



AUTOMATION TECHNOLOGY

2015/2016

RÖHM
driven by technology

We work for customers who have a weakness for our strengths.

Companies intent on making a difference are obliged to develop constantly as well as deploy their strengths to the benefit of customers. At RÖHM, we have set ourselves high targets and are doing our very best to achieve them. This is why we support our customers all over the world by means of the six performance indicators so typical of RÖHM:



Dynamism

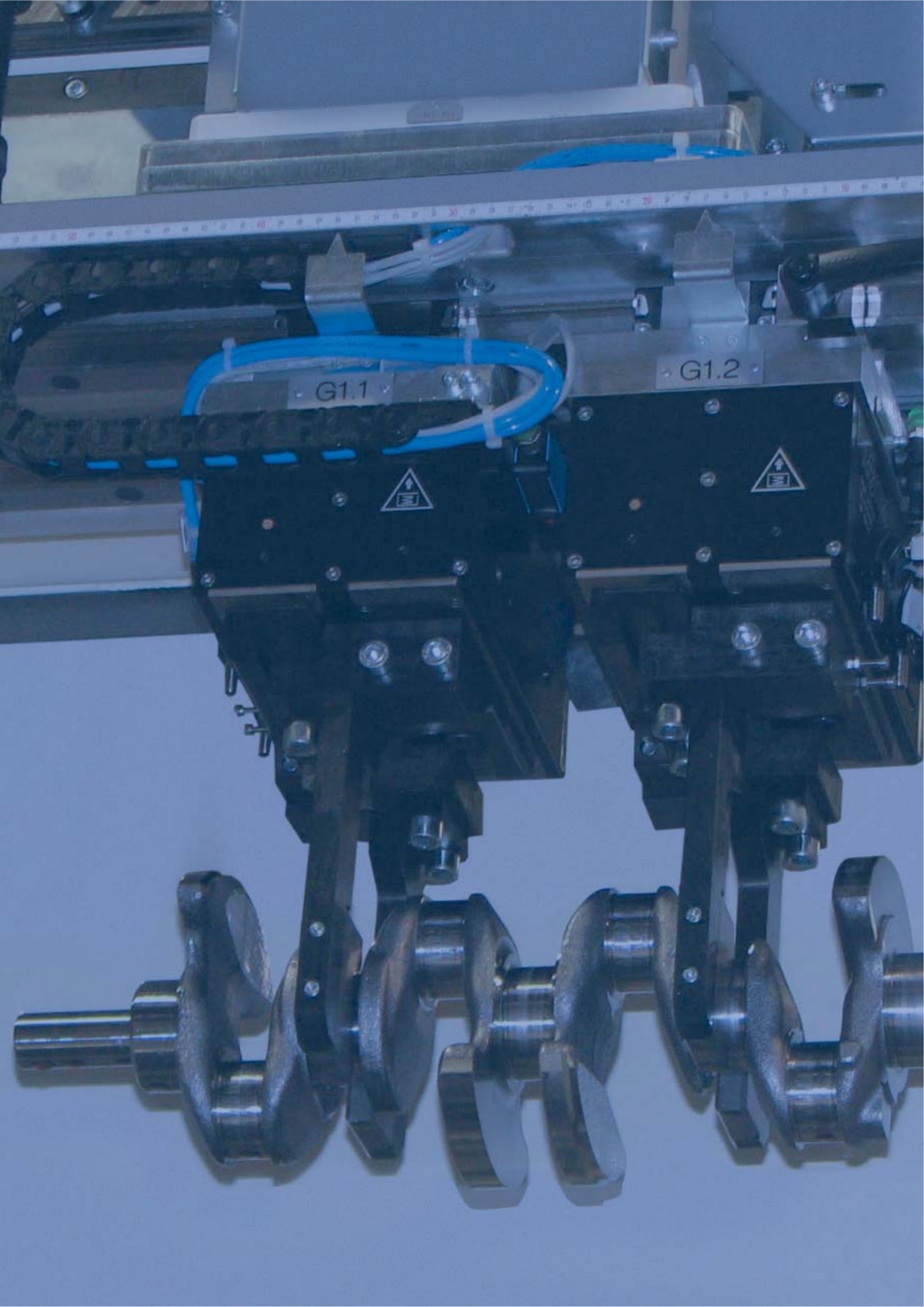
Variety

Security

Partnership

Globality

Innovation



G1.1

G1.2

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AUTOMATION TECHNOLOGY

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Operation guide



TYPE	RPP	RPP-A	RZP	RZP-A
	2-jaw parallel gripper		3-jaw centric gripper	
Gripping force	208 - 21900 N	240 - 3450 N	650 - 38000 N	700 - 16500 N
Stroke per jaw	2 - 45 mm	2 - 16 mm	3 - 35 mm	3 - 16 mm
Gripping type	 	 	 	 
Clamping type				
Gripping force safety device	 	 	 	 
Actuation	  optional	  optional		
Page	5006	5028	5046	5064

Operation guide



hydraulical actuated



external gripping



parallel gripping



pneumatical actuated



internal gripping



centric gripping

Operation guide

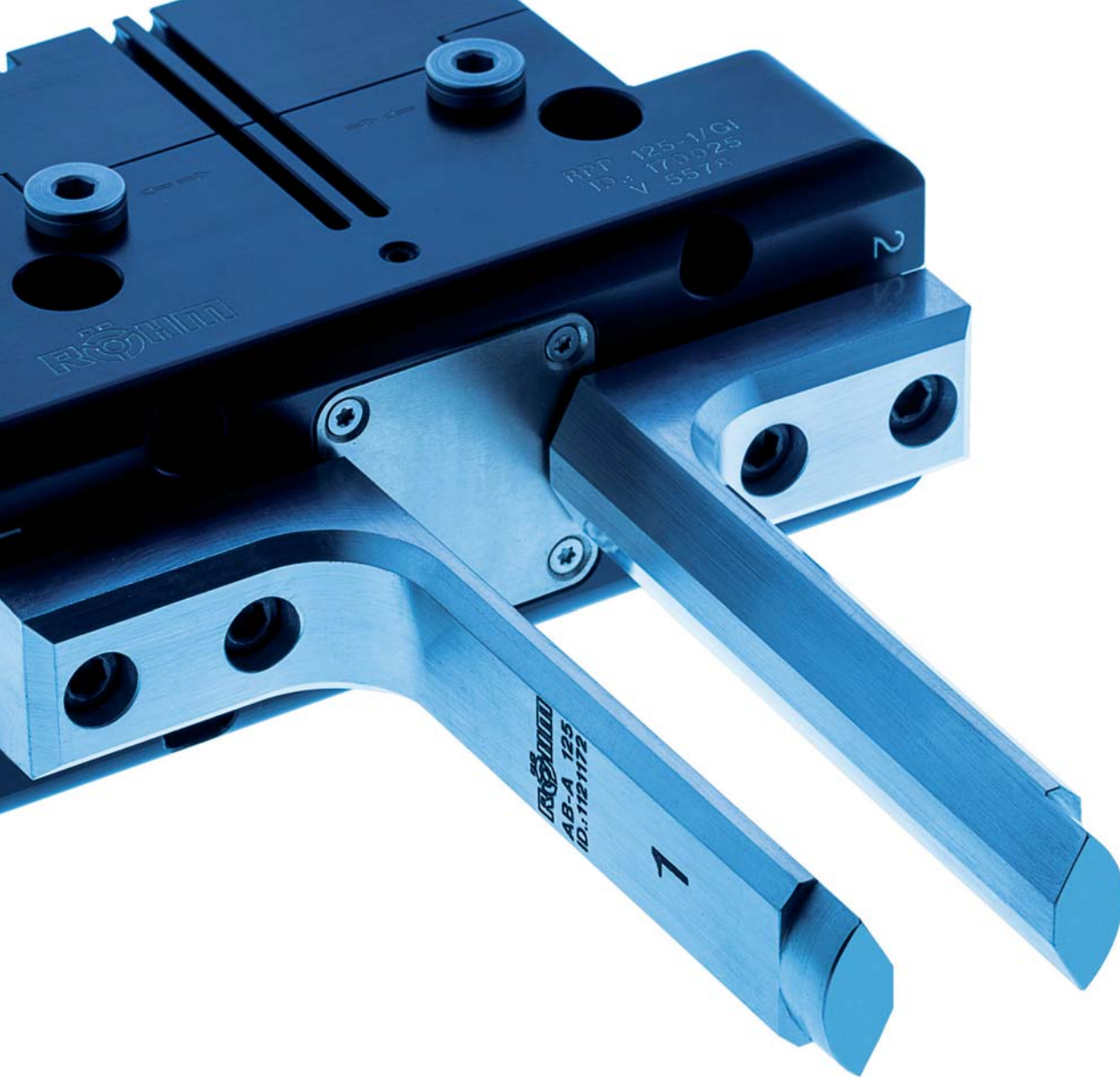


TYPE	RGP	RGPO	RPR	RRMG
	2-jaw long stroke gripper			Synthetic gripper
Gripping force	630 - 2950 N	1250 - 3000 N	260 - 1100 N	80 - 150 N
Stroke per jaw	30 - 50 mm	60 - 100 mm	14 - 28 mm	2,6 - 4,3 mm
Gripping type				
Clamping type				
Gripping force safety device			-	Optional
Actuation		optional		
Page	5080	5090	5098	5102

Operation guide

gripping force safety device external gripping

gripping force safety device internal gripping



NOMENCLATURE

RPP	-A	- 100	-1	/ GA	/V
<p>RÖHM Parallel gripper Pneumatic</p>	<p>A = Alternative jaw fixture by tongue and groove</p>	<p>Sizes 50 - 380</p>	<p>Jaw stroke variant 1 = long stroke 2 = short stroke</p>	<p>Optional: Spring safety GA = outside grip GI = inside grip</p>	<p>Optional: V = Viton FKM- sealing for temperatures up to 150 °C</p>



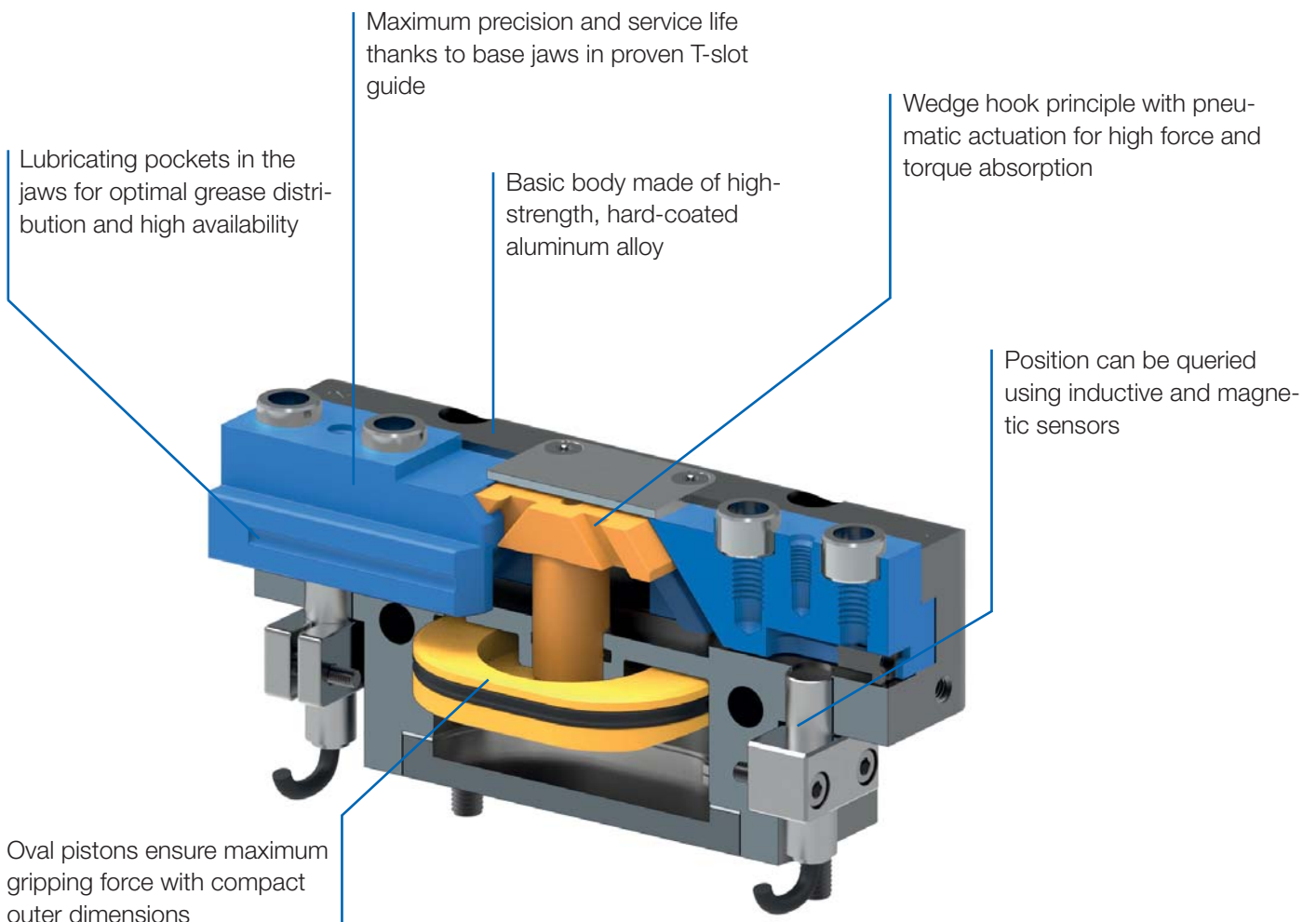
Video RPP

2-JAW PARALLEL GRIPPER

Equipped with two parallel gripper fingers, RÖHM grippers are optimally suited for universal gripping of round and angular workpieces. Especially on robots or portals, the 2-jaw parallel grippers will convince you with their compact design, low own weight and high gripping force.

ADVANTAGES AT A GLANCE

- ⊕ High gripping force with low own weight and compact design
- ⊕ Maximum flexibility thanks to versatile connection and fastening options
- ⊕ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide



RPP-50



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 50 to 380, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via centering sleeves (included in the scope of delivery).

CUSTOMER BENEFITS

- ⊕ High gripping force with low dead weight and compact design
- ⊕ High torque support for using long gripper fingers thanks to elongated jaw guide
- ⊕ Maximum flexibility thanks to versatile connection and fastening options
- ⊕ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation (hydraulic actuation available on request)
- Position monitoring with inductive or magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

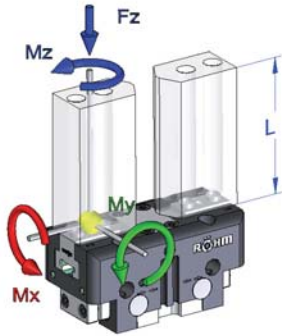
C40
RPP-50 - 2-jaw parallel gripper air operated

Item no.	170119	170120 ▲	170121	170122 ▲	170123 ▲	170124 ▲
Design	RPP-50-1	RPP-50-2	RPP-50-1/GA	RPP-50-2/GA	RPP-50-1/GI	RPP-50-2/GI
Gripping force at 6 bar N	208	398	242	462	264	505
Stroke per jaw mm	4	2	4	2	4	2
Gripping force maintained N	-	-	35	65	35	65
Recommended workpiece weight kg	0,7	1,45	0,7	1,45	0,7	1,45
Weight kg	0,19	0,19	0,23	0,23	0,23	0,23
Width mm	65	65	65	65	65	65
Height mm	31	31	47	47	47	47
Depth mm	30	30	30	30	30	30
Mx Nm	20	20	20	20	20	20
My Nm	25	25	25	25	25	25
Mz Nm	10	10	10	10	10	10
Fz N	500	500	500	500	500	500
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,02	0,02	0,02	0,02	0,03	0,03
Opening time s	0,02	0,02	0,03	0,03	0,02	0,02
Air consumption per cycle cm ³	5	5	5	5	5	5
Max. allowable length of jaw mm	64	64	64	64	64	64

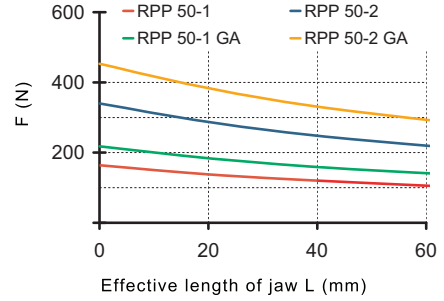
RPP-50

Max. load on gripper and jaw

Clamping force diagram exterior gripping



Total gripping force F(N) at 6 bar



RPP 50-1: 3,05
RPP 50-2: 4,05

RPP 50-1: 18,8
RPP 50-2: 20,8

Section A-A

Tubeless direct connection

T-nut for distance measurement

Type GA/GI with gripping force safety device

Accessories: Protective cover

RPP-64



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Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

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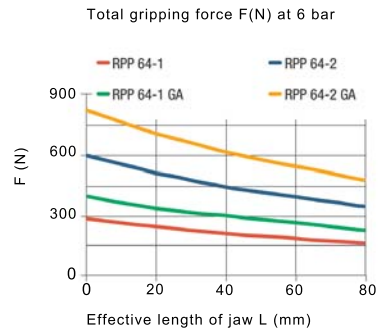
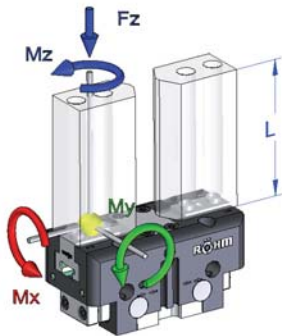
C40
RPP-64 - 2-jaw parallel gripper air operated

Item no.	170001	170002 ▲	170003	170004 ▲	170005 ▲	170006 ▲
Design	RPP-64-1	RPP-64-2	RPP-64-1/GA	RPP-64-2/GA	RPP-64-1/GI	RPP-64-2/GI
Gripping force at 6 bar N	316	605	458	876	487	932
Stroke per jaw mm	6	3	6	3	6	3
Gripping force maintained N	-	-	100	200	100	200
Recommended workpiece weight kg	1,5	3	1,5	3	1,5	3
Weight kg	0,3	0,3	0,4	0,4	0,4	0,4
Width mm	76	76	76	76	76	76
Height mm	39	39	57	57	57	57
Depth mm	36	36	36	36	36	36
Mx Nm	40	40	40	40	40	40
My Nm	60	60	60	60	60	60
Mz Nm	40	40	40	40	40	40
Fz N	1100	1100	1100	1100	1100	1100
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,03	0,03	0,02	0,02	0,04	0,04
Opening time s	0,03	0,03	0,04	0,04	0,02	0,02
Air consumption per cycle cm ³	10	10	10	10	10	10
Max. allowable length of jaw mm	90	85	85	80	85	80

RPP-64

Max. load on gripper and jaw

Clamping force diagram exterior gripping



RPP 64-1:22
RPP 64-2: 25

13±0,02 12 13±0,02

11 21

RPP 64-1 MAX. 40,5 ; MIN.28,5
RPP 64-2 MAX.34,5 ; MIN.28,5

76

X

31±0,2

M5/6 deep (2x) air connection

15

10±0,2

39

10

2,5

M4 (4x)

Ø 6 h6 (4x)

Tubeless direct connection

Adapter Gripper

Ø5 Ø3 M3

0,65

O-ring Ø3x1,0

T-nut for distance measurement 27±0,2

M3/4 deep for direct connection (2x)

7

4,5

10±0,2

36±0,2

27±0,2

36

11

4,2

Sensor holder Ø8 (2x)

C-nut for magnetic sensors

42±0,02

58

Section A-A

Sleeve Ø8 for gripper connection

Ø 8 h6 (2x)

M5 (4x)

2,5

7

12

15

Ø 4,2

Ø 7,4 (2x)

2,5

Ø 4,2

Ø 7,4 (4x)

13

70

52

31±0,2

M5 /6 deep air connection

38

18±0,02

42±0,02

10±0,2

Type GA/GI with gripping force safety device

52

33

18

56

57

76

Accessories: Protective cover

MAX. 98

29

19

11

RPP 64-1 MAX. 40,5 ; MIN.28,5
RPP 64-2 MAX.34,5 ; MIN.28,5

86

Height RPP 64-1/2: 44,5
Height RPP 64-1/2 GA/GI: 62,5

3,5

3

Parallel gripper RPP

RPP-80



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

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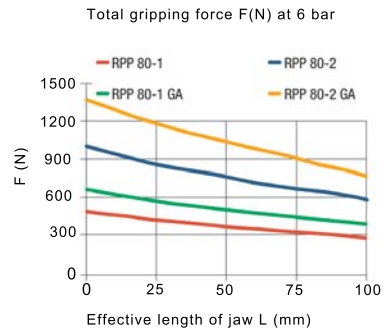
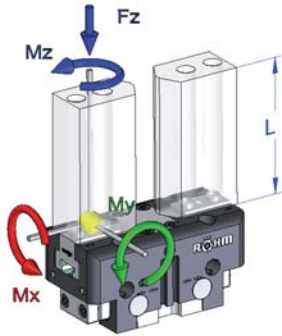
C40
RPP-80 - 2-jaw parallel gripper air operated

Item no.	170007	170008 ▲	170009	170010 ▲	170011 ▲	170012 ▲
Design	RPP-80-1	RPP-80-2	RPP-80-1/GA	RPP-80-2/GA	RPP-80-1/GI	RPP-80-2/GA
Gripping force at 6 bar N	470	886	615	1156	657	1236
Stroke per jaw mm	8	4	8	4	8	4
Gripping force maintained N	-	-	160	300	160	300
Recommended workpiece weight kg	2,2	4,3	2,2	4,3	2,2	4,3
Weight kg	0,5	0,5	0,6	0,6	0,6	0,6
Width mm	96	96	96	96	96	96
Height mm	49	49	67	67	67	67
Depth mm	42	42	42	42	42	42
Mx Nm	60	60	60	60	60	60
My Nm	95	95	95	95	95	95
Mz Nm	55	55	55	55	55	55
Fz N	1500	1500	1500	1500	1500	1500
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,04	0,04	0,03	0,03	0,05	0,05
Opening time s	0,04	0,04	0,05	0,05	0,03	0,03
Air consumption per cycle cm ³	21	21	21	21	21	21
Max. allowable length of jaw mm	110	105	105	100	105	100

RPP-80

Max. load on gripper and jaw

Clamping force diagram exterior gripping



RPP 80-1: 27
RPP 80-2: 31

16±0.02 16 16±0.02

14 24

RPP 80-1 MAX. 53; MIN. 37
RPP 80-2 MAX. 45; MIN. 37

96

Tubeless direct connection

Adapter Gripper

Ø5 Ø3 M3 0,65 0-ring Ø3x1

T-nut for distance measurement 37±0,2 M3/4 deep (2x) direct connection 7 4,5 12±0,2

42±0,2 32±0,02 R5 (4x)

Sensor holder Ø8 (2x) 11 52±0,02 73 4,2

C-nut for magnetic sensors

Section A-A

Sleeve Ø8 for gripper connection

M5/6 deep (2x) air connection

40±0,2

20 12±0,2 49 10 2,5 M5 (4x) Ø8 h6 (4x)

M5 (4x) 2,5 15 22 Ø5,1 Ø9 (2x) Ø4,2 Ø7,4 (4x) 16

85 63 40±0,2 M5/6 deep (2x) air connection 12±0,2

20±0,02 48 52±0,02

Type GA/GI with gripping force safety device

63 18 38 66 67 96

Accessories: Protective cover

MAX. 124 33 22 14

RPP 80-1 MAX. 53; MIN. 37
RPP 80-2 MAX. 45; MIN. 37

108

Height RPP 80-1/2: 54,5
Height RPP 80-1/2 GA/GI: 72,5

3 3,5

RPP-100



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

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CUSTOMER BENEFITS

- ⊕ High gripping force with low dead weight and compact design
- ⊕ High torque support for using long gripper fingers thanks to elongated jaw guide
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TECHNICAL FEATURES

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- Integrated purge air connection to prevent contamination

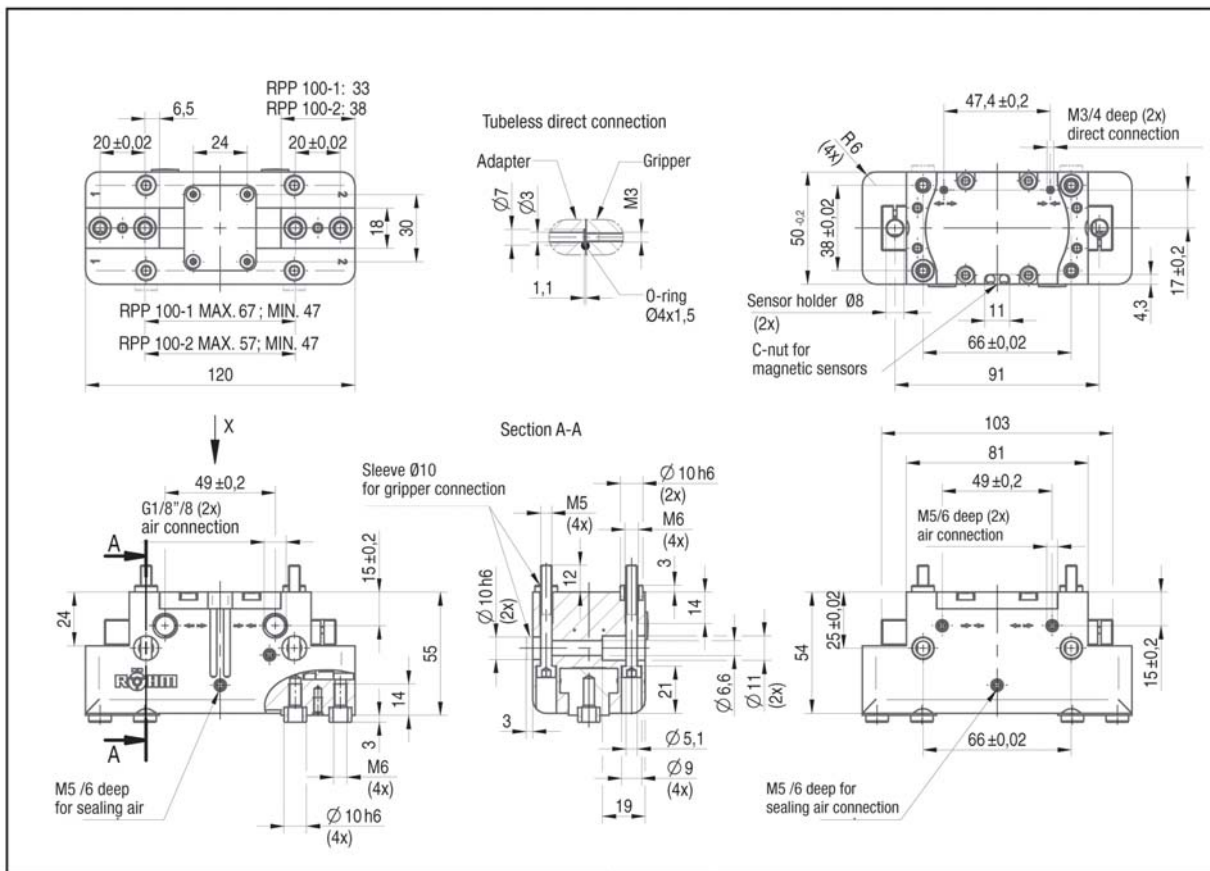
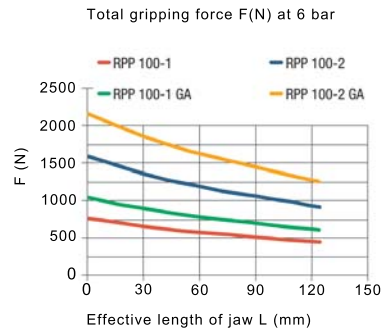
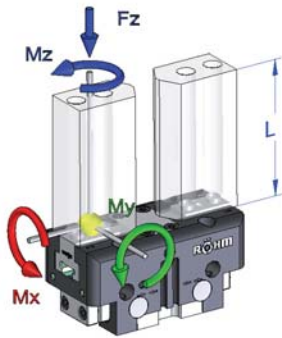
C40
RPP-100 - 2-jaw parallel gripper air operated

Item no.	170013	170014	170015	170016	170018 ▲	170019 ▲
Design	RPP-100-1	RPP-100-2	RPP-100-1/GA	RPP-100-2/GA	RPP-100-1/GI	RPP-100-2/GI
Gripping force at 6 bar N	830	1570	981	1857	1044	1977
Stroke per jaw mm	10	5	10	5	10	5
Gripping force maintained N	-	-	260	500	260	450
Recommended workpiece weight kg	3,5	7	3,5	7	3,5	7
Weight kg	0,8	0,8	1	1	1	1
Width mm	120	120	120	120	120	120
Height mm	55	55	81	81	81	81
Depth mm	50	50	50	50	50	50
Mx Nm	80	80	80	80	80	80
My Nm	115	115	115	115	115	115
Mz Nm	70	70	70	70	70	70
Fz N	2000	2000	2000	2000	2000	2000
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,07	0,07	0,05	0,05	0,09	0,09
Opening time s	0,07	0,07	0,09	0,09	0,05	0,05
Air consumption per cycle cm ³	40	40	40	40	40	40
Max. allowable length of jaw mm	145	135	135	125	135	125

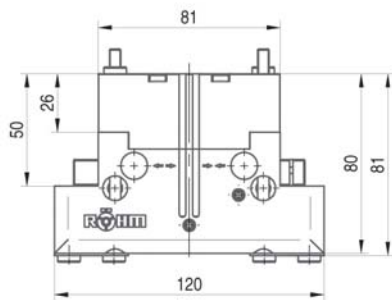
RPP-100

Max. load on gripper and jaw

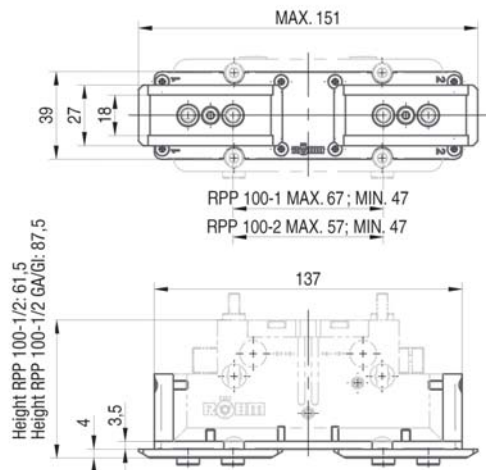
Clamping force diagram exterior gripping



Type GA/GI with gripping force safety device



Accessories: Protective cover



Parallel gripper RPP

RPP-125



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

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CUSTOMER BENEFITS

- ⊕ High gripping force with low dead weight and compact design
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TECHNICAL FEATURES

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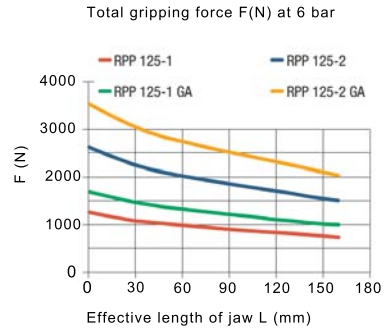
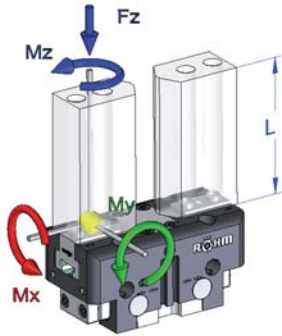
C40
RPP-125 - 2-jaw parallel gripper air operated

Item no.	170020	170021	170022	170023	170025	170026
Design	RPP-125-1	RPP-125-2	RPP-125-1/GA	RPP-125-2/GA	RPP-125-1/GI	RPP-125-2/GI
Gripping force at 6 bar N	1243	2500	1568	3162	1625	3277
Stroke per jaw mm	13	6	13	6	13	6
Gripping force maintained N	-	-	350	750	350	750
Recommended workpiece weight kg	6,2	12,5	6,2	12,5	6,2	12,5
Weight kg	1,5	1,5	1,9	1,9	1,9	1,9
Width mm	151	151	151	151	151	151
Height mm	63	63	93	93	93	93
Depth mm	60	60	60	60	60	60
Mx Nm	120	120	120	120	120	120
My Nm	145	145	145	145	145	145
Mz Nm	100	100	100	100	100	100
Fz N	2800	2800	2800	2800	2800	2800
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,1	0,1	0,08	0,08	0,12	0,12
Opening time s	0,1	0,1	0,12	0,12	0,08	0,08
Air consumption per cycle cm ³	80	80	80	80	80	80
Max. allowable length of jaw mm	180	170	170	160	170	160

RPP-125

Max. load on gripper and jaw

Clamping force diagram exterior gripping



Type GA/GI with gripping force safety device

Accessories: Protective cover

Parallel gripper RPP

RPP-160



APPLICATION

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TYPE

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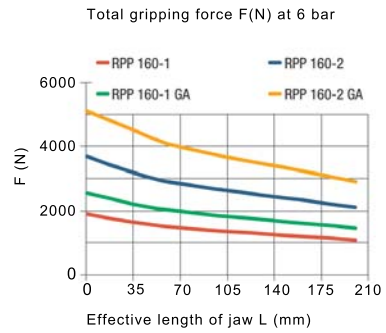
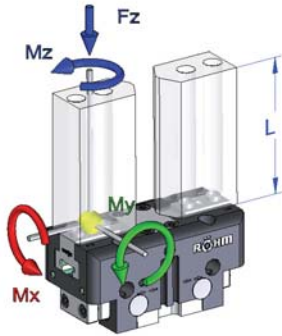
C40
RPP-160 - 2-jaw parallel gripper air operated

Item no.	170029	170030	170031	170032	170033	170034
Design	RPP-160-1	RPP-160-2	RPP-160-1/GA	RPP-160-2/GA	RPP-160-1/GI	RPP-160-2/GI
Gripping force at 6 bar N	2000	3775	2555	4805	2664	5010
Stroke per jaw mm	16	8	16	8	16	8
Gripping force maintained N	-	-	550	1100	550	1100
Recommended workpiece weight kg	9	17	9	17	9	17
Weight kg	2,8	2,8	3,6	3,6	3,6	3,6
Width mm	192	192	192	192	192	192
Height mm	77	77	117	117	117	117
Depth mm	72	72	72	72	72	72
Mx Nm	170	170	170	170	170	170
My Nm	180	180	180	180	180	180
Mz Nm	130	130	130	130	130	130
Fz N	4300	4300	4300	4300	4300	4300
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,15	0,15	0,25	0,25	0,12	0,12
Opening time s	0,15	0,15	0,25	0,25	0,12	0,12
Air consumption per cycle cm ³	160	160	160	160	160	160
Max. allowable length of jaw mm	220	210	210	200	210	200

RPP-160

Max. load on gripper and jaw

Clamping force diagram exterior gripping



RPP 160-1: 50
RPP 160-2: 58

RPP 160-1 MAX. 109; MIN. 77
RPP 160-2 MAX. 93; MIN. 77

Tubeless direct connection

Adapter Gripper

Ø7 Ø4 M5 1.1 O-ring Ø4x1.5

Sensor holder Ø8 (2x) C-nut for magnetic sensors

R10 (4x) 75±0.2 M5/6 deep (2x) direct connection

72±0.2 56±0.02 11 4.3 100±0.02 148.5 24.5±0.2

Section A-A

Sleeve Ø12 for gripper connection

G1/8"/8 (x2) air connection

M5/6 deep for sealing air

M10 (4x) Ø14 h6 (4x)

Ø12 h6 (2x) M6 (4x) 12 3 20 Ø9 Ø14 (4x) Ø6.8 Ø11 (4x) 41 76 28±0.02 162.5 125 74±0.2 M5/6 deep (2x) air connection 100±0.02 18±0.2

Type GA/GI with gripping force safety device

125 72 40 116 117 192

Accessories: Protective cover

53 35 24 192 116 117 206 5.5 4

MAX. 238

53 35 24

RPP 160-1 MAX. 109; MIN. 77
RPP 160-2 MAX. 93; MIN. 77

206 5.5 4

RPP-200



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 50 to 380, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via centering sleeves (included in the scope of delivery).

CUSTOMER BENEFITS

- ⊕ High gripping force with low dead weight and compact design
- ⊕ High torque support for using long gripper fingers thanks to elongated jaw guide
- ⊕ Maximum flexibility thanks to versatile connection and fastening options
- ⊕ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation (hydraulic actuation available on request)
- Position monitoring with inductive or magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

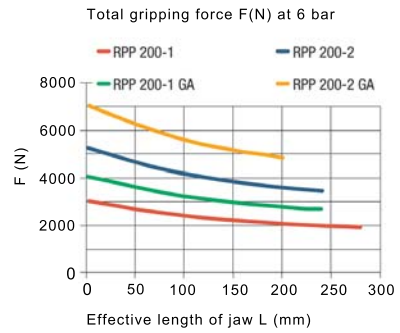
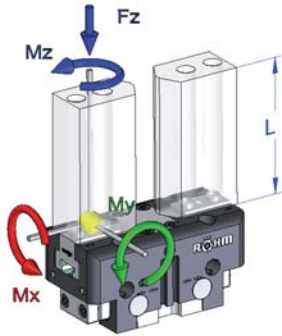
C40
RPP-200 - 2-jaw parallel gripper air operated

Item no.	170035	170036	170037	170038	170039 ▲	170040 ▲
Design	RPP-200-1	RPP-200-2	RPP-200-1/GA	RPP-200-2/GA	RPP-200-1/GI	RPP-200-2/GI
Gripping force at 6 bar N	3080	5240	3940	6700	4090	6950
Stroke per jaw mm	25	14	25	14	25	14
Gripping force maintained N	-	-	900	1500	900	1500
Recommended workpiece weight kg	14	24	14	24	14	24
Weight kg	5,5	5,5	7,5	7,5	7,5	7,5
Width mm	234	234	234	234	234	234
Height mm	91	91	141	141	141	141
Depth mm	100	100	100	100	100	100
Mx Nm	180	180	180	180	180	180
My Nm	200	200	200	200	200	200
Mz Nm	140	140	140	140	140	140
Fz N	5000	5000	5000	5000	5000	5000
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,35	0,35	0,3	0,3	0,6	0,6
Opening time s	0,35	0,35	0,6	0,6	0,3	0,3
Air consumption per cycle cm ³	390	390	390	390	390	390
Max. allowable length of jaw mm	280	240	240	200	240	200

RPP-200

Max. load on gripper and jaw

Clamping force diagram exterior gripping



RPP 200-1: 63
RPP 200-2: 74

Tubeless direct connection
Adapter Gripper
 $\varnothing 7$ $\varnothing 4$ M5
1,1 O-ring $\varnothing 4 \times 1,5$

RPP 200-1 MAX. 126; MIN. 76
RPP 200-2 MAX. 104; MIN. 76

82 ± 0,2 M5/6 deep (2x) direct connection
R15 (4x)
100 ± 0,2 70 ± 0,02 39,5 ± 0,2
Sensor holder $\varnothing 8$ (2x) 11 130 ± 0,02 176 4,2
C-nut for magnetic sensors

82 ± 0,2 Sleeve $\varnothing 14$ for gripper connection
Profondeur G1/8"/8 (2x) air connection
38 A 22 ± 0,2 91 17 4
M5 /6 deep for sealing air M12 (4x) $\varnothing 16$ h6 (4x)

$\varnothing 14$ h6 (2x) M8 (4x) M10 (4x) 15 4 20 70 $\varnothing 10,2$ $\varnothing 17$ (2x) 90
 $\varnothing 8,4$ $\varnothing 14$ (4x) 23

190 154 82 ± 0,2 M5 /6 deep for air connection
34 ± 0,02 90 22 ± 0,2
M5 /6 deep for sealing air 130 ± 0,02

Type GA/GI with gripping force safety device

154 88 50 140 141 234

Accessories: Protective cover

MAX. 298 71 45 32
RPP 200-1 MAX. 126; MIN. 76
RPP 200-2 MAX. 104; MIN. 76

248
Height RPP 200-1/2: 99,5
Height RPP 200-1/2 GA/GI: 149,5
5,5 4

Parallel gripper RPP

RPP-240



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 50 to 380, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via centering sleeves (included in the scope of delivery).

CUSTOMER BENEFITS

- ⊕ High gripping force with low dead weight and compact design
- ⊕ High torque support for using long gripper fingers thanks to elongated jaw guide
- ⊕ Maximum flexibility thanks to versatile connection and fastening options
- ⊕ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation (hydraulic actuation available on request)
- Position monitoring with inductive or magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

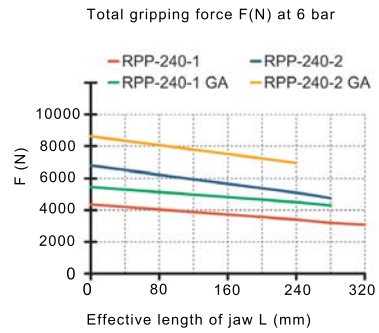
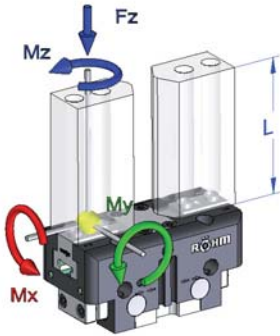
C40
RPP-240 - 2-jaw parallel gripper air operated

Item no.	170100	170101	170102	170103	170104	170105
Design	RPP-240-1	RPP-240-2	RPP-240-1/GA	RPP-240-2/GA	RPP-240-1/GI	RPP-240-2/GA
Gripping force at 6 bar N	4309	7324	5256	8934	5526	9392
Stroke per jaw mm	30	17	30	17	30	17
Gripping force maintained N	-	-	1000	1600	1000	1600
Recommended workpiece weight kg	21	35	21	35	21	35
Weight kg	8,8	9,2	12	12	12	12
Width mm	270	270	270	270	270	270
Height mm	107	107	163,5	163,5	163,5	163,5
Depth mm	115	115	115	115	115	115
Mx Nm	260	260	260	260	260	260
My Nm	250	250	250	250	250	250
Mz Nm	160	160	160	160	160	160
Fz N	6200	6200	6200	6200	6200	6200
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,45	0,45	0,35	0,35	0,65	0,65
Opening time s	0,45	0,45	0,65	0,65	0,35	0,35
Air consumption per cycle cm ³	650	650	650	650	650	650
Max. allowable length of jaw mm	320	280	280	240	280	240

RPP-240

Max. load on gripper and jaw

Clamping force diagram exterior gripping



RPP 240-1: 69
RPP 240-2: 82

RPP 240-1 MAX. 153,5; MIN. 93,5
RPP 240-2 MAX. 127,5; MIN. 93,5

Tubeless direct connection
Adapter, Gripper, O-ring Ø4x1,5

Sensor holder Ø8 (2x)
C-nut for magnetic sensors

G1/8" / 8 deep (2x) air connection
Sleeve Ø16 for gripper connection

M5 / 6 deep for air connection
M5 / 6 deep for sealing air

Type GA/GI with gripping force safety device

Accessories: Protective cover

MAX. 348

RPP 240-1 MAX. 153,5; MIN. 93,5
RPP 240-2 MAX. 127,5; MIN. 93,5

Height RPP 240-1/2: 115,5
Height RPP 240-1/2 GA/GI: 172

RPP-300



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 50 to 380, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via centering sleeves (included in the scope of delivery).

CUSTOMER BENEFITS

- ⊕ High gripping force with low dead weight and compact design
- ⊕ High torque support for using long gripper fingers thanks to elongated jaw guide
- ⊕ Maximum flexibility thanks to versatile connection and fastening options
- ⊕ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation (hydraulic actuation available on request)
- Position monitoring with inductive or magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

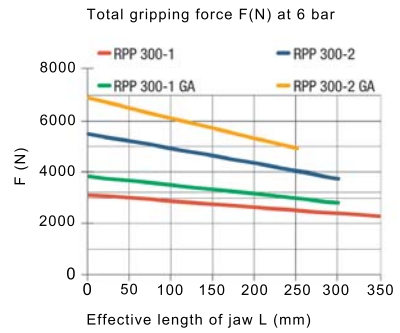
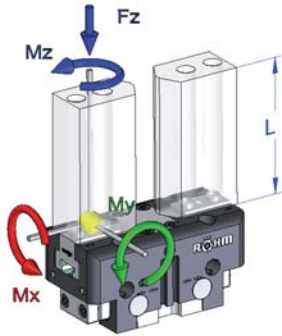
C40
RPP-300 - 2-jaw parallel gripper air operated

Item no.	170041	170042	170043	170044	170045 ▲	170046 ▲
Design	RPP-300-1	RPP-300-2	RPP-300-1/GA	RPP-300-2/GA	RPP-300-1/GI	RPP-300-2/GI
Gripping force at 6 bar N	6400	11000	7590	12910	7860	13360
Stroke per jaw mm	35	20	35	20	35	20
Gripping force maintained N	-	-	1300	2200	1300	2200
Recommended workpiece weight kg	31	52	31	52	31	52
Weight kg	14	14	17	17	17	17
Width mm	320	320	320	320	320	320
Height mm	122	122	172	172	172	172
Depth mm	140	140	140	140	140	140
Mx Nm	400	400	400	400	400	400
My Nm	400	400	400	400	400	400
Mz Nm	250	250	250	250	250	250
Fz N	8000	8000	8000	8000	8000	8000
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,5	0,5	0,4	0,4	0,7	0,7
Opening time s	0,5	0,5	0,7	0,7	0,4	0,4
Air consumption per cycle cm ³	1040	1040	1040	1040	1040	1040
Max. allowable length of jaw mm	350	300	300	250	300	250

RPP-300

Max. load on gripper and jaw

Clamping force diagram exterior gripping



RPP 300-1: 79
RPP 300-2: 94

RPP 300-1 MAX. 195; MIN. 125
RPP 300-2 MAX. 165; MIN. 125

Tubeless direct connection

Adapter, Gripper, O-ring Ø4x1,5

G1/4" /12 deep (2x) air connection

M5 /6 deep for sealing air

Sleeve Ø22 for gripper connection

M5/6 deep (2x) direct connection

M5 /6 deep (2x) for air connection

Type GA/GI with gripping force safety device

Accessories: Protective cover

RPP-380



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 50 to 380, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via centering sleeves (included in the scope of delivery).

CUSTOMER BENEFITS

- ⊕ High gripping force with low dead weight and compact design
- ⊕ High torque support for using long gripper fingers thanks to elongated jaw guide
- ⊕ Maximum flexibility thanks to versatile connection and fastening options
- ⊕ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

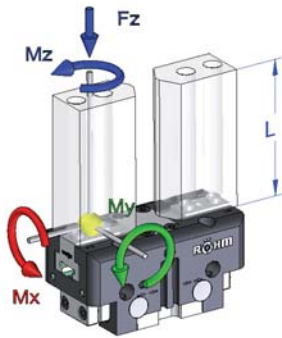
- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation (hydraulic actuation available on request)
- Position monitoring with inductive or magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

C40
RPP-380 - 2-jaw parallel gripper air operated

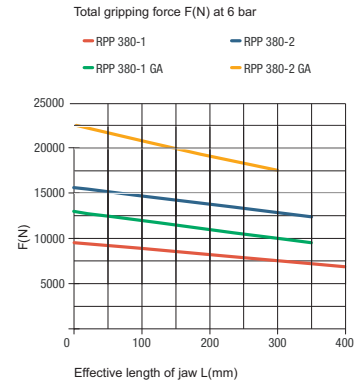
Item no.	172113	172114	172115	172116	172117 ▲	172118 ▲
Design	RPP-380-1	RPP-380-2	RPP-380-1/GA	RPP-380-2/GA	RPP-380-1/GI	RPP-380-2/GI
Gripping force at 6 bar N	9620	16350	12470	21200	12900	21900
Stroke per jaw mm	45	26	45	26	45	26
Gripping force maintained N	-	-	2850	4850	2850	4850
Recommended workpiece weight kg	48	82	35,5	82	48	82
Weight kg	28	28	35,5	35,5	35,5	35,5
Width mm	310	410	410	410	410	410
Height mm	226,5	155	226,5	226,5	226,5	226,5
Depth mm	170	170	170	170	170	170
Mx Nm	560	560	560	560	560	560
My Nm	560	560	560	560	560	560
Mz Nm	370	370	370	370	370	370
Fz N	10000	10000	10000	10000	10000	10000
Operating pressure min./max. without GA/GI bar	2,5-8	2,5-8				
Operating pressure min./max. with GA/GI bar			4-6,5	4-6,5	4-6,5	4-6,5
Clamping time s	0,6	0,6	0,45	0,45	0,8	0,8
Opening time s	0,6	0,6	0,8	0,8	0,5	0,5
Max. allowable length of jaw mm	400	350	350	300	350	300

RPP-380

Max. load on gripper and jaw



Clamping force diagram exterior gripping



RPP 380-1: 103,75
RPP 380-2: 122,75

RPP 380-1 MAX. 236,5; MIN. 146,5
RPP 380-2 MAX. 198,5; MIN. 146,5

Tubeless direct connection

Adapter, Gripper, O-Ring Ø6x1,5, Sensor holder Ø8 (2x), C-nut for magnetic sensors

Type GA/GI with gripping force safety device

Sleeve Ø22 for gripper connection, G1/4" /12 deep (2x) air connection, M5 /6 deep for sealing air, Ø28 h6 (2x), M16 (4x), M20 (4x)

Accessories: Protective cover

MAX. 520

RPP 380-1 MAX. 236,5; MIN. 146,5
RPP 380-2 MAX. 198,5; MIN. 146,5

Parallel gripper RPP

Accessories RPP

Jaw blank - steel (including fixing screws)
2-jaw set


Item no.	Number of jaws	Design	For
170574 ▲	2	steel	RPP-50
170575 ▲	2	steel	RPP-64
170576 ▲	2	steel	RPP-80
170577 ▲	2	steel	RPP-100
170578 ▲	2	steel	RPP-125
170579 ▲	2	steel	RPP-160
170580 ▲	2	steel	RPP-200
170581 ▲	2	steel	RPP-240
170582 ▲	2	steel	RPP-300
170583 ▲	2	steel	RPP-380

Jaw blank - aluminium (including fixing screws)
2-jaw set


Item no.	Number of jaws	Design	For
170584 ▲	2	aluminium	RPP-50
170585 ▲	2	aluminium	RPP-64
170586 ▲	2	aluminium	RPP-80
170587 ▲	2	aluminium	RPP-100
170588 ▲	2	aluminium	RPP-125
170589 ▲	2	aluminium	RPP-160
170590 ▲	2	aluminium	RPP-200
170591 ▲	2	aluminium	RPP-240
170592 ▲	2	aluminium	RPP-300
170593 ▲	2	aluminium	RPP-380

Protective cover


Item no.	For
170594	RPP-50
170540	RPP-64
170541	RPP-80
170542	RPP-100
170543	RPP-125
170544	RPP-160
170545	RPP-200
170546	RPP-240
170547	RPP-300
170548	RPP-380

Compressed air connection


Item no.	Design	For
802539	L-Plug connector M5 - 6 mm	RPP-50 / RPP-64 / RPP-80
477025	L-Plug connector 1/8 - 6 mm	RPP-100 - RPP-240
477024	L-Plug connector 1/4 - 6 mm	RPP-300 / RPP-380

Pressure maintenance
for double acting gripper (G1/8)


Item no.
1078823

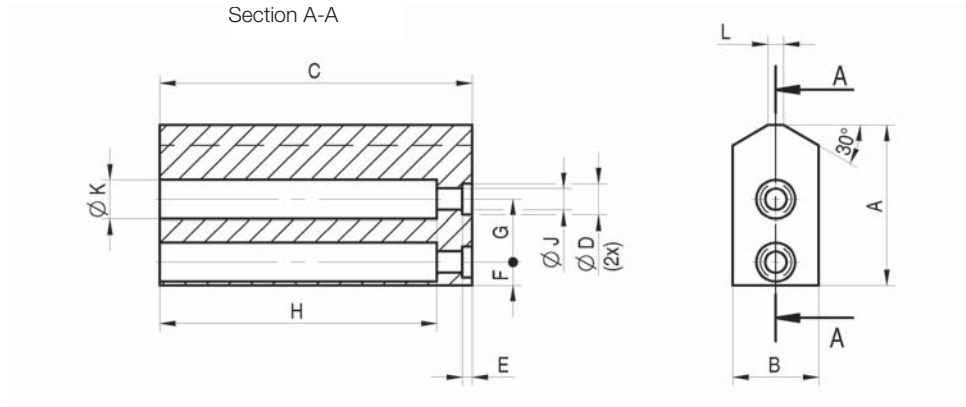
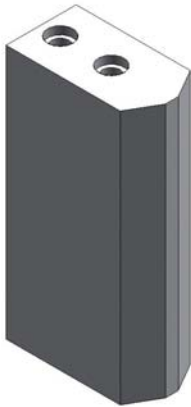
Proximity switch


Item no.	Size (diameter/ length)	Design	For
1149503	3x27	30 cm cable, plug M8x1-S49	RPP-50
229114	M8x1x30,5	5 m cable, open leads	RPP-64 / RPP- 80 / RPP-100
389661	M8x1x46,5	3 m cable, open leads	RPP-125 - RPP-380

Magnetic field sensors

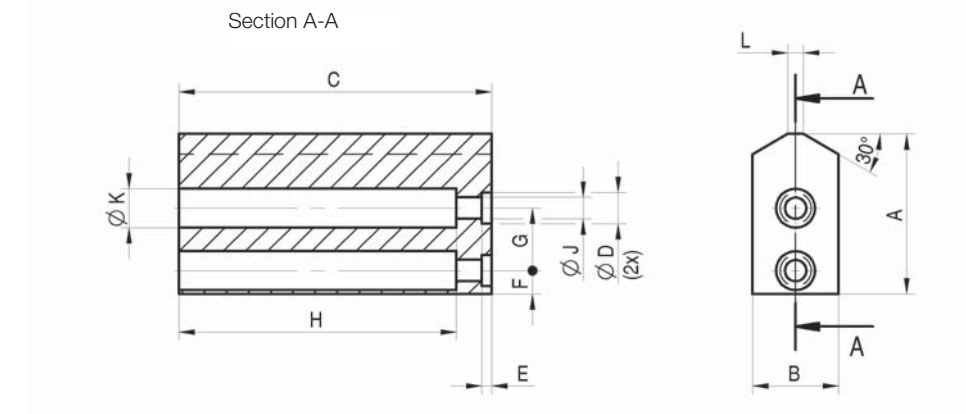
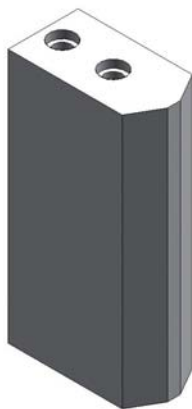

Item no.	Size (diameter/length)	Design	For
1306268	C-Nut	2 m cable, open leads	RPP-50
1276722	C-Nut	3 m cable, 3 open leads	all sizes, all types

Accessories RPP



Jaw blank - steel (including fixing screws), 2-jaw set

RPP / RZP	50	64	80	100	125	160	200	240	300
RPP - 2-jaw set	170574	170575	170576	170577	170578	170579	170580	170581	170582
RZP - 3-jaw set	170596	170500	170502	170504	170506	170508	170510	170512	170514
A	30	32	41	51	60	80	96	109	130
B	15	20	22	30	35	40	40	50	60
C	50	64	80	100	125	160	200	220	200
D +0,04/+0,02	5	6	8	10	10	14	16	16	22
E+0,2	2	2,5	2,5	3	3	4	4	4	6
F±0,1	5	5	6	7	9,5	10	15	15,5	20
G±0,1	12	13	16	20	24	32	40	44	46
H	45	57	71	91	115	146	181	204	177
J	3,4	4,5	5,5	6,6	6,6	11	13,5	13,5	17,5
K	6	8	10	11	11	18	20	20	26
L	2	3	4	5	6	8	13	10	16
Weight per jaw Kg	0,15	0,25	0,45	1,0	1,75	3,2	5,0	8,0	10,2



Jaw blank - aluminium (including fixing screws), 2-jaw set

RPP / RZP	50	64	80	100	125	160	200	240	300
RPP - 2-jaw set	170584	170585	170586	170587	170588	170589	170590	170591	170592
RZP - 3-jaw set	170597	170550	170552	170554	170556	170558	170560	170562	170564
A	30	32	41	51	60	80	96	109	130
B	15	20	25	30	35	40	45	50	60
C	50	64	80	100	125	160	200	220	200
D +0,04/+0,02	5	6	8	10	10	14	16	16	22
E+0,2	2	2,5	2,5	3	3	4	4	4	6
F±0,1	5	5	6	7	9,5	10	15	15,5	20
G±0,1	12	13	16	20	24	32	40	44	46
H	43	55	69	88	112	141	176	200	170
J	3,4	4,5	5,5	6,6	6,6	11	13,5	13,5	17,5
K	6	8	10	11	11	18	20	20	26
L	2	3	4	5	6	8	9	10	16
Weight per jaw Kg	0,05	0,1	0,18	0,35	0,6	1,2	2,0	2,8	3,4

RPP-A 50



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 50 to 160, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via tongue and groove.

CUSTOMER BENEFITS

- ④ High gripping force with low dead weight and compact design
- ④ Maximum flexibility thanks to versatile connection and fastening options
- ④ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation (hydraulic actuation available on request)
- Position monitoring with inductive or magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

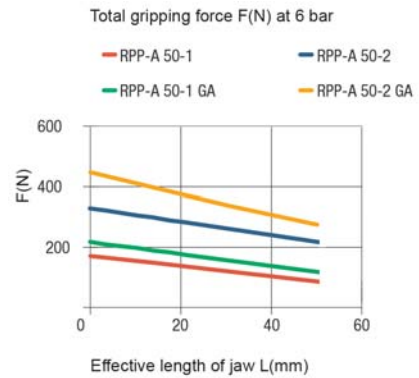
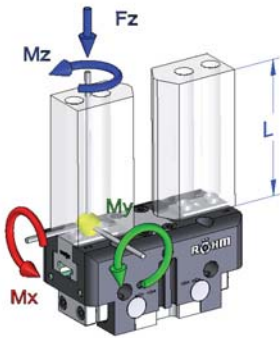
C40
RPP-A 50 - 2-jaw parallel gripper air operated with tongue and groove

Item no.	438040 ▲	438041 ▲	438042 ▲	438043 ▲	438044 ▲	438045 ▲
Design	RPP-A 50-1	RPP-A 50-2	RPP-A 50-2/GA	RPP-A 50-2/GA	RPP-A 50-1/GI	RPP-A 50-2/GI
Gripping force at 6 bar N	170	320	210	380	220	410
Stroke per jaw mm	4	2	4	2	4	2
Gripping force maintained N	-	-	30	60	30	60
Recommended workpiece weight kg	0,85	1,6	0,85	1,6	0,85	1,6
Weight kg	0,13	0,16	0,17	0,17	0,17	0,17
Width mm	50	50	50	50	50	50
Height mm	47	47	47	47	47	47
Depth mm	28	28	28	28	28	28
Mx Nm	12	12	12	12	12	12
My Nm	10	10	10	10	10	10
Mz Nm	10	10	10	10	10	10
Fz N	250	250	250	250	250	250
Operating pressure min./max. without GA/GI bar	2-8	2-8				
Operating pressure min./max. with GA/GI bar			4-6,5	4-6,5	4-6,5	4-6,5
Clamping time s	0,02	0,02	0,01	0,01	0,02	0,02
Opening time s	0,02	0,02	0,02	0,02	0,01	0,01
Air consumption per cycle cm ³	5	5	5	5	5	5
Max. allowable length of jaw mm	50	50	50	50	50	50

RPP-A 50

Max. load on gripper and jaw

Clamping force diagram exterior gripping



RPP-A 50-1 MAX. 35.8; MIN. 27
RPP-A 50-2 MAX. 31.4; MIN. 27
MAX. 58.8

Tubeless direct connection
Adapter Gripper
Sensor holder Ø4 (2x)
O-ring Ø3x1.0

Type GA/GI with gripping force safety device

Accessories: Protective cover

RPP-A 50-1 MAX. 35.8; MIN. 27
RPP-A 50-2 MAX. 31.4; MIN. 27

2-jaw parallel gripper RPP-A

RPP-A 64



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 50 to 160, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via tongue and groove.

CUSTOMER BENEFITS

- ④ High gripping force with low dead weight and compact design
- ④ Maximum flexibility thanks to versatile connection and fastening options
- ④ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

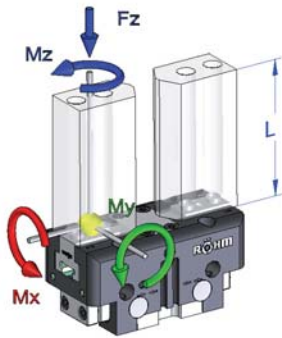
- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation (hydraulic actuation available on request)
- Position monitoring with inductive or magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

C40
RPP-A 64 - 2-jaw parallel gripper air operated with tongue and groove

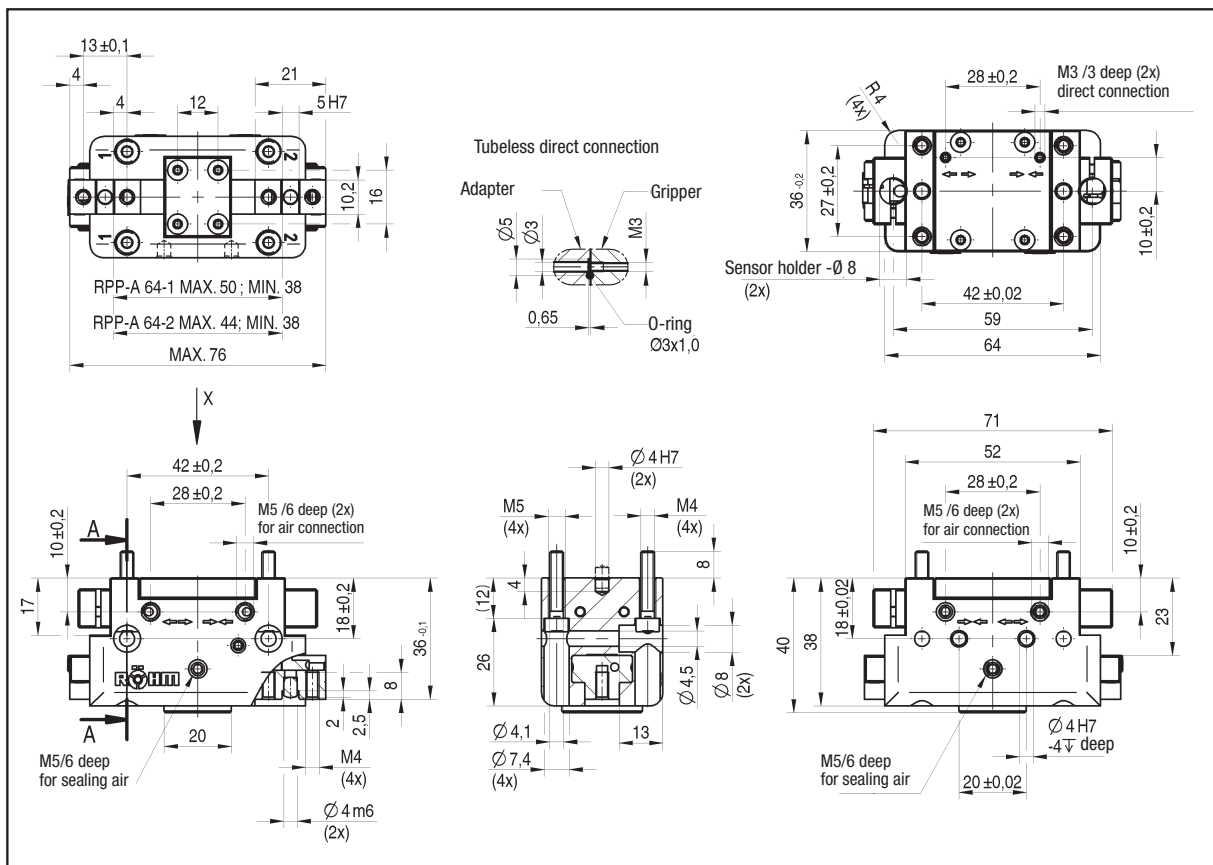
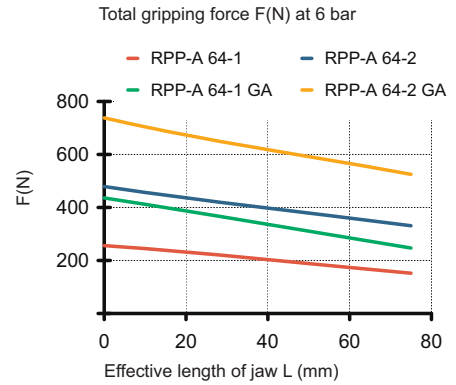
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Design	RPP-A 64-1	RPP-A 64-2	RPP-A 64-1/GA	RPP-A 64-2/GA	RPP-A 64-1/GI	RPP-A 64-2/GI
Gripping force at 6 bar N	240	450	320	600	350	650
Stroke per jaw mm	6	3	6	3	6	3
Gripping force maintained N	-	-	80	150	80	150
Recommended workpiece weight kg	1,2	2,2	1,2	2,2	1,2	2,2
Weight kg	0,3	0,3	0,42	0,42	0,42	0,42
Width mm	64	64	64	64	64	64
Height mm	40	40	58	58	58	58
Depth mm	36	36	36	36	36	36
Mx Nm	15	15	15	15	15	15
My Nm	30	30	30	30	30	30
Mz Nm	25	25	25	25	25	25
Fz N	450	450	450	450	450	450
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,02	0,02	0,01	0,01	0,02	0,02
Opening time s	0,02	0,02	0,02	0,02	0,1	0,1
Air consumption per cycle cm ³	10	10	10	10	10	10
Max. allowable length of jaw mm	64	64	64	64	64	64

RPP-A 64

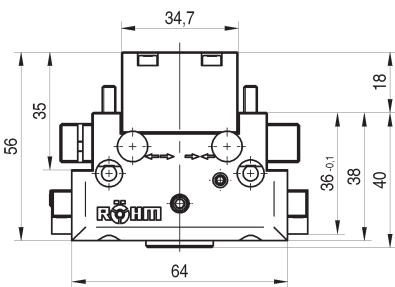
Max. load on gripper and jaw



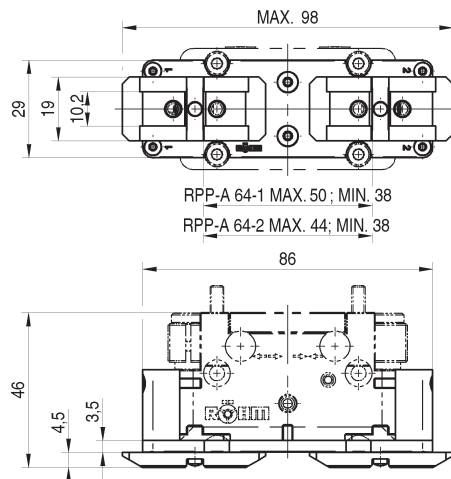
Clamping force diagram exterior gripping



Type GA/GI with gripping force safety device



Accessories: Protective cover



2-jaw parallel gripper RPP-A

RPP-A 80



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 50 to 160, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via tongue and groove.

CUSTOMER BENEFITS

- ④ High gripping force with low dead weight and compact design
- ④ Maximum flexibility thanks to versatile connection and fastening options
- ④ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation (hydraulic actuation available on request)
- Position monitoring with inductive or magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

C40
RPP-A 80 - 2-jaw parallel gripper air operated with tongue and groove

Item no.	434844 ▲	435027 ▲	435028 ▲	435029 ▲	435030 ▲	435031 ▲
Design	RPP-A 80-1	RPP-A 80-2	RPP-A 80-1/GA	RPP-A 80-2/GA	RPP-A 80-1/GI	RPP-A 80-2/GI
Gripping force at 6 bar N	380	700	520	970	550	1000
Stroke per jaw mm	8	4	8	4	8	4
Gripping force maintained N	-	-	140	270	140	270
Recommended workpiece weight kg	1,9	3,5	1,9	3,5	1,9	3,5
Weight kg	0,45	0,45	0,6	0,6	0,6	0,6
Width mm	80	80	80	80	80	80
Height mm	50	50	71	71	71	71
Depth mm	42	42	42	42	42	42
Mx Nm	30	30	30	30	30	30
My Nm	90	90	90	90	90	90
Mz Nm	35	35	35	35	35	35
Fz N	600	600	600	600	600	600
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,03	0,03	0,02	0,02	0,03	0,03
Opening time s	0,03	0,03	0,03	0,03	0,02	0,02
Air consumption per cycle cm ³	20	20	20	20	20	20
Max. allowable length of jaw mm	80	80	80	80	80	80

RPP-A 100



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 50 to 160, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via tongue and groove.

CUSTOMER BENEFITS

- ④ High gripping force with low dead weight and compact design
- ④ Maximum flexibility thanks to versatile connection and fastening options
- ④ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

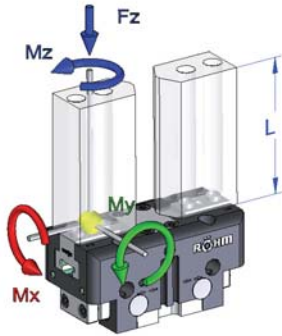
- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation (hydraulic actuation available on request)
- Position monitoring with inductive or magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

C40
RPP-A 100 - 2-jaw parallel gripper air operated with tongue and groove

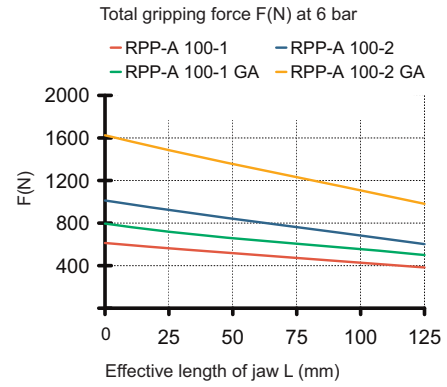
Item no.	434845 ▲	435032 ▲	435033 ▲	434846 ▲	435034 ▲	435035 ▲
Design	RPP-A 100-1	RPP-A 100-2	RPP-A 100-1/GA	RPP-A 100-2/GA	RPP-A 100-1/GI	RPP-A 100-2/GI
Gripping force at 6 bar N	600	1160	750	1450	800	1550
Stroke per jaw mm	10	5	10	5	10	5
Gripping force maintained N	-	-	150	290	150	290
Recommended workpiece weight kg	3	5,5	3	5,5	3	5,5
Weight kg	0,75	0,75	0,95	0,95	0,95	0,95
Width mm	100	100	100	100	100	100
Height mm	56	56	82,5	82,5	82,5	82,5
Depth mm	50	50	50	50	50	50
Mx Nm	45	45	45	45	45	45
My Nm	95	95	95	95	95	95
Mz Nm	45	45	45	45	45	45
Fz N	800	800	800	800	800	800
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,05	0,05	0,03	0,03	0,05	0,05
Opening time s	0,05	0,05	0,05	0,05	0,03	0,03
Air consumption per cycle cm ³	40	40	40	40	40	40
Max. allowable length of jaw mm	100	100	100	100	100	100

RPP-A 100

Max. load on gripper and jaw



Clamping force diagram exterior gripping



Tubeless direct connection
Adapter Gripper
Ø7 Ø4 M5
1,1 O-ring Ø4x1,5

RPP-A 100-1 MAX. 80; MIN. 60
RPP-A 100-2 MAX. 70; MIN. 60
MAX. 120

Clamping sleeve Ø6,5 (4x)
Sensor holder -Ø 8 (2x)
M5 /5 deep (2x) direct connection (2x)
66±0,02 90 100

G1/8" /8 deep (2x) air connection
M5/6 deep for sealing air
M6 (4x) Ø 6 m6 (2x)
Ø 5 H7 (2x)
M5 (4x)
Ø 5,1 (4x) Ø 9 (4x) Ø 6,6 (2x) Ø 11 (2x)

M5 /6 deep (2x) for air connection
M5/6 deep for sealing air
Ø 5 H7 -6√ deep
50±0,02

Type GA/GI with gripping force safety device

54 80,5 54,5 51,01 54 56 100

Accessories: Protective cover

MAX. 152 39 24 14,2 64 5,5 4,5 132

RPP-A 100-1 MAX. 80; MIN. 60
RPP-A 100-2 MAX. 70; MIN. 60

2-jaw parallel gripper RPP-A

RPP-A 125



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 50 to 160, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via tongue and groove.

CUSTOMER BENEFITS

- ④ High gripping force with low dead weight and compact design
- ④ Maximum flexibility thanks to versatile connection and fastening options
- ④ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation (hydraulic actuation available on request)
- Position monitoring with inductive or magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

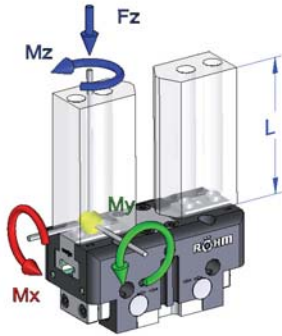
C40
RPP-A 125 - 2-jaw parallel gripper air operated with tongue and groove

Item no.	435036 ▲	435037 ▲	435038 ▲	434847 ▲	435039 ▲	435040 ▲
Design	RPP-A 125-1	RPP-A 125-2	RPP-A 125-1/GA	RPP-A 125-2/GA	RPP-A 125-1/GI	RPP-A 125-2/GI
Gripping force at 6 bar N	950	1900	1230	2450	1300	2520
Stroke per jaw mm	13	6	13	6	13	6
Gripping force maintained N	-	-	280	550	280	550
Recommended workpiece weight kg	4,5	9,5	4,5	9,5	4,5	9,5
Weight kg	1,3	1,3	1,65	1,65	1,65	1,65
Width mm	125	125	125	125	125	125
Height mm	64	64	104	104	104	104
Depth mm	60	60	60	60	60	60
Mx Nm	60	60	60	60	60	60
My Nm	100	100	100	100	100	100
Mz Nm	70	70	70	70	70	70
Fz N	900	900	900	900	900	900
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,08	0,08	0,07	0,07	0,1	0,1
Opening time s	0,08	0,08	0,1	0,1	0,07	0,07
Air consumption per cycle cm ³	70	70	70	70	70	70
Max. allowable length of jaw mm	125	125	125	125	125	125

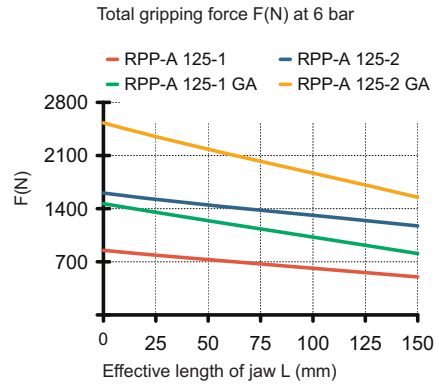
2-jaw parallel gripper RPP-A

RPP-A 125

Max. load on gripper and jaw



Clamping force diagram exterior gripping



Technical drawing of the RPP-A 125-1 and RPP-A 125-2 grippers. Dimensions include: 24±0,1, 8,5, 8, 24, 40, 8H7, 16,2, 24, 82±0,2, 61±0,2, 15±0,2, 32, 36, 3, 3,5, 12, 59±0,1, 3, 3,5, 12, 59±0,1, 15±0,2, 32, 36, 3, 3,5, 12, 59±0,1, 3, 3,5, 12, 59±0,1. Features include: G1/8" /8 deep (2x) air connection, M5/6 deep for sealing air, M6 (4x), Ø6m6 (2x), Ø6H7 (2x), M8 (4x), M6 (4x), Ø9, Ø15 (4x), Ø6,6, Ø11 (4x), 28, 41, 8, 9, 1,1, Ø7, Ø4, M5, O-ring Ø4x1,5, Adapter, Gripper, Tubeless direct connection.

Technical drawing of the RPP-A 125-1 GA and RPP-A 125-2 GA grippers. Dimensions include: 56±0,2, 60±0,2, 45±0,2, 14±0,2, 82±0,02, 111, 125, 125, 100, 61±0,2, 30±0,02, 64, 62, 15±0,2, 40, 60±0,02, Ø6H7 -8 deep, M5 /6 deep (2x) for air connection, Sensor holder -Ø 8 (2x), M5 /5 deep (2x) direct connection, R1/8 (4x).

Type GA/GI with gripping force safety device

Technical drawing of the RPP-A 125-1 GA/GI with gripping force safety device. Dimensions include: 66, 102, 72, 125, 59±0,1, 62, 64, 40.

Accessories: Protective cover

Technical drawing of the RPP-A 125-1 and RPP-A 125-2 with protective cover. Dimensions include: MAX. 185, 45, 26, 16,2, 71,5, 5, 4,5, 159, 125, 100, 61±0,2, 30±0,02, 64, 62, 15±0,2, 40, 60±0,02, Ø6H7 -8 deep, M5 /6 deep (2x) for air connection, Sensor holder -Ø 8 (2x), M5 /5 deep (2x) direct connection, R1/8 (4x).

2-jaw parallel gripper RPP-A

RPP-A 160



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 50 to 160, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via tongue and groove.

CUSTOMER BENEFITS

- ④ High gripping force with low dead weight and compact design
- ④ Maximum flexibility thanks to versatile connection and fastening options
- ④ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation (hydraulic actuation available on request)
- Position monitoring with inductive or magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

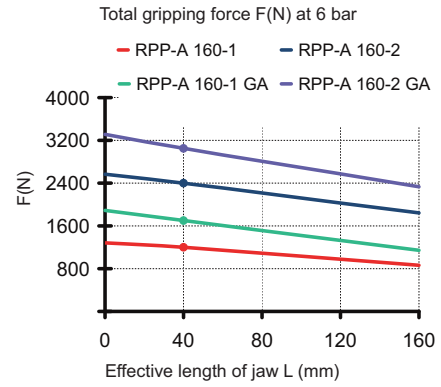
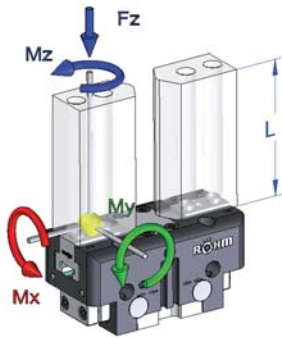
C40
RPP-A 160 - 2-jaw parallel gripper air operated with tongue and groove

Item no.	434848 ▲	435041 ▲	436525 ▲	436526 ▲	436527 ▲	436528 ▲
Design	RPP-A 160-1	RPP-A 160-2	RPP-A 160-1/GA	RPP-A 160-2/GA	RPP-A 160-1/GI	RPP-A 160-2/GI
Gripping force at 6 bar N	1300	2500	1700	3300	1850	3450
Stroke per jaw mm	16	8	16	8	16	8
Gripping force maintained N	-	-	400	800	400	800
Recommended workpiece weight kg	6,5	12,5	6,5	12,5	6,5	12,5
Weight kg	2,5	2,5	3,1	3,1	3,1	3,1
Width mm	160	160	160	160	160	160
Height mm	78	78	126	126	126	126
Depth mm	72	72	72	72	72	72
Mx Nm	80	80	80	80	80	80
My Nm	100	100	100	100	100	100
Mz Nm	80	80	80	80	80	80
Fz N	1100	1100	1100	1100	1100	1100
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,1	0,1	0,12	0,12	0,3	0,3
Opening time s	0,1	0,1	0,3	0,3	0,12	0,12
Air consumption per cycle cm ³	130	130	130	130	130	130
Max. allowable length of jaw mm	160	160	160	160	160	160

RPP-A 160

Max. load on gripper and jaw

Clamping force diagram exterior gripping



RPP-A 160-1 MAX. 132; MIN. 100
RPP-A 160-2 MAX. 116; MIN. 100
MAX. 192

Tubeless direct connection

Sensor holder
Ø 8 (2x)

M5/6 deep for sealing air

M5/6 deep for sealing air

Type GA/GI with gripping force safety device

Accessories: Protective cover

2-jaw parallel gripper RPP-A

Accessories RPP-A

Jaw blank - steel (including fixing screws)
2-jaw set


Item no.	Number of jaws	Design	For
170683 ▲	2	steel	RPP-A 50
170675 ▲	2	steel	RPP-A 64
170676 ▲	2	steel	RPP-A 80
170677 ▲	2	steel	RPP-A 100
170678 ▲	2	steel	RPP-A 125
170679 ▲	2	steel	RPP-A 160

Jaw blank - aluminium (including fixing screws)
2-jaw set


Item no.	Number of jaws	Design	For
170693 ▲	2	aluminium	RPP-A 50
170685 ▲	2	aluminium	RPP-A 64
170686 ▲	2	aluminium	RPP-A 80
170687 ▲	2	aluminium	RPP-A 100
170688 ▲	2	aluminium	RPP-A 125
170689 ▲	2	aluminium	RPP-A 160

Protective cover


Item no.	For
170708 ▲	RPP-A 50
170700 ▲	RPP-A 64
170701 ▲	RPP-A 80
170702 ▲	RPP-A 100
170703 ▲	RPP-A 125
170704 ▲	RPP-A 160

Compressed air connection


Item no.	Design	For
802539	L-Plug connector M5 - 6 mm	RPP-A 50 / RPP-A 64 / RPP-A 80
477025	L-Plug connector 1/8 - 6 mm	RPP-A 100 - RPP-A 160

Pressure maintenance
for double acting gripper (G1/8)


Item no.
1078823

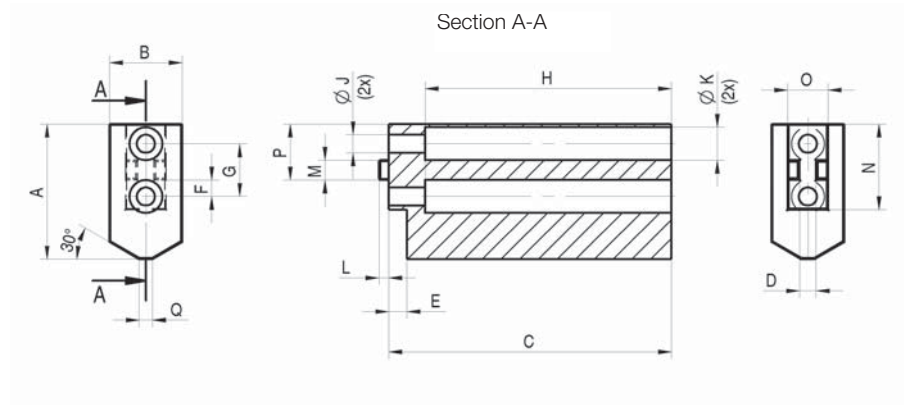
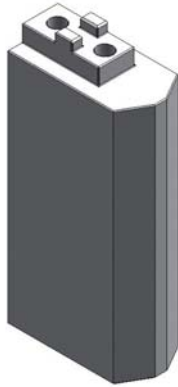
Proximity switch


Item no.	Size (diameter/ length)	Design	For
1149503	3x27	30 cm cable, plug M8x1-S49	RPP-50
229114	M8x1x30,5	5 m cable, open leads	RPP-A 64 / RPP-A 80 / RPP-A 100
389661	M8x1x46,5	3 m cable, open leads	RPP-A 125 - RPP-A 160

Magnetic field sensors


Item no.	Size (diameter/ length)	Design	For
1306268	C-Nut	2 m cable, open leads	RPP-A 50
1276722	C-Nut	3 m cable, open leads	RPP-A 64 - RPP-A 160

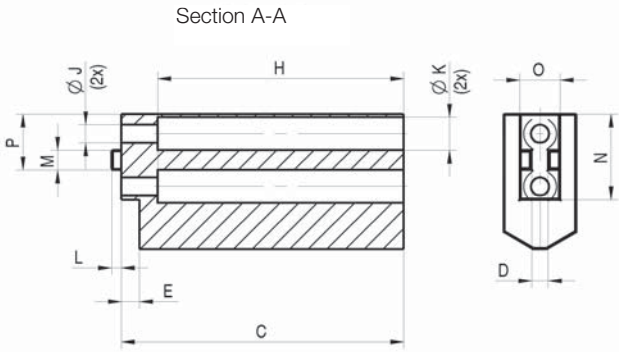
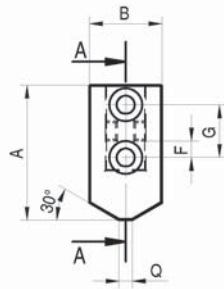
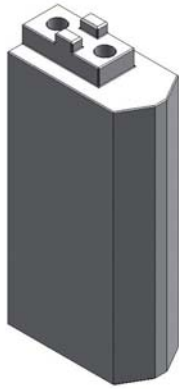
Accessories RPP-A



Jaw blank - steel (including fixing screws)

RPP-A / RZP-A Jaw blank - steel	50	64	80	100	125	160
RPP-A - 2-jaw set	170683	170675	170676	170677	170678	170679
RZP-A - 3-jaw set	-	170825	170826	170827	170828	170829
A	26	32	41	51	60	80
B	15	20	22	30	35	40
C	50	68,5	85,5	105,5	130,5	166,5
D +0,01/+0,03	4	4	5	6	6	8
E+0,2	2	4,5	5,5	5,5	5,5	6,5
F±0,1	3,5	4	5	6	8	11
G±0,1	12	13	16	20	24	32
H	45,5	59,5	74,5	94,5	119,5	153,5
J	3,4	4,5	5,5	6,6	6,6	9
K	6	8	10	11	11	15
L	2	2,5	3	3	3,5	4
Mf7	5	5	6	8	8	10
N-0,3/-0,5	22,825	21	26	33	41	51
O-0,3/-0,5	8	10,2	12,2	14,2	16,2	20,2
P+0,1	12,5	14	17	21	25,5	31
Q	4	3	4	5	6	8
Weight per jaw Kg	0,13	0,26	0,46	1,0	1,8	3,5

Accessories RPP-A



Jaw blank - aluminium (including fixing screws)

RPP-A / RZP-A Jaw blank - aluminium	50	64	80	100	125	160
RPP-A - 2-jaw set	170693	170685	170686	170687	170688	170689
RZP-A - 3-jaw set	-	170835	170836	170837	170838	170839
A	26	32	41	51	60	80
B	15	20	22	30	35	40
C	50	68,5	85,5	105,5	130,5	166,5
D +0,01/+0,03	4	4	5	6	6	8
E+0,2	2	4,5	5,5	5,5	5,5	6,5
F±0,1	3,5	4	5	6	8	11
G±0,1	12	13	16	20	24	32
H	45,5	59,5	74,5	94,5	119,5	153,5
J	3,4	4,5	5,5	6,6	6,6	9
K	6	8	10	11	11	15
L	2	2,5	3	3	3,5	4
Mf7	5	5	6	8	8	10
N-0,3/-0,5	22,825	21	26	33	41	51
O-0,3/-0,5	8	10,2	12,2	14,2	16,2	20,2
P+0,1	12,5	14	17	21	25,5	31
Q	4	3	4	5	6	8
Weight per jaw Kg	0,13	0,1	0,16	0,35	0,62	1,2



Notes



NOMENCLATURE

RZP

RÖHM
Z centric gripper
Pneumatic

-A

A = Alternative
jaw fixture by
tongue and
groove

- 100

Sizes
64 - 300

-1

Jaw stroke variant
1 = long stroke
2 = short stroke

/ GA

Optional:
spring safety
GA = outside grip
GI = inside grip

/ V

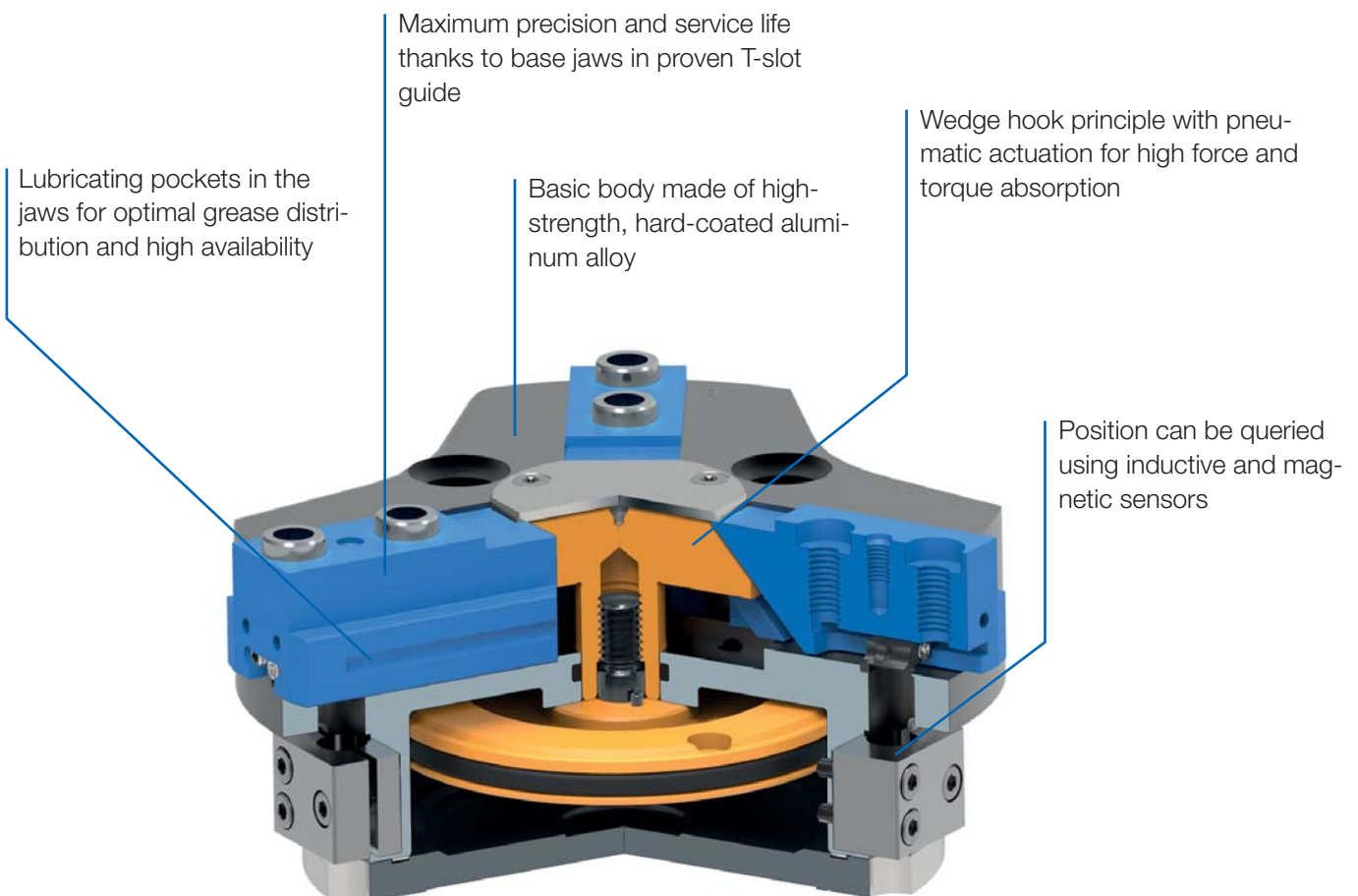
Optional:
V = Viton FKM-
sealing for
temperatures
up to 150 °C

3-JAW CENTRIC GRIPPER

Equipped with three centrally arranged gripper fingers, RÖHM RZP grippers are optimally suited for universal and self-centering gripping of round workpieces. Especially on robots or portals, the 3-jaw centric grippers will convince you with their compact design, low dead weight and high gripping force.

ADVANTAGES AT A GLANCE

- ⊕ High gripping force with low dead weight and compact design
- ⊕ Maximum flexibility thanks to versatile connection and fastening options
- ⊕ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide



RZP-64



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 64 to 300, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via centering sleeves (included in the scope of delivery).

CUSTOMER BENEFITS

- ⊕ High gripping force with low dead weight and compact design
- ⊕ High torque support for using long gripper fingers thanks to elongated jaw guide
- ⊕ Maximum flexibility thanks to versatile connection and fastening options
- ⊕ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation
- Optional inductive and magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

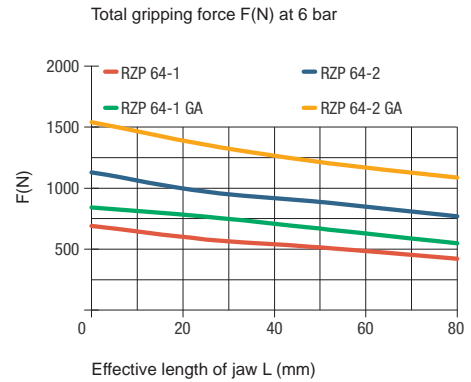
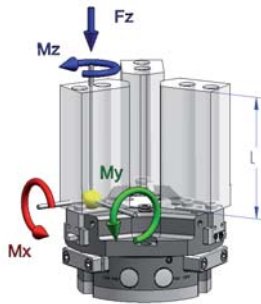
C40
RZP-64 - 3-jaw centric gripper air operated

Item no.	170050	170051 ▲	170052	170053 ▲	170054	170055 ▲
Design	RZP-64/3-1	RZP-64/3-2	RZP-64/3-1 GA	RZP-64/3-2 GA	RZP-64/3-1 GI	RZP-64/3-2 GI
Gripping force at 6 bar N	650	1200	850	1600	900	1700
Stroke per jaw mm	6	3	6	3	6	3
Gripping force maintained N	-	-	200	400	200	400
Recommended workpiece weight kg	3,2	6	3,2	6	3,2	6
Weight kg	0,45	0,45	0,55	0,55	0,55	0,55
Height mm	43,3	43,3	56,8	56,8	56,8	56,8
Ø mm	76	76	76	76	76	76
Mx Nm	40	40	40	40	40	40
My Nm	60	60	60	60	60	60
Mz Nm	40	40	40	40	40	40
Fz N	1100	1100	1100	1100	1100	1100
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,03	0,03	0,02	0,02	0,04	0,04
Opening time s	0,03	0,03	0,04	0,04	0,02	0,02
Air consumption per cycle cm ³	25	25	25	25	25	25
Max. allowable length of jaw mm	90	85	85	80	85	80

RZP-64

Max. load on gripper and jaw

Clamping force diagram exterior gripping



3 x Borehole for resilient pressure piece

$\varnothing 7 H8$

18

12

RZP 64/3-1 MAX. 40,5; MIN. 34,5
RZP 64/3-2 MAX. 40,5; MIN. 37,5

RZP 64/3-1: 21
RZP 64/3-2: 24

30,8

23

38

Tubeless direct connection

Adapter

Gripper

$\varnothing 7$

$\varnothing 4$

M4

1,1

O-ring $\varnothing 4 \times 1,5$

M5/6 deep for sealing air connection

$3 \times 120^\circ$

30°

9

11

10

M3

32,5

(28)

$\varnothing 35$

15°

15°

M5/6 deep for sealing air connection (2x)

43,3

27

10

14

2,5

$\varnothing 6 h6$ (6x)

$13 \pm 0,02$

RZP 64/3-1 MAX. 23,5; MIN. 17,5
RZP 64/3-2 MAX. 20,5; MIN. 17,5

C-nut for magnetic sensors

$56 \pm 0,02$

$\varnothing 8$ Sensor holder (3x)

32

25

M4 /5 deep for air connection Close

9

M4 /5 deep for air connection Open

9

$\varnothing 76$

$\varnothing 64$

$\varnothing 56$

$\varnothing 4 H7$ (2x)

M4 (6x)

M5 (3x)

28,3

$\varnothing 5,5$

$\varnothing 10$

42,3

M4 /5 deep for air connection Close

9

M4 /5 deep for air connection Open

9

Type GA/GI with gripping force safety device

36,5

$\varnothing 64$

55,8

56,8

Accessories: Resilient pressure piece

RZP-64/3-1/2: 51,3
RZP-64/3-1/2 GA/GI: 64,8

4

Stroke 4

Elasticity MIN. 11N
MAX. 18N

$\varnothing 35$

$3 \times 120^\circ$

32

10

Accessories: Protective cover

RZP-64/3-1/2: 48,8
RZP-64/3-1/2 GA/GI: 62,3

2,5

4

40

21

11

RZP 64/3-1 MAX. 23,5; MIN. 17,5
RZP 64/3-2 MAX. 20,5; MIN. 17,5

48

MAX. 54

RZP-80



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 64 to 300, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via centering sleeves (included in the scope of delivery).

CUSTOMER BENEFITS

- ⊕ High gripping force with low dead weight and compact design
- ⊕ High torque support for using long gripper fingers thanks to elongated jaw guide
- ⊕ Maximum flexibility thanks to versatile connection and fastening options
- ⊕ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

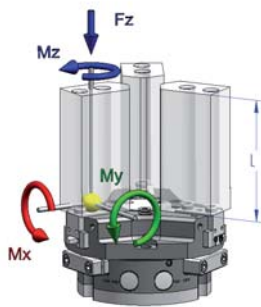
- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation
- Optional inductive and magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

C40
RZP-80 - 3-jaw centric gripper air operated

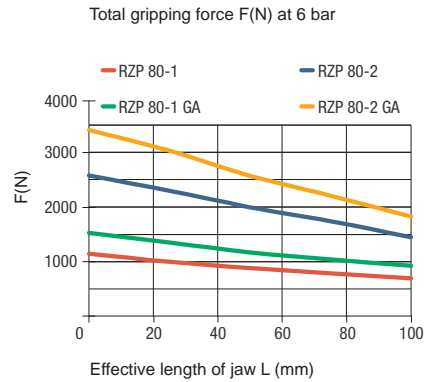
Item no.	170056	170057 ▲	170058	170059 ▲	170060	170061 ▲
Design	RZP-80/3-1	RZP-80/3-2	RZP-80/3-1 GA	RZP-80/3-2 GA	RZP-80/3-1 GI	RZP-80/3-2 GI
Gripping force at 6 bar N	1200	2400	1550	3100	1700	3250
Stroke per jaw mm	8	4	8	4	8	4
Gripping force maintained N	-	-	350	700	350	700
Recommended workpiece weight kg	6	12	6	12	6	12
Weight kg	0,8	0,8	1	1	1	1
Height mm	49,3	49,3	64,3	64,3	64,3	64,3
Ø mm	96	96	96	96	96	96
Mx Nm	60	60	60	60	60	60
My Nm	95	95	95	95	95	95
Mz Nm	55	55	55	55	55	55
Fz N	1500	1500	1500	1500	1500	1500
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,05	0,05	0,03	0,03	0,06	0,06
Opening time s	0,05	0,05	0,05	0,05	0,04	0,04
Air consumption per cycle cm ³	60	60	60	60	60	60
Max. allowable length of jaw mm	110	105	100	100	105	100

RZP-80

Max. load on gripper and jaw



Clamping force diagram exterior gripping



RZP 80/3-1 MAX. 51; MIN. 43
RZP 80/3-2 MAX. 51; MIN. 47

RZP 80/3-1: 28
RZP 80/3-2: 32

Tubeless direct connection

Adapter Gripper

C-nut for magnetic sensors

Type GA/GI with gripping force safety device

Accessories: Resilient pressure piece

RZP-80/3-1/2: 57.8
RZP-80/3-1/2 GA/GI: 72.8

Accessories: Protective cover

RZP-80/3-1/2: 54.8
RZP-80/3-1/2 GA/GI: 69.8

Centric gripper RZP

RZP-100



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 64 to 300, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via centering sleeves (included in the scope of delivery).

CUSTOMER BENEFITS

- ⊕ High gripping force with low dead weight and compact design
- ⊕ High torque support for using long gripper fingers thanks to elongated jaw guide
- ⊕ Maximum flexibility thanks to versatile connection and fastening options
- ⊕ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation
- Optional inductive and magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

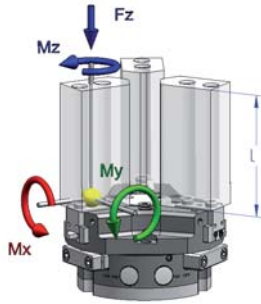
C40
RZP-100 - 3-jaw centric gripper air operated

Item no.	170062	170063 ▲	170064	170065 ▲	170066	170067 ▲
Design	RZP-100/3-1	RZP-100/3-2	RZP-100/3-1 GA	RZP-100/3-2 GA	RZP-100/3-1 GI	RZP-100/3-2 GI
Gripping force at 6 bar N	2000	4000	2650	5300	2800	5620
Stroke per jaw mm	10	5	10	5	10	5
Gripping force maintained N	-	-	650	1300	650	1300
Recommended workpiece weight kg	10	20	10	20	10	20
Weight kg	1,4	1,4	2	2	2	2
Height mm	59,3	59,3	79,3	79,3	79,3	79,3
Ø mm	120	120	120	120	120	120
Mx Nm	80	80	80	80	80	80
My Nm	115	115	115	115	115	115
Mz Nm	70	70	70	70	70	70
Fz N	2000	2000	2000	2000	2000	2000
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,1	0,1	0,1	0,1	0,2	0,2
Opening time s	0,1	0,1	0,2	0,2	0,1	0,1
Air consumption per cycle cm ³	120	120	120	120	120	120
Max. allowable length of jaw mm	145	135	135	125	135	125

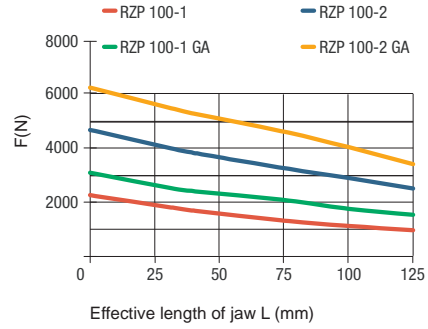
RZP-100

Max. load on gripper and jaw

Clamping force diagram exterior gripping



Total gripping force F(N) at 6 bar



3 x Borehole for resilient pressure piece

Ø 16 H8
Ø 12 H8

RZP 100/3-1: 35
RZP 100/3-2: 37,5

RZP 100/3-1 MAX. 63,5; MIN. 53,5
RZP 100/3-2 MAX. 63,5; MIN. 58,5

Tubeless direct connection

Adapter Gripper

Ø7 Ø4 M5

1,1 O-ring Ø4x1,5

M5/5 deep for sealing air connection

30° 10 11 3x 120° M4 (3x)

77,9 18 50,5 (45) 58

G1/8" / 8 deep for air connection (2x) 15° 15°

59,3 34,3 14 18,3 3 3 10h6 (6x) 20 ± 0,02

Ø 120 Ø 100 Ø 90 Ø 6,6 Ø 5 H7 (2x) M6 (6x) Ø 6,6 Ø 11

RZP 100/3-1 MAX. 37,5; MIN. 27,5
RZP 100/3-2 MAX. 32,5; MIN. 27,5

C-nut for magnetic sensors

90 ± 0,02 Ø 8 Sensor holder (3x)

M5 / 5 deep for air connection Close 12 12 M5 / 5 deep for air connection Open

Type GA/GI with gripping force safety device

Accessories: Resilient pressure piece

RZP-100/3-1/2: 68,8
RZP-100/3-1/2 GA/GI: 88,8

Stroke 5

Elasticity MIN. 45N
MAX. 67N

Accessories: Protective cover

RZP-100/3-1/2: 65,8
RZP-100/3-1/2 GA/GI: 85,8

RZP 100/3-1 max. 37,5; min. 27,5
RZP 100/3-2 max. 32,5; min. 27,5

RZP-125



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 64 to 300, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via centering sleeves (included in the scope of delivery).

CUSTOMER BENEFITS

- ⊕ High gripping force with low dead weight and compact design
- ⊕ High torque support for using long gripper fingers thanks to elongated jaw guide
- ⊕ Maximum flexibility thanks to versatile connection and fastening options
- ⊕ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation
- Optional inductive and magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

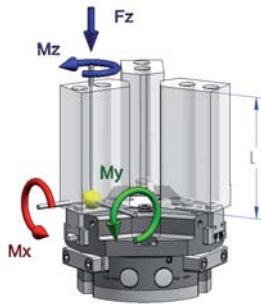
C40
RZP-125 - 3-jaw centric gripper air operated

Item no.	170068	170069 ▲	170070	170071 ▲	170072	170073 ▲
Design	RZP-125/3-1	RZP-125/3-2	RZP-125/3-1 GA	RZP-125/3-2 GA	RZP-125/3-1 GI	RZP-125/3-2 GI
Gripping force at 6 bar N	3200	6000	4200	7800	4400	8000
Stroke per jaw mm	13	6	13	6	13	6
Gripping force maintained N	-	-	1000	1800	1000	1800
Recommended workpiece weight kg	16	30	16	30	16	30
Weight kg	2,4	2,4	3,2	3,2	3,2	3,2
Height mm	67	67	91,5	91,5	91,5	91,5
Ø mm	150	150	150	150	150	150
Mx Nm	120	120	120	120	120	120
My Nm	145	145	145	145	145	145
Mz Nm	100	100	100	100	100	100
Fz N	2800	2800	2800	2800	2800	2800
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,2	0,2	0,17	0,17	0,35	0,35
Opening time s	0,2	0,2	0,35	0,35	0,17	0,17
Air consumption per cycle cm ³	230	230	230	230	230	230
Max. allowable length of jaw mm	180	170	170	160	170	160

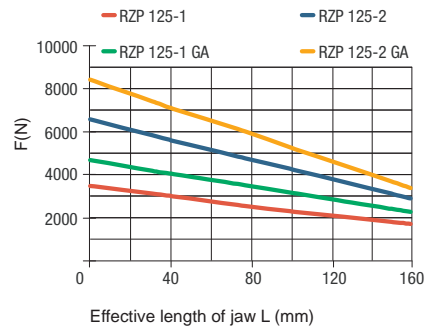
RZP-125

Max. load on gripper and jaw

Clamping force diagram exterior gripping



Total gripping force F(N) at 6 bar



3 x Borehole for resilient pressure piece
 $\text{Ø } 16 \text{ H8}$
 $\text{Ø } 14 \text{ H8}$

RZP 125/3-1 MAX. 79,5; MIN. 66,5
 RZP 125/3-2 MAX. 79,5; MIN. 73,5

RZP 125/3-1: 42
 RZP 125/3-2: 50

Tubeless direct connection

Adapter Gripper

$\text{Ø } 7$
 $\text{Ø } 4$
 M5
 1,1
 O-ring $\text{Ø } 4 \times 1,5$

M5/5 deep for sealing air connection

30°
 15°
 15°
 3x120°

G1/8" deep for air connection (2x)

C-nut for magnetic sensors

$112 \pm 0,02$
 $\text{Ø } 8$ Sensor holder (3x)

M5/5 deep for air connection Close
 Open

$\text{Ø } 150$
 $\text{Ø } 125$
 $\text{Ø } 112$
 $\text{Ø } 6,5$
 $\text{Ø } 6 \text{ H7}$
 M8 (3x)
 41
 14
 66
 67
 41
 13
 20
 $\text{Ø } 10 \text{ h6}$
 24 $\pm 0,02$
 6x
 6x
 6x
 6x
 14
 15
 15
 61
 52,7

Type GA/GI with gripping force safety device

59,5
 90,5
 91,5
 $\text{Ø } 125$

Accessories: Resilient pressure piece

RZP-125/3-1/2: 77,5
 RZP-125/3-1/2 GA/GI: 102

Stroke 6

Elasticity MIN. 120N
 MAX. 150N

$\text{Ø } 72$
 3x120°
 15
 62,5

Accessories: Protective cover

RZP-125/3-1/2: 73,5
 RZP-125/3-1/2 GA/GI: 98

3,5
 4

60
 28
 20

88,5
 MAX. 99

RZP 125/3-1 MAX. 48; MIN. 35
 RZP 125/3-2 MAX. 41; MIN. 35

Centric gripper RZP

RZP-160



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 64 to 300, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via centering sleeves (included in the scope of delivery).

CUSTOMER BENEFITS

- ⊕ High gripping force with low dead weight and compact design
- ⊕ High torque support for using long gripper fingers thanks to elongated jaw guide
- ⊕ Maximum flexibility thanks to versatile connection and fastening options
- ⊕ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

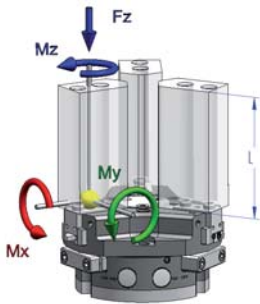
- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation
- Optional inductive and magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

C40
RZP-160 - 3-jaw centric gripper air operated

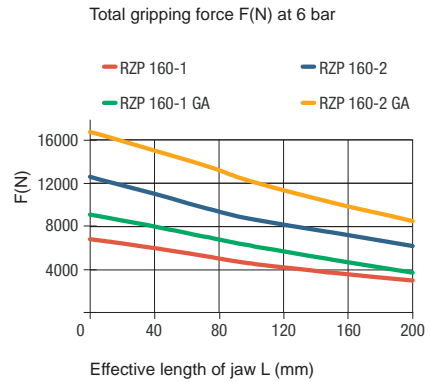
Item no.	170074	170075 ▲	170076	170077 ▲	170078	170079 ▲
Design	RZP-160/3-1	RZP-160/3-2	RZP-160/3-1 GA	RZP-160/3-2 GA	RZP-160/3-1 GI	RZP-160/3-2 GI
Gripping force at 6 bar N	6000	11000	8000	15000	8500	16000
Stroke per jaw mm	16	8	16	8	16	8
Gripping force maintained N	-	-	2000	4000	2000	4000
Recommended workpiece weight kg	30	55	30	55	30	55
Weight kg	5,5	5,5	8	8	8	8
Height mm	81	81	111	111	111	111
Ø mm	190	190	190	190	190	190
Mx Nm	170	170	170	170	170	170
My Nm	180	180	180	180	180	180
Mz Nm	130	130	130	130	130	130
Fz N	4300	4300	4300	4300	4300	4300
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,5	0,5	0,4	0,4	0,8	0,8
Opening time s	0,5	0,5	0,8	0,8	0,4	0,4
Air consumption per cycle cm ³	520	520	520	520	520	520
Max. allowable length of jaw mm	220	210	210	200	200	200

RZP-160

Max. load on gripper and jaw



Clamping force diagram exterior gripping



3 x Borehole for resilient pressure piece
 $\text{Ø} 20 \text{ H}8$
 $\text{Ø} 14 \text{ H}8$

RZP 160/3-1: 52
 RZP 160/3-2: 60

RZP 160/3-1 MAX. 102; MIN. 86
 RZP 160/3-2 MAX. 102; MIN. 94

Tubeless direct connection

Adapter Gripper
 $\text{Ø} 7$ $\text{Ø} 4$ M5
 1.1 O-ring $\text{Ø} 4 \times 1.5$

M5/5 deep for sealing air connection
 $3 \times 120^\circ$
 15° M5 (3x)
 15°
 $\text{Ø} 100$
 G1/8" / 8 deep for air connection (2x)

32 ± 0.02
 $\text{Ø} 14 \text{ h}6$ (6x)
 M10 (6x)
 $\text{Ø} 9$ $\text{Ø} 15$
 80 53 12
 $\text{Ø} 190$ $\text{Ø} 160$ $\text{Ø} 146$ $\text{Ø} 6.5$ $\text{Ø} 6 \text{ H}7$ (2x) M8 (3x)
 19 19 67.5 81.3

C-nut for magnetic sensors

146 ± 0.02
 $\text{Ø} 8$ Sensor holder (3x)
 19 19 67.5 81.3

Type GA/GI with gripping force safety device

68 110 111
 $\text{Ø} 160$

Accessories: Resilient pressure piece

RZP-160/3-1/2-92
 RZP-160/3-1/2 GA/GI: 122

Stroke 6
 Elasticity MIN. 202N
 MAX. 346N

$\text{Ø} 100$
 $3 \times 120^\circ$
 80 20

Accessories: Protective cover

RZP-160/3-1/2: 89.5
 RZP-160/3-1/2 GA/GI: 119.5

5.5 4 82 33 24 112.5 MAX. 125.3
 RZP 160/3-1 MAX. 61; MIN. 45
 RZP 160/3-2 MAX. 53; MIN. 45

Centric gripper RZP

RZP-200



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 64 to 300, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via centering sleeves (included in the scope of delivery).

CUSTOMER BENEFITS

- ⊕ High gripping force with low dead weight and compact design
- ⊕ High torque support for using long gripper fingers thanks to elongated jaw guide
- ⊕ Maximum flexibility thanks to versatile connection and fastening options
- ⊕ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation
- Optional inductive and magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

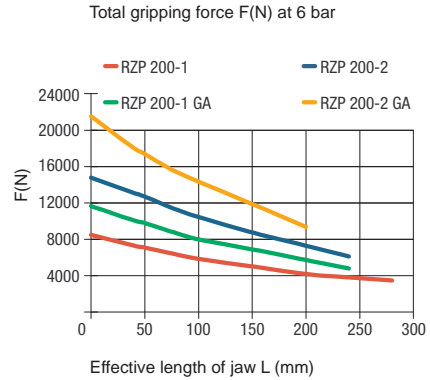
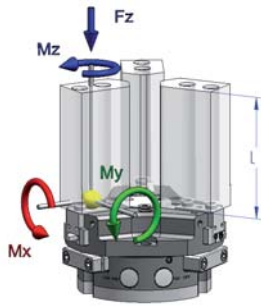
C40
RZP-200 - 3-jaw centric gripper air operated

Item no.	170080	170081 ▲	170082	170083 ▲	170084	170085 ▲
Design	RZP-200/3-1	RZP-200/3-2	RZP-200/3-1 GA	RZP-200/3-2 GA	RZP-200/3-1 GI	RZP-200/3-2 GI
Gripping force at 6 bar N	7500	12500	9300	15500	9500	16200
Stroke per jaw mm	25	14	25	14	25	14
Gripping force maintained N	-	-	1800	3000	1800	3000
Recommended workpiece weight kg	37	62	37	62	37	62
Weight kg	10	10	13	13	13	13
Height mm	96	96	132	132	132	132
Ø mm	250	250	250	250	250	250
Mx Nm	180	180	180	180	180	180
My Nm	200	200	200	200	200	200
Mz Nm	100	100	100	100	100	100
Fz N	5000	5000	5000	5000	5000	5000
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	1,2	1,2	1	1	1,5	1,5
Opening time s	1,2	1,2	1,5	1,5	1	1
Air consumption per cycle cm ³	1000	1000	1000	1000	1000	1000
Max. allowable length of jaw mm	280	250	250	200	250	200

RZP-200

Max. load on gripper and jaw

Clamping force diagram exterior gripping



3 x Borehole for resilient pressure piece
 $\text{Ø } 22 \text{ H8}$
 $\text{Ø } 16 \text{ H8}$

RZP 200/3-1 MAX. 127,5; MIN. 102,5
 RZP 200/3-2 MAX. 126,5; MIN. 112,5

Tubeless direct connection
 Adapter
 Gripper
 $\text{Ø } 7$
 $\text{Ø } 4$
 M5
 O-ring
 $\text{Ø } 4 \times 1,5$
 1,1

3x 120°
 159,3
 32
 15
 30°
 105
 18
 M5 (3x)
 15°
 $\text{Ø } 120$
 G1/8" depth for air connection (2x)
 15°

96
 17
 58
 25
 4
 $\text{Ø } 16 \text{ h6}$ (6x)
 40 ± 0,02
 RZP 200/3-1 MAX. 74; MIN. 49
 RZP 200/3-2 MAX. 62,3; MIN. 48,3
 M12 (6x)
 $\text{Ø } 11$
 $\text{Ø } 18$
 61
 14
 95
 M10 (3x)
 $\text{Ø } 8 \text{ H7}$ (2x)
 $\text{Ø } 8,5$

C-nut for magnetic sensors
 184 ± 0,02
 $\text{Ø } 8$ Sensor holder (3x)
 98
 87,5
 23
 M5 /5 deep for air connection Close
 23
 M5 /5 deep for air connection Open

Type GA/GI with gripping force safety device

Accessories: Resilient pressure piece

RZP-200/3-1/2-107
 RZP-200/3-1/2 GA/GI: 143
 6
 Stroke 6
 Elasticity MIN. 238N
 MAX. 308N
 $\text{Ø } 120$
 100
 25
 3x 120°

Accessories: Protective cover

RZP-200/3-1/2-104,5
 RZP-200/3-1/2 GA/GI: 140,5
 5,5
 4
 94
 47
 32
 138
 MAX. 159,5
 RZP 200/3-1 MAX. 74; MIN. 49
 RZP 200/3-2 MAX. 62,3; MIN. 48,3

Centric gripper RZP

RZP-240



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 64 to 300, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via centering sleeves (included in the scope of delivery).

CUSTOMER BENEFITS

- ⊕ High gripping force with low dead weight and compact design
- ⊕ High torque support for using long gripper fingers thanks to elongated jaw guide
- ⊕ Maximum flexibility thanks to versatile connection and fastening options
- ⊕ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation
- Optional inductive and magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

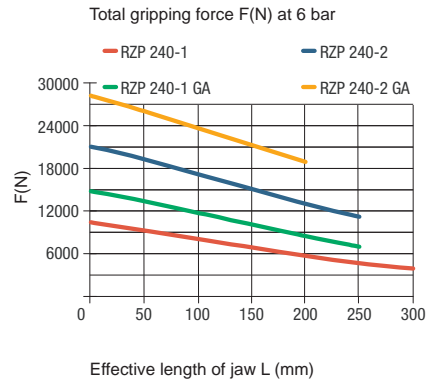
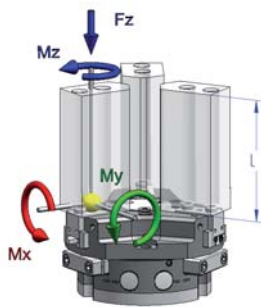
C40
RZP-240 - 3-jaw centric gripper air operated

Item no.	170086	170087 ▲	170088	170089 ▲	170090	170091 ▲
Design	RZP-240/3-1	RZP-240/3-2	RZP-240/3-1 GA	RZP-240/3-2 GA	RZP-240/3-1 GI	RZP-240/3-2 GI
Gripping force at 6 bar N	10500	18000	14000	24000	15000	25000
Stroke per jaw mm	30	17	30	17	30	17
Gripping force maintained N	-	-	3500	6000	3500	6000
Recommended workpiece weight kg	53	90	53	90	53	90
Weight kg	20	20	24	24	24	24
Height mm	128,1	128,1	171,5	171,5	171,5	171,5
Ø mm	290	290	290	290	290	290
Mx Nm	265	265	265	265	265	265
My Nm	250	250	250	250	250	250
Mz Nm	160	160	160	160	160	160
Fz N	6200	6200	6200	6200	6200	6200
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	1,3	1,3	1,1	1,1	1,7	1,7
Opening time s	1,3	1,3	2,1	2,1	1,1	1,1
Air consumption per cycle cm ³	1700	1700	1700	1700	1700	1700
Max. allowable length of jaw mm	300	250	250	200	250	200

RZP-240

Max. load on gripper and jaw

Clamping force diagram exterior gripping



3 x Borehole for resilient pressure piece
 $\varnothing 28\text{ H8}$
 $\varnothing 22\text{ H8}$

RZP 240/3-1 MAX. 146; MIN. 116
 RZP 240/3-2 MAX. 144,5; MIN. 127,5

RZP 240/3-1: 69,5
 RZP 240/3-2: 80

Tubeless direct connection

C-nut for magnetic sensors

Type GA/GI with gripping force safety device

Accessories: Resilient pressure piece

RZP-240/3-1/2: 140,5
 RZP-240/3-1/2 GA/GI: 183,9

Accessories: Protective cover

RZP-240/3-1/2: 136,6
 RZP-240/3-1/2 GA/GI: 180

Centric gripper RZP

RZP-300



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 64 to 300, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via centering sleeves (included in the scope of delivery).

CUSTOMER BENEFITS

- ⊕ High gripping force with low dead weight and compact design
- ⊕ High torque support for using long gripper fingers thanks to elongated jaw guide
- ⊕ Maximum flexibility thanks to versatile connection and fastening options
- ⊕ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation
- Optional inductive and magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

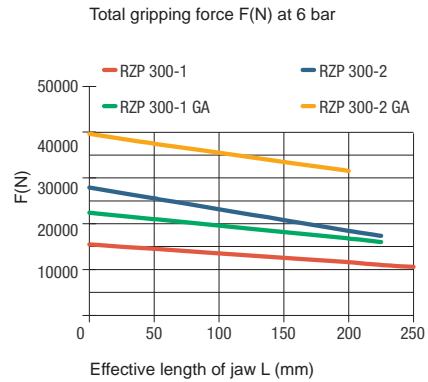
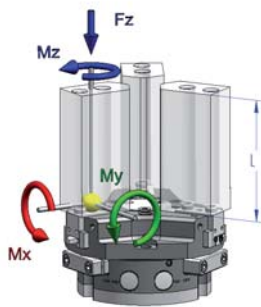
C40
RZP-300 - 3-jaw centric gripper air operated

Item no.	170092	170093 ▲	170094	170095 ▲	170096	170097 ▲
Design	RZP-300/3-1	RZP-300/3-2	RZP-300/3-1 GA	RZP-300/3-2 GA	RZP-300/3-1 GI	RZP-300/3-2 GI
Gripping force at 6 bar N	16000	28000	20000	37500	22500	38000
Stroke per jaw mm	35	20	35	20	35	20
Gripping force maintained N	-	-	6000	9500	6000	9500
Recommended workpiece weight kg	80	140	80	110	80	140
Weight kg	30	30	40	40	40	40
Height mm	146	146	196	196	196	196
Ø mm	345	345	345	345	345	345
Mx Nm	400	400	400	400	400	400
My Nm	400	400	400	400	400	400
Mz Nm	250	250	250	250	250	250
Fz N	8000	8000	8000	8000	8000	8000
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	1,3	1,3	1,2	1,2	2	2
Opening time s	1,3	1,3	2,5	2,5	1,2	1,2
Air consumption per cycle cm ³	2700	2700	2700	2700	2700	2700
Max. allowable length of jaw mm	250	225	225	200	225	200

RZP-300

Max. load on gripper and jaw

Clamping force diagram exterior gripping



3 x Borehole for resilient pressure piece

Ø 32 H8
Ø 25 H8

50 4 33.5

RZP 300/3-1 MAX. 176; MIN. 141
RZP 300/3-2 MAX. 176.5; MIN. 156.5

RZP 300/3-1: 78
RZP 300/3-2: 93

105 85

Tubeless direct connection

Adapter Gripper

Ø11 Ø8 M8

1.1 O-ring Ø8x1,5

C-nut for magnetic sensors

270 ± 0,02

Ø 8 Sensor holder (3x)

137 123

M8 / 6 deep for air connection Close

32 M8 / 6 deep for air connection Open

32

M16 (3x) 101 Ø 17.5 Ø 26

145

146 92 28 6 Ø 22 h6 46 ± 0,02 (6x)

RZP 300/3-1 MAX. 114; MIN. 79
RZP 300/3-2 MAX. 99.5; MIN. 79.5

3x 120°

26 (3x) M6

30° 30° (65) 155 (130) Ø 184 15° 15°

M3/6 deep for sealing air connection

(225,2) 42

G1/4" / 8 deep for air connection (2x)

Ø 345 Ø 300 Ø 260 Ø 10.5 Ø 10 H7 (2x)

Type GA/GI with gripping force safety device

135 195 196 Ø 300

Accessories: Resilient pressure piece

RZP-300/3-1/2: 162
RZP-300/3-1/2 GA/GI: 212

6 8 Stroke 8

Elasticity MIN. 360N
MAX. 488N

Ø 164

3x 120° 160 30

Accessories: Protective cover

RZP-300/3-1/2: 159.5
RZP-300/3-1/2 GA/GI: 209.5

9.5 5

132 51 42 188 MAX. 219

RZP 300/3-1 MAX. 114; MIN. 79
RZP 300/3-2 MAX. 99.5; MIN. 79.5

Centric gripper RZP

Accessories RZP

Jaw blank - steel (including fixing screws)
3-jaw set


Item no.	Number of jaws	Design	For
170500 ▲	3	steel	RZP-64
170502 ▲	3	steel	RZP-80
170504 ▲	3	steel	RZP-100
170506 ▲	3	steel	RZP-125
170508 ▲	3	steel	RZP-160
170510 ▲	3	steel	RZP-200
170512 ▲	3	steel	RZP-240
170514 ▲	3	steel	RZP-300

Jaw blank - aluminium (including fixing screws)
3-jaw set


Item no.	Number of jaws	Design	For
170550 ▲	3	aluminium	RZP-64
170552 ▲	3	aluminium	RZP-80
170554 ▲	3	aluminium	RZP-100
170556 ▲	3	aluminium	RZP-125
170558 ▲	3	aluminium	RZP-160
170560 ▲	3	aluminium	RZP-200
170562 ▲	3	aluminium	RZP-240
170564 ▲	3	aluminium	RZP-300

Protective cover



Item no.	For
170810 ▲	RZP-64
170811 ▲	RZP-80
170812 ▲	RZP-100
170813 ▲	RZP-125
170814 ▲	RZP-160
170815 ▲	RZP-200
170816 ▲	RZP-240
170817 ▲	RZP-300

Resilient pressure piece



Item no.	For
170516 ▲	RZP-64
170517 ▲	RZP-80
170518 ▲	RZP-100
170519 ▲	RZP-125
170520 ▲	RZP-160
170521 ▲	RZP-200
170522 ▲	RZP-240
170523 ▲	RZP-300

 Pressure maintenance
for double acting gripper (G1/8)


Item no.
1078823

Compressed air connection



Item no.	Design	For
802539	L-Plug connector M5 - 6 mm	RZP-50 / RZP-64 / RZP-80
477025	L-Plug connector 1/8 - 6 mm	RZP-100 - RZP-240
477024	L-Plug connector 1/4 - 6 mm	RZP-300

Proximity switch



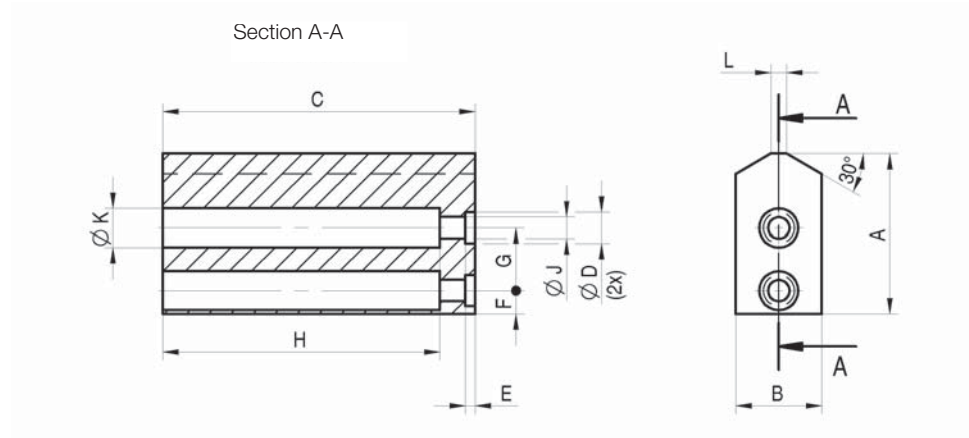
Item no.	Size (diameter/length)	Design	For
229114	M8x1x30,5	5 m cable, open leads	RZP-64 / RZP-80 / RZP-100 / RZP-125 / RZP-160
389661	M8x1x46,5	3 m cable, open leads	RZP-200 / RZP-240 / RZP-300

Magnetic field sensors



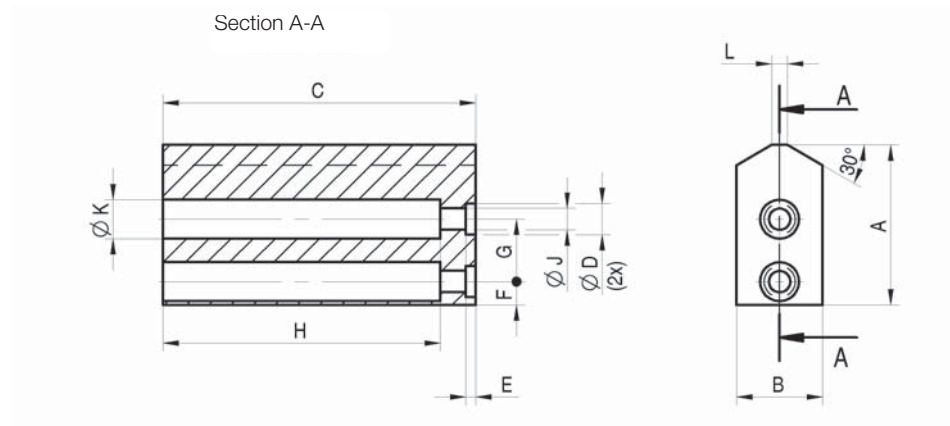
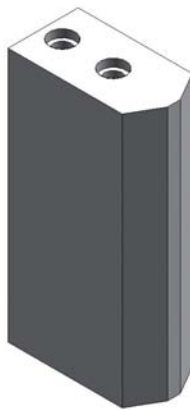
Item no.	Size (diameter/length)	Design	For
1276722	C-Nut	3m cable, 3 open leads	all sizes, all types

Accessories RZP



Jaw blank - steel (including fixing screws)

RPP / RZP	64	80	100	125	160	200	240	300
RPP - 2-jaw set	170575	170576	170577	170578	170579	170580	170581	170582
RZP - 3-jaw set	170500	170502	170504	170506	170508	170510	170512	170514
A	32	41	51	60	80	96	109	130
B	20	22	30	35	40	40	50	60
C	64	80	100	125	160	200	220	200
D +0,04/+0,02	6	8	10	10	14	16	16	22
E±0,2	2,5	2,5	3	3	4	4	4	6
F±0,1	5	6	7	9,5	10	15	15,5	20
G±0,1	13	16	20	24	32	40	44	46
H	57	71	91	115	146	181	204	177
J	4,5	5,5	6,6	6,6	11	13,5	13,5	17,5
K	8	10	11	11	18	20	20	26
L	3	4	5	6	8	13	10	16
Weight per jaw Kg	0,25	0,45	1,0	1,75	3,2	5,0	8,0	10,2



Jaw blank - aluminium (including fixing screws)

RPP / RZP	64	80	100	125	160	200	240	300
RPP - 2-jaw set	170585	170586	170587	170588	170589	170590	170591	170592
RZP - 3-jaw set	170550	170552	170554	170556	170558	170560	170562	170564
A	32	41	51	60	80	96	109	130
B	20	25	30	35	40	45	50	60
C	64	80	100	125	160	200	220	200
D +0,04/+0,02	6	8	10	10	14	16	16	22
E±0,2	2,5	2,5	3	3	4	4	4	6
F±0,1	5	6	7	9,5	10	15	15,5	20
G±0,1	13	16	20	24	32	40	44	46
H	55	69	88	112	141	176	200	170
J	4,5	5,5	6,6	6,6	11	13,5	13,5	17,5
K	8	10	11	11	18	20	20	26
L	3	4	5	6	8	9	10	16
Weight per jaw Kg	0,1	0,18	0,35	0,6	1,2	2,0	2,8	3,4

RZP-A 64



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 64 to 160, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via centering sleeves (included in the scope of delivery).

CUSTOMER BENEFITS

- ⊕ High gripping force with low dead weight and compact design
- ⊕ Maximum flexibility thanks to versatile connection and fastening options
- ⊕ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation
- Optional inductive and magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

C40
RZP-A 64 - 3-jaw centric gripper air operated with tongue and groove

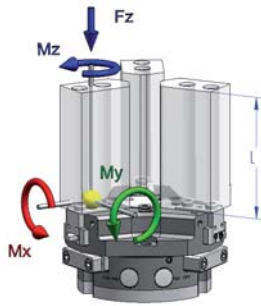
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Design	RZP-A 64/3-1	RZP-A 64/3-2	RZP-A 64/3-1 GA	RZP-A 64/3-2 GA	RZP-A 64/3-1 GI	RZP-A 64/3-2 GI
Gripping force at 6 bar N	700	1350	880	1700	1000	1900
Stroke per jaw mm	6	3	6	3	6	3
Gripping force maintained N	-	-	180	350	180	350
Recommended workpiece weight kg	3,5	6,5	3,5	6,5	3,5	6,5
Weight kg	0,4	0,4	0,5	0,5	0,5	0,5
Height mm	42	42	55,5	55,5	55,5	55,5
Ø mm	64	64	64	64	64	64
Mx Nm	15	15	15	15	15	15
My Nm	30	30	30	30	30	30
Mz Nm	25	25	25	25	25	25
Fz N	1400	1400	1400	1400	1400	1400
Operating pressure min./ max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./ max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,01	0,01	0,03	0,03	0,04	0,04
Opening time s	0,01	0,01	0,04	0,04	0,03	0,03
Air consumption per cycle cm ³	25	25	25	25	25	25
Max. allowable length of jaw mm	64	64	64	64	64	64

3-jaw centric gripper RZP-A

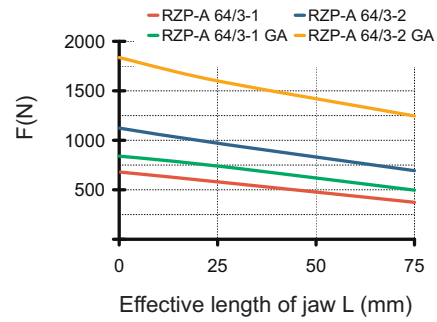
RZP-A 64

Max. load on gripper and jaw

Clamping force diagram exterior gripping



Total gripping force F(N) at 6 bar



3 x Borehole for resilient pressure piece

Ø 7,6 H8

RZP-A 64/3-1 MAX. 38; MIN. 32
RZP-A 64/3-2 MAX. 35; MIN. 32

Tubeless direct connection

Adapter Gripper

Ø7 Ø4 M4

1,1 O-ring Ø4x1,5

RZP-A 64/3-1 MAX. 25; MIN. 19
RZP-A 64/3-2 MAX. 22; MIN. 19

Type GA/GI with gripping force safety device

Accessories: Resilient pressure piece

Accessories: Protective cover

RZP-A 64/3-1 MAX. 25; MIN. 19
RZP-A 64/3-2 MAX. 22; MIN. 19

3-jaw centric gripper RZP-A

RZP-A 80



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 64 to 160, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via centering sleeves (included in the scope of delivery).

CUSTOMER BENEFITS

- ⊕ High gripping force with low dead weight and compact design
- ⊕ Maximum flexibility thanks to versatile connection and fastening options
- ⊕ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation
- Optional inductive and magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

C40
RZP-A 80 - 3-jaw centric gripper air operated with tongue and groove

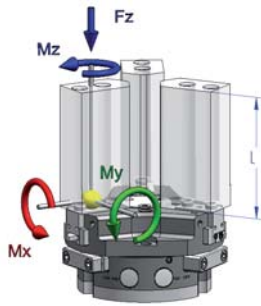
Item no.	434833 ▲	435042 ▲	434837 ▲	435043 ▲	434838 ▲	435044 ▲
Design	RZP-A 80/3-1	RZP-A 80/3-2	RZP-A 80/3-1 GA	RZP-A 80/3-2 GA	RZP-A 80/3-1 GI	RZP-A 80/3-2 GI
Gripping force at 6 bar N	1000	2500	1600	3400	1700	3500
Stroke per jaw mm	8	4	8	4	8	4
Gripping force maintained N	-	-	350	700	350	700
Recommended workpiece weight kg	5	12	5	12	5	12
Weight kg	0,75	0,75	0,95	0,95	0,95	0,95
Height mm	48	48	63	63	63	63
Ø mm	80	80	80	80	80	80
Mx Nm	30	30	30	30	30	30
My Nm	90	90	90	90	90	90
Mz Nm	35	35	35	35	35	35
Fz N	1800	1800	1800	1800	1800	1800
Operating pressure min./ max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./ max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,06	0,06	0,05	0,05	0,08	0,08
Opening time s	0,05	0,05	0,08	0,08	0,05	0,05
Air consumption per cycle cm ³	60	60	60	60	60	60
Max. allowable length of jaw mm	80	80	80	80	80	80

3-jaw centric gripper RZP-A

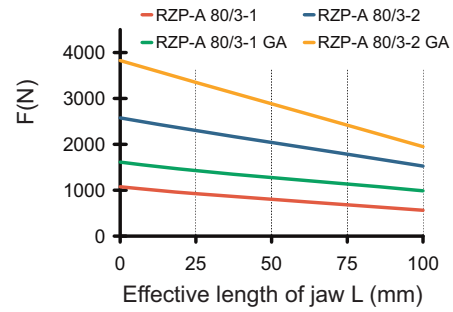
RZP-A 80

Max. load on gripper and jaw

Clamping force diagram exterior gripping



Total gripping force F(N) at 6 bar



3 x Borehole for resilient pressure piece
 $\varnothing 7,6 H8$
 17,5
 11
 24,5

RZP-A 80/3-1 MAX. 50; MIN. 42
 RZP-A 80/3-2 MAX. 46; MIN. 42
 27
 M5 (6x)
 $\varnothing 5 m6$ (3x)
 9
 42

Tubeless direct connection
 Adapter
 Gripper
 $\varnothing 7$
 $\varnothing 4$
 M4
 1,1
 O-ring $\varnothing 4 \times 1,5$

(60,6)
 23
 12,2
 3x 120°
 (35)
 27,1
 $\varnothing 39$
 M3
 $\varnothing 6$
 M5 /6 deep for air connection (2x)
 15°
 15°

45
 31
 3
 15,5
 $\varnothing 80$
 $\varnothing 70$
 $\varnothing 5,5$
 $\varnothing 5 H7$ (2x)
 16 $\pm 0,1$
 5
 6 H7 (3x)
 RZP-A 80/3-1 MAX. 34; MIN. 26
 RZP-A 80/3-2 MAX. 30; MIN. 26
 M6 (3x)
 30,5
 $\varnothing 6,4$
 9,5
 48
 2

70 $\pm 0,02$
 $\varnothing 4$ Sensor holder (3x)
 35
 32
 M4 /5 deep for air connection Close
 9
 M4 /5 deep for air connection Open
 9

Type GA/GI with gripping force safety device

48
 15
 $\varnothing 58$
 $\varnothing 80$
 45

Accessories: Resilient pressure piece

MAX. 57
 3
 Stroke $\frac{1100}{4}$
 Elasticity MIN. 30N
 MAX. 68N
 $\varnothing 39$
 3x 120°
 39
 11

Accessories: Protective cover

57
 5
 4
 41,5
 22
 12,2
 RZP-A 80/3-1 MAX. 34; MIN. 26
 RZP-A 80/3-2 MAX. 30; MIN. 26
 56
 MAX. 64

3-jaw centric gripper RZP-A

RZP-A 100



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 64 to 160, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via centering sleeves (included in the scope of delivery).

CUSTOMER BENEFITS

- ⊕ High gripping force with low dead weight and compact design
- ⊕ Maximum flexibility thanks to versatile connection and fastening options
- ⊕ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation
- Optional inductive and magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

C40
RZP-A 100 - 3-jaw centric gripper air operated with tongue and groove

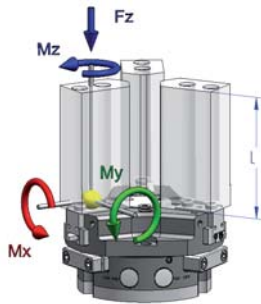
Item no.	434891 ▲	434892 ▲	434900 ▲	434840 ▲	434839 ▲	434901 ▲
Design	RZP-A 100/3-1	RZP-A 100/3-2	RZP-A 100/3-1 GA	RZP-A 100/3-2 GA	RZP-A 100/3-1 GI	RZP-A 100/3-2 GI
Gripping force at 6 bar N	2000	4000	2500	5000	2650	5100
Stroke per jaw mm	10	5	10	5	10	5
Gripping force maintained N	-	-	500	1000	500	1000
Recommended workpiece weight kg	10	20	10	20	10	20
Weight kg	1,3	1,3	1,9	1,9	1,9	1,9
Height mm	58	58	78	78	78	78
Ø mm	100	100	100	100	100	100
Mx Nm	45	45	45	45	45	45
My Nm	95	95	95	95	95	95
Mz Nm	45	45	45	45	45	45
Fz N	2300	2300	2300	2300	2300	2300
Operating pressure min./ max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./ max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,1	0,1	0,1	0,1	0,2	0,2
Opening time s	0,1	0,1	0,2	0,2	0,1	0,1
Air consumption per cycle cm ³	120	120	120	120	120	120
Max. allowable length of jaw mm	100	100	100	100	100	100

3-jaw centric gripper RZP-A

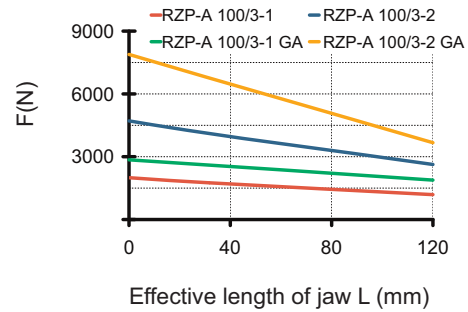
RZP-A 100

Max. load on gripper and jaw

Clamping force diagram exterior gripping



Total gripping force F(N) at 6 bar



RZP-A 100/3-1 MAX. 62; MIN. 52
RZP-A 100/3-2 MAX. 57; MIN. 52

Tubeless direct connection

RZP-A 100/3-1 MAX. 42; MIN. 32
RZP-A 100/3-2 MAX. 37; MIN. 32

Type GA/GI with gripping force safety device

Accessories: Resilient pressure piece

Accessories: Protective cover

RZP-A 125



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 64 to 160, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via centering sleeves (included in the scope of delivery).

CUSTOMER BENEFITS

- ⊕ High gripping force with low dead weight and compact design
- ⊕ Maximum flexibility thanks to versatile connection and fastening options
- ⊕ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation
- Optional inductive and magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

C40

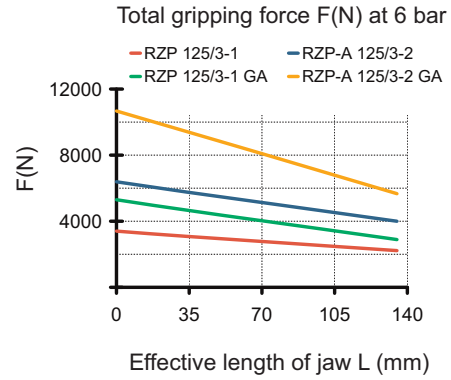
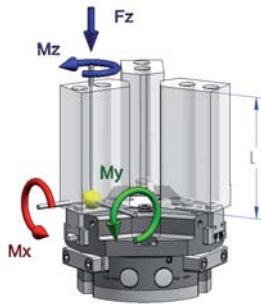
RZP-A 125 - 3-jaw centric gripper air operated with tongue and groove

Item no.	434841 ▲	434902 ▲	434842 ▲	434914 ▲	434843 ▲	434915 ▲
Design	RZP-A 125/3-1	RZP-A 125/3-2	RZP-A 125/3-1 GA	RZP-A 125/3-2 GA	RZP-A 125/3-1 GI	RZP-A 125/3-2 GI
Gripping force at 6 bar N	3300	6500	4200	8100	4300	8300
Stroke per jaw mm	13	6	13	6	13	6
Gripping force maintained N	-	-	900	1600	800	1600
Recommended workpiece weight kg	16	32	16	32	16	32
Weight kg	2,3	2,3	3,4	3,4	3,4	3,4
Height mm	66	66	80,5	80,5	80,5	80,5
Ø mm	125	125	125	125	125	125
Mx Nm	60	60	60	60	60	60
My Nm	100	100	100	100	100	100
Mz Nm	70	70	70	70	70	70
Fz N	2500	2500	2500	2500	2500	2500
Operating pressure min./max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,2	0,2	0,15	0,15	0,35	0,35
Opening time s	0,2	0,2	0,35	0,35	0,15	0,15
Air consumption per cycle cm ³	230	230	230	230	230	230
Max. allowable length of jaw mm	125	125	125	125	125	125

RZP-A 125

Max. load on gripper and jaw

Clamping force diagram exterior gripping



3 x Borehole for resilient pressure piece
Ø15 H8

RZP-A 125/3-1 MAX. 78,5; MIN. 65,5
RZP-A 125/3-2 MAX. 71,5; MIN. 65,5

Tubeless direct connection

M5 /5 deep for air connection Close

M5 /5 deep for air connection Open

Type GA/GI with gripping force safety device

Accessories: Resilient pressure piece

Accessories: Protective cover

3-jaw centric gripper RZP-A

RZP-A 160



APPLICATION

Universal gripping of round and angular workpieces with two parallel gripper fingers for handling with robots or portals.

TYPE

Available from sizes 64 to 160, each in two stroke variants. Optionally with gripping force safety device and/or dirt cover. Fastening of the gripper fingers via centering sleeves (included in the scope of delivery).

CUSTOMER BENEFITS

- ⊕ High gripping force with low dead weight and compact design
- ⊕ Maximum flexibility thanks to versatile connection and fastening options
- ⊕ Long service life and high reliability thanks to specially ground base jaws in proven T-slot guide

TECHNICAL FEATURES

- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Wedge hook principle with pneumatic actuation
- Optional inductive and magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

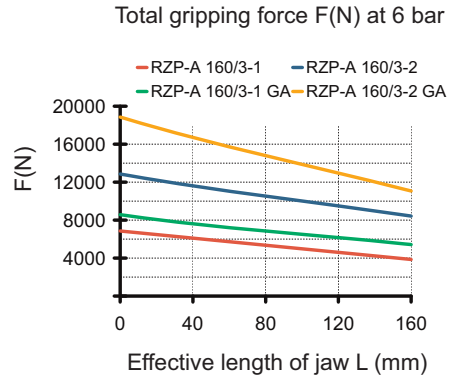
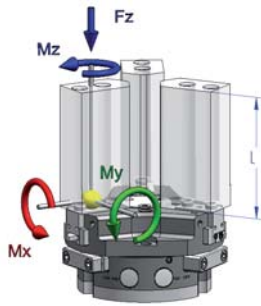
C40
RZP-A 160 - 3-jaw centric gripper air operated with tongue and groove

Item no.	435045 ▲	435046 ▲	435055 ▲	435056 ▲	435057 ▲	435058 ▲
Design	RZP-A 160/3-1	RZP-A 160/3-2	RZP-A 160/3-1 GA	RZP-A 160/3-2 GA	RZP-A 160/3-1 GI	RZP-A 160/3-2 GI
Gripping force at 6 bar N	6000	12000	8000	16000	8500	16500
Stroke per jaw mm	16	8	16	8	16	8
Gripping force maintained N	-	-	2000	4000	2000	4000
Recommended workpiece weight kg	30	60	30	60	30	60
Weight kg	4,5	4,5	6,6	6,6	6,6	6,6
Height mm	78	78	108	108	108	108
Ø mm	160	160	160	160	160	160
Mx Nm	80	80	80	80	80	80
My Nm	100	100	100	100	100	100
Mz Nm	80	80	80	80	80	80
Fz N	2800	2800	2800	2800	2800	2800
Operating pressure min./ max. without GA/GI bar	2-8	2-8	-	-	-	-
Operating pressure min./ max. with GA/GI bar	-	-	4-7	4-7	4-7	4-7
Clamping time s	0,4	0,4	0,4	0,4	0,8	0,8
Opening time s	0,4	0,4	0,8	0,8	0,4	0,4
Air consumption per cycle cm ³	520	520	520	520	520	520
Max. allowable length of jaw mm	160	160	160	160	160	160

RZP-A 160

Max. load on gripper and jaw

Clamping force diagram exterior gripping



3 x Borehole for resilient pressure piece

RZP-A 160/3-1 MAX. 101 ; MIN. 85
RZP-A 160/3-2 MAX. 93; MIN. 85

Tubeless direct connection

Type GA/GI with gripping force safety device

Accessories: Resilient pressure piece

Accessories: Protective cover

3-jaw centric gripper RZP-A

Accessories RZP-A

Jaw blank - steel (including fixing screws)
3-jaw set



Item no.	Number of jaws	Design	For
170825 ▲	3	steel	RZP-A 64
170826 ▲	3	steel	RZP-A 80
170827 ▲	3	steel	RZP-A 100
170828 ▲	3	steel	RZP-A 125
170829 ▲	3	steel	RZP-A 160

Jaw blank - aluminium (including fixing screws)
3-jaw set



Item no.	Number of jaws	Design	For
170835 ▲	3	aluminium	RZP-A 64
170836 ▲	3	aluminium	RZP-A 80
170837 ▲	3	aluminium	RZP-A 100
170838 ▲	3	aluminium	RZP-A 125
170839 ▲	3	aluminium	RZP-A 160

Resilient pressure piece



Item no.	For
165573 ▲	RZP-A 64
170868 ▲	RZP-A 80
170870 ▲	RZP-A 100
170871 ▲	RZP-A 125
170872 ▲	RZP-A 160

Pressure maintenance
for double acting gripper (G1/8)



Item no.
1078823

Compressed air connection



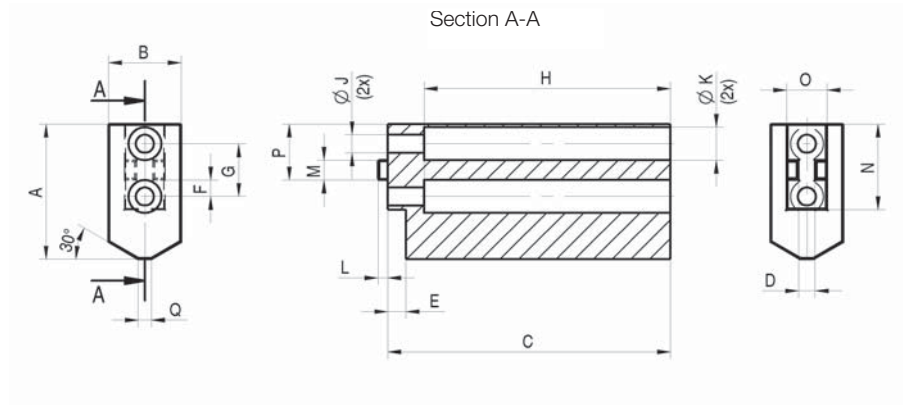
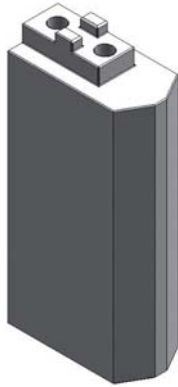
Item no.	Design	For
802539	L-Plug connector M5 - 6 mm	RZP-A 64 / RZP-A 80
477025	L-Plug connector 1/8 - 6 mm	RZP-A 100 / RZP-A 125 RZP-A160

Proximity switch



Item no.	Size (diameter/length)	Design	For
229114	M8x1x30,5	5 m cable, open leads	RZP-A 64 - RZP-A 160

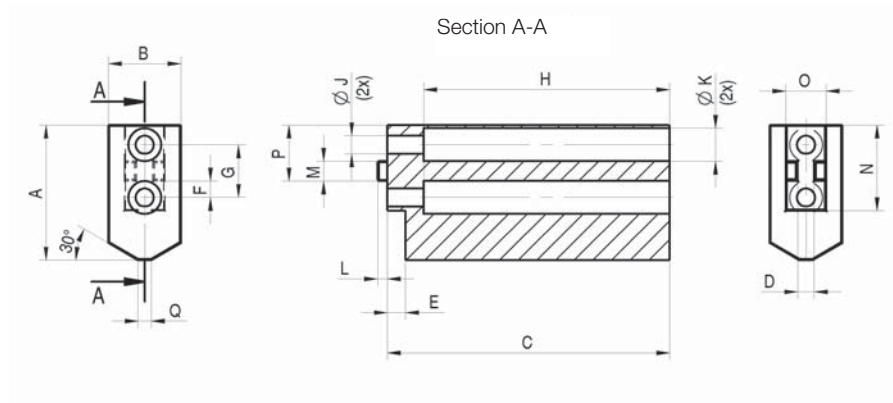
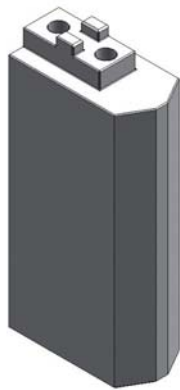
Accessories RZP-A



Jaw blank - steel (including fixing screws)

RPP-A / RZP-A Jaw blank - steel	64	80	100	125	160
RPP-A - 2-jaw set	170675	170676	170677	170678	170679
RZP-A - 3-jaw set	170825	170826	170827	170828	170829
A	32	41	51	60	80
B	20	22	30	35	40
C	68,5	85,5	105,5	130,5	166,5
D +0,01/+0,03	4	5	6	6	8
E+0,2	4,5	5,5	5,5	5,5	6,5
F±0,1	4	5	6	8	11
G±0,1	13	16	20	24	32
H	59,5	74,5	94,5	119,5	153,5
J	4,5	5,5	6,6	6,6	9
K	8	10	11	11	15
L	2,5	3	3	3,5	4
Mf7	5	6	8	8	10
N-0,3/-0,5	21	26	33	41	51
O-0,3/-0,5	10,2	12,2	14,2	16,2	20,2
P+0,1	14	17	21	25,5	31
Q	3	4	5	6	8
Weight per jaw Kg	0,26	0,46	1,0	1,8	3,5

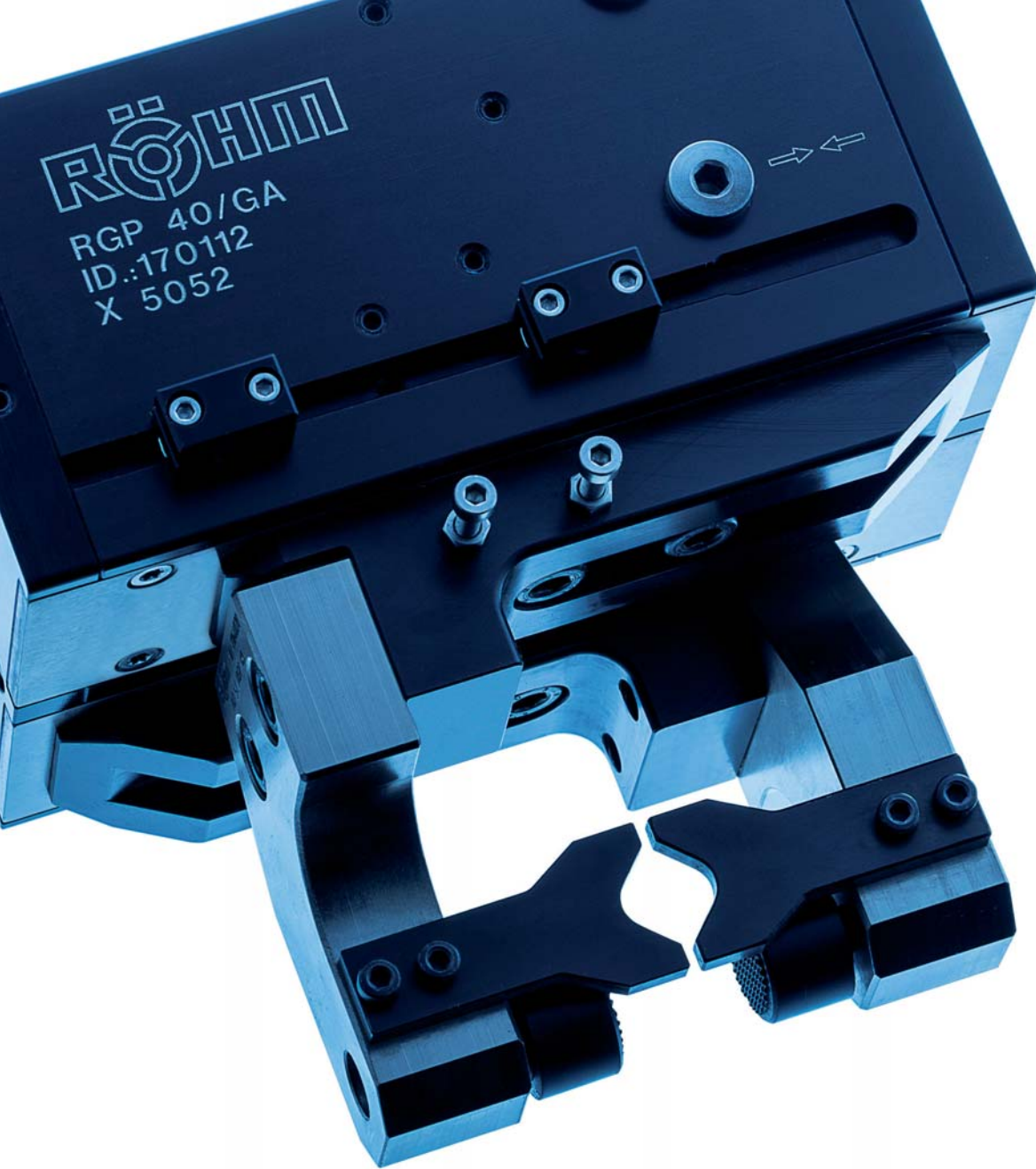
Accessories RZP-A


Jaw blank - aluminium (including fixing screws)

	64	80	100	125	160
RPP-A / RZP-A Jaw blank - aluminium					
RPP-A - 2-jaw set	170685	170686	170687	170688	170689
RZP-A - 3-jaw set	170835	170836	170837	170838	170839
A	32	41	51	60	80
B	20	22	30	35	40
C	68,5	85,5	105,5	130,5	166,5
D +0,01/+0,03	4	5	6	6	8
E+0,2	4,5	5,5	5,5	5,5	6,5
F±0,1	4	5	6	8	11
G±0,1	13	16	20	24	32
H	59,5	74,5	94,5	119,5	153,5
J	4,5	5,5	6,6	6,6	9
K	8	10	11	11	15
L	2,5	3	3	3,5	4
Mf7	5	6	8	8	10
N-0,3/-0,5	21	26	33	41	51
O-0,3/-0,5	10,2	12,2	14,2	16,2	20,2
P+0,1	14	17	21	25,5	31
Q	3	4	5	6	8
Weight per jaw Kg	0,1	0,16	0,35	0,62	1,2



Notes



NOMENCLATURE

RGP

RÖHM
G long stroke
 gripper
Pneumatic
 (sealed version)

O

O = Open versi-
 on for longer jaw
 stroke

- 100

Sizes
 RGP: 30-50
 RGPO: 40-60

/ GA

Optional:
 spring safety
GA = outside
 grip

/ V

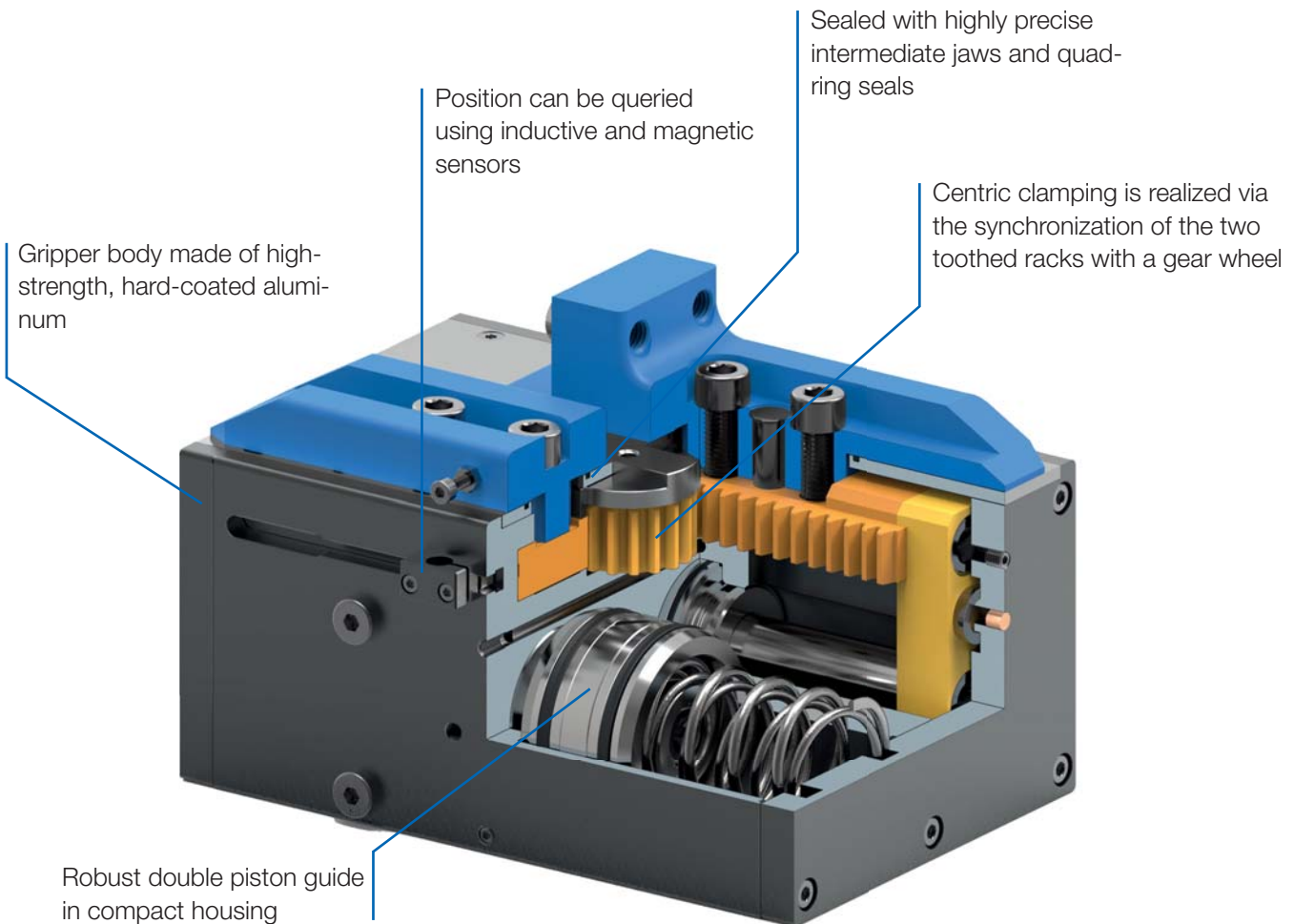
Optional:
V = Viton FKM-
 sealing for
 temperatures
 up to 150 °C

2-JAW LONG STROKE GRIPPER

The 2-jaw long stroke gripper allows for large jaw strokes, thanks to its design, and is therefore optimally suited for handling large parts and a high part diversity. Due to the sealed guide, it is often used in rough environments. The centric clamping is realized via the synchronization of the two toothed racks with a gear wheel.

ADVANTAGES AT A GLANCE

- ④ High gripping force with simultaneously high jaw stroke by means of double-acting pressure pistons
- ④ High torque support for using long gripper fingers by means of robust flat guide
- ④ Sealed for rough ambient conditions with quad-ring seal and highly precise intermediate jaws



2-jaw long stroke gripper

RGP-30



APPLICATION

Sealed large-stroke gripper for handling large parts and high part variety.

TYPE

Available in sizes 30, 40 and 50 with integrated seal - optionally with gripping force securing device.

High precision thanks to double-piston drive synchronized via gear wheel.

CUSTOMER BENEFITS

- ⊕ High gripping force with simultaneously high jaw stroke by means of double-acting pressure pistons
- ⊕ High torque support for using long gripper fingers thanks to elongated jaw guide
- ⊕ Sealed for rough ambient conditions with quad-ring seal and highly precise intermediate jaws
- ⊕ Maximum flexibility thanks to versatile connection and fastening options

TECHNICAL FEATURES

- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Optional inductive and magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

C40

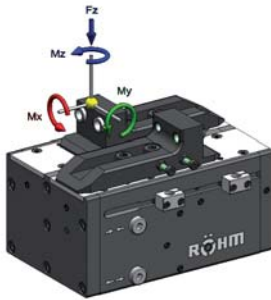
RGP-30 - 2-jaw long stroke gripper air operated

Item no.	170109	170110
Design	RGP 30	RGP 30 GA
Gripping force at 6 bar N	630	720
Stroke per jaw mm	30	30
Gripping force maintained N	-	90
Recommended workpiece weight kg	3	3
Weight kg	3,2	3,2
Width mm	134	134
Height mm	66	66
Depth mm	94	94
Mx Nm	30	30
My Nm	95	95
Mz Nm	45	45
Fz N	1000	1000
Operating pressure min./max. without GA/GI bar	2-8	-
Operating pressure min./max. with GA/GI bar	-	5-6,5
Clamping time s	0,3	0,35
Opening time s	0,3	0,35
Air consumption per cycle cm ³	92	92
Max. allowable length of jaw mm	150	100

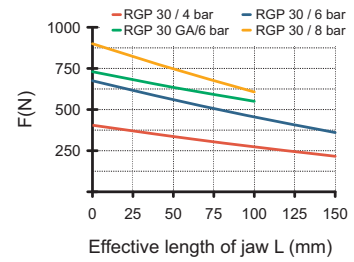
RGP-30

Max. load on gripper and jaw

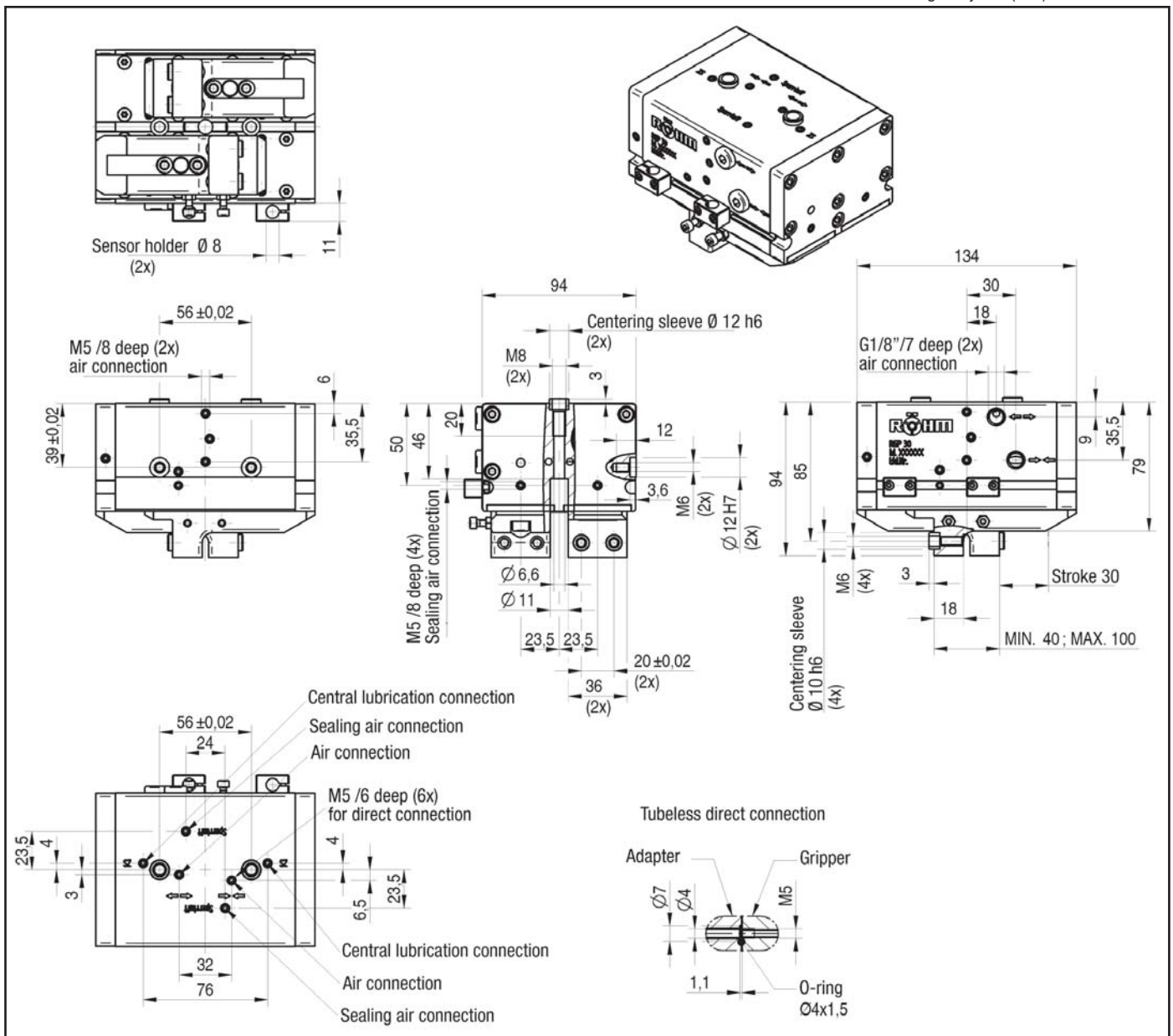
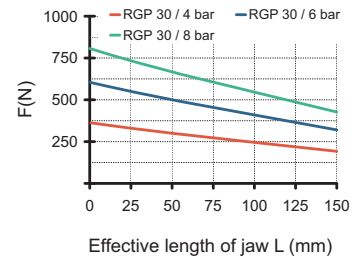
Clamping force diagram



Clamping force diagram – exterior gripping



Clamping force diagram – interior gripping



Long stroke gripper
RGP

RGP-40



APPLICATION

Sealed large-stroke gripper for handling large parts and high part variety.

TYPE

Available in sizes 30, 40 and 50 with integrated seal - optionally with gripping force securing device.

High precision thanks to double-piston drive synchronized via gear wheel.

CUSTOMER BENEFITS

- ⊕ High gripping force with simultaneously high jaw stroke by means of double-acting pressure pistons
- ⊕ High torque support for using long gripper fingers thanks to elongated jaw guide
- ⊕ Sealed for rough ambient conditions with quad-ring seal and highly precise intermediate jaws
- ⊕ Maximum flexibility thanks to versatile connection and fastening options

TECHNICAL FEATURES

- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Optional inductive and magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

C40
RGP-40 - 2-jaw long stroke gripper air operated

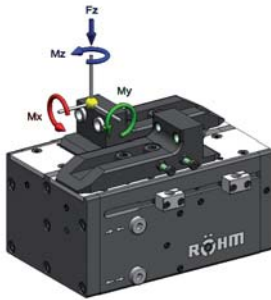
Item no.	170111	170112	170113
Design	RGP 40	RGP 40-GA	RGP 40-GI
Gripping force at 6 bar N	1260	1540	1380
Stroke per jaw mm	40	40	40
Gripping force maintained N	-	150	150
Recommended workpiece weight kg	6,3	6,3	5,5
Weight kg	5,6	5,6	5,6
Width mm	171	171	171
Height mm	83	83	83
Depth mm	115	115	115
Mx Nm	50	50	50
My Nm	100	100	100
Mz Nm	70	70	70
Fz N	1100	1100	1100
Operating pressure min./max. without GA/GI bar	2-8	-	-
Operating pressure min./max. with GA/GI bar	-	5-6,5	5-6,5
Clamping time s	0,3	0,3	0,4
Opening time s	0,3	0,4	0,3
Air consumption per cycle cm ³	240	240	240
Max. allowable length of jaw mm	200	150	150

Long stroke gripper
RGP

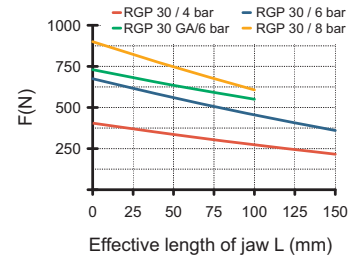
RGP-40

Max. load on gripper and jaw

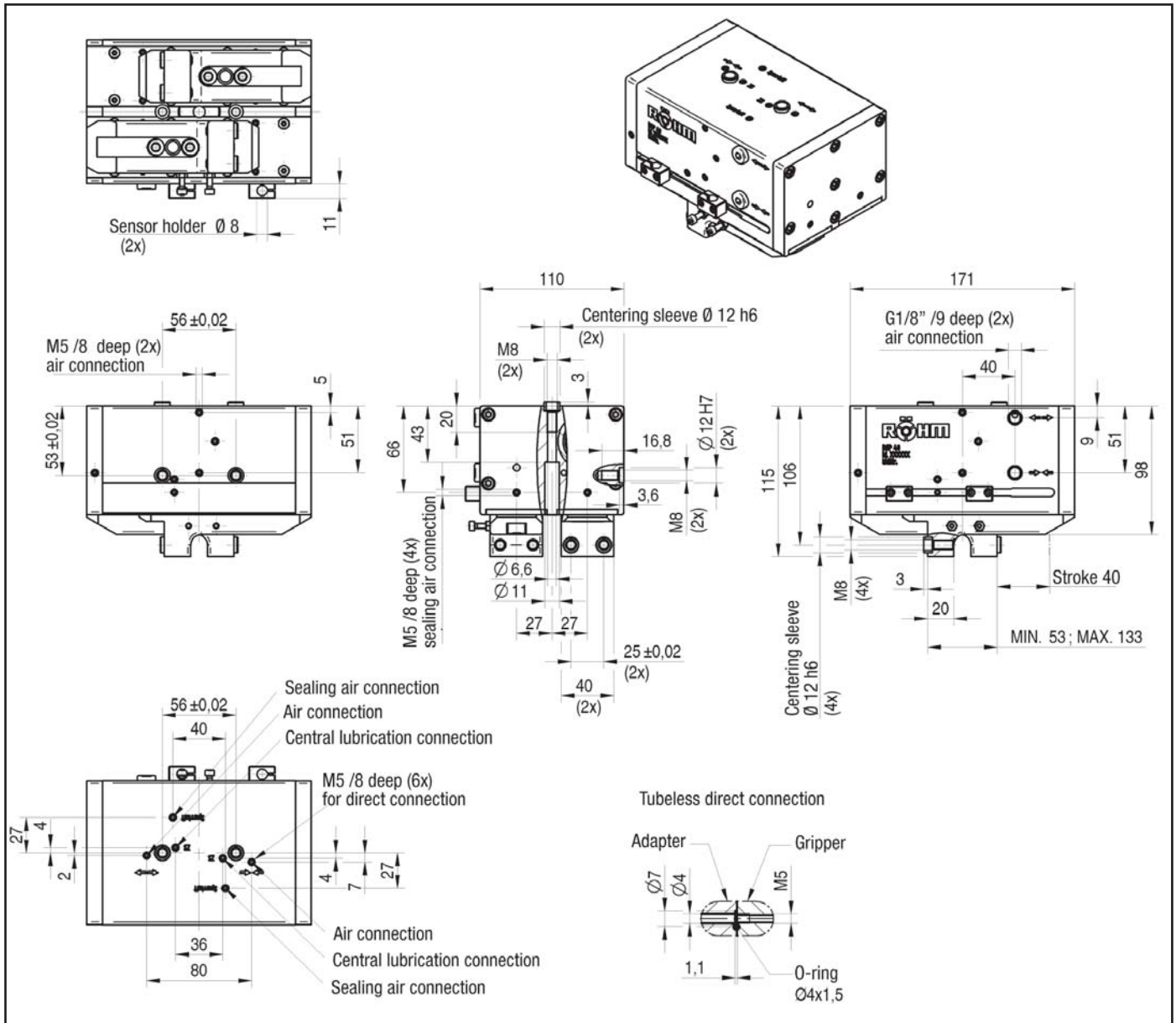
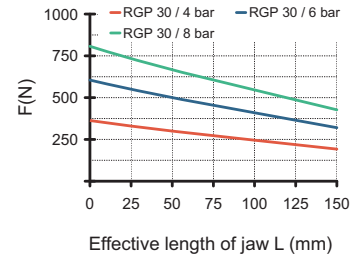
Clamping force diagram



Clamping force diagram – exterior gripping



Clamping force diagram – interior gripping



Long stroke gripper
RGP

RGP-50



APPLICATION

Sealed large-stroke gripper for handling large parts and high part variety.

TYPE

Available in sizes 30, 40 and 50 with integrated seal - optionally with gripping force securing device.

High precision thanks to double-piston drive synchronized via gear wheel.

CUSTOMER BENEFITS

- ⊕ High gripping force with simultaneously high jaw stroke by means of double-acting pressure pistons
- ⊕ High torque support for using long gripper fingers thanks to elongated jaw guide
- ⊕ Sealed for rough ambient conditions with quad-ring seal and highly precise intermediate jaws
- ⊕ Maximum flexibility thanks to versatile connection and fastening options

TECHNICAL FEATURES

- Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy
- All functional parts made of hardened steel for maximum service life
- Optional inductive and magnetic position sensors
- Optionally available with FKM seals for higher temperatures up to 150°C (on request)
- Integrated purge air connection to prevent contamination

C40

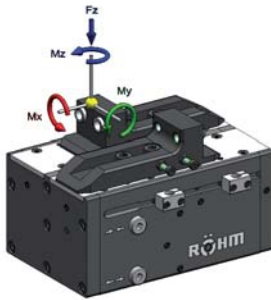
RGP-50 - 2-jaw long stroke gripper air operated

Item no.	170114	170115	170116
Design	RGP 50	RGP 50-GA	RGP 50-GI
Gripping force at 6 bar N	2600	2950	2680
Stroke per jaw mm	50	50	50
Gripping force maintained N	-	450	450
Recommended workpiece weight kg	13	13	11,5
Weight kg	11	11	11
Width mm	218	218	218
Height mm	103	103	103
Depth mm	141	141	141
Mx Nm	60	60	60
My Nm	100	100	100
Mz Nm	80	80	80
Fz N	1300	1300	1300
Operating pressure min./max. without GA/GI bar	2-8	-	-
Operating pressure min./max. with GA/GI bar	-	5-6,5	5-6,5
Clamping time s	0,6	0,5	0,7
Opening time s	0,7	0,8	0,6
Air consumption per cycle cm ³	600	600	600
Max. allowable length of jaw mm	250	200	200

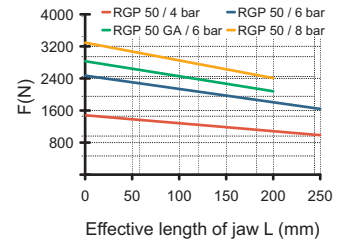
RGP-50

Max. load on gripper and jaw

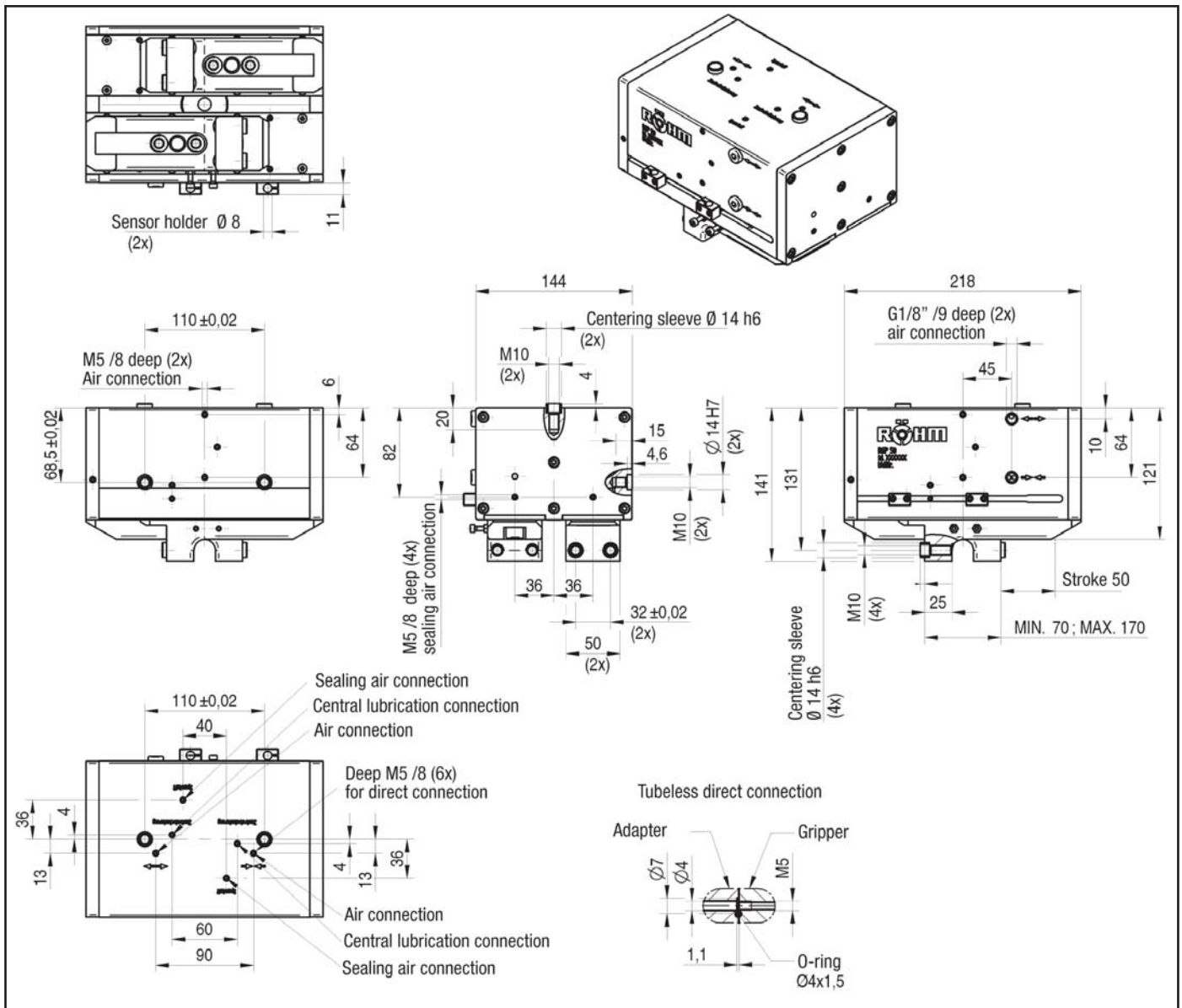
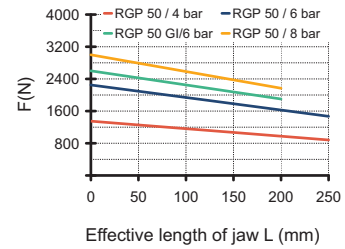
Clamping force diagram



Clamping force diagram – exterior gripping



Clamping force diagram – interior gripping



Long stroke gripper RGP

Accessories RGP

Intermediate jaw - steel (including fixing screws)
2-jaw set



Item no.	Number of jaws	Design	For
170993 ▲	2	steel	RGP-30
170995 ▲	2	steel	RGP-40
170997 ▲	2	steel	RGP-50

Jaw blank - steel (including fixing screws)
2-jaw set



Item no.	Number of jaws	Design	For
1146146 ▲	2	aluminium	RGP-30
1146144 ▲	2	aluminium	RGP-40
1131198 ▲	2	aluminium	RGP-50

Pressure maintenance
for double acting gripper (G1/8)



Item no.
1078823

Compressed air connection - L-Plug connector



Item no.	Design	For
477025	L-Plug connector 1/8 - 6 mm	all sizes, all types

Proximity switch



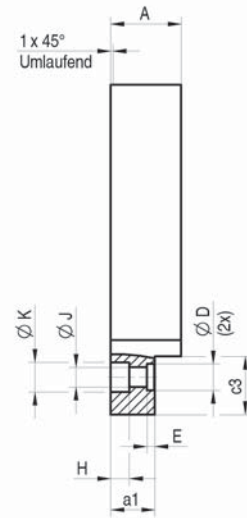
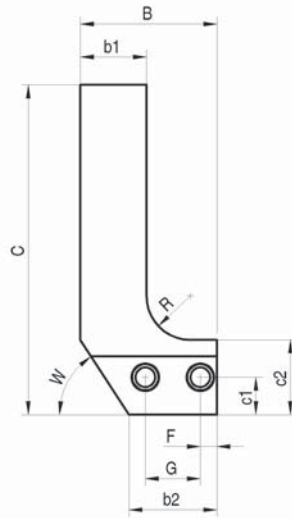
Item no.	Size (diameter/length)	Design	For
229114	M8x1x30,5	5 m cable, open leads	all sizes, all types

Magnetic field sensors



Item no.	Size (diameter/length)	Design	For
1276722	C-Nut	3m cable, 3 open leads	all sizes, all types

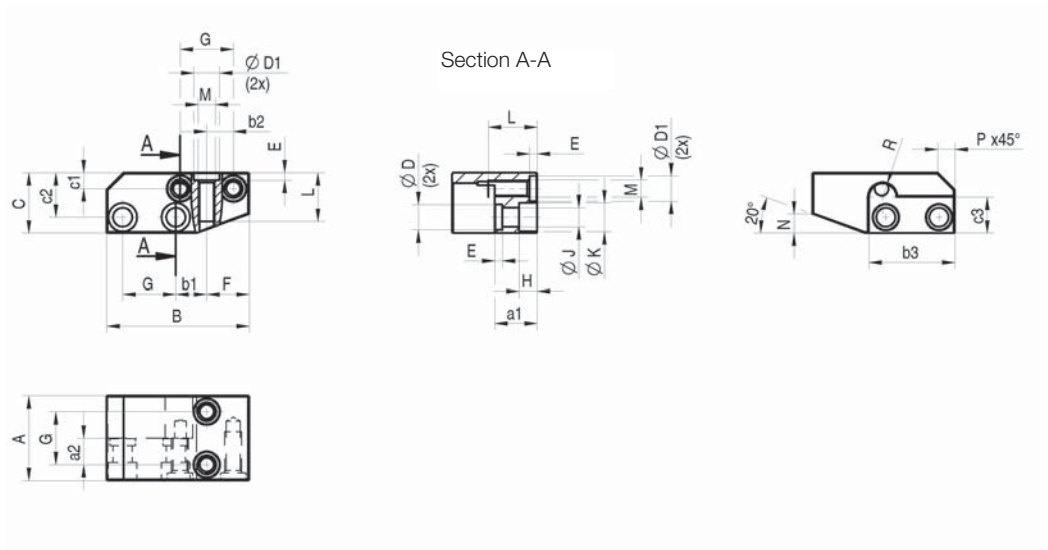
Accessories RGP



Jaw blank - steel (including fixing screws)

RGP Jaw blank - steel	30	40	50
RGP - 2-jaw set	1146146	1146144	1131198
A	28	32	42
a1	18	20	25
B	54	62	80
b1	25	30	38
b2	36	40	50
C	100	150	200
c1	13	17	22
c2	30	34	40
c3	22,5	26,5	32,5
D+0,02/+0,04	10	12	14
E+0,02	3,6	3,6	4,6
F±0,1	8	7,5	9
G±0,02	20	25	32
H	6,8	8,5	11
J	6,6	9	11
K	11	13,5	16,5
R	15	20	25
W	57°	57°	57°
Weight per jaw Kg	0,6	1,2	2,6

Accessories RGP



Intermediate jaw - steel (including fixing screws)

RGF	30	40	50
Intermediate jaw - steel			
RGF - 2-jaw set	170993	170995	170997
A	36	40	50
a1	18	20	25
a2	10	12,5	16
B	59,5	67	86
b1	13,5	14,5	20
b2	10	12,5	16
b3	36,5	40,5	50,5
C	26,5	28,5	35
c1	8	7,5	9
c2	20	21	25
c3	16	17	20,5
D+0,02/+0,04	10	12	14
E+0,02	3,5	3,5	4,6
F±0,1	18	20	25
G±0,02	20	25	32
H	6,8	8,5	11
J	6,6	9	11
K	11	13,5	16,5
L	18	23	28
M	M6	M8	M10
Nx20°	8	9	12
Px45°	7	8	10
R	5,5	6,5	6,5
Weight per jaw Kg	0,6	1,2	2,6
Centering sleeve	170264	170265	170266
Size	Ø10	Ø12	Ø14



Notes

RGPO-4060



APPLICATION

Premium large stroke gripper with large stroke and ground jaw guides.

CUSTOMER BENEFITS

- ⊕ Up to 5 million cycles maintenance-free
- ⊕ Available on request: temperature-resistant version (up to approx. 150° C)

TECHNICAL FEATURES

- Gripper body made of high-strength, hard-coated aluminum
- Toothed racks, intermediate jaws and gear wheel made of hardened steel
- High torque absorption of the intermediate jaws due to the robust flat guide of the toothed racks
- Suitable for the use of long top jaws
- Centric clamping is realized via the synchronization of the two toothed racks with one gear wheel
- Special gripper type available with additional spring set to prevent loss of gripping force during external or internal gripping
- Energy supply possible by means of screw connection or via hoseless direct connection

RGPO 4060 - 2-jaw large stroke gripper air operated

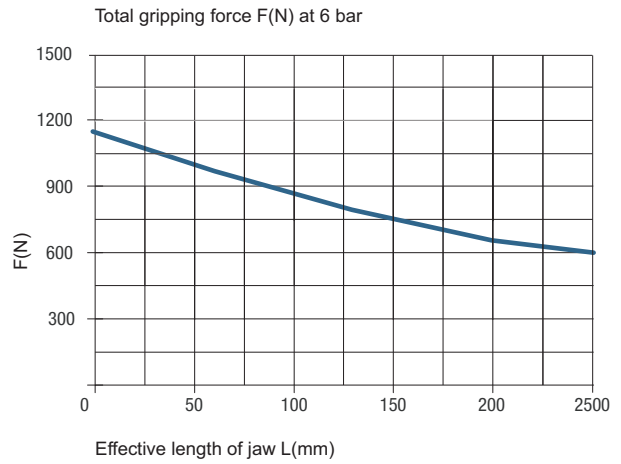
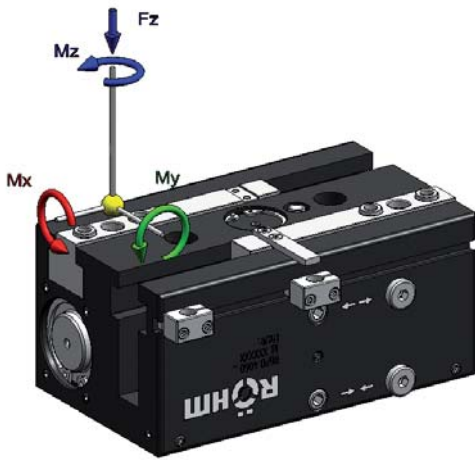
Item no.	172774	172775
Design	RGPO 4060	RGPO 4060-GA
Gripping force at 6 bar N	1250	1920
Stroke per jaw mm	60	60
Recommended workpiece weight kg	5,5	5,5
Weight kg	3,8	4,2
Width mm	170	170
Height mm	80	80
Depth mm	100	100
Mx Nm	80	80
My Nm	125	125
Mz Nm	100	100
Fz N	3000	3000
Operating pressure min./max. without GA/GI bar	3-8	
Operating pressure min./max. with GA/GI bar		4-8
Clamping time s	0,35	0,4
Opening time s	0,35	0,35
Air consumption per cycle cm ³	278	278
Max. allowable length of jaw mm	150	150

2-jaw long stroke gripper

RGPO-4060

Max. load on gripper and jaw

Clamping force diagram exterior gripping



Tubeless direct connection

Typ: GA with gripping force safety device

2-jaw long stroke gripper

RGPO-40100



APPLICATION

Premium large stroke gripper with large stroke and ground jaw guides.

CUSTOMER BENEFITS

- ⌚ Up to 5 million cycles maintenance-free
- 🌡️ Available on request: temperature-resistant version (up to approx. 150° C)

TECHNICAL FEATURES

- Gripper body made of high-strength, hard-coated aluminum
- Toothed racks, intermediate jaws and gear wheel made of hardened steel
- High torque absorption of the intermediate jaws due to the robust flat guide of the toothed racks
- Suitable for the use of long top jaws
- Centric clamping is realized via the synchronization of the two toothed racks with one gear wheel
- Special gripper type available with additional spring set to prevent loss of gripping force during external or internal gripping on request
- Energy supply possible by means of screw connection or via hoseless direct connection

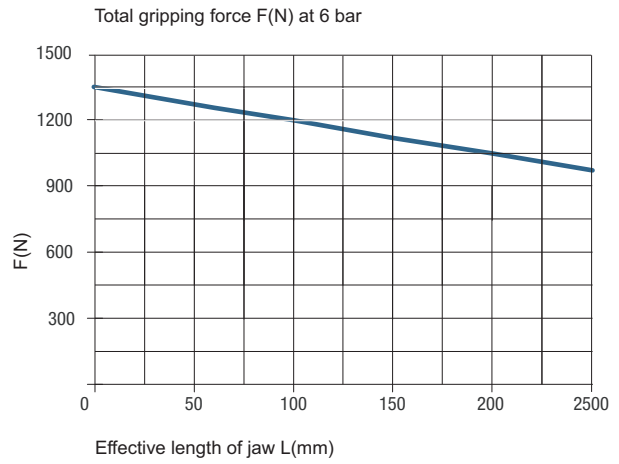
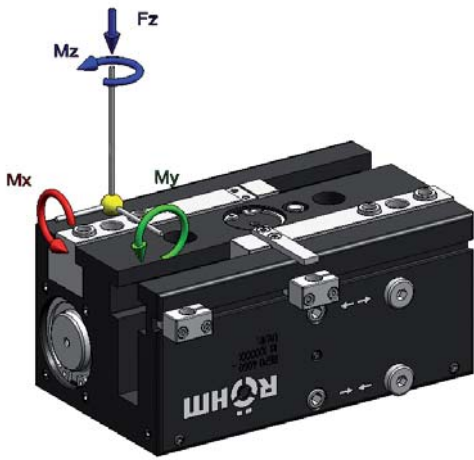
RGPO 40100 - 2-jaw large stroke gripper air operated

Item no.	172777
Design	RGPO 40100
Gripping force at 6 bar N	1250
Stroke per jaw mm	100
Recommended workpiece weight kg	5,5
Weight kg	5,3
Width mm	170
Height mm	80
Depth mm	100
Mx Nm	80
My Nm	125
Mz Nm	100
Fz N	3000
Operating pressure min./max. without GA/GI bar	3-8
Clamping time s	0,35
Opening time s	0,35
Air consumption per cycle cm ³	278
Max. allowable length of jaw mm	150

RGPO-40100

Max. load on gripper and jaw

Clamping force diagram exterior gripping



150 Stroke 100

10

15±0,02 15±0,02

11

9

Relubrication

Sensor-Ø 8

100

M6 /9 (2x) M6 /9 (2x)

9

40±0,02

40

18,6

1,9

4,7

M6 (6x) Ø 6 H7 / 8 (2x)

Ø 10 h6 (4x)

M5 /6 for direct connection (2x)

Ø 8 H7 / 8 (2x)

35

80

140±0,02

Tubeless direct connection

Adapter Gripper

Ø 9 Ø 5

1,5

M 5

O-Ring Ø5x2,0

100

M10 (2x)

15

54

3

15

55,5

78,5

80

Ø 8,2

Ø 15

16

29

25

25

250

(82) 43

8

50

15

29

25

25

16

29

25

25

G1/8" /9 deep Air connection (2x)

2-jaw long stroke gripper

RGPO-6360



APPLICATION

Premium large stroke gripper with large stroke and ground jaw guides.

CUSTOMER BENEFITS

- ⊕ Up to 5 million cycles maintenance-free
- ⊕ Available on request: temperature-resistant version (up to approx. 150° C)

TECHNICAL FEATURES

- Gripper body made of high-strength, hard-coated aluminum
- Toothed racks, intermediate jaws and gear wheel made of hardened steel
- High torque absorption of the intermediate jaws due to the robust flat guide of the toothed racks
- Suitable for the use of long top jaws
- Centric clamping is realized via the synchronization of the two toothed racks with one gear wheel
- Special gripper type available with additional spring set to prevent loss of gripping force during external or internal gripping
- Energy supply possible by means of screw connection or via hoseless direct connection

RGPO 6360 - 2-jaw large stroke gripper air operated

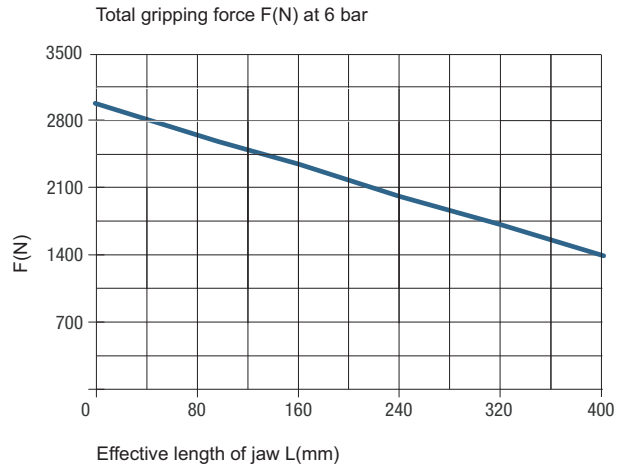
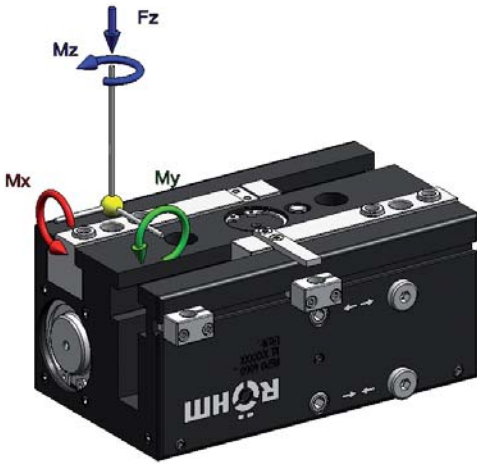
Item no.	172794	172795
Design	RGPO 6360	RGPO 6360-GA
Gripping force at 6 bar N	3000	4000
Stroke per jaw mm	60	60
Recommended workpiece weight kg	15	15
Weight kg	10	11
Width mm	185	185
Height mm	121,5	121,5
Depth mm	154	154
Mx Nm	200	200
My Nm	300	300
Mz Nm	250	250
Fz N	9000	9000
Operating pressure min./max. without GA/GI bar	3-8	
Operating pressure min./max. with GA/GI bar		4-8
Clamping time s	0,4	0,4
Opening time s	0,4	0,5
Air consumption per cycle cm ³	710	710
Max. allowable length of jaw mm	200	200

2-jaw long stroke gripper

RGPO-6360

Max. load on gripper and jaw

Clamping force diagram exterior gripping



Tubeless direct connection

Type: GA with gripping force safety device

2-jaw long stroke gripper

RGPO-63100



APPLICATION

Premium large stroke gripper with large stroke and ground jaw guides.

CUSTOMER BENEFITS

- ⌚ Up to 5 million cycles maintenance-free
- ⌚ Available on request: temperature-resistant version (up to approx. 150° C)

TECHNICAL FEATURES

- Gripper body made of high-strength, hard-coated aluminum
- Toothed racks, intermediate jaws and gear wheel made of hardened steel
- High torque absorption of the intermediate jaws due to the robust flat guide of the toothed racks
- Suitable for the use of long top jaws
- Centric clamping is realized via the synchronization of the two toothed racks with one gear wheel
- Special gripper type available with additional spring set to prevent loss of gripping force during external or internal gripping on request
- Energy supply possible by means of screw connection or via hoseless direct connection

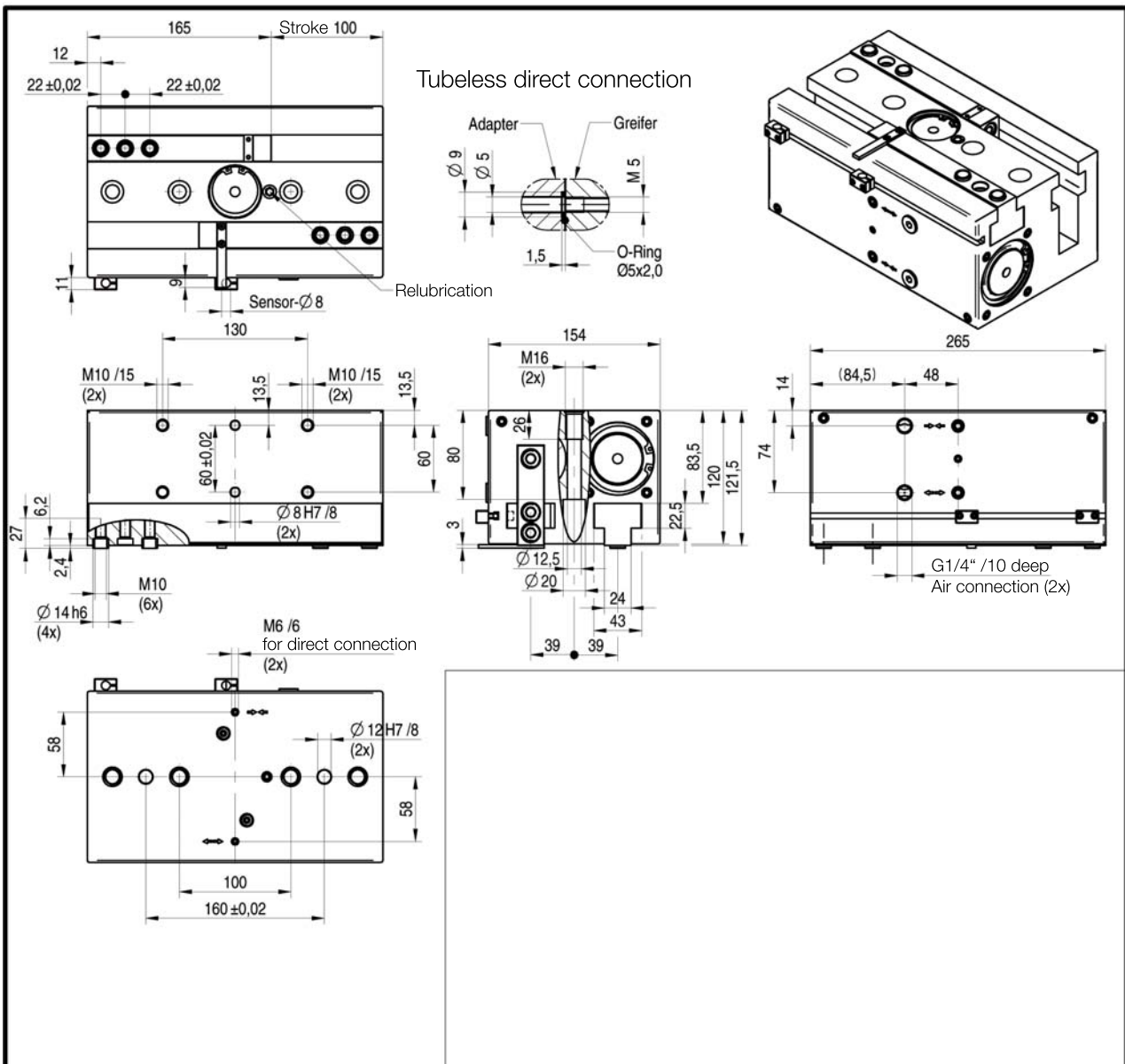
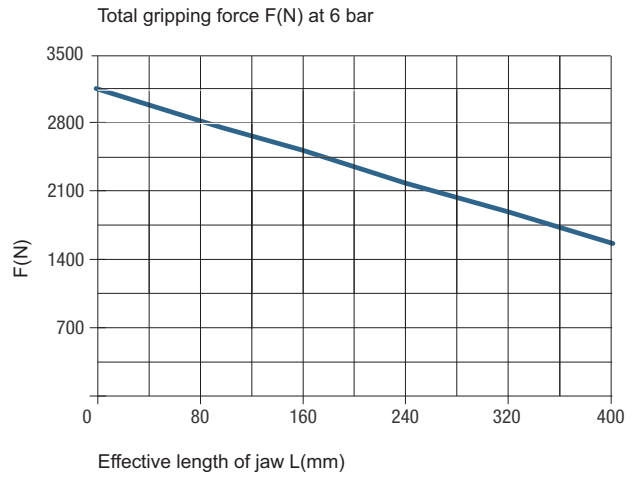
RGPO 63100 - 2-jaw large stroke gripper air operated

Item no.	172797
Design	RGPO 63100
Gripping force at 6 bar N	3000
Stroke per jaw mm	100
Recommended workpiece weight kg	15
Weight kg	13,4
Width mm	185
Height mm	121,5
Depth mm	154
Mx Nm	200
My Nm	300
Mz Nm	250
Fz N	9000
Operating pressure min./max. without GA/GI bar	3-8
Clamping time s	0,7
Opening time s	0,7
Air consumption per cycle cm ³	1180
Max. allowable length of jaw mm	200

RGPO-63100

Max. load on gripper and jaw

Clamping force diagram exterior gripping



2-jaw long stroke gripper

Application-specific grippers



RDPP - Sealed parallel gripper

APPLICATION

Sealed parallel gripper with precise square guide for rough environments.

TYPE

Available in sizes 80 to 160 in especially compact design.

CUSTOMER BENEFITS

- Doubly sealed precision square guide for use under drilling or grinding emulsions
- Optionally with gripping force securing device for inner and outer clamping
- Gripper fingers mounted laterally for minimum load distance
- Maximum flexibility thanks to versatile connection and fastening options

TECHNICAL FEATURES

Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy. All functional parts made of hardened steel for maximum service life. Position can be queried using inductive and magnetic sensors.

Other sizes available on request. Optionally available with FKM seals for higher temperatures up to 150°C (on request).



RPR - Compact long stroke gripper

APPLICATION

Compact long stroke gripper for handling large parts and high part variety.

TYPE

Available in sizes 22 and 42 in especially compact design. High precision thanks to double-piston drive synchronized via gear wheel.

CUSTOMER BENEFITS

- Compact design with long jaw stroke for especially cramped spatial conditions
- High gripping force with simultaneously long jaw stroke by means of double-acting pressure pistons
- Gripper fingers mounted laterally for minimum load distance
- Maximum flexibility thanks to versatile connection and fastening options

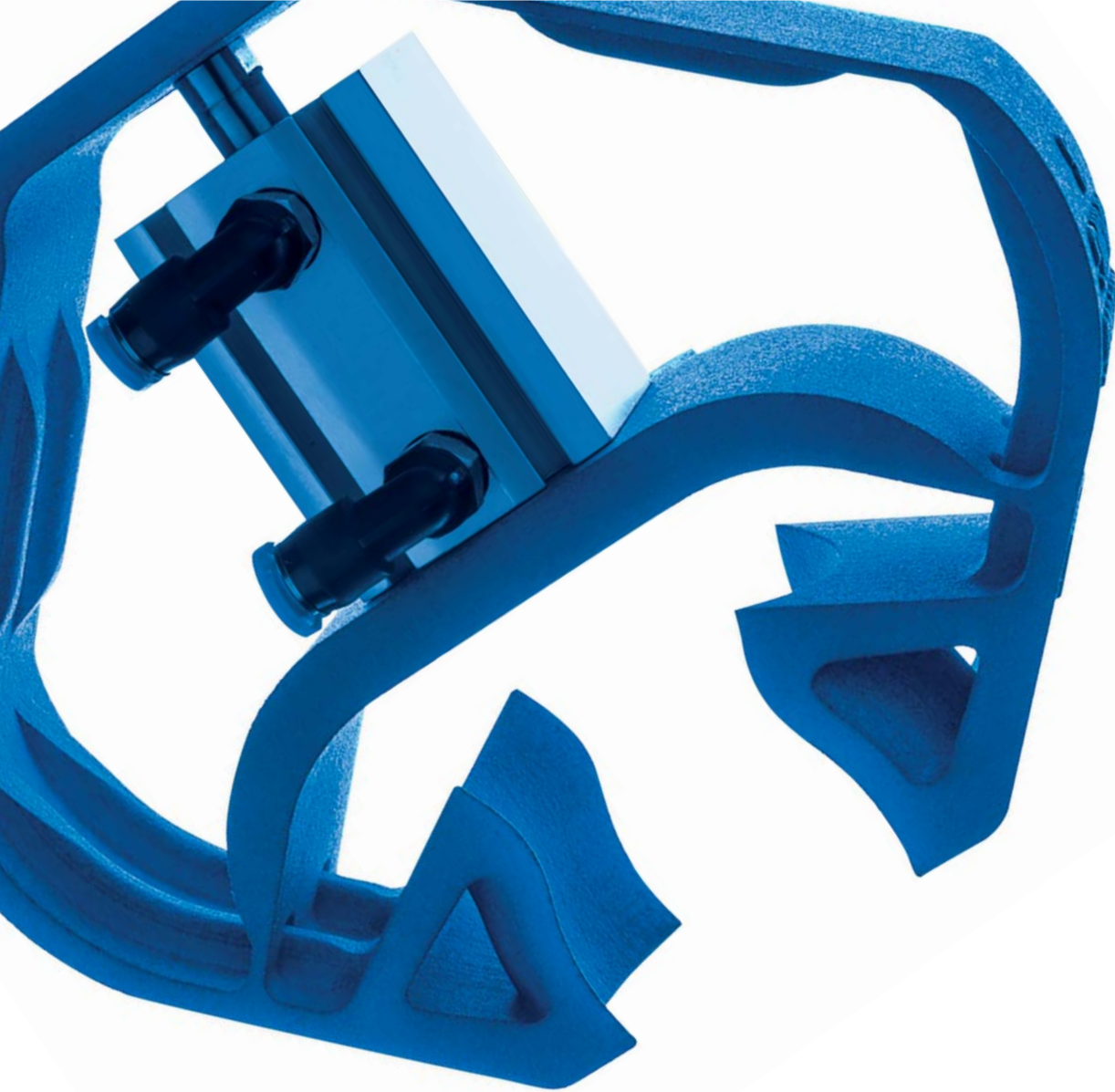
TECHNICAL FEATURES

Centrally clamping in compact design made of high-strength, hard-coated aluminum alloy. All functional parts made of hardened steel for maximum service life. Robust double-piston guide in compact housing, pneumatically actuated. Position can be queried using inductive and magnetic sensors. Integrated damping ring in the end positions for high availability.

Other sizes available on request. Optionally available with FKM seals for higher temperatures up to 150°C (on request).



Notes



INDIVIDUAL SINGLE PIECE WITH OPTIMIZED DESIGN

With the help of a 3D model of the workpiece, the synthetic RRMG gripper is individually and perfectly adapted to the respective workpiece. Special jaws with free-form surfaces allow the secure gripping and clamping of every sensitive workpiece with complex geometries.

The particularly robust and resistant design of the new synthetic RRMG gripper makes a 30% higher clamping force possible.

RRMG

**RÖHM
Rapid
Manufacturing
Gripper**

- 2

**Sizes
2-3**



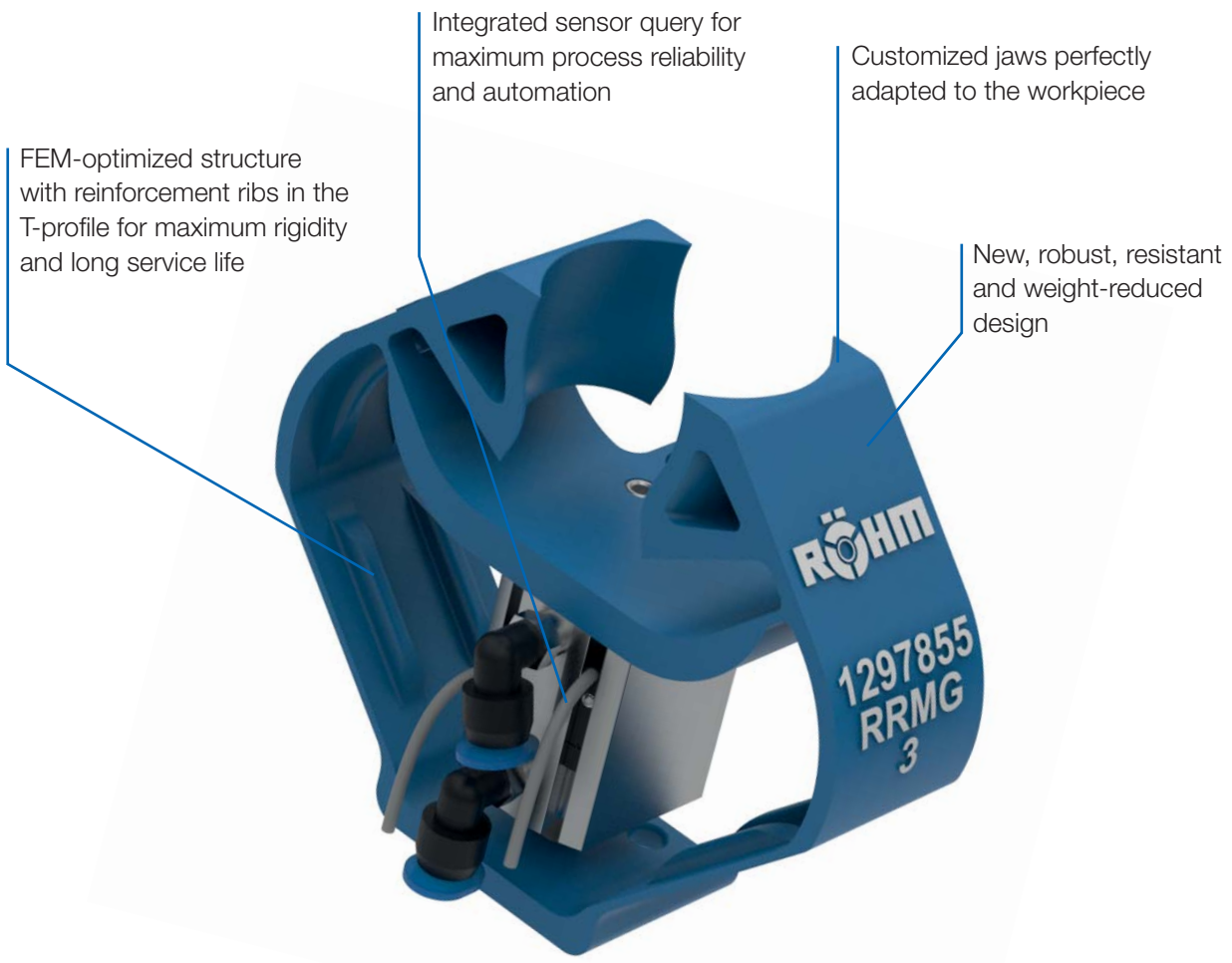
Video Synthetic gripper

SYNTHETIC GRIPPER

Whether round material, prismatic workpieces or free-form surfaces, the synthetic RRMG gripper from RÖHM is individually adapted to the workpiece and produced. Only a 3D model of the workpiece is required, and RÖHM will produce the individual synthetic RRMG gripper based on that. This customer-specific solution is therefore perfect for gripping and clamping sensitive workpieces with complex geometries.

ADVANTAGES AT A GLANCE

- ③ Component-specific individual piece for sensitive workpieces with complex geometries
- ③ FEM-optimized design with 30% higher clamping force for a greater range of use
- ③ Up to 16 million gripper cycles without required maintenance or signs of wear



RRMG



APPLICATION

Synthetic gripper for easy, sensitive workpieces with complex geometries.

TYPE

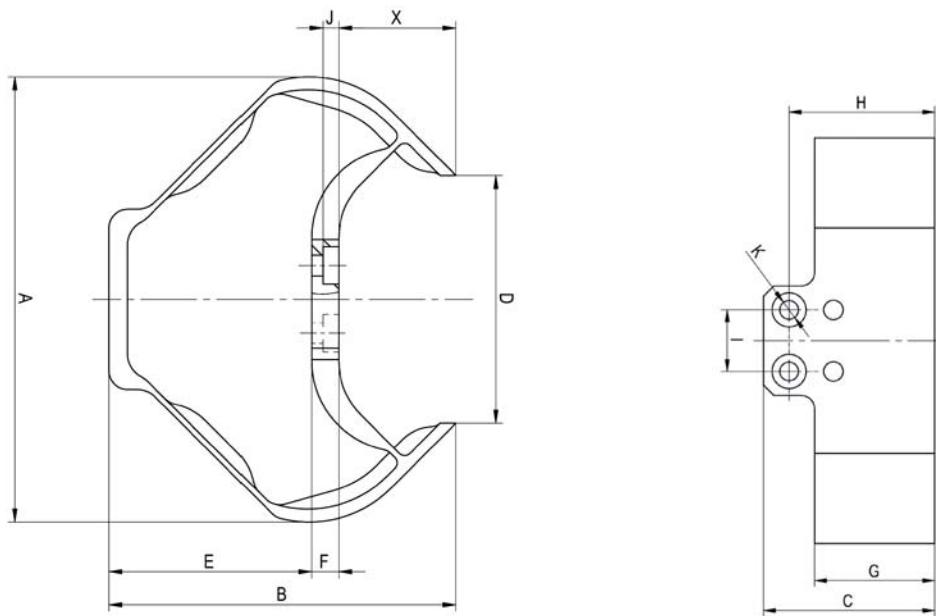
Synthetic gripper RRMG - customized and perfectly adapted jaws on the form of the workpiece.

CUSTOMER BENEFITS

- ③ Part specific unique gripper for sensitive workpieces with complex geometries
- ③ FEM optimized structure with 30 % higher clamping force
- ③ Customized and perfectly adapted to the workpiece using the 3D-model
- ③ Application specific design of the flange for maximum flexibility
- ③ Up to 16 million gripping cycles without maintenance or wear and tear

TECHNICAL FEATURES

- Synthetically built by selective laser sintering for short delivery times
- Especially robust and durable material polyamid with FEM-optimized structure
- Optional position monitoring by installable standard sensors
- Position monitoring by magnetic sensors possible
- Further designs and sizes on request (e.g. double gripper, internal gripper, etc.)



Synthetic gripper RRMG

	Size	Gripping force (N)*	Stroke (mm)*	Clamping point X	A	B	C	D	E	F	G	H	I	J	K Ø
RRMG	2	80	2,6	23,2	92	75,8	37	50	47	5,5	25	31	13	3,4	4,5
RRMG	3	152	4,3	31,2	118,6	92,4	50	66	54	7,2	35	42,5	18	4,2	5,5

* at clamping point X.



Notes

Operation guide



RSP-Flex - basic unit*

- With through hole



RSP-Flex - basic unit with fluid feedthrough*

- With fluid feedthrough and through hole
- **-F4** 4-way fluid feedthrough (RSP32-Flex)
- **-F8** 8-way fluid feedthrough (RSP42-Flex / RSP52-Flex)



RSP-Flex - basic unit with fluid and cable feedthrough*

- With fluid feedthrough, with cable feedthrough
- **-F4** + **-KD8** 8-way cable feedthrough (RSP32-Flex)
- **-F8** + **-KD8** 8-way cable feedthrough (RSP42-Flex / RSP52-Flex)



RSP-Flex - basic unit with fluid and cable feedthrough and inductive attachment kit*

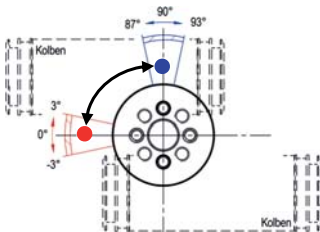
- With fluid feedthrough, with cable feedthrough, with inductive attachment kit for monitoring the swivel position with proximity switches
- **-F4** + **-KD8** + **-AS** inductive attachment kit (RSP32-Flex)
- **-F8** + **-KD8** + **-AS** inductive attachment kit (RSP42-Flex / RSP52-Flex)

* The monitoring of the swivel position by up to 6 magnetic sensors is recommended for all swivel units

SWIVEL ANGLE AND END POSITION ADJUSTMENT

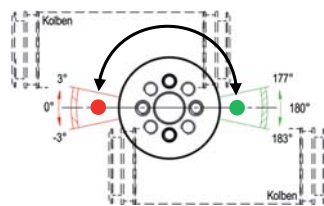
RSP-90-J3

Pivot angle 90°
End position ± 3°



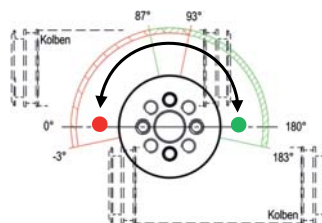
RSP-180-J3

Pivot angle 180°
End position ± 3°



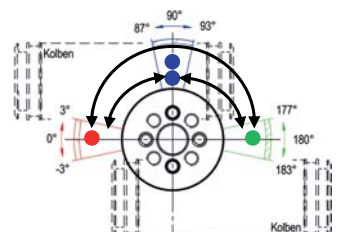
RSP-180-J90

Pivot angle 180°
End position 90 ± 3°



RSP-180-J3-MV

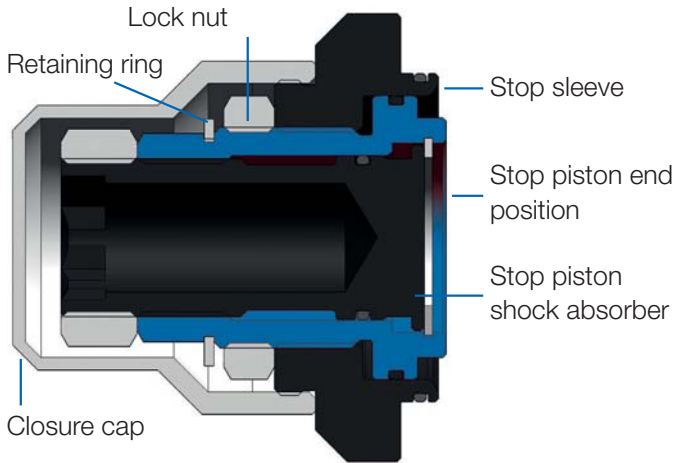
Pivot angle 90°-180°- 90°
End position ± 3°



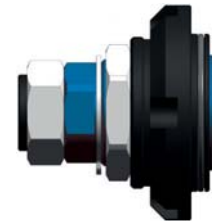
with mechanically locked middle position

Operation guide

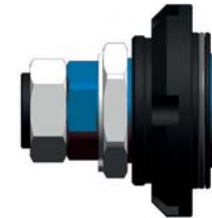
RSP END POSITION ADJUSTMENT



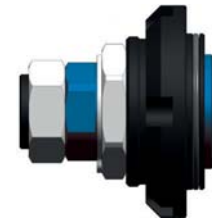
- ⊕ No unintentional readjustment of the end position thanks to the use of the lock nut with fine thread
- ⊕ Stepless adjustment of the end angle
- ⊕ End position is not maladjusted when the shock absorber is adjusted



Step 1: Screw off the closure cap and loosen the lock nut



Step 2: Adjust end position



Step 3: Tighten the lock nut and screw on the closure cap

THE DAMPER SETTING MAKES THE DIFFERENCE

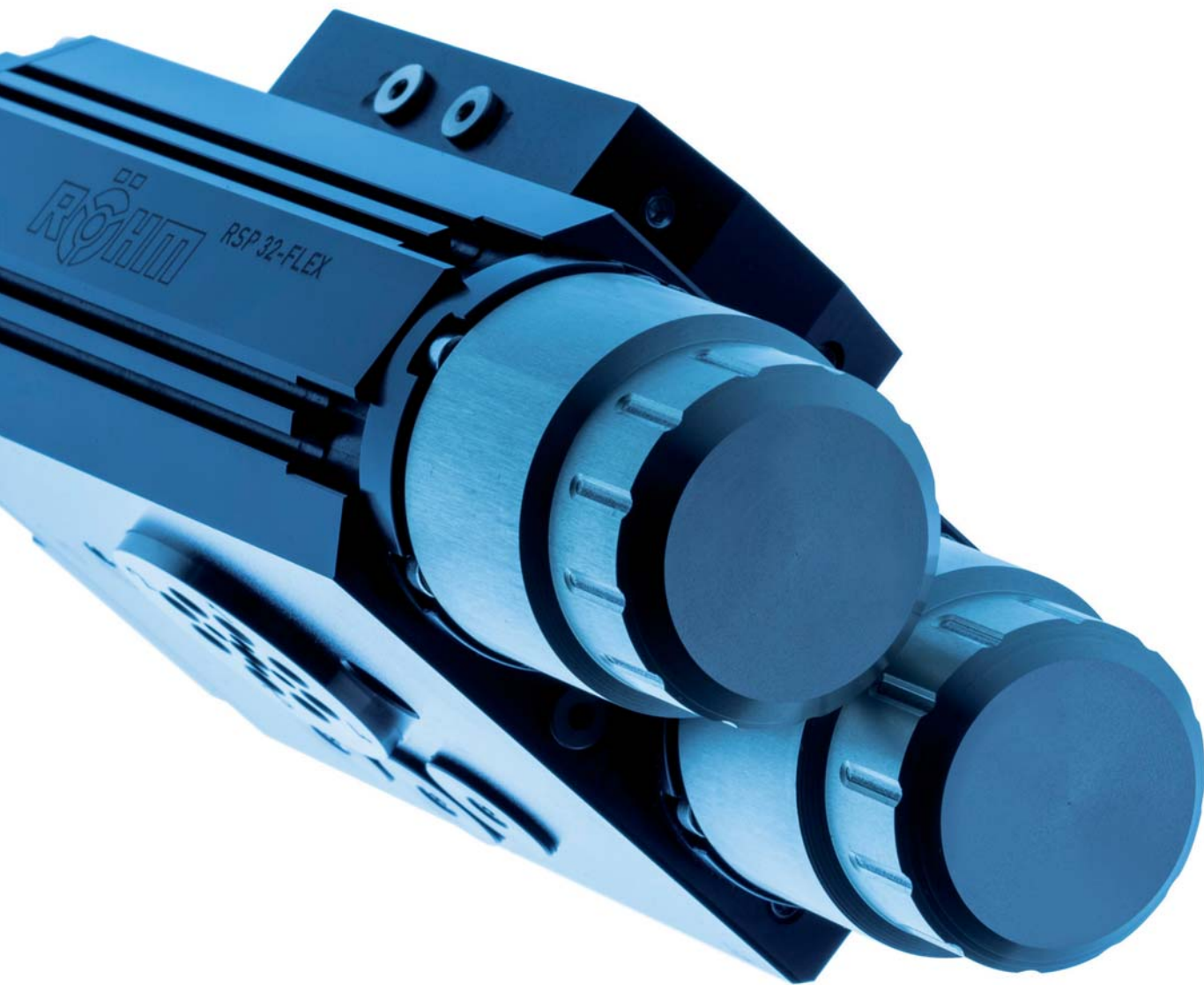


Simple load adaptation

Flexible and easy damper adjustment from outside using a wrench. It is not necessary to exchange or disassemble the swivel unit. Result: Can be quickly and easily integrated in the system.

The trick with the click

The shock absorber hardness can be uniquely documented. Thanks to the snap-in adjustability, the system-specific setting can be quickly and reliably reproduced.



NOMENCLATURE

RSP	52	-Flex	-180°	-J3	-MV	-F8	-KD8	-AS
Pneumatically actuated swivel unit	1. 32 / 42 / 52 (Size)	-Flex (flexible damper adjustment)	-180° (Swivel angle)	-J3 (End position adjustability)	-MV (Middle position locked)	2. -F4 / -F8 (4-/8-way fluid feedthrough)	3. Cable feed-through (M8), sensor plug	4. Inductive attachment kit

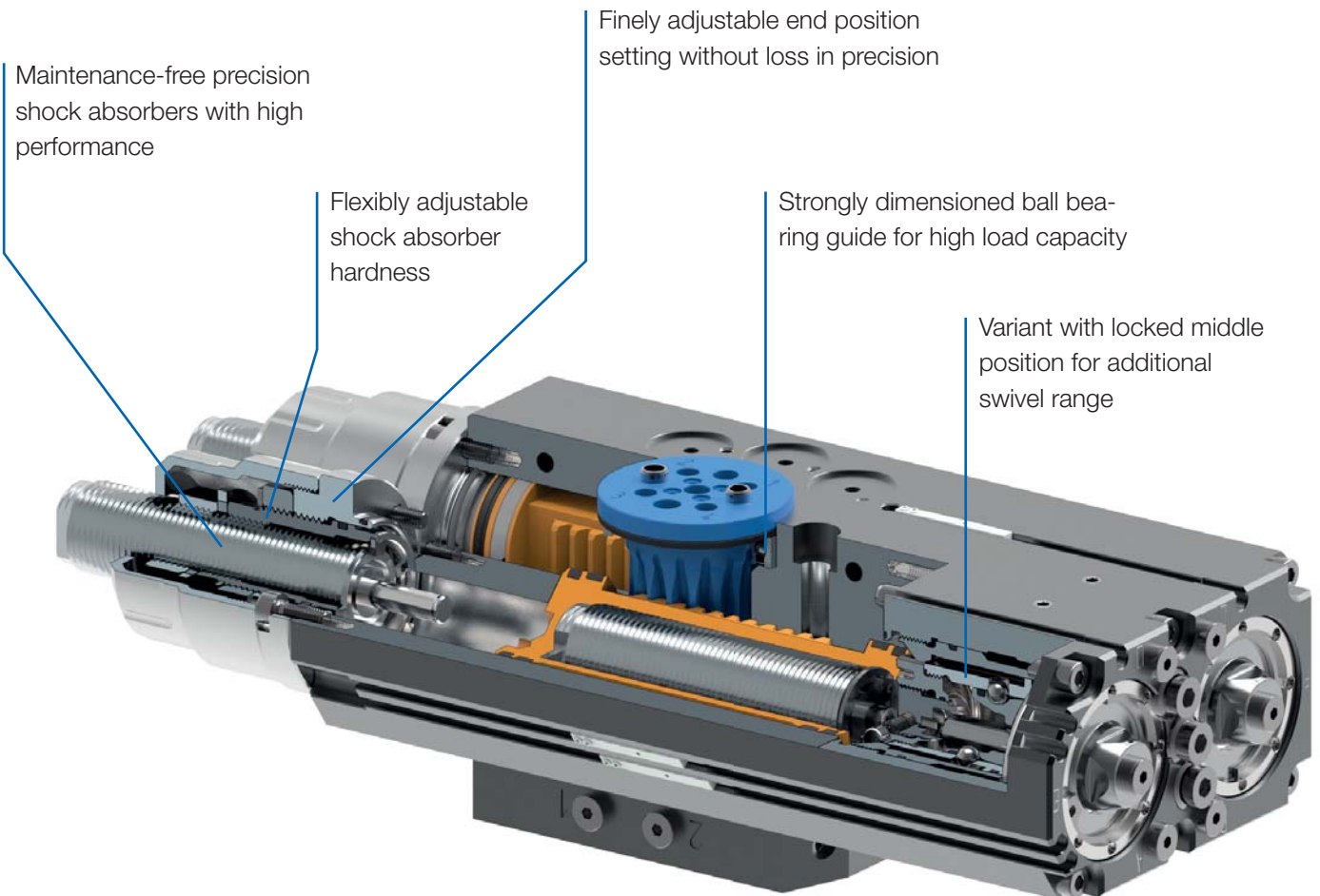
1. Select the size (32 / 42 / 52)
2. Is a fluid feedthrough required (yes/no)?
3. Cable feedthrough, yes/no?
4. Inductive attachment kit, yes/no?

SWIVEL UNIT RSP-FLEX

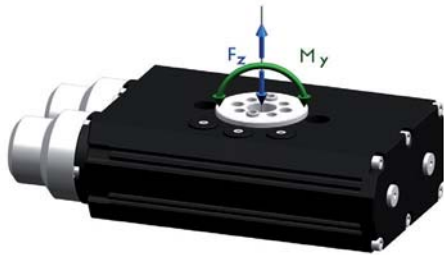
Especially for the automated loading and unloading to machine tools, as well as for the fast and precise insertion of components in assembly systems, the RSP Flex swivel units offer an alternative to complicated special designs. Thanks to the modular structure and the extensive expansion options, they are flexible and reliably integrated. The innovative shock absorber concept with flexible and infinitely variable adjustability in all end positions allows for smoothly and precise swiveling.

ADVANTAGES AT A GLANCE

- ⊕ Smoothly and precise swiveling thanks to innovative shock absorber concept
- ⊕ High torque thanks to enlarged piston diameter for faster cycle times
- ⊕ Maintenance-free up to 10 million swivel cycles



RSP-Flex 32



APPLICATION

Swivel unit with high torque and compact design.
Flexibly adjustable hardness of the shock absorbers.

TYPE

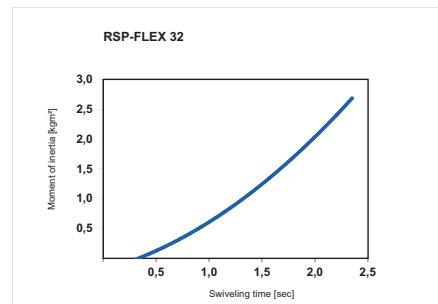
Realise two damping ranges, "hard" and "soft" with one swivel unit!

CUSTOMER BENEFITS

- ② Uniform damping in the end positions
- ② Fine adjustment of the dampers at the end position settings
- ② Optimal bearing support of the rotary plate for several million cycles
- ② Energy supply possible by means of screw connection or via hoseless direct connection
- ② Can be used in all positions - e.g. vertical, suspended, horizontal

TECHNICAL FEATURES

- Body made of high-strength, hard-coated aluminum
- Pinion shaft and rack made of hardened steel
- End position can be infinitely variably adjusted $\pm 3^\circ$ or $\pm 90^\circ$
- Optional inductive and magnetic position sensors
- Up to 8-fold fluid feeder
- Up to 9-fold cable feed-through



C40
RSP-Flex 32, air operated

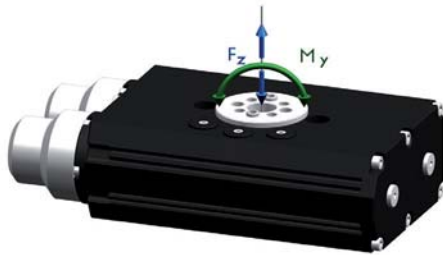
	RSP32-Flex-90-J3	RSP32-Flex-180-J3	RSP32-Flex-180-J90	RSP32-Flex-180-J3-MV
RSP-Flex Basic unit	174000	174001	174002	174003
RSP-Flex + fluid feed-through*	174006	174007	174008	174009
RSP-Flex + fluid feed-through* + cable feedthrough**	174012	174013	174014	174015
RSP-FLEX + fluid feed-through* + cable feedthrough** + proximity switch adapter***	174018	174019	174020	174021
Pivot angle °	90	180	180	180 + 2x90
End position adjustability °	± 3	± 3	90 ± 3	± 3
Mid-position adjustability °	-	-	-	± 3
Torque at 6 bar Nm	10	10	10	10
Nominal operating pressure (min./max.) bar	6	6	6	6
Operating temperature min./max. °C	5-80	5-80	5-80	5-80
Repeat accuracy °	$\pm 0,01$	$\pm 0,01$	$\pm 0,01$	$\pm 0,01$
Weight kg	2,5	2,5	2,5	3,6
Axial bearing load F_z N	800	800	800	800
Radial bearing load M_y Nm	19	19	19	19

* number of fluid feed-throughs RSP32=4; RSP42/RSP52=8 (max. 8 bar)

** number of signals=RSP32=8; RSP42/52=10 (24V, max. 1A), plug machine side M16, plug tool side M8

*** number of holders for proximity switches: 3

RSP-Flex 42



APPLICATION

Swivel unit with high torque and compact design.
Flexibly adjustable hardness of the shock absorbers.

TYPE

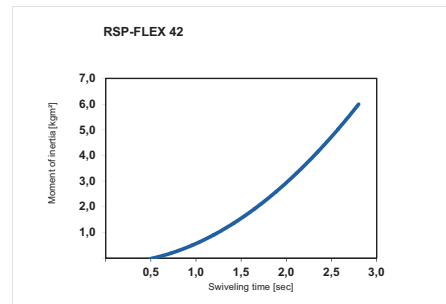
Realise two damping ranges, "hard" and "soft" with one swivel unit!

CUSTOMER BENEFITS

- ② Uniform damping in the end positions
- ② Fine adjustment of the dampers at the end position settings
- ② Optimal bearing support of the rotary plate for several million cycles
- ② Energy supply possible by means of screw connection or via hoseless direct connection
- ② Can be used in all positions - e.g. vertical, suspended, horizontal

TECHNICAL FEATURES

- Body made of high-strength, hard-coated aluminum
- Pinion shaft and rack made of hardened steel
- End position can be infinitely variably adjusted $\pm 3^\circ$ or $\pm 90^\circ$
- Optional inductive and magnetic position sensors
- Up to 8-fold fluid feeder
- Up to 9-fold cable feed-through



C40

RSP-Flex 42, air operated

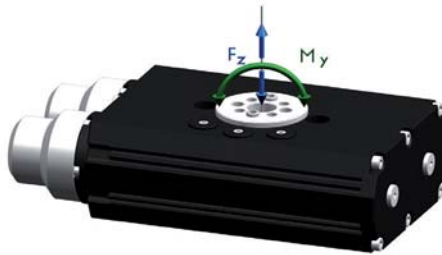
	RSP42-Flex-90-J3	RSP42-Flex-180-J3	RSP42-Flex-180-J90	RSP42-Flex-180-J3-MV
RSP-Flex Basic unit	174024	174025	174026	174027
RSP-Flex + fluid feed-through*	174030	174031	174032	174033
RSP-Flex + fluid feed-through* + cable feedthrough**	174036	174037	174038	174039
RSP-Flex + fluid feed-through* + cable feedthrough** + proximity switch adapter***	174042	174043	174044	174045
Pivot angle °	90	180	180	180 + 2x90
End position adjustability °	± 3	± 3	90 ± 3	± 3
Mid-position adjustability °	-	-	-	± 3
Torque at 6 bar Nm	23	23	23	23
Nominal operating pressure (min./max.) bar	6	6	6	6
Operating temperature min./max. °C	5-80	5-80	5-80	5-80
Repeat accuracy °	$\pm 0,01$	$\pm 0,01$	$\pm 0,01$	$\pm 0,01$
Weight kg	5	5	5	5
Axial bearing load F_z N	2900	2900	2900	2900
Radial bearing load M_y Nm	68	68	68	68

* number of fluid feed-throughs RSP32=4; RSP42/RSP52=8 (max. 8 bar)

** number of signals=RSP32=8; RSP42/52=10 (24V, max. 1A), plug machine side M16, plug tool side M8

*** number of holders for proximity switches: 3

RSP-Flex 52



APPLICATION

Swivel unit with high torque and compact design.
Flexibly adjustable hardness of the shock absorbers.

TYPE

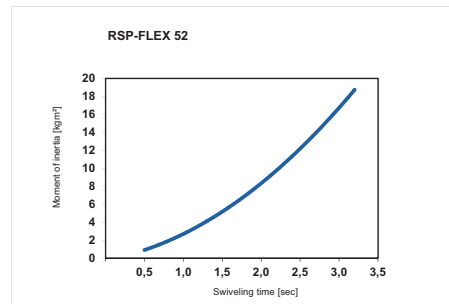
Realise two damping ranges, "hard" and "soft" with one swivel unit!

CUSTOMER BENEFITS

- ③ Uniform damping in the end positions
- ③ Fine adjustment of the dampers at the end position settings
- ③ Optimal bearing support of the rotary plate for several million cycles
- ③ Energy supply possible by means of screw connection or via hoseless direct connection
- ③ Can be used in all positions - e.g. vertical, suspended, horizontal

TECHNICAL FEATURES

- Body made of high-strength, hard-coated aluminum
- Pinion shaft and rack made of hardened steel
- End position can be infinitely variably adjusted $\pm 3^\circ$ or $\pm 90^\circ$
- Optional inductive and magnetic position sensors
- Up to 8-fold fluid feeder
- Up to 9-fold cable feed-through



C40
RSP-Flex 52, air operated

	RSP52-Flex-90-J3	RSP52-Flex-180-J3	RSP52-Flex-180-J90	RSP52-Flex-180-J3-MV
RSP-Flex Basic unit	174048	174049	174050	174051
RSP-Flex + fluid feed-through*	174054	174055	174056	174057
RSP-Flex + fluid feed-through* + cable feedthrough**	174060	174061	174062	174063
RSP-Flex + fluid feed-through* + cable feedthrough** + proximity switch adapter***	174066	174067	174068	174069
Pivot angle °	90	180	180	180 + 2x90
End position adjustability °	± 3	± 3	90 ± 3	± 3
Mid-position adjustability °	-	-	-	± 3
Torque at 6 bar Nm	58	58	58	58
Nominal operating pressure (min./max.) bar	6	6	6	6
Operating temperature min./max. °C	5-80	5-80	5-80	5-80
Repeat accuracy °	$\pm 0,01$	$\pm 0,01$	$\pm 0,01$	$\pm 0,01$
Weight kg	10,2	10,2	10,2	13,9
Axial bearing load F_z N	9000	9000	9000	9000
Radial bearing load M_y Nm	340	340	340	340

* number of fluid feed-throughs RSP32=4; RSP42/RSP52=8 (max. 8 bar)

** number of signals=RSP32=8; RSP42/52=10 (24V, max. 1A), plug machine side M16, plug tool side M8

*** number of holders for proximity switches: 3

Accessories RSP-Flex

Magnetic field sensors



Item no.	Design	For
1276722	3m cable, 3 litz wire	all sizes, all types
1276723	0,2m cable, M8x1 connector	all sizes, all types

Proximity switch



Item no.	Design	For
389661	3 m cable, open leads	all sizes, all types
1078808	3m cable, 3 open leads	all sizes, all types
680969	without cable, M8x1 connector	all sizes, all types

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