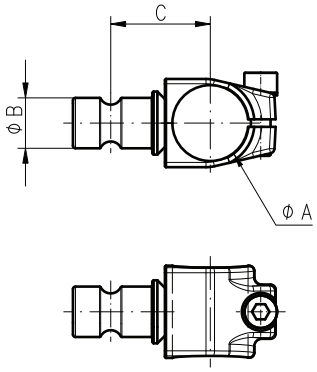


Part no.	SØ A	Ø B	C	(kg)
KGL-ESS-K28-20	28.5	20	42.6	0.193
KGL-ESS-K28-25	28.5	25	45.6	0.227
KGL-ESS-K28-30	28.5	30	48.2	0.262
KGL-ESS-K28-40	28.5	40	54.0	0.458
KGL-ESS-K32-25	32.0	25	46.8	0.278
KGL-ESS-K32-30	32.0	30	49.3	0.446
KGL-ESS-K32-40	32.0	40	55.3	0.502
KGL-ESS-K36-30	36.0	30	51.3	0.322
KGL-ESS-K36-40	36.0	40	57.3	0.514

Clamp mount



Mat.: Steel



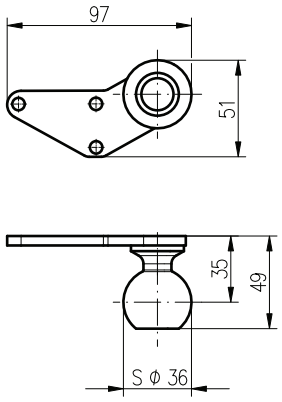
Part no.	Ø A	Ø B	C	(kg)
PS-ESS-30-B19	30	19	39.5	0.230
PS-ESS-30-B20	30	20	39.5	0.238
PS-ESS-40-B19	40	19	45.5	0.422
PS-ESS-40-B20	40	20	45.5	0.431

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Ball mount for GT and GTK mount, left



0.28 kg
Mat.: Steel

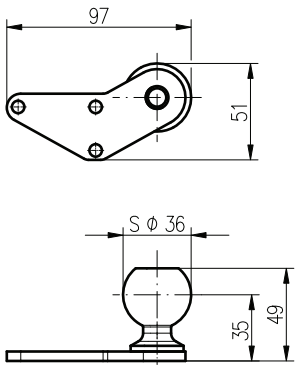


Part no.
GT-30-40-GB18-K36-L

Ball mount for GT and GTK mount, right



0.28 kg
Mat.: Steel

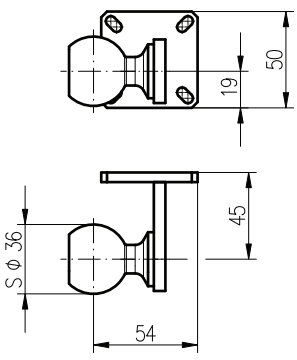


Part no.
GT-30-40-GB18-K36-R

Ball mount for GT and GTK mount



0.34 kg
Mat.: Steel



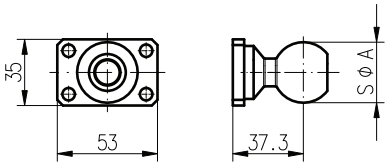
Part no.
GT-30-40-GB23-K36

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Clamp mount for GT-40 Clamp



Mat.: Steel

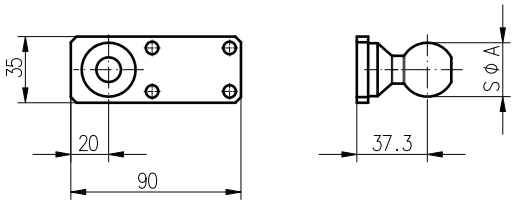


Part no.	Ø A	(kg)
GT40-GB17-K28	28.5	0.204
GT40-GB17-K32	32.0	0.235
GT40-GB17-K36	36.0	0.256

Clamp mount for GT-40 Clamp



Mat.: Steel

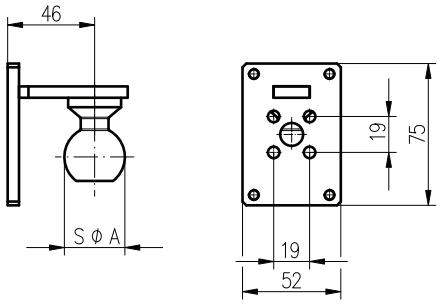


Part no.	Ø A	(kg)
GT40-GB18-K28	28.5	0.204
GT40-GB18-K32	32.0	0.235
GT40-GB18-K36	36.0	0.256

Clamp mount for GT-40 Clamp



Mat.: Steel



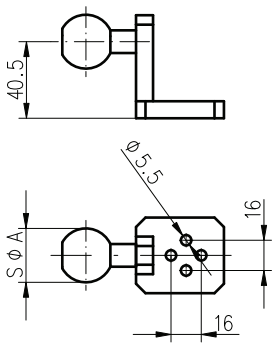
Part no.	Ø A	(kg)
GT40-GB23-K28	28.5	0.204
GT40-GB23-K32	32.0	0.235
GT40-GB23-K36	36.0	0.256

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Clamp mount



Mat.: Steel

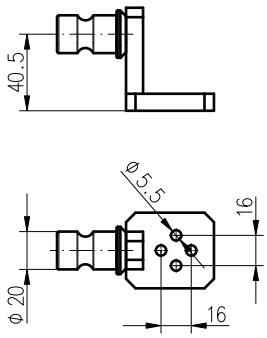


Part no.	S Ø A	(kg)
84A2-L-16-K28	28.5	0.268
84A2-L-16-K32	32.0	0.282
84A2-L-16-K36	36.0	0.321

Clamp mount



0.27 kg
Mat.: Steel

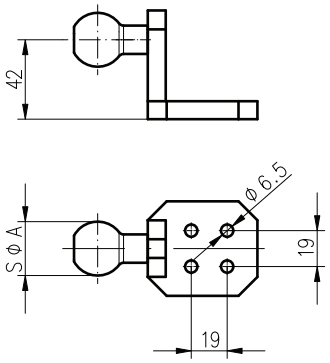


Part no.
84A2-L-16-B20

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Clamp mount



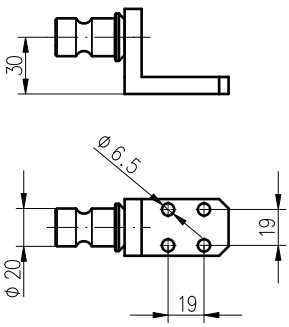


Mat.: Steel

Part no.	S Ø A	(kg)
84A3-L-19-K28	28.5	0.383
84A3-L-19-K32	32.0	0.405
84A3-L-19-K36	36.0	0.435

Clamp mount





0.26 kg
Mat.: Steel

Part no.
84A3-L-19-B20

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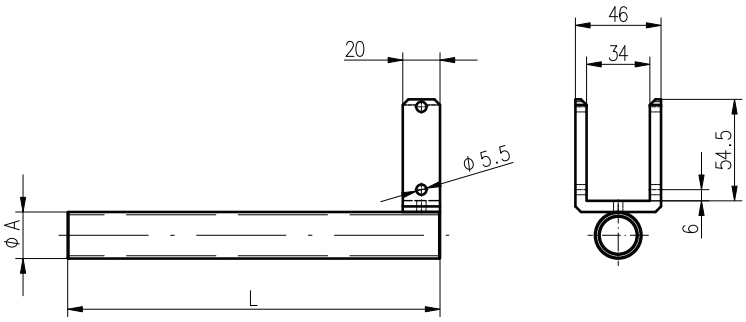
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Pneumatic clamp and accessories

Support



Mat.: Steel

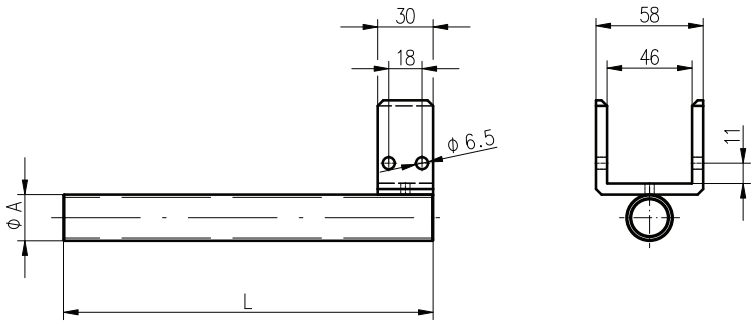


Ordering information		e.g.: 84A2-U-90-25-200
84A2-U-90	-A	-L
	Diameter (mm)	Length (mm)
	↓	↓
	20	150 - 600 (50mm increments)
	25	
	30	

Support



Mat.: Steel



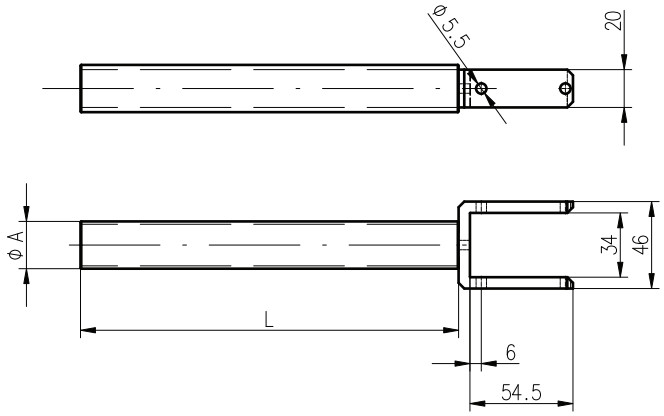
Ordering information		e.g.: 84A3-U-90-25-200
84A3-U-90	-A	-L
	Diameter (mm)	Length (mm)
	↓	↓
	20	150 - 600 (50mm increments)
	25	
	30	

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Support



Mat.: Steel

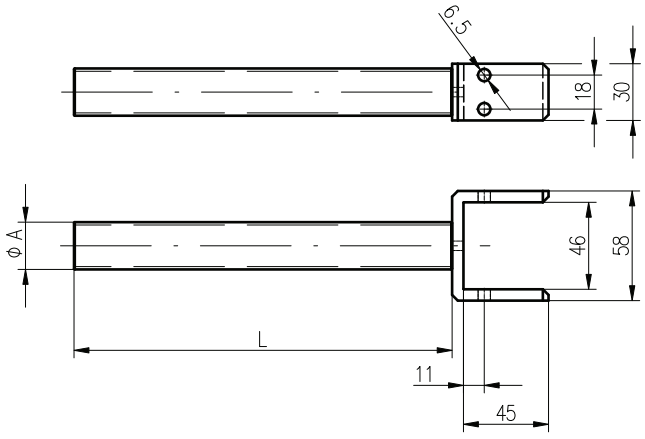


Ordering information		e.g.: 84A2-U-00-25-200
84A2-U-00	-A	-L
	Diameter (mm)	Length (mm)
	↓	↓
	20	150 - 600 (50mm increments)
	25	
	30	

Support



Mat.: Steel



Ordering information		e.g.: 84A3-U-00-25-200
84A3-U-00	-A	-L
	Diameter (mm)	Length (mm)
	↓	↓
	20	150 - 600 (50mm increments)
	25	
	30	

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Edition 01/2013

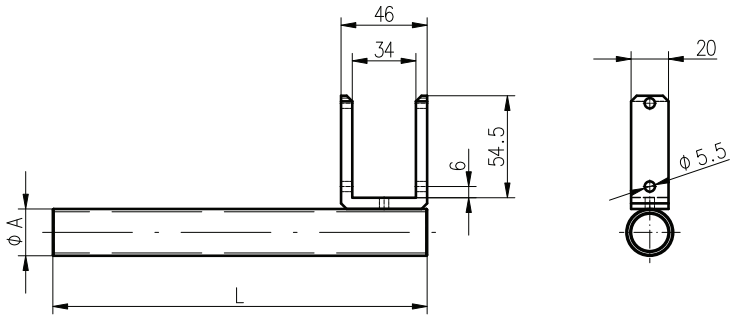
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Pneumatic clamp and accessories

Support



Mat.: Steel

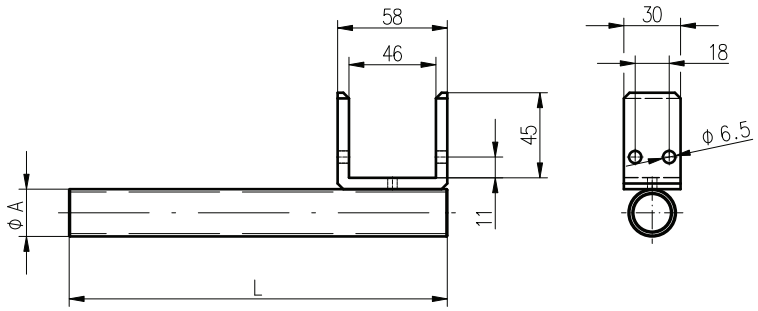


Ordering information		e.g.: 84A2-U-LR-25-200
84A2-U-LR	-A	-L
	Diameter (mm)	Length (mm)
	↓	↓
	20	150 - 600 (50mm increments)
	25	
	30	

Support



Mat.: Steel



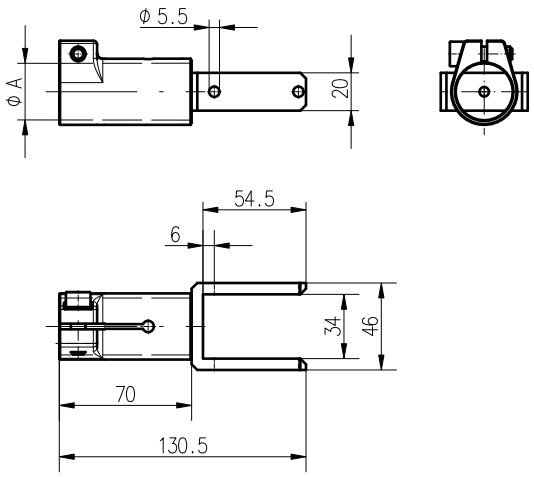
Ordering information		e.g.: 84A3-U-LR-25-200
84A3-U-LR	-A	-L
	Diameter (mm)	Length (mm)
	↓	↓
	20	150 - 600 (50mm increments)
	25	
	30	

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Clamp mount



Mat.: Steel

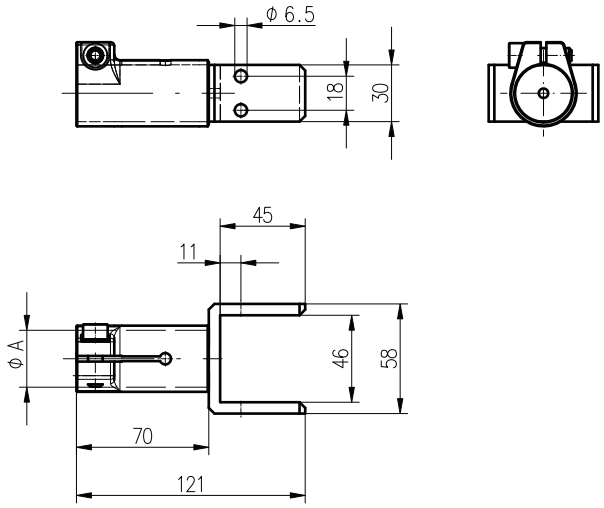


Part no.	Ø A	(kg)
84A2-U-TKS-90-20-70	20	0.25
84A2-U-TKS-90-25-70	25	0.27
84A2-U-TKS-90-30-70	30	0.31

Clamp mount



Mat.: Steel



Part no.	Ø A	(kg)
84A3-U-TKS-90-20-70	20	0.31
84A3-U-TKS-90-25-70	25	0.33
84A3-U-TKS-90-30-70	30	0.37

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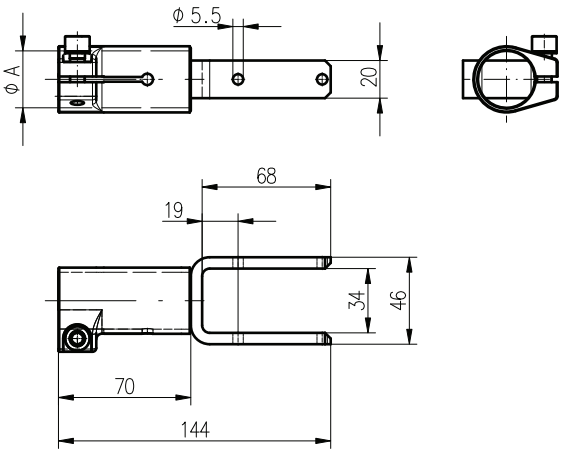
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Pneumatic clamp and accessories

Clamp mount



Mat.: Steel

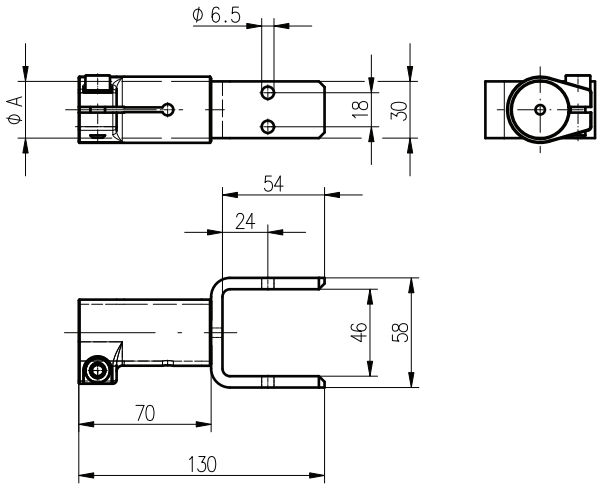


Part no.	Ø A	(kg)
84A2-U-TKS-00-20-70-L	20	0.25
84A2-U-TKS-00-25-70-L	25	0.27
84A2-U-TKS-00-30-70-L	30	0.31

Clamp mount



Mat.: Steel



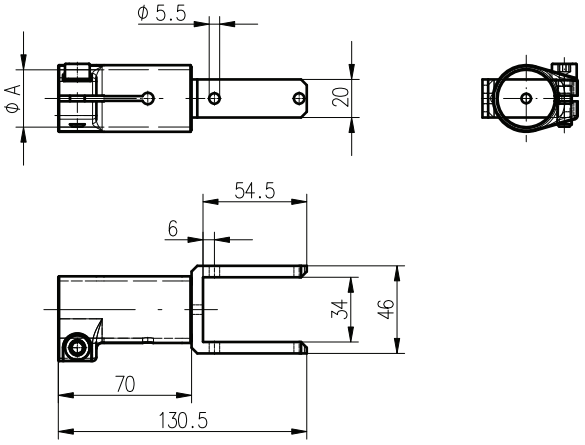
Part no.	Ø A	(kg)
84A3-U-TKS-00-20-70-L	20	0.31
84A3-U-TKS-00-25-70-L	25	0.33
84A3-U-TKS-00-30-70-L	30	0.37

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Clamp mount



Mat.: Steel

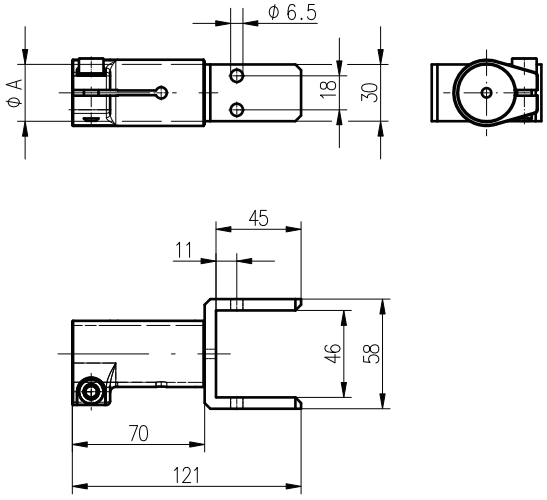


Part no.	Ø A	(kg)
84A2-U-TKS-00-20-70	20	0.25
84A2-U-TKS-00-25-70	25	0.27
84A2-U-TKS-00-30-70	30	0.31

Clamp mount



Mat.: Steel



Part no.	Ø A	(kg)
84A3-U-TKS-00-20-70	20	0.31
84A3-U-TKS-00-25-70	25	0.33
84A3-U-TKS-00-30-70	30	0.37

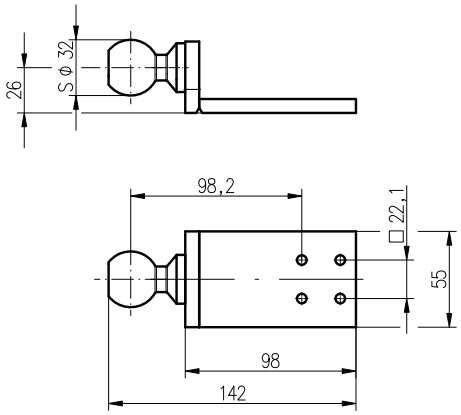
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Mount for pneumatic clamp



0.563 kg
Mat.: Steel

Part no.
84A32-L-22.1-22.1-K32

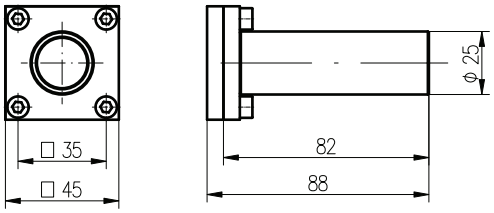


Flange



0.295 kg
Mat.: Steel

Part no.
84A32-L-305305-K32



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Notes

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Function and motion elements

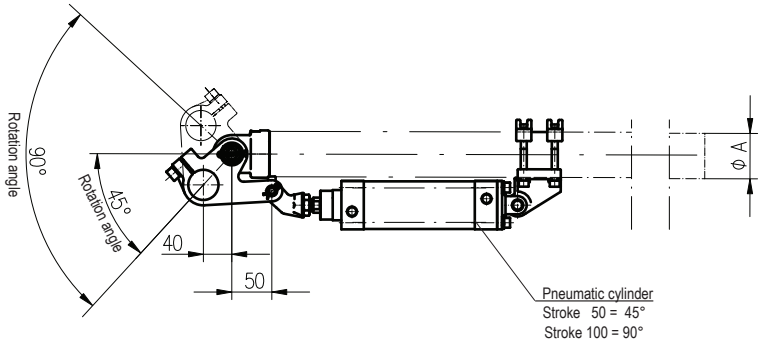
Picture	Designation	Page
	45°/90° Wrist rotate unit	239
	45°/90° Axial rotate unit	240

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45°/90° Wrist rotate unit



Mat.: Aluminium



Part no.	Ø A	(kg)**
WRWM-45-250	2.5“	45° = 3.79
WRWM-90-250	2.5“	90° = 4.70
WRWM-45-60	60	45° = 3.79
WRWM-90-60	60	90° = 4.70

**Weight incl. 50 mm cylinder

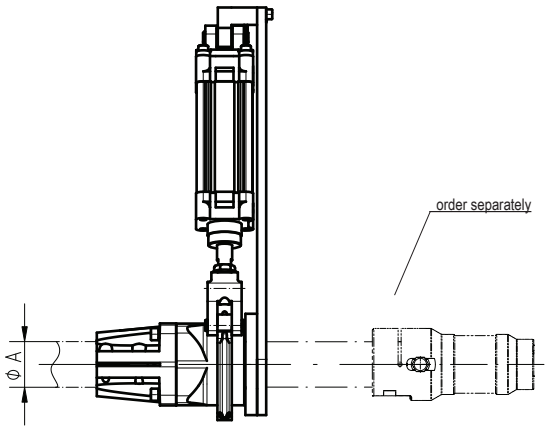
Ordering information			e.g.: WRWM-45250-63 / WRWM-4560-50
WRWM	-	-	-
	max. Rotate		Cylinder bore
	↓	↓	↓
	45°	250 (2.5“)*	50
	90°	60 (60mm)*	63

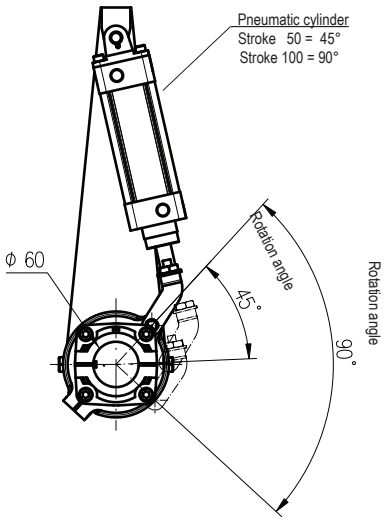
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45°/90° Axial rotate unit



Mat.: Aluminium





Part no.	Ø A	∎ (kg)**
BRCM-45-250	2.5“	45° = 9.06
BRCM-90-250	2.5“	90° = 9.51
BRCM-90-60	60	45° = 9.06
BRCM-45-60	60	90° = 9.51

**Weight incl. 50 mm cylinder

Ordering information	e.g.: BRCM-45250-63 / BRCM-4560-50		
BRCM	-	-	-
	max. Rotate		Cylinder bore
	↓	↓	↓
	45°	250 (2.5)“	50
	90°	60 (60mm)	63

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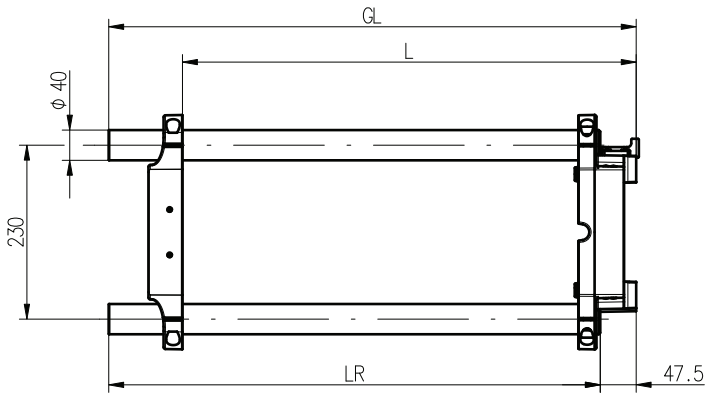
Tooling for crossbar transfer presses

Picture	Designation	Page
	Double tooling for suction bar	243
	Double tooling for suction bar	243
	Air coupling for GRS press	244
	Carrier tube mount	244

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Double tooling for suction bar

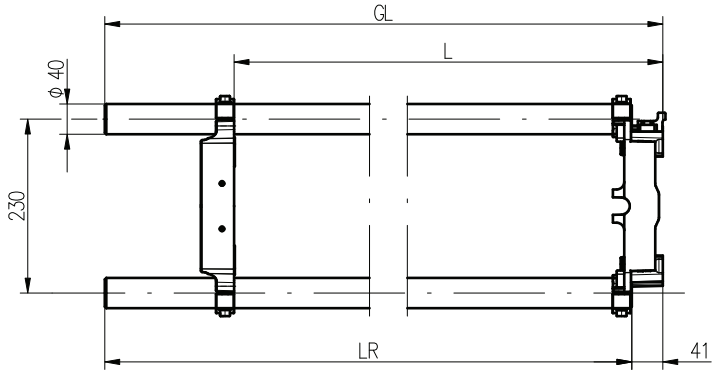




Part no.	L	LR	GL	(kg)
GRS-DT-40-230-LL-L-E	520	592.5	640	4.18
GRS-DT-40-230-LL-L-S	1300	1382.5	1430	5.67
GRS-DT-40-230-LL-R-E	520	592.5	640	4.18
GRS-DT-40-230-LL-R-S	1300	1382.5	1430	5.67

Double tooling for suction bar





Part no.	L	LR	GL	(kg)
GRS-DT-40-230-LL1-L-1000	520	959	1000	3.95
GRS-DT-40-230-LL1-R-1000	520	959	1000	3.95
GRS-DT-40-230-LL1-L-1470	1300	1429	1470	4.84
GRS-DT-40-230-LL1-R-1470	1300	1429	1470	4.84
GRS-DT-40-230-LL1-L-1637	1300	1596	1637	5.15
GRS-DT-40-230-LL1-R-1637	1300	1596	1637	5.15

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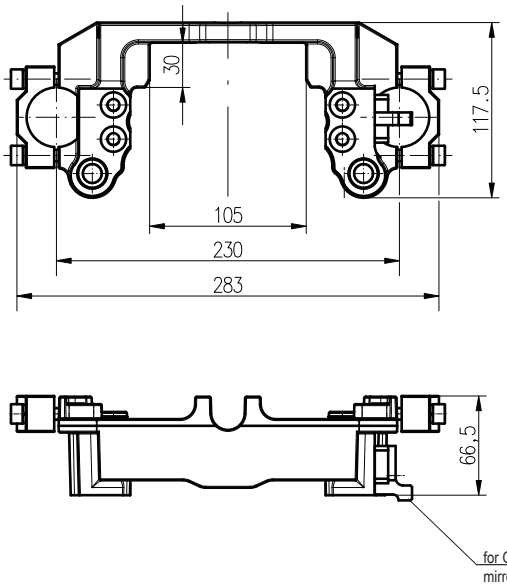
Air coupling for GRS press



GRS-40-90-L1-L
Mat.: Aluminium



GRS-40-90-L1-R
Mat.: Aluminium

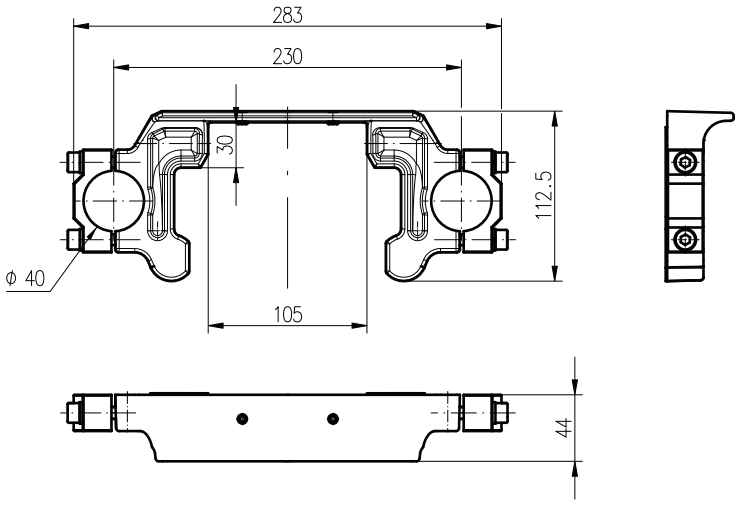


Part no.	(kg)
GRS-40-90-L1-L	1.34
GRS-40-90-L1-R	1.34

Carrier tube mount



0.72 kg
Mat.: Aluminium



Part no.
GRS-40-50-L1

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Carbon fibre gripper modules

Picture	Designation	Page
	Panel loading spider for double tooling series 40	247
	Destacking beam for 4 tooling series 40	248
	Interpress beam for 4 tooling series 40	248
	Interpress beam for 4 tooling series 40	249
	Destacking beam for multiplex tooling series 40	249
	Centering robot beam	250
	Destacking beam for 4-fach tooling series 40	250
	Tooling carrier with tapered carbon tube	251
	Carbon frames GM	252
	Destacker beam 9 ft	253
	Destacker beam 7 ft	253
	Interpress beam 9 ft	254
	Interpress beam 7 ft	254

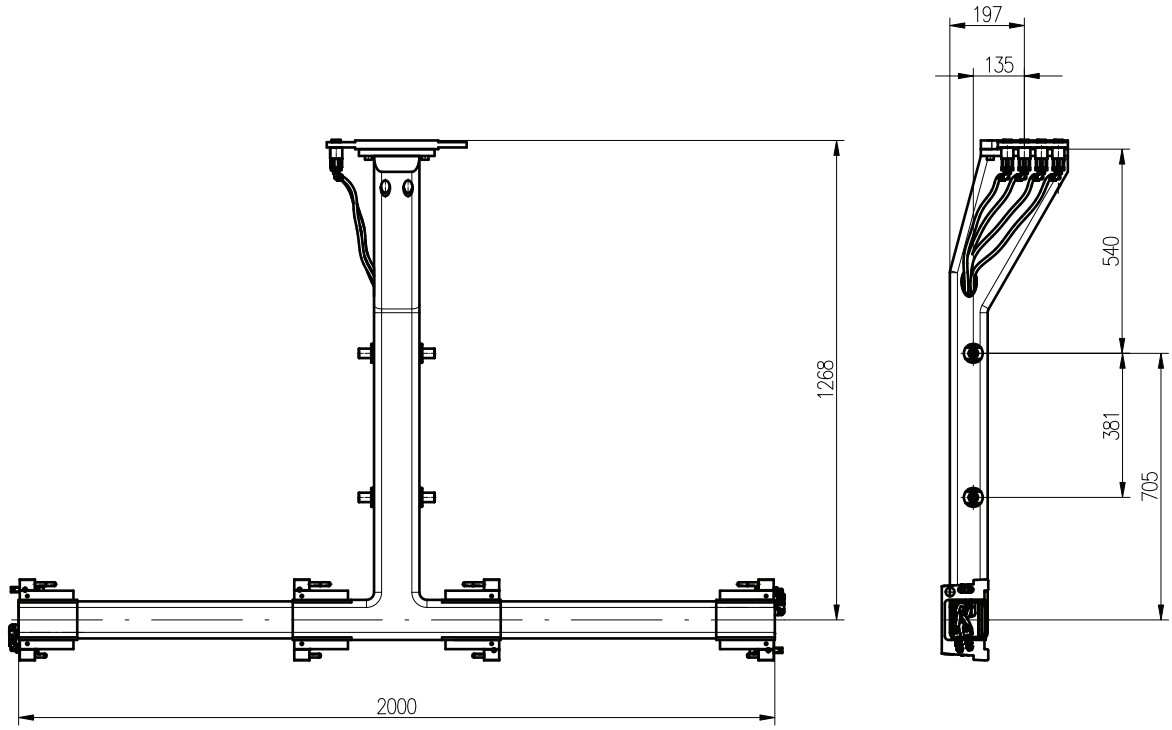
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Carbon fibre gripper modules

Panel loading spider for double tooling series 40



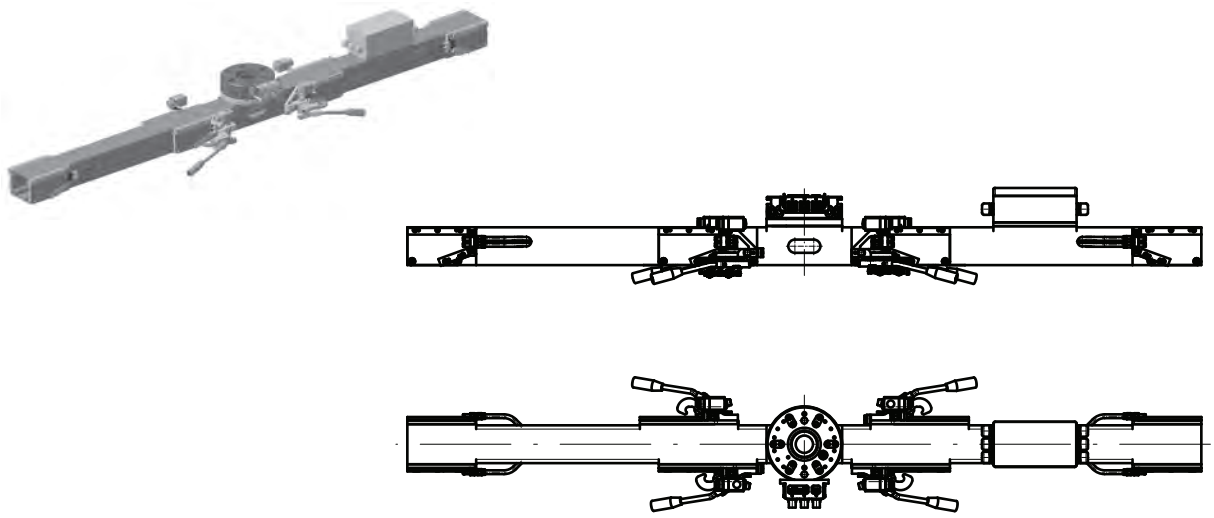
45 kg
Mat.: Carbon



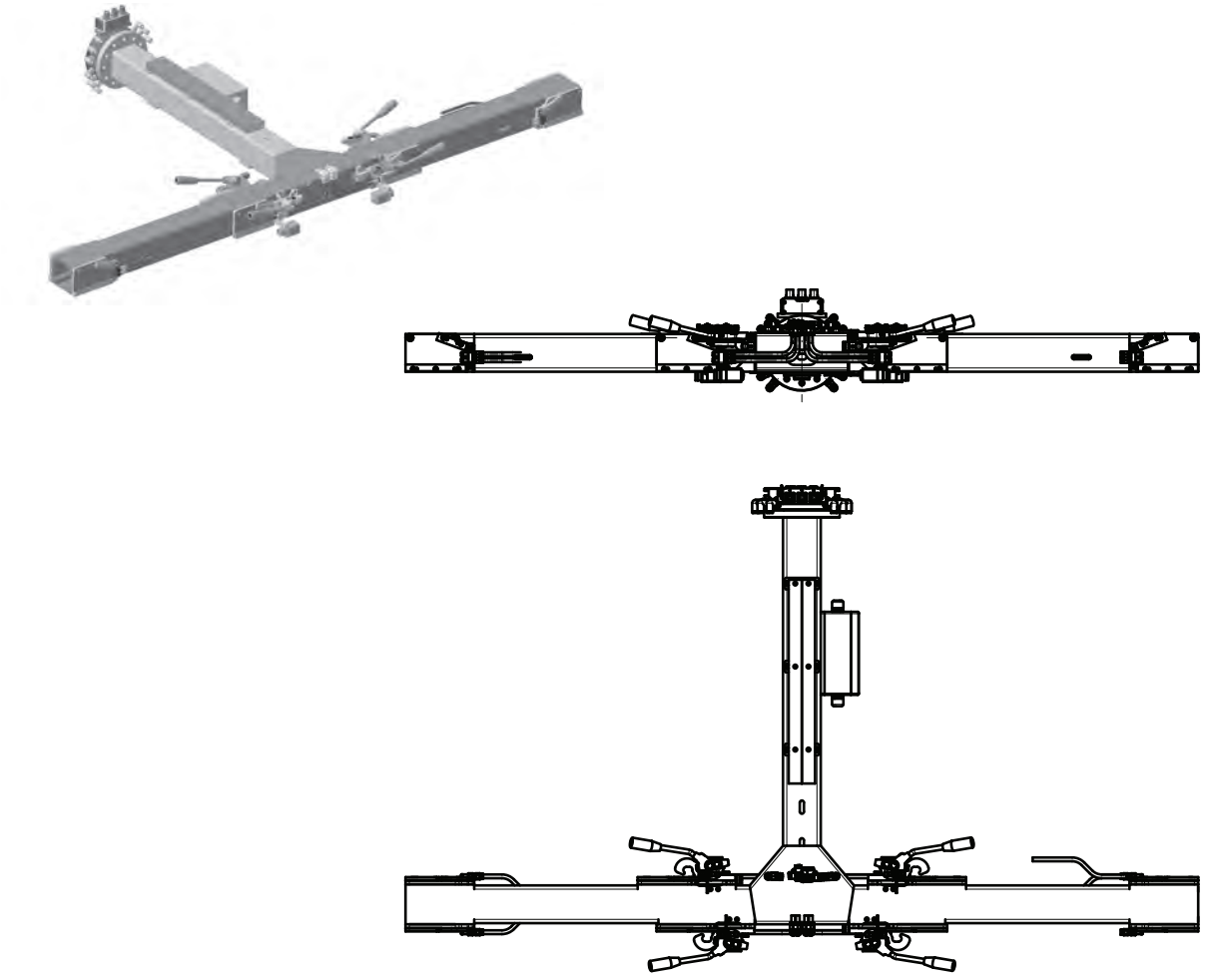
Part no.
GRS-PL-CFK-73MN

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Destacking beam for 4 tooling series 40



Interpress beam for 4 tooling series 40

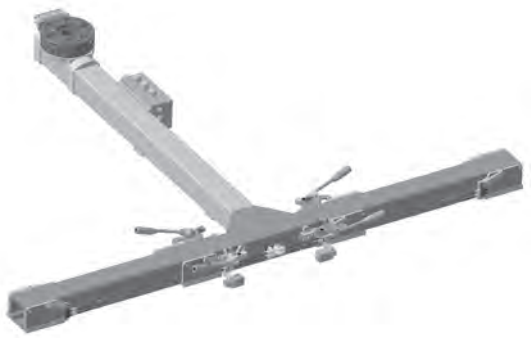


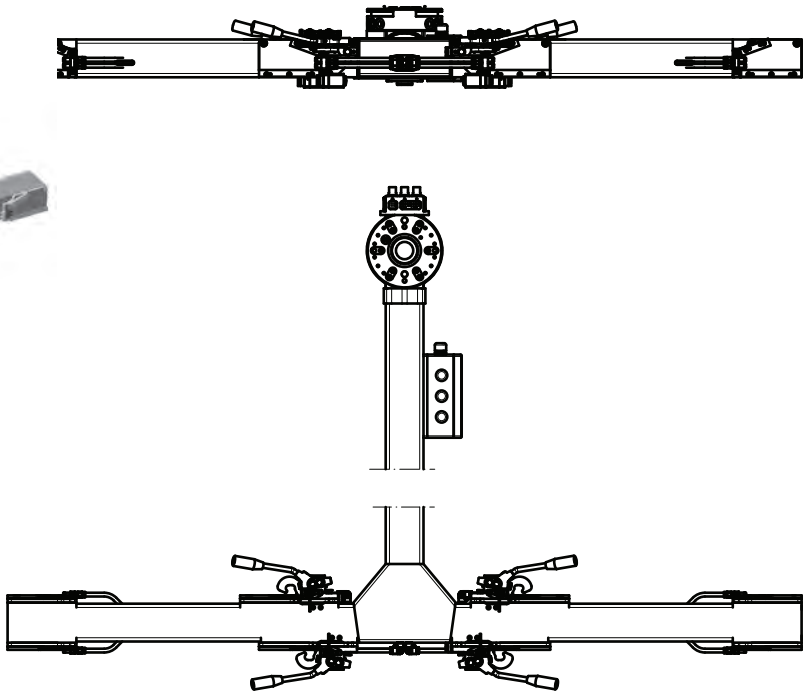
Carbon gripper modules are manufactured according to customer.
Please contact our sales department.

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Carbon fibre gripper modules

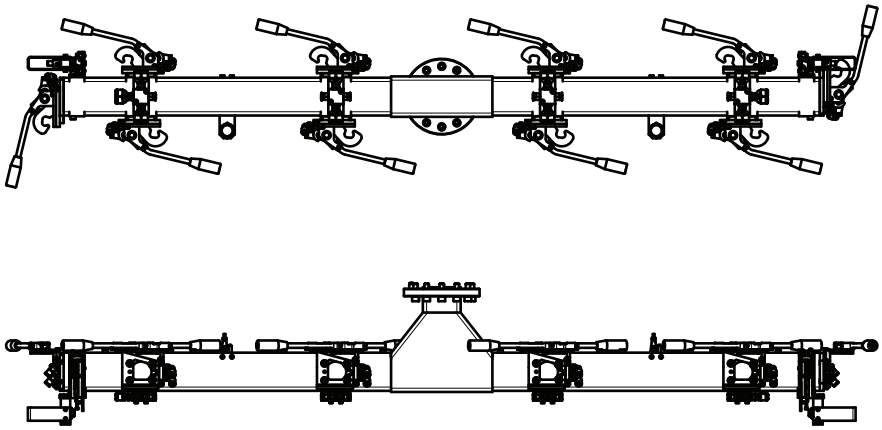
Interpress beam for 4 tooling series 40





Destacking beam for multiplex tooling series 40

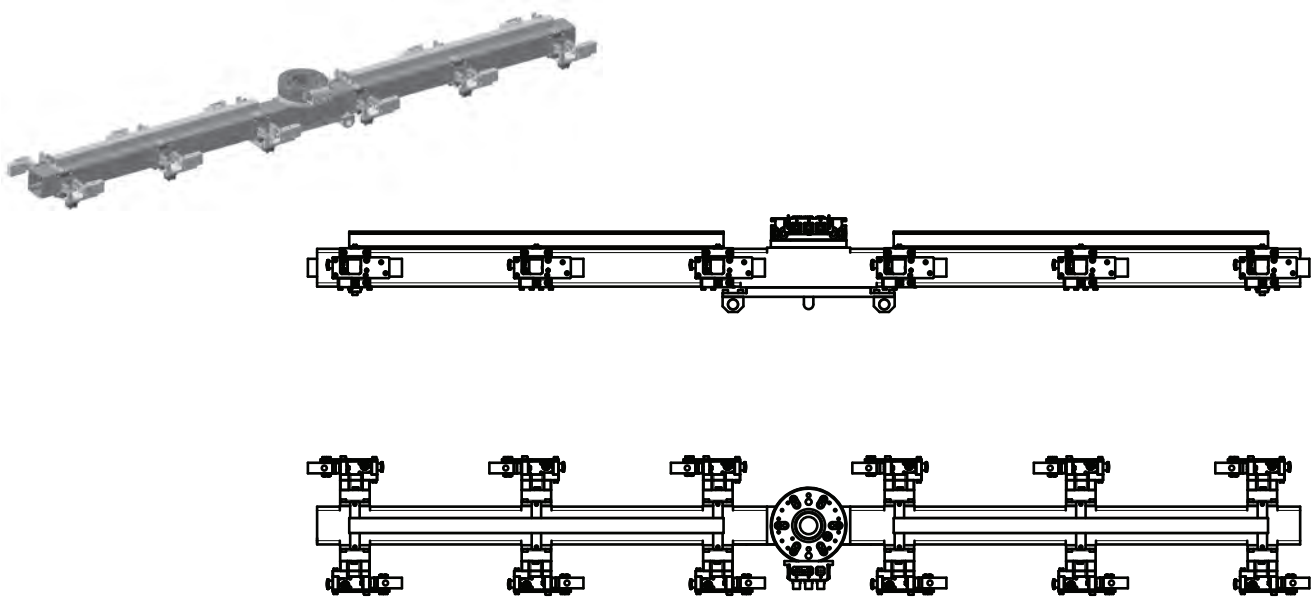




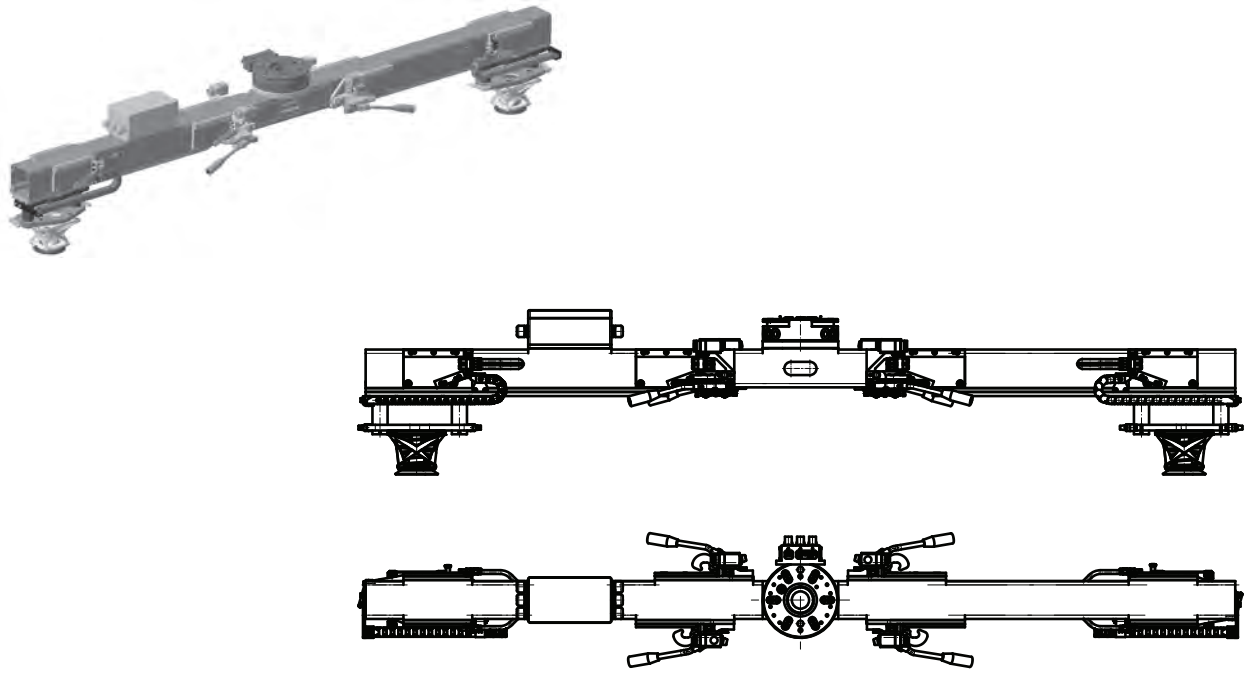
Carbon gripper modules are manufactured according to customer.
Please contact our sales department.

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Centering robot beam



Destacking beam for 4-fach tooling series 40



Carbon gripper modules are manufactured according to customer.
Please contact our sales department.

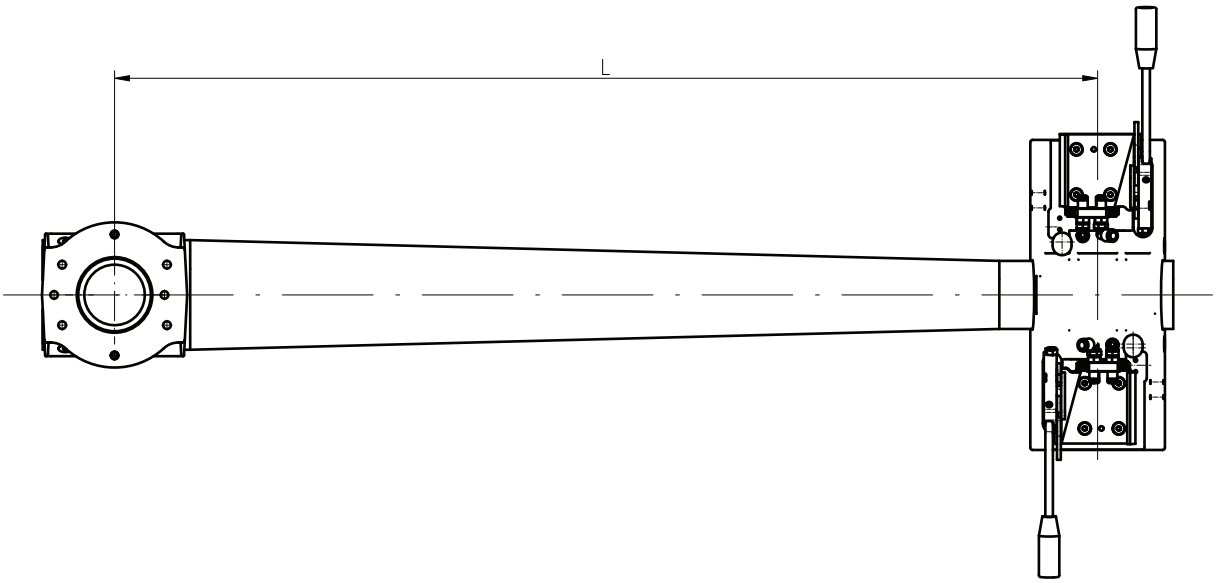
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Carbon fibre gripper modules

Tooling carrier with tapered carbon tube





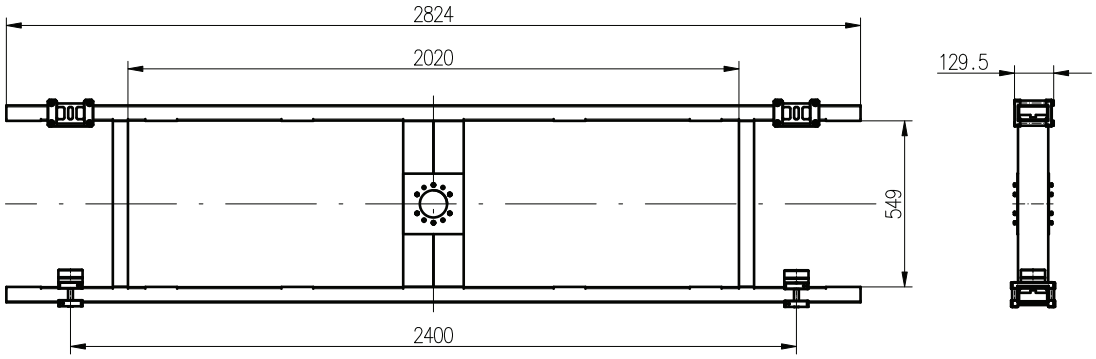
Part no.	L
GMC-TR-40-95-01-1300	1300
GMC-TR-40-95-01-1700	1700
GMC-TR-40-95-01-1900	1900

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Carbon frames GM



27 kg
Mat.: Carbon



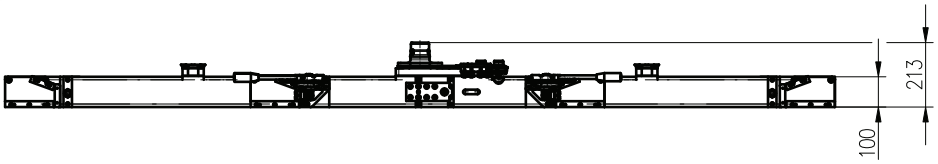
Part no.
GMC-2842-663

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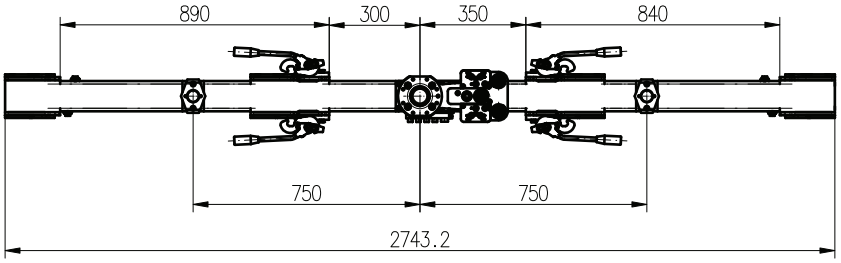
Carbon fibre gripper modules

Destacker beam 9 ft





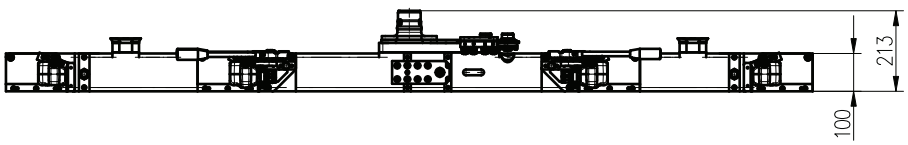
31 kg
Mat.: Carbon



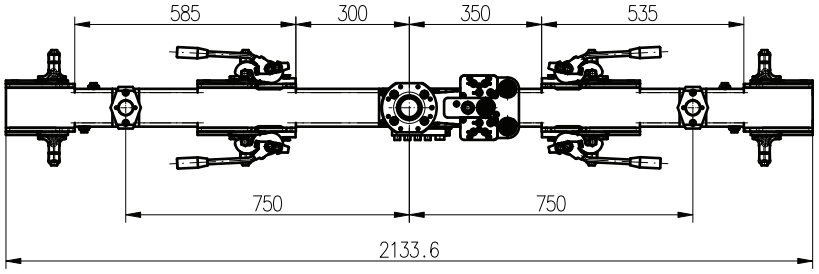
Part no.
GMC-TL-01

Destacker beam 7 ft





28.5 kg
Mat.: Carbon

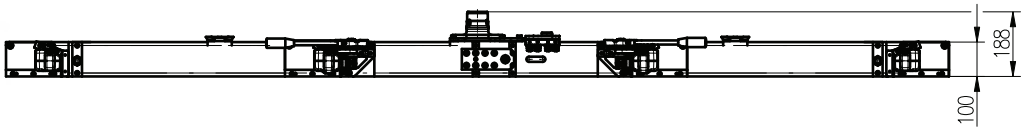


Part no.
GMC-TL-02

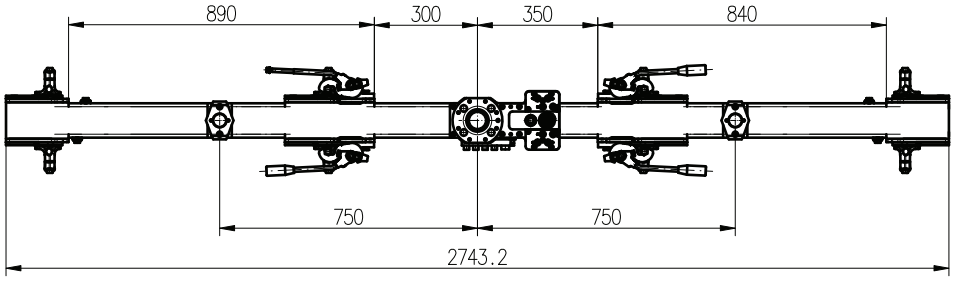
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Interpress beam 9 ft





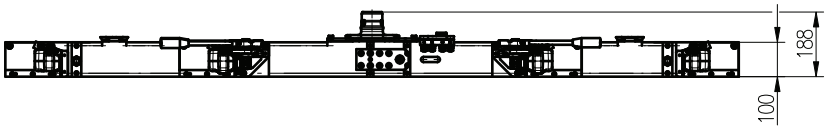
29 kg
Mat.: Carbon

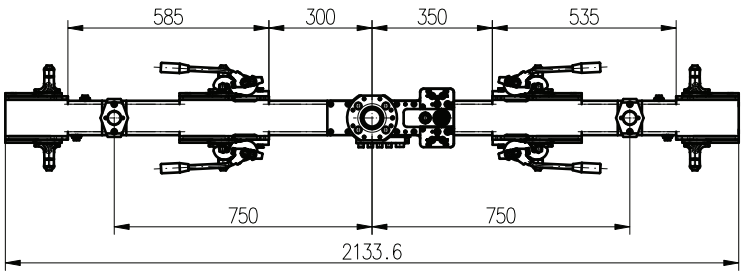


Part no.
GMC-TL-03

Interpress beam 7 ft







26.5 kg
Mat.: Carbon

Part no.
GMC-TL-04

Subject to modification
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Tooling storage cart

Picture	Designation	Page
	Tooling cart with 4 slots	257
	Tooling cart with 8 slots	257
	Tooling cart with 20 slots	258
	Tooling cart with 2 guide	259
	Tooling cart with 1 guide	259
	Tooling cart with 14 tooling holder	260
	Tooling cart with 15 tooling holder	260
	Stacking trolley for transfer tooling	261
	Upper tooling holders from type RDC-* and TDC-*	261
	Upper tooling holders from type TR-A-*	262
	Upper tooling holders from type TR-A-*	262
	Support for Idelstation and idle frame an trolley	263
	Support for tooling arm in trolley	263

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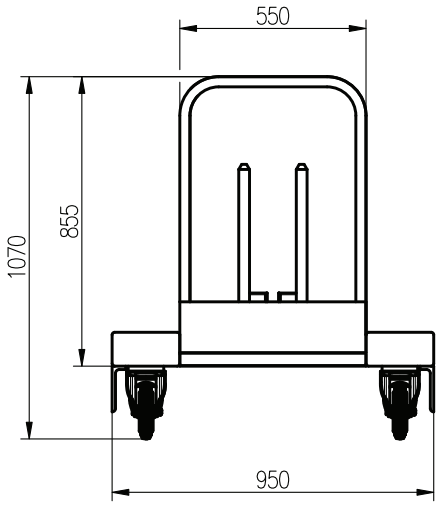
Tooling storage cart

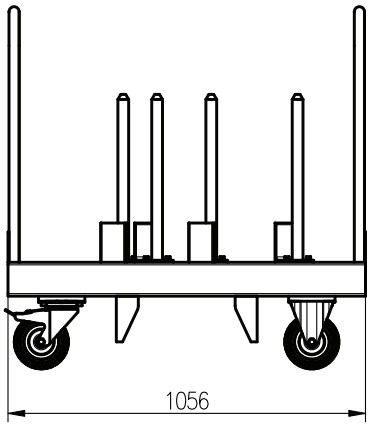
Tooling cart with 4 slots



125 kg
Mat.: Steel

Part no.
TC-DK-04-950-1056-1070



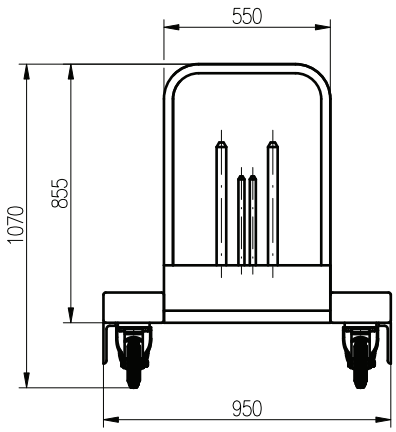


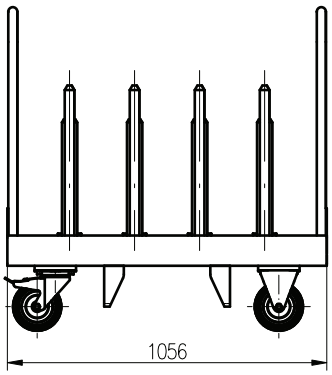
Tooling cart with 8 slots



155 kg
Mat.: Steel

Part no.
TC-DK-08-950-1056-1070





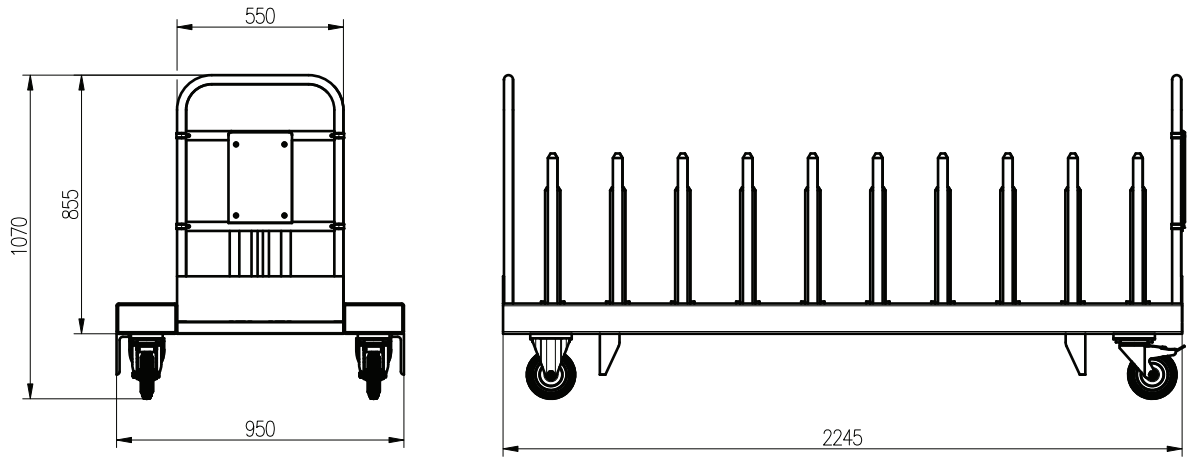
Subject to modification
Edition 01/2013

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Tooling cart with 20 slots



290 kg
Mat.: Steel



Part no.
TC-DK-20-950-2242-1070

Carbon gripper modules are manufactured according to customer.
Please contact our sales department.

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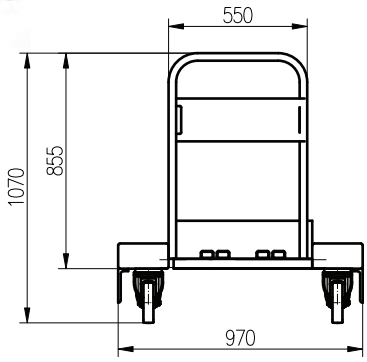
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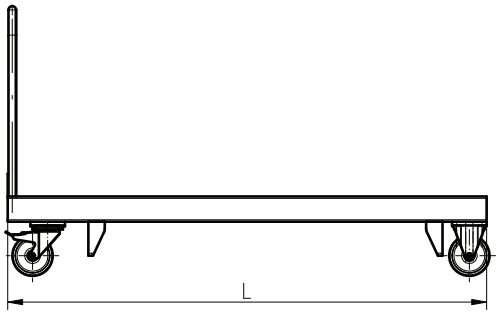
Tooling storage cart

Tooling cart with 2 guide



Mat.: Steel



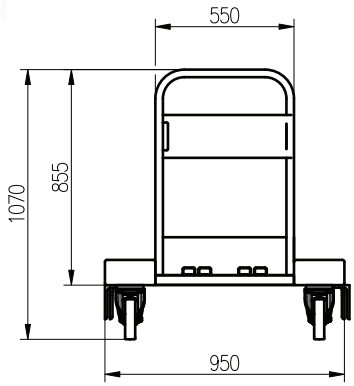


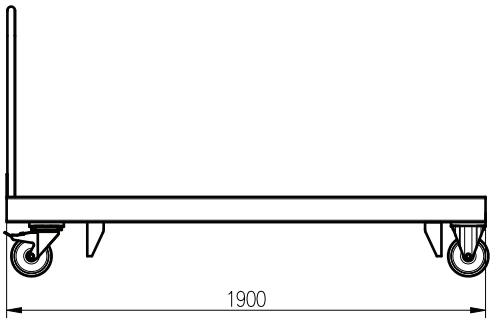
Part no.	L	(kg)
TC-RDC-8-1900-950-1070	1900	161
TC-RDC-8-2600-950-1070	2600	197

Tooling cart with 1 guide



Mat.: Steel

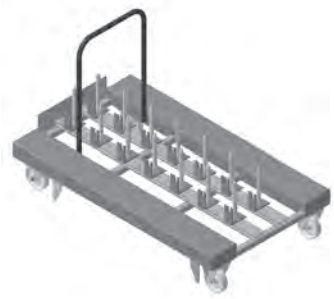




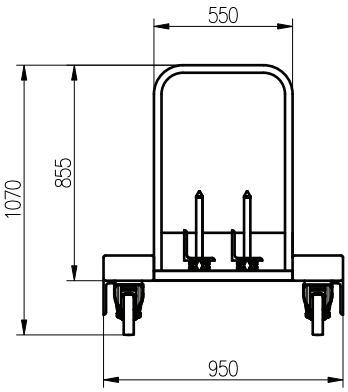
Part no.
TC-RDC-8-1900-950-1070-1

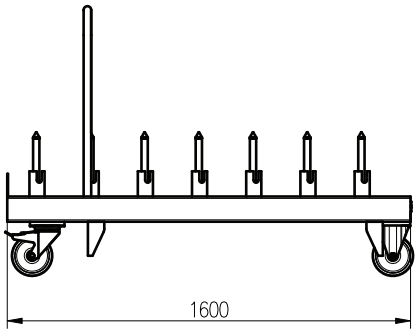
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Tooling cart with 14 tooling holder



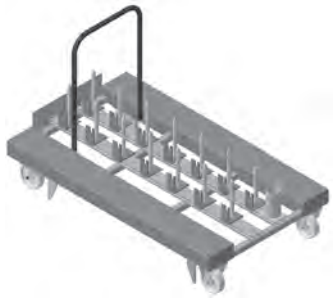
155 kg
Mat.: Steel



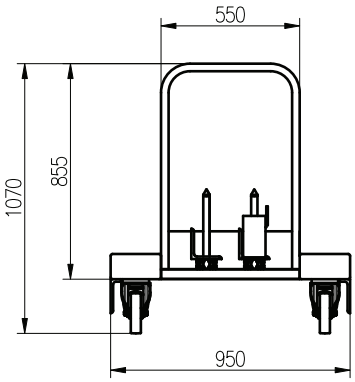


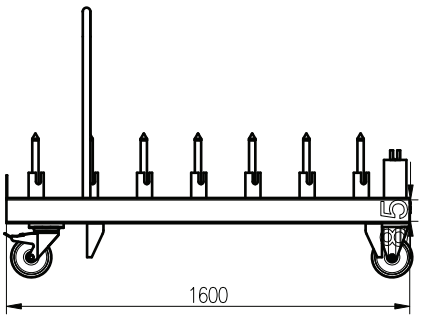
Part no.
TC-TR-A-1600-950-1070-14H

Tooling cart with 15 tooling holder



157 kg
Mat.: Steel





Part no.
TC-TR-A-1600-950-1070-14H-1RDC

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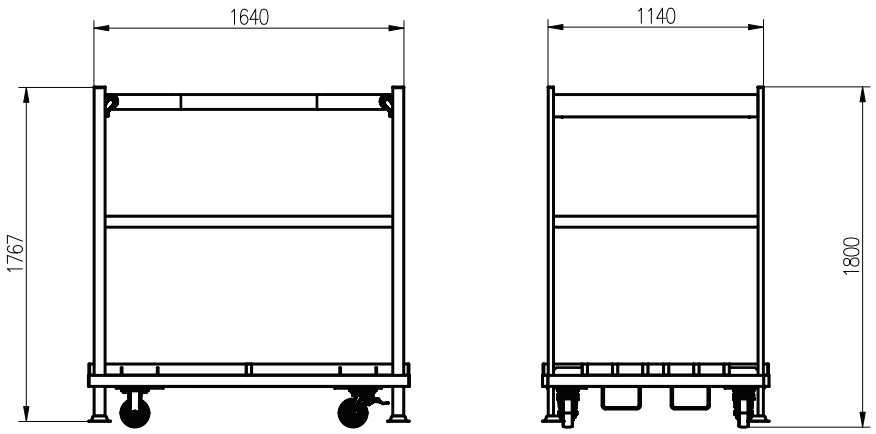
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Tooling storage cart

Stacking trolley for transfer tooling



80 kg
Mat.: Steel

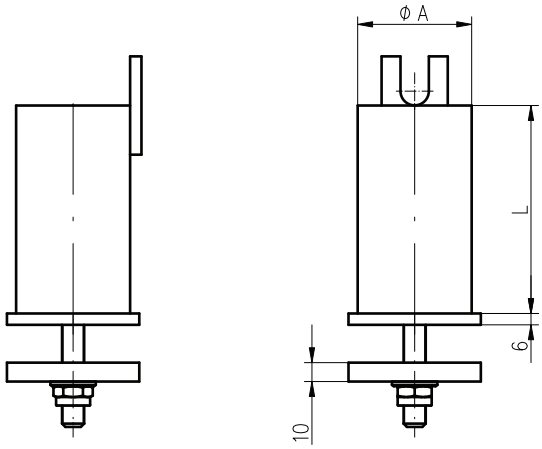


Part no.
TC-SW-KE-01

Upper tooling holders from type RDC-* and TDC-*



Mat.: Steel



Part no.	Ø A	L	(kg)
TH-150-110	53.9	110	0.93
TH-250-165	89.0	165	1.38
TH-250-317	89.0	317	2.10
TH-250-470	89.0	471	2.60

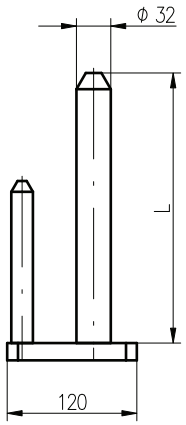
Part no.	Ø A	L	(kg)
TH-40-110	53.9	110	0.93
TH-60-165	89.0	165	1.38
TH-60-317	89.0	317	2.10
TH-60-470	89.0	471	2.60
TH-60-600	89.0	600	3.80
TH-60-950	89.0	950	4.50

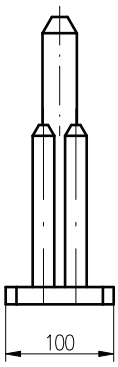
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Upper tooling holders from type TR-A-*



Mat.: Steel



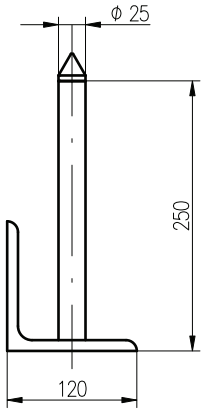


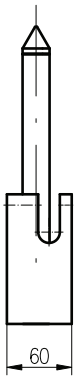
Ordering information	e.g.: TH-TR-A-40-250
TH-TR-A-40	-L
	Length
	↓
	250
	300
	500

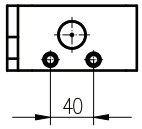
Upper tooling holders from type TR-A-*



1.38 kg
Mat.: Steel







Part no.
TH-TR-40-95-25-250

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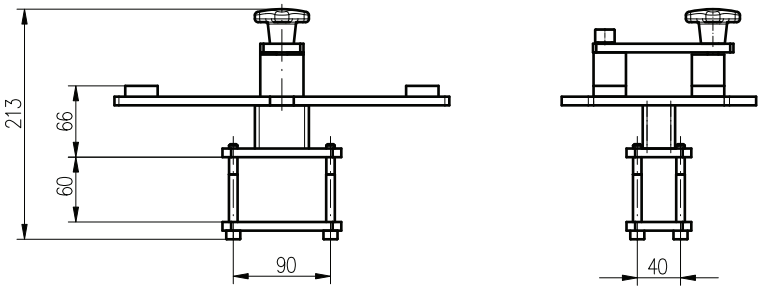
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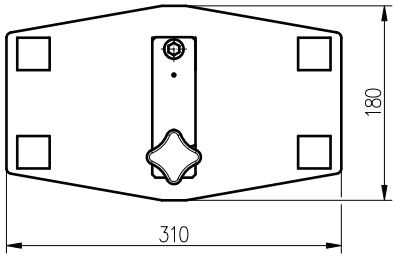
Tooling storage cart

Support for Idelstation and idle frame an trolley



5.54 kg
Mat.: Steel



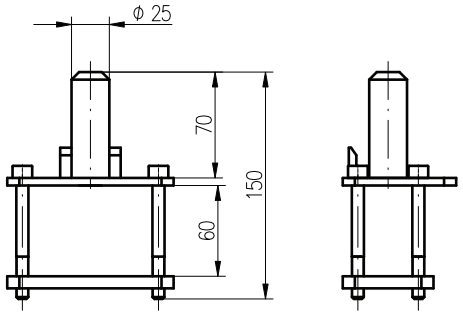


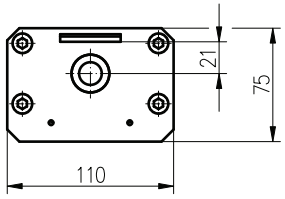
Part no.
TC-SW-DB-Z-001

Support for tooling arm in trolley



0.994 kg
Mat.: Steel





Part no.
TC-1700-1200-1715-B-A002

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