



CLAMPING TECHNOLOGY VOL. 2

CLAMPING AND LOCATING

destaco.com

VISUAL SELECTION GUIDE

MARKETS



AEROSPACE



CONSUMER GOODS



FOOD & PACKAGING



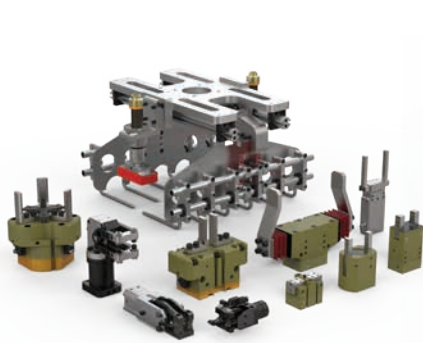
INDUSTRIAL



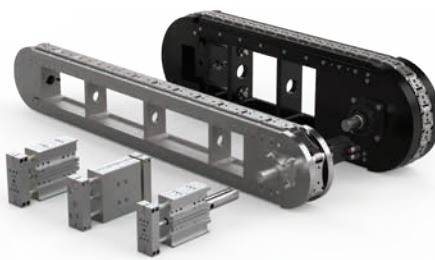
TRANSPORTATION

ABOUT DESTACO

Built on a Strong Foundation



Gripping Solutions



Linear Positioning Solutions



Rotary Positioning Solutions



Clamping Solutions



CRL Remote Handling Solutions



Robotic Tooling Solutions

DESTACO, a Stabilus Group company, is a global leader in the design and manufacture of high-performance automation, workholding and remote-handling solutions. The company serves customers in a variety of end-markets, including the automotive, life sciences, consumer packaged goods, aerospace, industrial and nuclear sectors.

Built on a legacy of more than 100 years, DESTACO offers a comprehensive portfolio of products designed to engineer precise movement, placement and control solutions that drive productivity and uptime for manufacturers around the world. The DESTACO family of products consists of industry-leading brands such as DESTACO Manual Clamps, Power Clamps, and End Effectors; CAMCO™ and Ferguson™ Indexers; Robohand™ Grippers; and CRL™ Manipulators and Transfer Ports.

DESTACO is based in Auburn Hills, Michigan, U.S.A. The company has more than 800 employees with 13 locations, in 9 countries, across the Americas, Europe and Asia.

Stabilus is one of the world's leading providers of motion control solutions for customers across a broad spectrum of industries including mobility, industrial machinery, automation, energy, construction, health, recreation, and furniture. Stabilus offers reliable and innovative solutions that enable, enhance and automate precise movement, placement, as well as opening, closing, lifting, lowering and adjusting actions. The Group, which has its headquarters in Koblenz, has a global production and distribution network with more than eight thousand employees worldwide and generated revenues of €1.3 billion in the 2024 fiscal year. Stabilus SE is listed in the Prime Standard segment of the Frankfurt Stock Exchange and included in the MDAX index.

More information is available at destaco.com and group.stabilus.com

Focusing all our Resources

New Product Development

DESTACO has dedicated resources to design and build the next generation of products and solutions

Customer Service and Technical Support

DESTACO has industry leading global support to address any product and application concerns you may have

Design Tools

DESTACO provides an extensive CAD library, sizing software, and online tools to support our global customers



Our Insight Working for You

Application Engineering

We utilize our expertise and complete portfolio of products to create solutions that fit our customers' needs and applications



Pneumatic Power Clamps, Pin Clamps and Packages

Clamp with Confidence

Markets



Transportation



Aerospace



Food & Packaging



Industrial



Consumer Goods

Applications



Assembly



Welding



Fixture and Testing



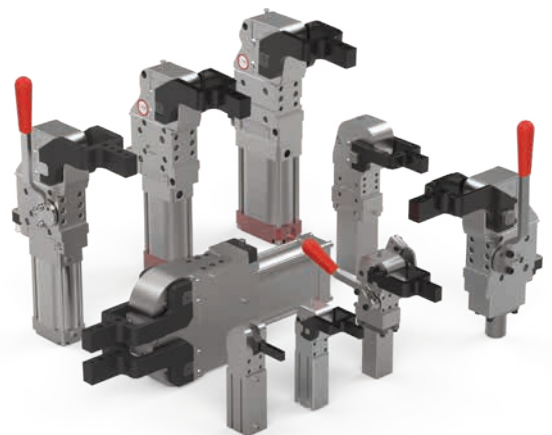
White Goods/
Appliance



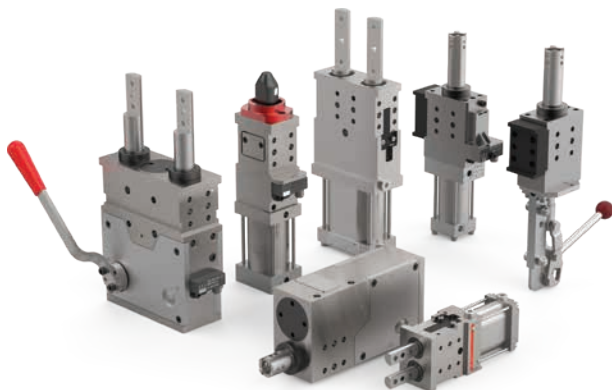
CNC/Machining



Electric Products



Pneumatic Power Clamps



Pneumatic Pin Clamps and Packages



Pneumatic Pivot Units



Electric Body-in-White Solutions

PNEUMATIC CLAMPING SOLUTIONS

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Pin Packages 47



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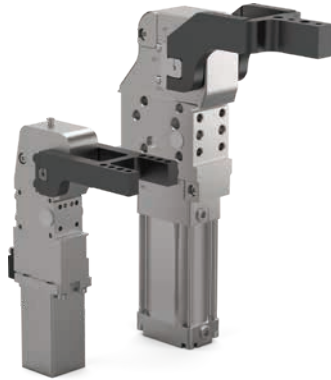
FEATURED NEW PRODUCTS

82L-3E /82M-3E Power Clamps

Adjustable Light and Heavyweight Enclosed Power Clamps

- Field adjustable arm opening angle
- Enclosed aluminum body
- Optional U-Arms and lateral arms available

See Pages 18 & 22



Electric Body-in-White Solutions

Evolution in Productivity

- Complete Body-in-White Product Portfolio
- Smart & Economy Line
- Plug & Play solution - fast start up
- Integrated position & hold down control

See Page 10



TCC Series

Tolerance Compensation Heavyweight Enclosed Power Clamps

- Tolerance compensation
- Field adjustable arm opening angle
- Enclosed aluminum body
- Optional U-Arms and lateral arms available

See Pages 24

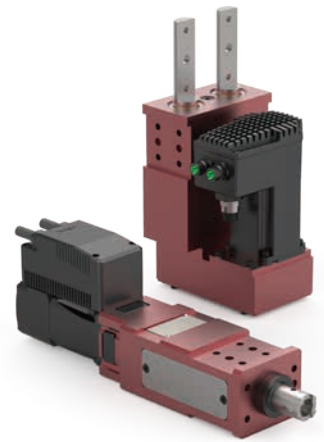


96W Series

Single and Dual Shaft Electric Pin Packages

- One size fits all
- Up-to-60 mm strokes
- Two control and drive options available
- Straight or redirected motor configurations
- Integrated sensing

See Pages 12 & 13



85P50-1800 Series

Tolerance Compensation Centering Pin Clamp

- Tolerance compensation
- Self-locking mechanism in clamping position
- Variety of pins and hook sizes
- Integrated sensing
- Enclosed aluminum body

See Pages 44



84A40/50 Series

Dual-Arm Tolerance Compensation Clamps

- Tolerance compensation
- 90° clamp arm motion
- Multiple clamp arm options
- High clamping force, compact size
- Enclosed aluminum body

See Page 36



RCM/RFM Series

Pneumatic Pivot Units

- Field adjustable opening angle
- Integrated (SBI) Lock System (RFM Series)
- Fixed inductive sensor
- Four cylinder bore sizes, one cylinder length
- Pneumo-hydraulic motion control

See Page 56



86P30-5 Series

Single Pin Packages

- Available with 20 mm or 40 mm strokes
- Compact design with lateral and front-face mounting areas
- Enclosed aluminum body

See Page 47



PNEUMATIC & ELECTRIC POWER CLAMPS

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Sizing and Application Chart



Pneumatic



Electric



Series	Page-#	Holding Torque at 5 bar Nm [ft-lb]					Clamping Torque at 5 bar Nm [ft-lb]					Piston Diameter mm [in]						
		0 to 100 [0 to 74]	100 to 500 [74 to 369]	500 to 1000 [369 to 738]	1000 to 2000 [738 to 1475]	2000 to 4000 [1475 to 2950]	0 to 100 [0 to 74]	100 to 500 [74 to 369]	500 to 1000 [369 to 738]	1000 to 2000 [738 to 1475]	2000 to 4000 [1475 to 2950]	Less than 25 [0.98]	25 [0.98]	32 [1.26]	40 [1.57]	50 [1.97]	63 [2.48]	80 [3.15]
92W	10		●				●	●										
81L-1	16	●					●				●							
82L-4	17	●					●				●	●						
82L-3E	18	●	●				●	●					●	●	●			
82M-3	22		●		●	●		●	●						●	●	●	●
TCC-2	24	●	●				●	●							●	●	●	
52H-3	26				●													
870/871	32		●				●								●			
860/861	33			●				●								●		
890/891	33				●			●									●	
1000/1001	33					●			●								●	●
82D	34		●				●	●							●		●	
84A	36	●	●				●	●							●	●		

PNEUMATIC & ELECTRIC POWER CLAMPS

Sizing and Application Chart

Material		Weight Kg [lbs]	Air consumption per double stroke at 5 bar [72 psi] dm³ [in³]					Suitable Application Areas										Features								
Aluminum	Steel	Electric	Pneumatic	0 to 2 [0 to 4.41]	2 to 4 [4.41 to 8.82]	4 to 6 [8.82 to 13.23]	6 to 8 [13.23 to 17.64]	More than 8 [17.64]	0 to 0,5 [0 to 31]	0,5 to 1,0 [31 to 61]	1,0 to 2,0 [61 to 122]	More than 2,0 [122]	Welding	Assembly	Dirty Environment	End Effectors	Machining	Duty Cycle	Adjustable Opening Angle	Inductive Sensors Available	Dual Arms	Tolerance Compensating	Manual Version Available	Center Arm	Lateral Arms	Toggle Locking
●		●		●									●	●	●	●	●	●	✓	✓		✓		✓	✓	✓
●			●	●				●					✗	●	○	●	●	○						✓		✓
●			●	●				●					○	●	●	●	●	●	✓	✓			✓	✓	✓	✓
●			●	●	●			●	●	●			●	●	●	●	●	●	✓	✓				✓	✓	✓
●			●	●	●	●		●	●	●	●		●	●	●	●	●	●	✓	✓			✓	✓	✓	✓
●			●	●	●				●	●	●		●	●	●	●	●	●	✓	✓		✓		✓	✓	✓
●			●	●	●								●	●	●	●	●	●	✓	✓			✓	✓	✓	✓
	●		●		●					●			✗	●	○	●	●	●						✓		✓
	●		●		●						●		✗	●	○	●	●	●						✓		✓
	●		●				●				●		✗	●	○	●	●	●						✓		✓
	●		●					●			●		✗	●	○	●	●	●						✓		✓
●			●	●	●						●		●	●	●	○	●	●		✓	✓					✓
●			●					●	●	●			●	●	●	●	●	●		✓	✓	✓		✓		

● Excellent/High ○ Fair/Medium ● Poor/Low ✗ Not Recommended

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Pneumatic Electric



		Technical Specifications										Performance & Applications								
		Stroke mm [in]	Lifting Force N [lbf]		Holding Force N [lbf]		Power		Weight Kg [lb]	Air Consumption per Double Stroke at 5 bar [72 psi] dm³ [in³]		Applications								
Series	Page #	20 [0.79]			0 to 500 [0 to 112.4]	500 to 1000 [0 to 112.4]	0 to 1000 [0 to 899]	1000 to 4000 [0 to 899]	Electric	Pneumatic	7,3 to 9,1 [16 to 20]	13,2 [29,1]	0,7 [42,7]	1,1 [67]	Welding	Assembly	Dirty Environment	End Effectors	Machining	Duty Cycle
	95W-1	11		●		●	●		●		●				○	○	○	⊗	○	○
	VV85G-15020	37	●		●			●		●		●	●		○	○	○	⊗	○	○
	VV85G-15040	37		●	●			●	●		●		●	●	○	○	○	⊗	○	○

PNEUMATIC PIN CLAMPS



Series	Page #	Clamping Torque at 5 bar [72 psi] N [lbf]		Piston Ø mm [in]	Material	Weight Kg [lb]	Air Consumption per Double Stroke at 6 bar [87 psi] dm³ [in³]	Applications										Features										
		0 to 1000 [0 to 225]	1000 to 2000 [225 to 450]					2000 to 4000 [450 to 899]	25 [0.98]	30 [1.18]	35 [1.38]	50 [1.97]	63 [2.48]	Aluminum	Steel	0 to 2 [0 to 4.41]	2 to 4 [4.41 to 8.82]	0 to 0.5 [0 to 31]	0.5 to 1,0 [31 to 61]	1,0 to 2,0 [61 to 122]	Welding	Assembly	Dirty Environment	End Effectors	Machining	Duty Cycle	Tolerance Compensating	Inductive Sensors
82P25-2	38	●		●				●		●			●			○	●	○	●	●	●	●		✓		✓	✓	
82P30-3	39		●		●				●		●		●			○	●	○	●	●	●	●		✓	✓	✓	✓	
82P35-3	39		●			●				●		●		●		○	●	○	●	●	●	●		✓	✓	✓	✓	
82P50-720	40		●			●		●			●		●			●	●	●	●	●	●	●	✓	✓		✓		✓
82P63-720	40		●				●	●			●		●			●	●	●	●	●	●	●	✓	✓		✓		✓
82P50-1732	42	●				●			●		●		●			●	●	●	●	●	●	●	✓	✓		✓		✓
82P50-1800	44	●				●		●		●		●		●		●	●	●	●	●	●	●	✓	✓	✓	✓		✓
82U50-3	46		●			●			●				●		●	○	●	○	○	●	●	●		✓			✓	



DESTACO
A STABILUS COMPANY

PNEUMATIC & ELECTRIC PIN PACKAGES

Sizing and Application Chart



Pneumatic



Electric



Series	Page #	Pushing Force at 5 bar [72 psi] N [lbf]					Retracting Force at 5 bar [72 psi] N [lbf]					Piston Ø mm [in]	Stroke mm [in]	Weight Kg [lb]	Applica- tions	Features
		0 to 500 [0 to 112]	500 to 1000 [112 to 225]	1000 to 2000 [225 to 450]	2000 to 3000 [450 to 674]	3000 to 4000 [674 to 899]	0 to 500 [0 to 112]	500 to 1000 [112 to 225]	1000 to 2000 [225 to 450]	2000 to 3000 [450 to 674]	3000 to 4000 [674 to 899]					
96W-1	12	●						●				●	20 [0.79]			Welding
86P30-5	47	●										●	40 [1.57]	●	●	Assembly
86P40-2	48	●						●				●	60 [2.36]	●	●	Machining
86P60-2	48		●						●			●	80 [3.15]	●	●	Duty Cycle
56H40-2	50											●	40 [1.57]	●	●	Single Shaft
85P5-1	52		●					●				●		●	●	Dual Shaft
85D5-2	53					●			●			●		●	●	Ceramic Coated Pin
86D40-1	54	●						●				●	20 [0.79]	●	●	Locking (Extended)
86D60-1	54		●						●			●	40 [1.57]	●	●	
56D60-1	55											●	60 [2.36]	●	●	

● Excellent/High ○ Fair/Medium ● Poor/Low ⊗ Not Recommended

PNEUMATIC & ELECTRIC PIVOT UNITS



Pneumatic



Electric



Series	Page #	Maximum Torque at 5 bar [72 psi] Opening Angles Nm [lb-ft]					Cylinder Ø mm [in]	Power	Opening Angle°	Weight Kg [lb]	Applications	Features
		≤ 92°	>90° to ≤ 121°	> 121°								
98W	14	●*									Welding	Locking
RCM100	56	●									Fixture/Testing	
RCM125	56	●									Food and Packaging	
RCM160	56	●									Duty Cycle	
RCM200	56	●									Infinite Adj. Opening Angle	
RFM100	56	●									Adjustable Opening Angle	
RFM125	56	●									Sensors	
RFM160	56	●									Brake	
RFM200	56	●										

*Max. Torque at 400 VAC

● Excellent/High ○ Fair/Medium ● Poor/Low ⊗ Not Recommended

92W-1

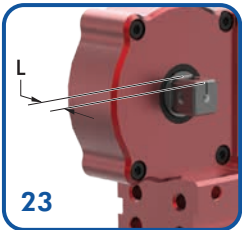
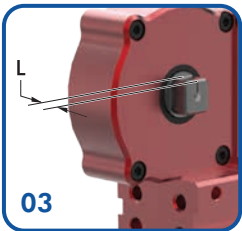
Enclosed Electric Power Clamps | Smart Clamp | How to Order

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92W-1 23 00 02 02

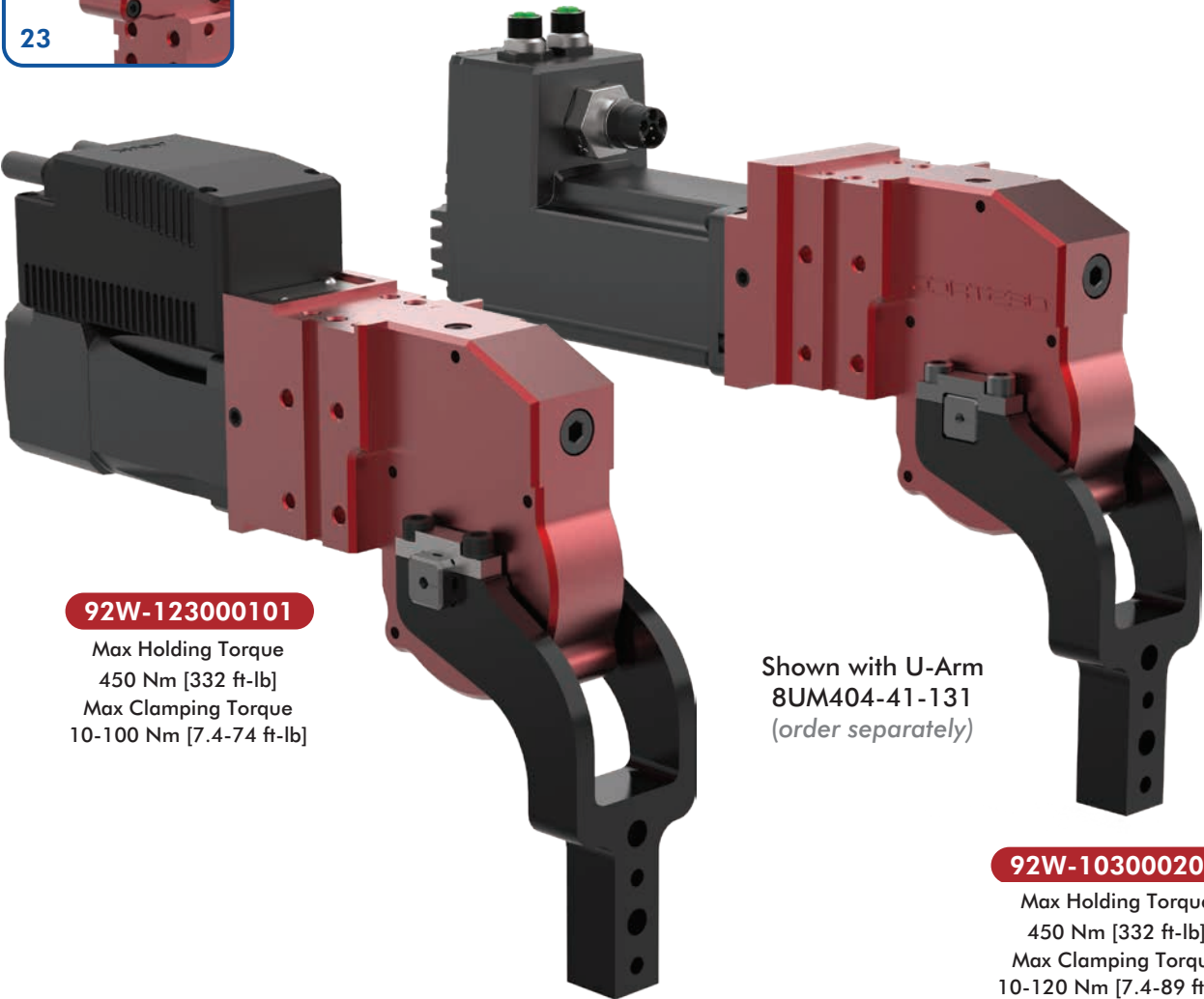
Clamp Arm Shaft **Shaft Length (L)**
03 10 mm [0.39 in]
23 16 mm [0.63 in]



Body Style
for 400 V Motor Option 01 only
01 Compact Clamp Design
for 48 V Motor Option 02 only
02 Compact Clamp Design



Motor
for Body Style Option 01 only
01 Servo Drive, Decentral 400 V
for Body Style Option 02 only
02 Servo Drive, Decentral 48 V



92W-123000101

Max Holding Torque
450 Nm [332 ft-lb]
Max Clamping Torque
10-100 Nm [7.4-74 ft-lb]

Shown with U-Arm
8UM404-41-131
(order separately)

92W-103000202

Max Holding Torque
450 Nm [332 ft-lb]
Max Clamping Torque
10-120 Nm [7.4-89 ft-lb]



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95W-1

Electric Guide/Lifter | Smart Slide | How to Order

95W-1 01 02 10 60

Motor Connection	Description
00	Straight, without Drive
01	Straight, Rear Connections
02	Straight, Connections on Right
03	Straight, Connections on Left
10	Redirected, without Drive
11	Redirected, Rear Connections
12	Redirected, Connections on Right
13	Redirected, Connections on Left

Motor	Description
01	Servo Drive, Decentral 400 V
02	Servo Drive, Decentral 48 V

Stroke	Description
60	0-60 mm Stroke, Standard

Mounting Plate	Description
10	Mounting Plate, Standard

60

01

02

10

95W-111021060

Max Lifting/Holding Force
1000 N [225 lbf]

95W-101011060

Max Lifting/Holding Force
1000 N [225 lbf]

96W-1 [SINGLE SHAFT]

Electric Pin Package | Smart Pin Package | How to Order

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Motor Connection

Motor Connection	Description
00	Straight, without Drive
01	Straight, Rear Connections
02	Straight, Connections on Right
03	Straight, Connections on Left
10	Redirected, without Drive
11	Redirected, Rear Connections
12	Redirected, Connections on Right
13	Redirected, Connections on Left

Stroke

Stroke	Description
40*	0-40 mm Stroke
60	0-60 mm Stroke

*Straight motor option only.

Motor

Motor	Description
01	Servo Drive, Decentral 400 V
02	Servo Drive, Decentral 48 V

Piston Rod

Piston Rod	Description
02*	Ø16 mm Cross Groove (*with M6 Threaded Inside Hole for Redirected Motor Connections 10, 11, 12, 13)
04	NAAMS Standard
A4	NAAMS Standard Rotated 180°
B4	NAAMS Standard Rotated 90°
C4	NAAMS Standard Rotated 270°
05	Ø10 mm Inside Hole, Cross Groove



00



01



02



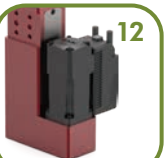
03



10



11



12



13



40



60



02



04



A4



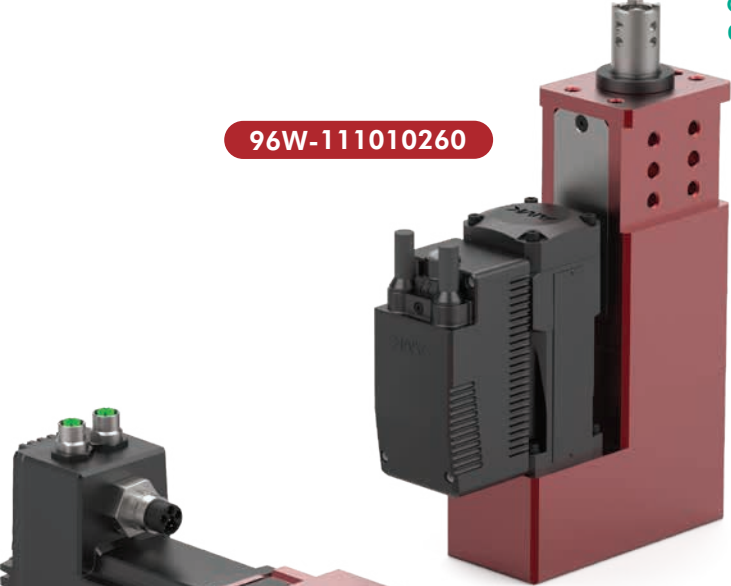
B4



C4



05



96W-111010260



96W-10102A460



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96W-1 [DUAL SHAFT]

Electric Pin Package | Smart Pin Package | How to Order

96W-1 **01** **02** **10** **60**

Stroke
60

Description
0-60 mm Stroke

Motor Connection

Motor Connection	Description
00	Straight, without Drive
01	Straight, Rear Connections
02	Straight, Connections on Right
03	Straight, Connections on Left
10	Redirected, without Drive
11	Redirected, Rear Connections
12*	Redirected, Connections on Right
13*	Redirected, Connections on Left

*Excludes 01 400 V motor option.

Motor

Motor	Description
01	Servo Drive, Decentral 400 V
02	Servo Drive, Decentral 48 V

Piston Rod

Piston Rod	Description
10	NAAMS Standard
20	NAAMS Standard Rotated 180°

96W-111012060

96W-101021060

98W03-2

Electric Pivot Unit | Ordering Information

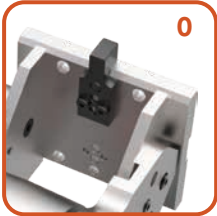
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98W03 - 210 - C - 0 - 00 - 0

Motor	Drive Motor w/Brake
210	SEW 400 V for MOVIPRO
220	HEIDRIVE Servo Drive, Decentral 48 V
260	AMK Decentral 400 V
270	LENZE 400 V
310	SEW 400 V for MOVIMOT

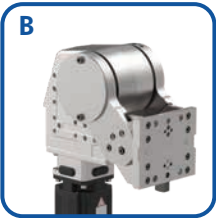
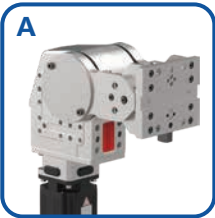
Hard Stop	Description
0	Standard Stop



Motor Connections
0 Facing Back

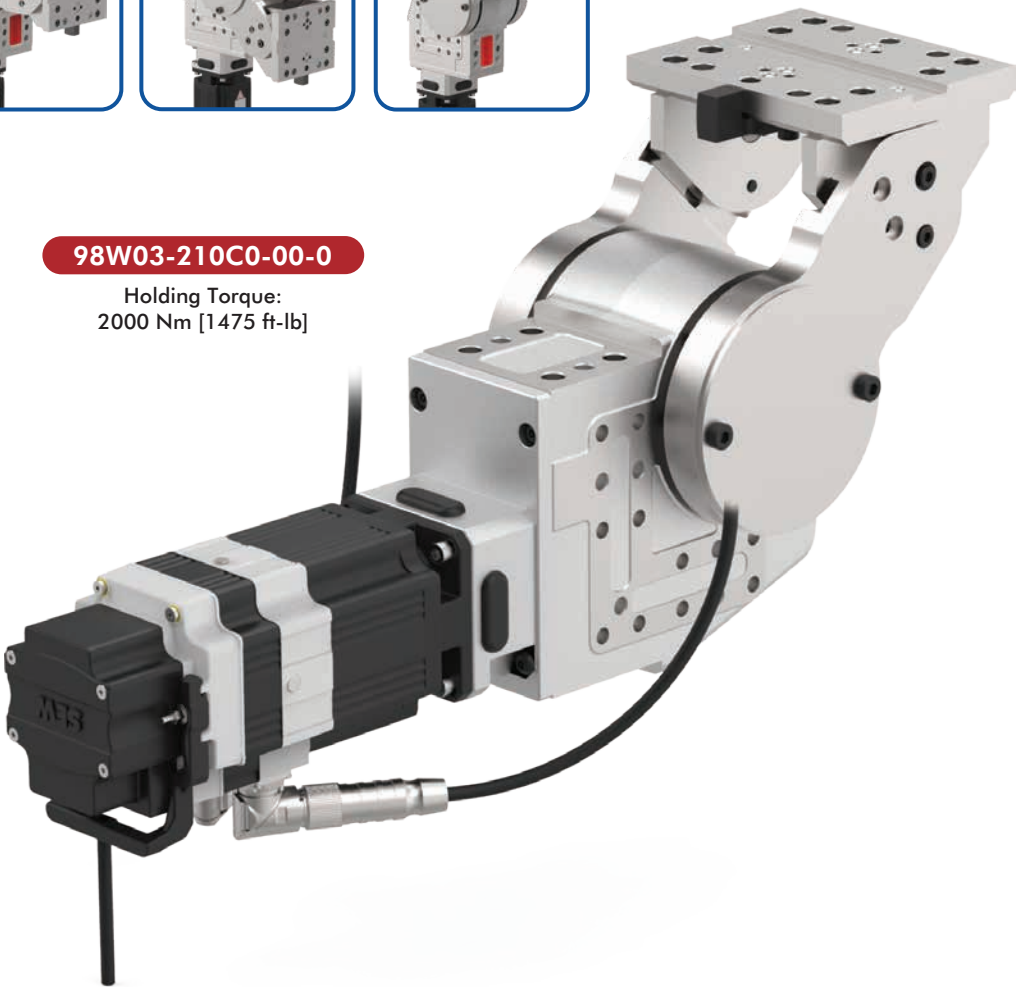


Swivel Arm	Description
A	Center of Pivot Point
B	Below Pivot Point
C	Above Pivot Point



98W03-210C0-00-0

Holding Torque:
2000 Nm [1475 ft-lb]





81L

12-1

01

00

Size	Description	Arm Style	Description	Design	Description
12-1	12 mm Cylinder (M5 Port)	01	Clamping arm, horizontal	00	Standard design
16-1	16 mm Cylinder (M5 Port)	41	Clamping arm, vertical		
20-1	20 mm Cylinder (M5 Port)		See below for further details		
25-1	20 mm Cylinder (M5 Port)				

01

41

12

Max Holding Torque
25 Nm [18.4 ft-lb]
Max Clamping Torque
4,5 Nm [3.3 ft-lb]
at 5 bar [72 psi]

16

Max Holding Torque
60 Nm [44.3 ft-lb]
Max Clamping Torque
7 Nm [5.2 ft-lb]
at 5 bar [72 psi]

20

Max Holding Torque
100 Nm [73.8 ft-lb]
Max Clamping Torque
18 Nm [13.3 ft-lb]
at 5 bar [72 psi]

25

Max Holding Torque
100 Nm [73.8 ft-lb]
Max Clamping Torque
18 Nm [13.3 ft-lb]
at 5 bar [72 psi]

Accessories/Replacement Parts

Model	Seal Kits	Order No.	Description (order separately)
81L12-1....	81L12-1-00	8EA-109-1	Sensor, 3-wire cable, M8x1 connector, 3-pin
81L16-1....	81L16-1-00	82ZB-004-1	Adapter for mounting 81L20-1, 81L25-1 to 25mm dia. bar
81L20-1....	81L20-1-00		
81L25-1....	81L20-1-00		



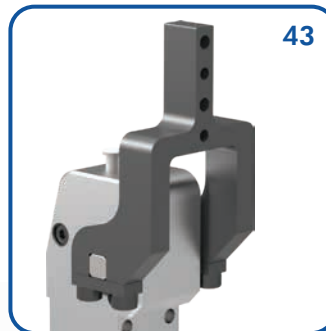
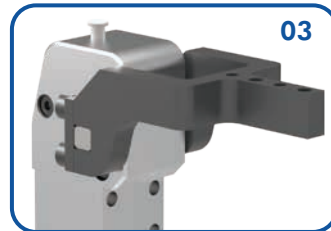
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82L

Enclosed Pneumatic Power Clamps | Miniature

82L**16-4****03****0**

Size	Description	Arm Style	Description	Opening Angle	Description
12-4	12 mm Cylinder (M5 Port)	00	No clamping arm	0	105° (Standard)
16-4	16 mm Cylinder (M5 Port)	03	U-bar, central 90°	3	90°
20-4	20 mm Cylinder (M5 Port)	43	U-bar, central 180°	4	75°
25-4	25 mm Cylinder (M5 Port)	See below for further details		5	60°



Opening Angle	Description
0	105° (Standard)
3	90°
4	75°
5	60°
6	45°
7	30°
8	15°



Model	Order No. for Arm
82L12-4...	8JG-401-1-01
82L16-4...	8JG-402-1-01
82L20-4...	8JG-403-1-01
82L25-4...	8JG-404-1-01



	12	16	20	25
	Max Holding Torque 35 Nm [25.8 ft-lb] Max Clamping Torque 90° version: 10,4 Nm [7.7 ft-lb] 180° version: 8,7 Nm [6.4 ft-lb] at 5 bar [72 psi]	Max Holding Torque 40 Nm [29.5 ft-lb] Max Clamping Torque 12,4 Nm [9.1 ft-lb] 11 Nm [8.1 ft-lb] at 5 bar [72 psi]	Max Holding Torque 50 Nm [36.9 ft-lb] Max Clamping Torque 21 Nm [15.5 ft-lb] 19,3 Nm [14.2 ft-lb] at 5 bar [72 psi]	Max Holding Torque 80 Nm [59.0 ft-lb] Max Clamping Torque 31,8 Nm [23.4 ft-lb] 28,5 Nm [21.0 ft-lb] at 5 bar [72 psi]

Accessories

Order No.	Description (order separately)
8EA-109-1	Sensor, 3-wire cable, M8x1 connector, 3-pin
82ZB-004-1	Adapter for mounting 82L20-4, 82L25-4 to 25mm dia. bar

82L-3E

Enclosed Pneumatic Power Clamps | Lightweight Modular

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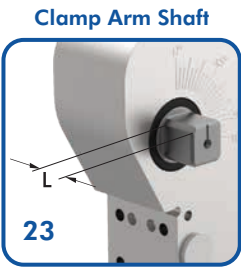
82L-3E 23 H0 40 B7

Clamp Arm Shaft
23
Description
for Arms
See below for further details

Hand Lever
00 No Hand lever
H0 Red Hand lever
HG Green Hand lever
See below for further details



Cylinder (Standard)
25 25 mm Cylinder (G1/8 Port)
2N 25 mm Cylinder (1/8-18 NPT Port)
32 32 mm Cylinder (G1/8 Port)
3N 32 mm Cylinder (1/8-18 NPT Port)
40 40 mm Cylinder (G1/4 Port)
4N 40 mm Cylinder (1/4-18 NPT Port)

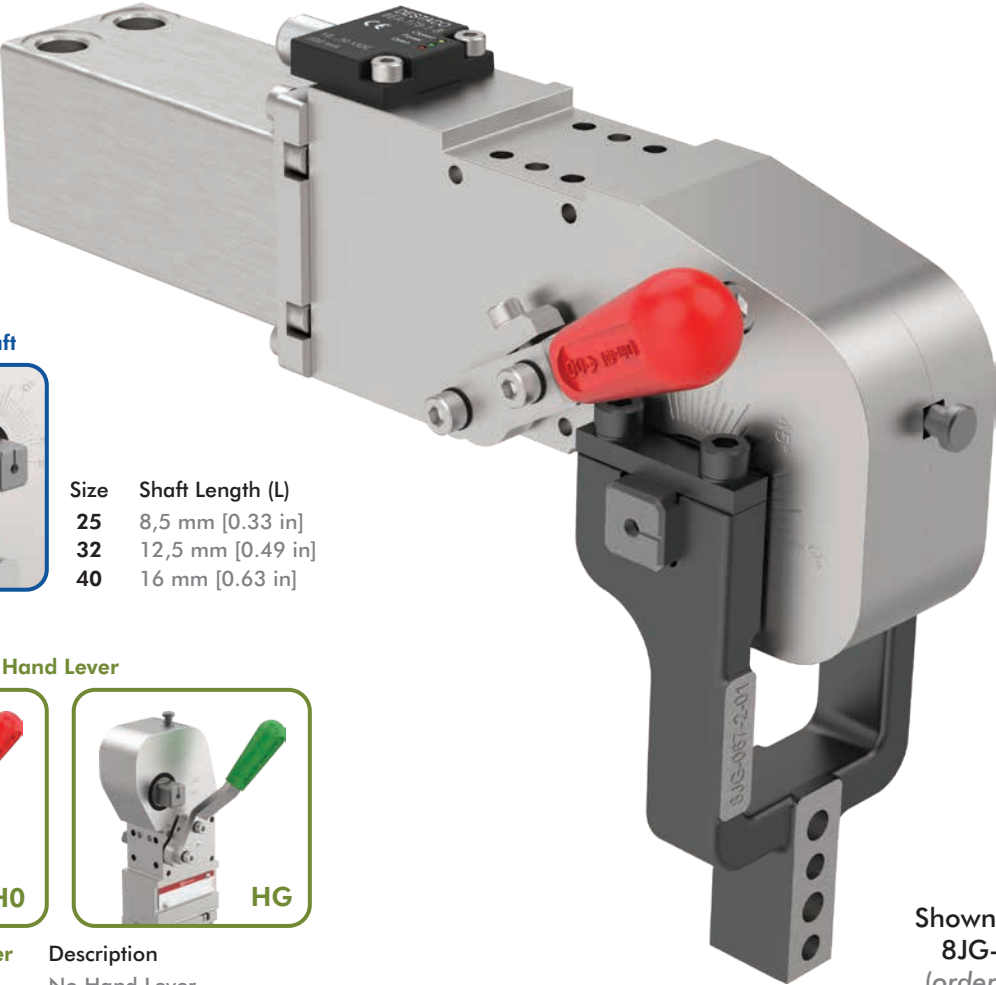


Size **Shaft Length (L)**
25 8,5 mm [0.33 in]
32 12,5 mm [0.49 in]
40 16 mm [0.63 in]

Hand Lever



Hand Lever
00 No Hand Lever
H0 Red Hand Lever
HG Green Hand Lever



Shown with U-Arm
8JG-067-2-01
(order separately)



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82L-3E

Enclosed Pneumatic Power Clamps | Lightweight Modular

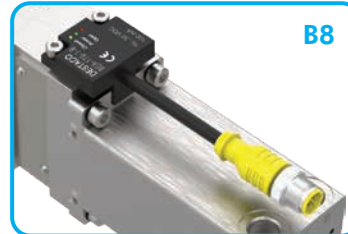
Sensor	Description
00	Without Sensing System
C8	Inductive Sensing System with In-Line M8x1 Connector (Size 25: 8EA-174-1-B, Size 32/40: 8EA-177-1-B)
B7	Inductive Sensing System with In-Line M12x1 Connector (Size 25: 8EA-175-1-B, Size 32/40: 8EA-178-1-B)
B8	Inductive Sensing System with M12x1 Connector with Cable (Size 25: 8EA-176-1-B, Size 32/40: 8EA-179-1-B)



C8



B7



B8



25/N

Max Holding Torque
75 Nm [55 ft-lb]
Max Clamping Torque
25 Nm [18 ft-lb]
at 5 bar [72 psi]

32/N

Max Holding Torque
180 Nm [133 ft-lb]
Max Clamping Torque
55 Nm [41 ft-lb]
at 5 bar [72 psi]

40/N

Max Holding Torque
380 Nm [280 ft-lb]
Max Clamping Torque
120 Nm [89 ft-lb]
at 5 bar [72 psi]

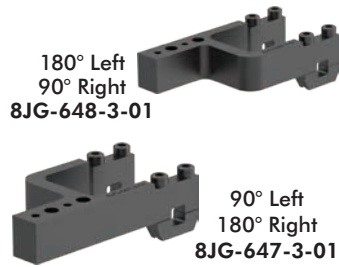
82L-3E ACCESSORIES

Enclosed Pneumatic Power Clamps | Lightweight Modular

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U-Type Offset Clamping Arms



Model	Order No. (1 clamp arm)
82L-3E....2.	8JG-647-3-01
82L-3E....2.	8JG-648-3-01

U-Type Central Clamping Arms



Model	Order No. (1 clamp arm)
82L-3E....2.	8JG-075-3-01
82L-3E....3.	8JG-065-2-01
82L-3E....4.	8JG-067-2-01

H- Clamping Arms



Model	Order No. (1 clamp arm)
82L-3E....3.	8JG-363-1-01
82L-3E....4.	8JG-364-1-01

Lateral Clamping Arms



Model	Order No. (1 clamp arm)
82L-3E....3.	8JG-066-1-01
82L-3E....4.	8JG-068-1-01

Counter-Support



Order No.	Fit for Model
BK-R25-82L25-1	82L-3E....2.
BK-R25-82L32-1	82L-3E....3.
BK-R25-82L40-1	82L-3E....4.

Hold Open Device



Order No.	Fit for Model
82ZB-036-1	82L-3E....2.
82ZB-037-1	82L-3E....3.
82ZB-038-1	82L-3E....4.



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82L-3E ACCESSORIES

Enclosed Pneumatic Power Clamps | Lightweight Modular

Clamping Arms		Order No. for Set 82L-3E23..2...	Order No. for Set 82L-3E23..3...	Order No. for Set 82L-3E23..4...						
U-Offset 90° Left/180° Right		8JG-647-3-01	--	--						
U-Offset 180° Left/90° Right		8JG-648-3-01	--	--						
U-central		8JG-075-3-01	8JG-065-2-01	8JG-067-2-01						
Lateral		--	8JG-066-1-01	8JG-068-1-01						
H-Shape		--	8JG-363-1-01	8JG-364-1-01						
Sensor Cables (1 Connector Socket & 5 m [16.4 ft] cable)										
Connector Socket M8x1 Straight 4-pin		8EL-009-1	8EL-009-1	8EL-009-1						
Connector Socket M8x1 Angular 4-pin		8EL-007-1	8EL-007-1	8EL-007-1						
Connector Socket M12x1 Straight 5-pin		8EL-002-1	8EL-002-1	8EL-002-1						
Connector Socket M12x1 Angular 4-pin		8EL-003-1	8EL-003-1	8EL-003-1						
Shim for Clamping Arm		Order No.	A1	A2	D2	D3	B9	B10	B12	L10
	82ZB-SH4001	[1.65] 42		[0.004] 0,1						
	82ZB-SH4002			[0.008] 0,2						
	82ZB-SH4005			[0.02] 0,5						
	82ZB-SH4010			[0.04] 1,0						
	82ZB-SH4020			[0.08] 2,0						
	82ZB-SH4050			[0.20] 5,0						
Spare Parts		Order No. for Set		Order No. for Set		Order No. for Set				
		82L-3E23..25..	82L-3E23..2N..	82L-3E23..32..	82L-3E23..3N..	82L-3E23..40..	82L-3E23..4N..			
Cylinder		82L-3E000025	82L-3E00002N	82L-3E000032	82L-3E00003N	82L-3E000040	82L-3E00004N			
Sensor Kit										
C8 Connector Plug, with In-Line M8x1		8EA-174-1-B		8EA-177-1-B						
B7 Connector Plug, with In-Line M12x1		8EA-175-1-B		8EA-178-1-B						
B8 Connector Plug, M12x1 with Cable		8EA-176-1-B		8EA-179-1-B						
Spare Parts		Order No. for Set		Order No. for Set		Order No. for Set				
		82L-3E23H02...	82L-3E23HG2...	82L-3E23H03...	82L-3E23HG3...	82L-3E23H04...	82L-3E23HG4...			
Hand Lever		8KB-031-1	8KB-091-1	8KB-031-1	8KB-091-1	8KB-032-1	8KB-092-1			

82M-3

Enclosed Pneumatic Power Clamps | Heavy-Duty Modular

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82M-3

E

23

H0

50

L8

Mounting	Description
E	Euro Mounting
B	Common Front Mount for Size 40 only (same mount pattern as size 50 & 63)
N	NAAMS Side Mounting for Size 40 & 63 only

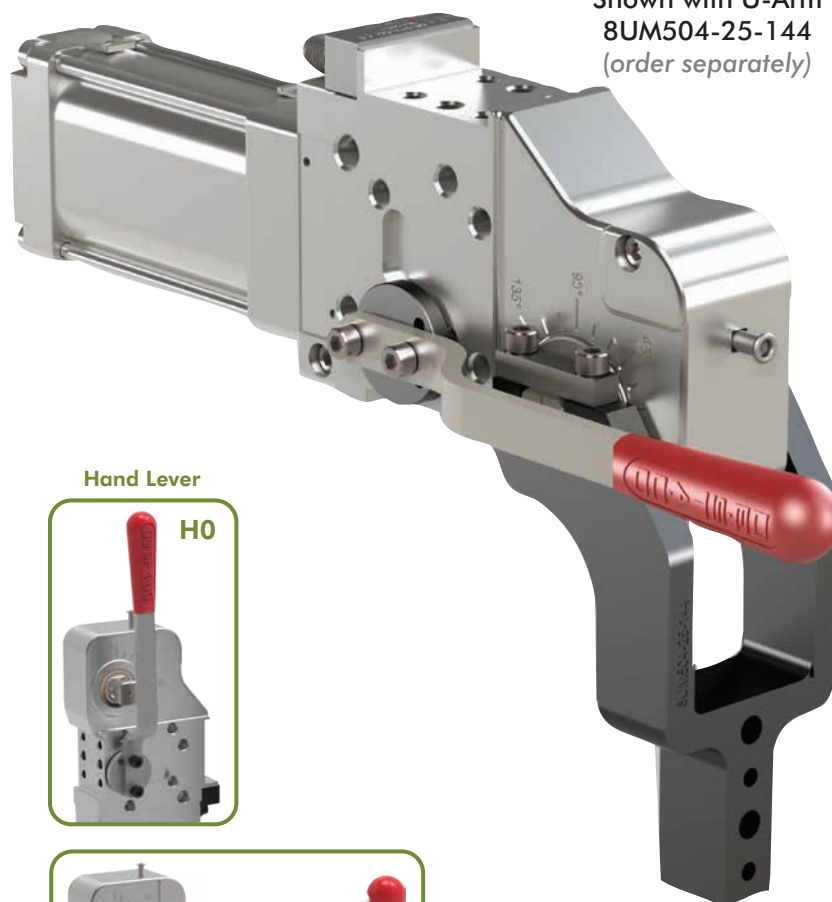
Clamp Arm Shaft	Description
03	for U-Arms
13	for U-Arms (required for 40 NAAMS N only)
23	for Lateral Arms
D0	for Lateral Arms (size 63 NAAMS N only)

Handle	Description
00	No Hand lever
H0	Hand Lever
HS	Weldable

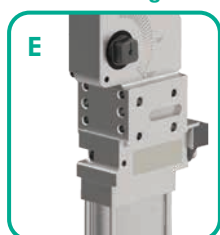
See below for further details

See below for further details

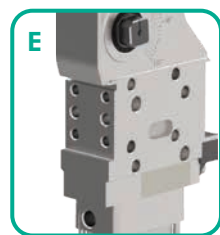
Shown with U-Arm
8UM504-25-144
(order separately)



Mounting



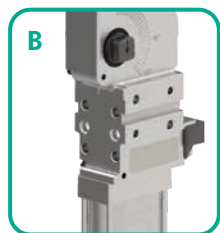
Size 40



Size 50



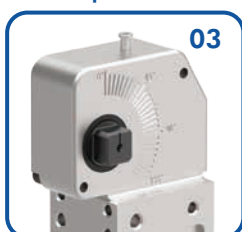
Size 63



Size 40 Only



Clamp Arm Shaft



Size	Shaft Length (L17)
40	9 mm [0.35 in]
50	12 mm [0.47 in]
63	12 mm [0.47 in]



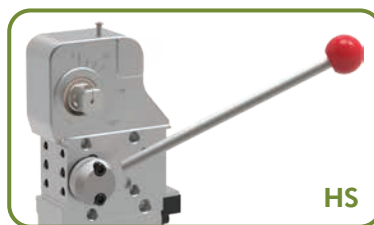
Size	Shaft Length
40	9 mm [0.35 in]



Size	Shaft Length (L17)
40	16 mm [0.63 in]
50	21 mm [0.83 in]
63	21 mm [0.83 in]
80	32 mm [1.26 in]

Size	Shaft Length (L17)
63	26 mm [1.02 in]

Hand Lever



Hand Lever	Description
00	No Hand Lever
H0	Standard Hand Lever (not compatible with cylinder options *A, *B)
HS	Weldable Hand Lever (not compatible with cylinder options *A, *B)

Replacement Hand Levers	Order No.
Standard	
82M-3E..H040..	8KB-097-1
82M-3E..H05...	8KB-098-1
82M-3E..H06..	8KB-099-1
82M-3E..H08..	8KB-100-1
Weldable	
82M-3E..HS40..	8KB-101-1
82M-3E..HS5...	8KB-102-1
82M-3E..HS6..	8KB-103-1
82M-3E..HS8..	8KB-104-1



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82M-3

Enclosed Pneumatic Power Clamps | Heavy-Duty Modular

Sensor	Description
00	Without Sensing System
L8	PNP Sensor with In-line M12x1 Connector (8EA-146-4-B)
N8	NPN Sensor with In-line M12x1 Connector (8EA-154-4-B)
L9	PNP Sensor with 90° M12x1 Connector (8EA-147-4-B)
N9	NPN Sensor with 90° M12x1 Connector (8EA-155-4-B)
K8	PNP Sensor with M12x1 Cable Connector (8EA-158-4-B)
K9	NPN Sensor with M12x1 Cable Connector (8EA-167-4-B)

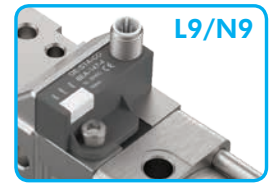
See page 29 for replacement sensor kits and components.

Sensor Cables Order separately

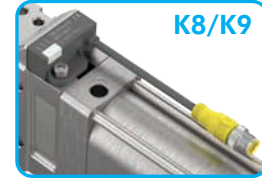
Order No.	Description
8EL-002-1	M12x1, Straight, 5-pin Connector with 5 m [16 ft] Cable
8EL-003-1	M12x1, Angular, 4-pin Connector with 5 m [16 ft] Cable



L8/N8



L9/N9



K8/K9



Cylinder - Standard

40	40 mm Cylinder (G1/8 Port)
50	50 mm Cylinder (G1/4 Port)
5N	50 mm Cylinder (1/4-18 NPT Port)
63	63 mm Cylinder (G1/4 Port)
6N	63 mm Cylinder (1/4-18 NPT Port)
80	80 mm Cylinder (G1/4 Port)
8N	80 mm Cylinder (1/4-18 NPT Port)



Cylinder with Internal Hold Open Device

4A	40 mm Cylinder (G1/8 Port)
5A	50 mm Cylinder (G1/4 Port)
5B	50 mm Cylinder (1/4-18 NPT Port)
6A	63 mm Cylinder (G1/4 Port)
6B	63 mm Cylinder (1/4-18 NPT Port)
8A	80 mm Cylinder (G1/4 Port)
8B	80 mm Cylinder (1/4-18 NPT Port)

Locking Device for Hand Lever



Order No.	For Model
82ZB-162-1	82M-3E..H040..
82ZB-084-1	82M-3E..H05...
82ZB-039-1	82M-3E..H06...

Anti-Raming Device



Order No.	For Model
8AB-151-1	82M-3E....40..
8AB-152-1	82M-3E....5...
8AB-153-1	82M-3E....6...
8AB-154-1	82M-3E....8...

For models 82M-3E.....00
and 82M-3E.....L8 only.

Counter Support



Order No.	For Model
82ZB-190-1	82M-3N13..40..



40

Max Holding Torque
380 Nm [280 ft-lb]
Max Clamping Torque
120 Nm [89 ft-lb]
at 5 bar [72 psi]

50

Max Holding Torque
1300 Nm [959 ft-lb]
Max Clamping Torque
270 Nm [199 ft-lb]
at 5 bar [72 psi]

63

Max Holding Torque
1800 Nm [1328 ft-lb]
Max Clamping Torque
420 Nm [310 ft-lb]
at 5 bar [72 psi]

80

Max Holding Torque
3000 Nm [2213 ft-lb]
Max Clamping Torque
850 Nm [627 ft-lb]
at 5 bar [72 psi]

TCC-2

Enclosed Pneumatic Power Clamps | Heavy-Duty, Tolerance Compensation

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TCC-2

E

03

00

6A

L8

Mounting

E

Description

Euro Mounting

B

Common Front Mount for Size 40 only
(same mount pattern as size 50 & 63)

N

NAAMS Side Mounting for Size 63 only

Clamp Arm Shaft

03

23

See below for further details

Description

for U-Arms

for Lateral Arms

Handle

00

Description

No Hand lever

Mounting

E

Size 40

E

Size 50

E

Size 63

B

Size 40 Only

N

Size 63 Only

Clamp Arm Shaft

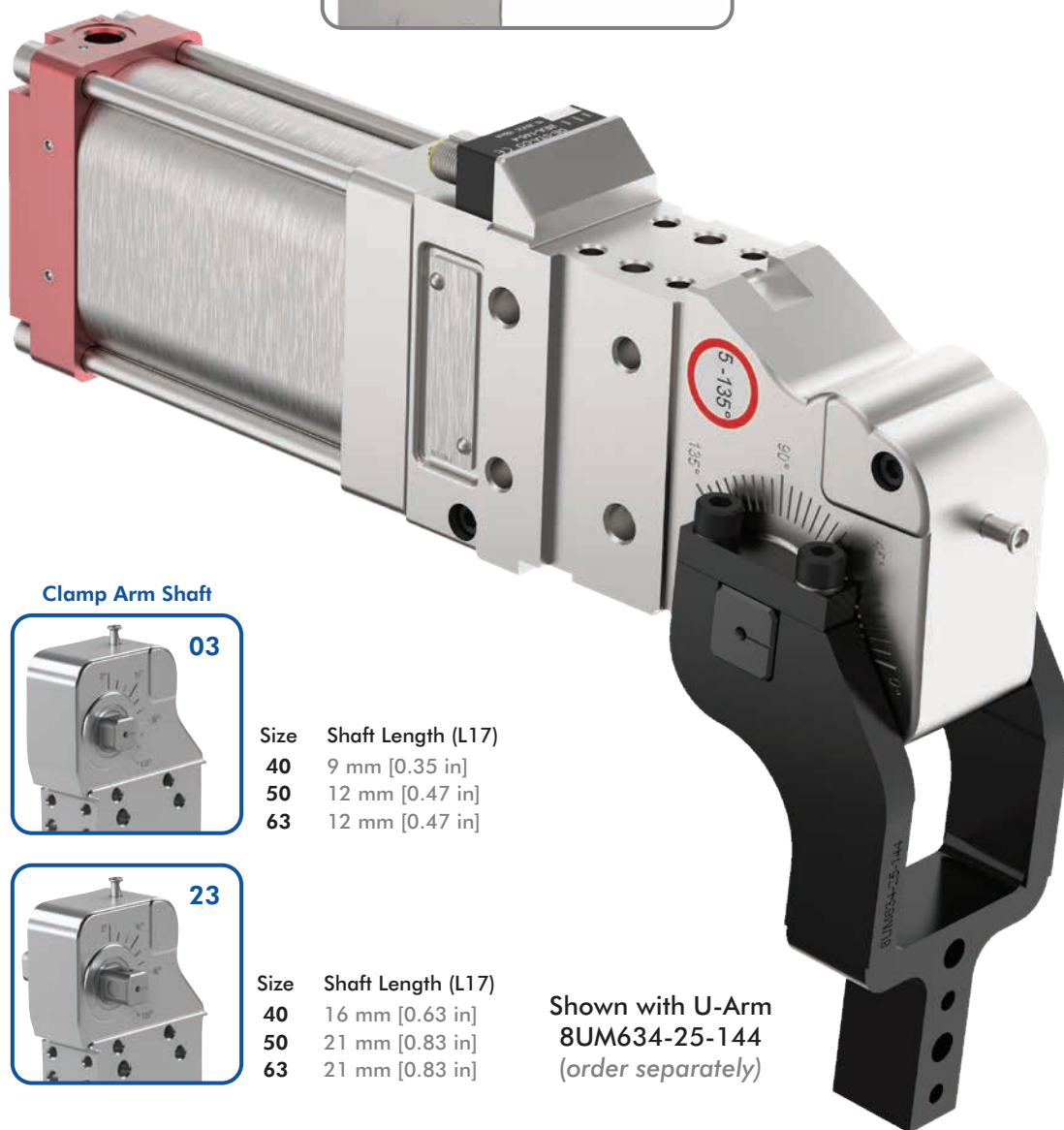
03

Size	Shaft Length (L17)
40	9 mm [0.35 in]
50	12 mm [0.47 in]
63	12 mm [0.47 in]

23

Size	Shaft Length (L17)
40	16 mm [0.63 in]
50	21 mm [0.83 in]
63	21 mm [0.83 in]

Shown with U-Arm
8UM634-25-144
(order separately)





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TCC-2

Enclosed Pneumatic Power Clamps | Heavy-Duty, Tolerance Compensation

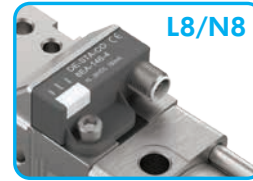
Sensor	Description
00	Without Sensing System
L8*	PNP Sensor with In-line M12x1 Connector (8EA-146-4-B)
N8*	NPN Sensor with In-line M12x1 Connector (8EA-154-4-B)
L9	PNP Sensor with 90° M12x1 Connector (8EA-147-4-B)
N9	NPN Sensor with 90° M12x1 Connector (8EA-155-4-B)
K8	PNP Sensor with M12x1 Cable Connector (8EA-158-4-B)
K9	NPN Sensor with M12x1 Cable Connector (8EA-167-4-B)

*Not available for use with 4V, 5V, 6V cylinder option.

See page 29 for replacement sensor kits and components.

Sensor Cables Order separately

Order No.	Description
8EL-002-1	M12x1, Straight, 5-pin Connector with 5 m [16 ft] Cable
8EL-003-1	M12x1, Angular, 4-pin Connector with 5 m [16 ft] Cable



Cylinder (Standard)

- 40** 40 mm Cylinder (G1/8 Port)
- 50** 50 mm Cylinder (G1/4 Port)
- 5N** 50 mm Cylinder (1/4-18 NPT Port)
- 63** 63 mm Cylinder (G1/4 Port)
- 6N** 63 mm Cylinder (1/4-18 NPT Port)



Cylinder with Unlockable Return Valve

- 4C** 40 mm Cylinder (G1/8 Port)
- 5C** 50 mm Cylinder (G1/4 Port)
- 5D** 50 mm Cylinder (1/4-18 NPT Port)
- 6C** 63 mm Cylinder (G1/4 Port)
- 6D** 63 mm Cylinder (1/4-18 NPT Port)



Cylinder with Internal Hold Open Device

- 4A** 40 mm Cylinder (G1/8 Port)
- 5A** 50 mm Cylinder (G1/4 Port)
- 5B** 50 mm Cylinder (1/4-18 NPT Port)
- 6A** 63 mm Cylinder (G1/4 Port)
- 6B** 63 mm Cylinder (1/4-18 NPT Port)



Cylinder with Piston Rod Locking Device

- 4V** 40 mm Cylinder (G1/8 Port)
- 5V** 50 mm Cylinder (G1/4 Port)
- 6V** 63 mm Cylinder (G1/4 Port)



40

Max Holding/
Clamping Torque
85 Nm [62.7 ft-lb]
at 5 bar [72 psi]

50

Max Holding/
Clamping Torque
175 Nm [129 ft-lb]
at 5 bar [72 psi]

63

Max Holding/
Clamping Torque
295 Nm [217.6 ft-lb]
at 5 bar [72 psi]

52H-3

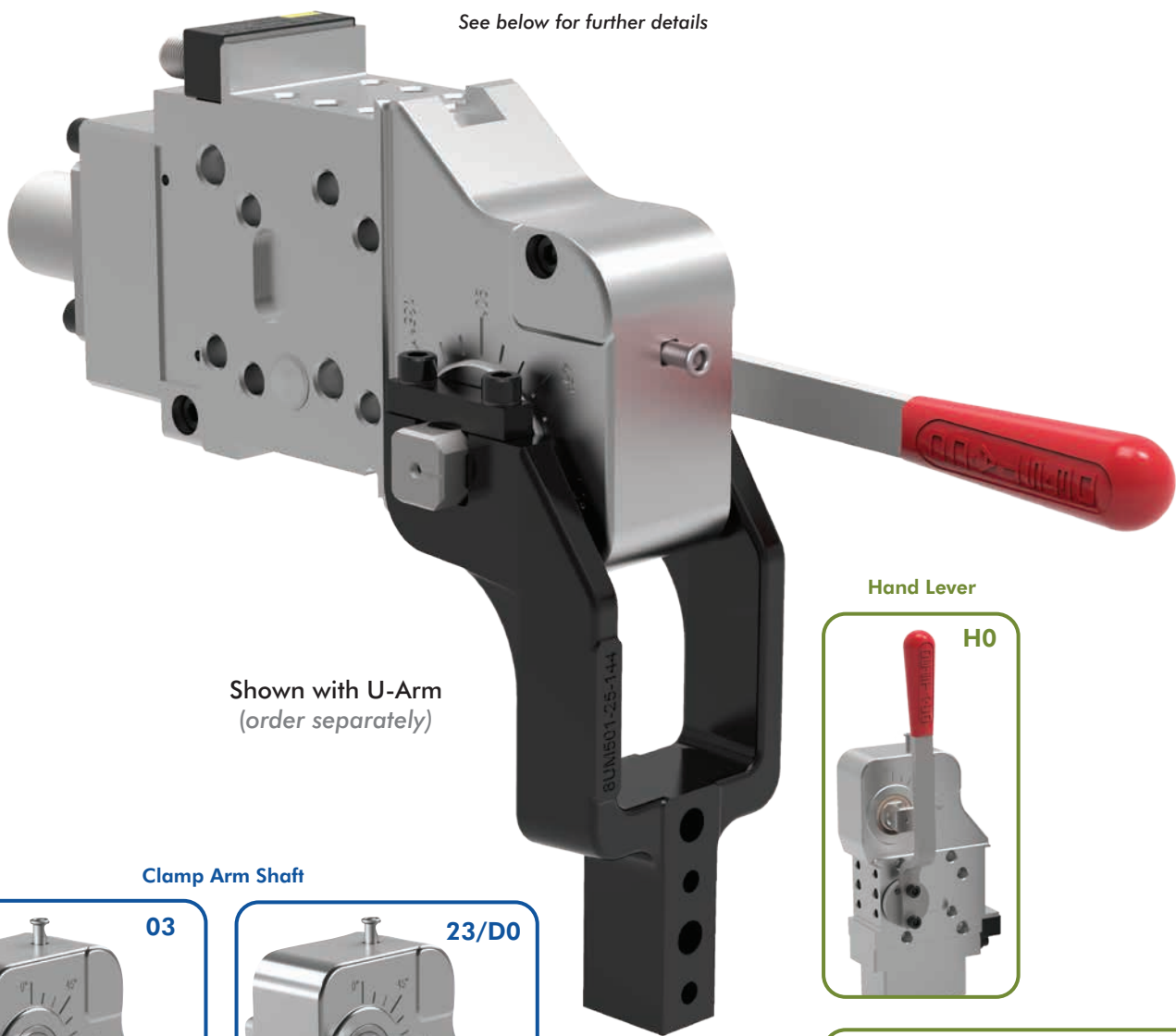
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		52H-3	E	23	H0	50	L8
Mounting	Description	Clamp Arm Shaft	Description	Handle	Description		
E	Euro Mounting	03	for U-Arms	H0	Hand lever		
N	NAAMS (Size 63 only)	23	for Lateral Arms	HS	Hand Lever (Weldable)		
		D0	for Lateral Arms (size 63 only)				

See below for further details



Shown with U-Arm
(order separately)

Clamp Arm Shaft



03



23/D0

Size	Shaft Length (L17)
50	12 mm [0.47 in]
63	12 mm [0.47 in]

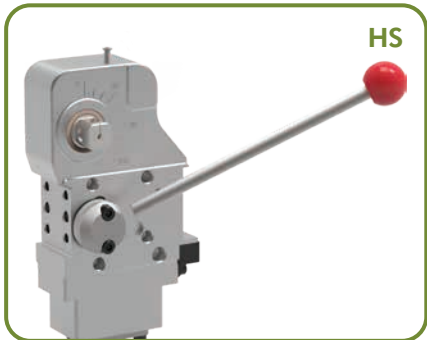
23	
Size	Shaft Length (L17)
50	21 mm [0.83 in]
63	21 mm [0.83 in]

D0	
Size	Shaft Length (L17)
D0	26 mm [1.02 in]

Hand Lever



H0



HS



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52H-3

Enclosed Modular Manual Power Clamps | Heavy-Duty

Sensor	Description
00	Without Sensing System
L8	PNP Sensor with In-line M12x1 Connector (8EA-146-4-B)
N8	NPN Sensor with In-line M12x1 Connector (8EA-154-4-B)
L9	PNP Sensor with 90° M12x1 Connector (8EA-147-4-B)
N9	NPN Sensor with 90° M12x1 Connector (8EA-155-4-B)
K8	PNP Sensor with M12x1 Cable Connector (8EA-158-4-B)
K9	NPN Sensor with M12x1 Cable Connector (8EA-167-4-B)

See page 29 for replacement sensor kits and components.

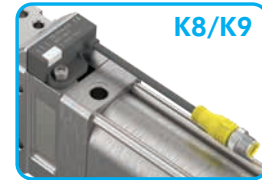
Order No.	Description
8EL-002-1	M12x1, Straight, 5-pin Connector with 5 m [16 ft] Cable
8EL-003-1	M12x1, Angular, 4-pin Connector with 5 m [16 ft] Cable



L8/N8



L9/N9



K8/K9

Size	Description
50	Size 50 mm
63	Size 63 mm



52H-3E..H.50/63
Modular manual
clamp, interchangeable
with 82M-3E...50/63



50

Max Holding Torque
1300 Nm [959 ft-lb]



63

Max Holding Torque
1800 Nm [1328 ft-lb]

Spare parts

Replacement	for Model	Order No.
Hand lever set	52H-3E...50	8KB-098-1
	52H-3E...63	8KB-099-1
Hand lever set (weldable)	52H-3E...50	8KB-102-1
	52H-3E...63	8KB-103-1

82M-3, 52H-3 CLAMP ARMS

Enclosed Modular Manual and Power Clamps

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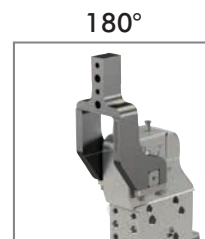


U-Arms Center (Aluminum)

Fits 82M-3E....40..	Max. Opening		Fits 82M-3....5... and 52H-3E....5...	Max. Opening		Fits 82M-3....8...	Max. Opening	
	for 90°	for 180°		for 90°	for 180°		for 90°	for 180°
8UM404-00-117		105°	8UM504-15-144		105°	8JG-169-2-01*		105°
8UM404-15-117	135°	120°	8UM504-25-144	135°	120°	8UM801-45-204*	135°	135°
8UM404-25-117		135°	8UM504-45-144		135°			
8UM404-45-107	130°							



Fits 82M-3N13...40..	Max. Opening		Fits 82M-3....6... and 52H-3E....6...	Max. Opening	
	for 90°	for 180°		for 90°	for 180°
8UM408-00-117*		105°	8UM634-15-144		105°
8UM408-15-117*	135°	120°	8UM634-25-144	135°	120°
8UM408-25-117*		135°	8UM634-45-144		135°
8UM408-45-117*	130°		8UM631-75-204*		



* only steel version available.

U-Arms Offset (Aluminum)

(•) = L for Left, R for Right

Fits 82M-3E....40..	Max. Opening		Fits 82M-3....5... and 52H-3E....5...	Max. Opening	
	for 90°	for 180°		for 90°	for 180°
8U(•)404-00-117		105°	8U(•)504-15-144		105°
8U(•)404-15-117	135°	120°	8U(•)504-25-144	135°	120°
8U(•)404-25-117		135°	8U(•)504-45-144		135°
8U(•)404-45-107	130°				

90° Left



8UL...
8JG-170-2-01

90° Right



8UR...
8JG-171-2-01

Fits 82M-3....6... and 52H-3E....6...	Max. Opening		Fits 82M-3....8... 20mm Offset	Max. Opening	
	for 90°	for 180°		for 90°	for 180°
8U(•)634-15-144		105°	8JG-17(•)-2-01*	135°	105°
8U(•)634-25-144	135°	120°	(•) = 0 for Left, 1 for Right		
8U(•)634-45-144		135°			
8U(•)631-75-204*					

* only steel version available.

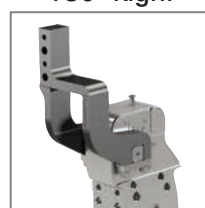
Fits 82M-3....8... 45mm Offset	Max. Opening	
	for 90°	for 180°
8U(•)801-45-204*	135°	135°
(•) = L for Left, R for Right		

180° Left



8UR...
8JG-171-2-01

180° Right



8UL...
8JG-170-2-01

Note: 180° left uses same clamp arm as 90° right.
180° right uses same clamp arm as 90° left.

Lateral (Steel)

Fits 82M-3E....40..	Max. Opening		Fits 82M-3....5... and 52H-3E....5...	Max. Opening	
	for 90°	for 180°		for 90°	for 180°
8S401-15-117	135°	120°	8JG-070-1-01	135°	135°
			8S501-25-144		

Fits 82M-3....6... and 52H-3E....6...	Max. Opening		Fits 82M-3....8...	Max. Opening	
	for 90°	for 180°		for 90°	for 180°
8JG-080-1-01			8JG-1179-1-01	135°	135°
8S631-25-144	135°	135°	8S801-45-204		
8S631-45-144					
8S631-75-204					

90° Left



90° Right



180° Left



180° Right



Models with 2 lateral clamp arms requires 2 clamp arm sets.



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82M-3, 52H-3 CLAMP ARMS

Enclosed Modular Manual and Power Clamps

Lateral Arms (NAAMS-Style) for 82M-3E and 52H-3E 50mm

9mm Thru Hole (6.00 H7 Dowel)

90mm [3.54"] Arm Length

Series	Arm Style	Model
50 Offset	▲ • 3256	B8JG-3256-1
25 Offset	▲ • 3246	B8JG-3246-1
0 Offset	▲ • 3236	B8JG-3236-1

120mm [4.72"] Arm Length

Series	Arm Style	Model
50 Offset	▲ • 3257	B8JG-3257-1
25 Offset	▲ • 3247	B8JG-3247-1
0 Offset	▲ • 3237	B8JG-3237-1

150mm [5.90"] Arm Length

Series	Arm Style	Model
50 Offset	▲ • 3258	B8JG-3258-1
25 Offset	▲ • 3248	B8JG-3248-1
0 Offset	▲ • 3238	B8JG-3238-1

11mm Thru Hole (8.00 F7 Dowel)

90mm [3.54"] Arm Length

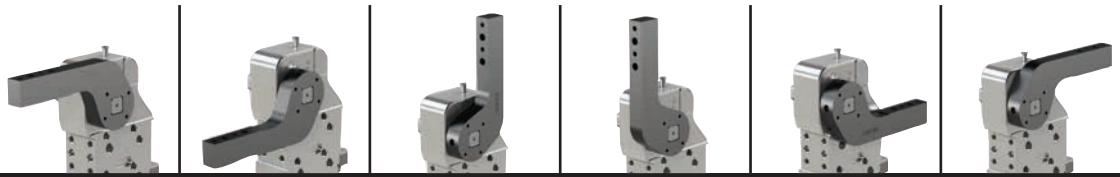
Series	Arm Style	Model
50 Offset	▲ • 1226	B8JG-1226-1
25 Offset	▲ • 1216	B8JG-1216-1
0 Offset	▲ • 1206	B8JG-1206-1

120mm [4.72"] Arm Length

Series	Arm Style	Model
50 Offset	▲ • 1227	B8JG-1227-1
25 Offset	▲ • 1217	B8JG-1217-1
0 Offset	▲ • 1207	B8JG-1207-1

150mm [5.90"] Arm Length

Series	Arm Style	Model
50 Offset	▲ • 1228	B8JG-1228-1
25 Offset	▲ • 1218	B8JG-1218-1
0 Offset	▲ • 1208	B8JG-1208-1



Arm Styles	Maximum Opening Angle (shown in locked position)					
1206-1208/3236-3238	135°	135°	100°	100°	N/A	N/A
1216-1218/3246-3248	135°	N/A	50°	125°	N/A	30°
1226-1228/3256-3258	125°	N/A	35°	135°	N/A	50°

Lateral Arms (NAAMS-Style) for 82M-3. and 52H-3E 63mm for 23 Clamp Arm Shaft Option

9mm Thru Hole (6.00 H7 Dowel)

135mm [5.31"] Arm Length

Series	Arm Style	Model
120 Offset	▲ 1543	B8JG-1543-1
70 Offset	▲ 1531	B8JG-1531-1
25 Offset	▲ 1519	B8JG-1519-1
0 Offset	▲ 1507	B8JG-1507-1

165mm [6.50"] Arm Length

Series	Arm Style	Model
120 Offset	▲ 1544	B8JG-1544-1
70 Offset	▲ 1532	B8JG-1532-1
25 Offset	▲ 1520	B8JG-1520-1
0 Offset	▲ 1508	B8JG-1508-1

195mm [7.68"] Arm Length

Series	Arm Style	Model
120 Offset	▲ 1545	B8JG-1545-1
70 Offset	▲ 1533	B8JG-1533-1
25 Offset	▲ 1521	B8JG-1521-1
0 Offset	▲ 1509	B8JG-1509-1

225mm [8.86"] Arm Length

Series	Arm Style	Model
120 Offset	▲ 1546	B8JG-1546-1
70 Offset	▲ 1534	B8JG-1534-1
25 Offset	▲ 1522	B8JG-1522-1
0 Offset	▲ 1510	B8JG-1510-1

255mm [10.04"] Arm Length

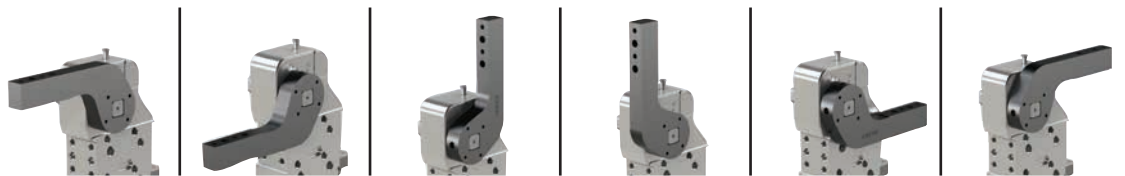
Series	Arm Style	Model
120 Offset	▲ 1547	B8JG-1547-1
70 Offset	▲ 1535	B8JG-1535-1
25 Offset	▲ 1523	B8JG-1523-1
0 Offset	▲ 1511	B8JG-1511-1

285mm [11.22"] Arm Length

Series	Arm Style	Model
120 Offset	▲ 1548	B8JG-1548-1
70 Offset	▲ 1536	B8JG-1536-1
25 Offset	▲ 1524	B8JG-1524-1
0 Offset	▲ 1512	B8JG-1512-1

▲ Common in North America

(•) STANDARD ARM OFFERING



Arm Styles	Maximum Opening Angle (shown in locked position)					
1510-1512/1507-1509	135°	135°	100°	100°	N/A	N/A
1522-1524/1519-1521	135°	N/A	50°	130°	N/A	40°
1534-1536/1531-1533	115°	N/A	25°	135°	N/A	75°
1546-1548/1543-1545	110°	N/A	20°	135°	N/A	85°

▲ Common in North America

(•) STANDARD ARM OFFERING

82M-3, 52H-3 CLAMP ARMS

Enclosed Modular Manual and Power Clamps

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Lateral Arms (NAAMS-Style) for 82M-3. and 52H-3E. 63mm for D0 Clamp Arm Shaft Option

11mm Thru Hole (8.00 F7 Dowel)

135mm [5.31"] Arm Length			165mm [6.50"] Arm Length			195mm [7.68"] Arm Length		
Series	Arm Style	Model	Series	Arm Style	Model	Series	Arm Style	Model
120 Offset	▲ • 1043	B8JG-1043-1	120 Offset	▲ ① 1044	B8JG-1044-1	120 Offset	▲ ① 1045	B8JG-1045-1
70 Offset	▲ • 1031	B8JG-1031-1	70 Offset	▲ • 1032	B8JG-1032-1	70 Offset	▲ • 1033	B8JG-1033-1
25 Offset	▲ • 1019	B8JG-1019-1	25 Offset	▲ • 1020	B8JG-1020-1	25 Offset	▲ ① 1021	B8JG-1021-1
0 Offset	▲ • 1007	B8JG-1007-1	0 Offset	▲ • 1008	B8JG-1008-1	0 Offset	▲ • 1009	B8JG-1009-1
225mm [8.86"] Arm Length			255mm [10.04"] Arm Length			285mm [11.22"] Arm Length		
Series	Arm Style	Model	Series	Arm Style	Model	Series	Arm Style	Model
120 Offset	▲ ① 1046	B8JG-1046-1	120 Offset	▲ ① 1047	B8JG-1047-1	120 Offset	▲ ① 1048	B8JG-1048-1
70 Offset	▲ • 1034	B8JG-1034-1	70 Offset	▲ • 1035	B8JG-1035-1	70 Offset	▲ ① 1036	B8JG-1036-1
25 Offset	▲ ① 1022	B8JG-1022-1	25 Offset	▲ ① 1023	B8JG-1023-1	25 Offset	▲ ① 1024	B8JG-1024-1
0 Offset	▲ ① 1010	B8JG-1010-1	0 Offset	▲ ① 1011	B8JG-1011-1	0 Offset	▲ ① 1012	B8JG-1012-1

Arm Styles	Maximum Opening Angle (shown in locked position)					
1010-1012/1007-1009	135°	135°	100°	100°	N/A	N/A
1022-1024/1019-1021	135°	N/A	50°	130°	N/A	40°
1034-1036/1031-1033	115°	N/A	25°	135°	N/A	75°
1046-1048/1043-1045	110°	N/A	20°	135°	N/A	85°

Lateral Arms (NAAMS-Style) for 82M-3E 80mm

11mm Thru Hole (8.00 F7 Dowel)

155mm [6.10"] Arm Length			185mm [7.28"] Arm Length			215mm [8.46"] Arm Length		
Series	Arm Style	Model	Series	Arm Style	Model	Series	Arm Style	Model
120 Offset	▲ ① 1170	B8JG-1170-1	120 Offset	▲ ① 1171	B8JG-1171-1	120 Offset	▲ ① 1172	B8JG-1172-1
70 Offset	▲ • 1150	B8JG-1150-1	70 Offset	▲ ① 1151	B8JG-1151-1	70 Offset	▲ ① 1152	B8JG-1152-1
25 Offset	▲ ① 1130	B8JG-1130-1	25 Offset	▲ ① 1131	B8JG-1131-1	25 Offset	▲ ① 1132	B8JG-1132-1
0 Offset	▲ ① 1110	B8JG-1110-1	0 Offset	▲ ① 1111	B8JG-1111-1	0 Offset	▲ • 1112	B8JG-1112-1
245mm [9.65"] Arm Length			275mm [10.83"] Arm Length			305mm [12.00"] Arm Length		
Series	Arm Style	Model	Series	Arm Style	Model	Series	Arm Style	Model
120 Offset	▲ ① 1173	B8JG-1173-1	120 Offset	▲ ① 1174	B8JG-1174-1	120 Offset	▲ ① 1175	B8JG-1175-1
70 Offset	▲ ① 1153	B8JG-1153-1	70 Offset	▲ ① 1154	B8JG-1154-1	70 Offset	▲ • 1155	B8JG-1155-1
25 Offset	▲ ① 1133	B8JG-1133-1	25 Offset	▲ • 1134	B8JG-1134-1	25 Offset	▲ ① 1135	B8JG-1135-1
0 Offset	▲ ① 1113	B8JG-1113-1	0 Offset	▲ ① 1114	B8JG-1114-1	0 Offset	▲ ① 1115	B8JG-1115-1
335mm [13.19"] Arm Length			365mm [14.37"] Arm Length			395mm [15.55"] Arm Length		
Series	Arm Style	Model	Series	Arm Style	Model	Series	Arm Style	Model
120 Offset	▲ ① 1176	B8JG-1176-1	120 Offset	▲ ① 1177	B8JG-1177-1	120 Offset	▲ ① 1178	B8JG-1178-1
70 Offset	▲ ① 1156	B8JG-1156-1	70 Offset	▲ ① 1157	B8JG-1157-1	70 Offset	▲ • 1158	B8JG-1158-1
25 Offset	▲ ① 1136	B8JG-1136-1	25 Offset	▲ ① 1137	B8JG-1137-1	25 Offset	▲ ① 1138	B8JG-1138-1
0 Offset	▲ ① 1116	B8JG-1116-1	0 Offset	▲ ① 1117	B8JG-1117-1	0 Offset	▲ • 1118	B8JG-1118-1

Arm Styles	Maximum Opening Angle (shown in locked position)					
1110 - 1118	135°	135°	100°	100°	N/A	N/A
1130 - 1138	135°	N/A	60°	120°	N/A	30°
1150 - 1158	125°	N/A	35°	135°	N/A	55°
1170 - 1178	115°	N/A	25°	135°	N/A	80°

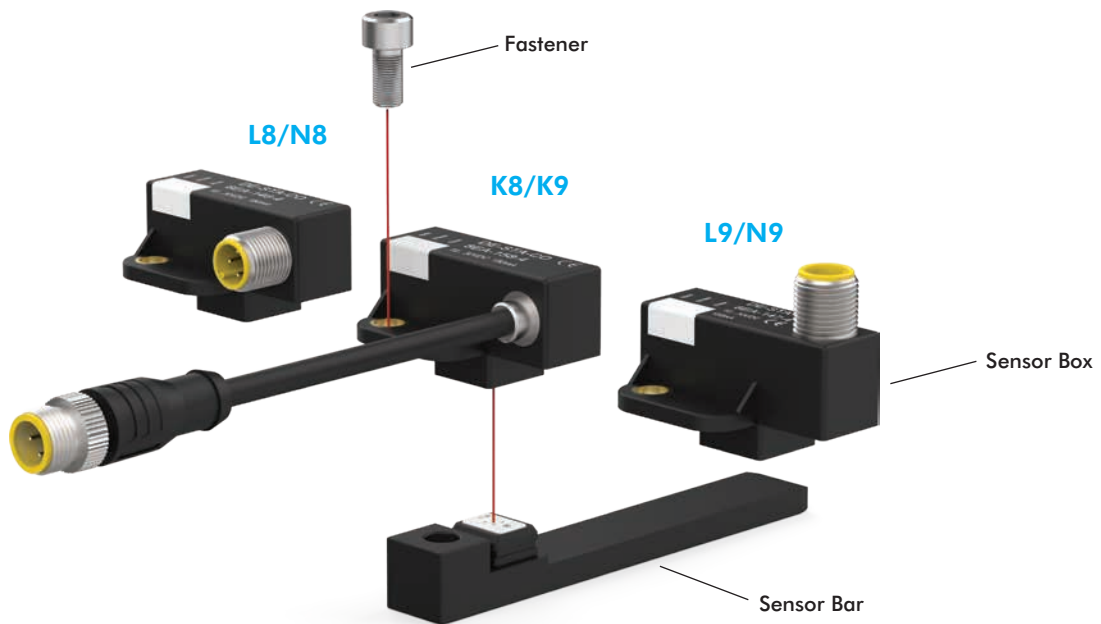
▲ Common in North America

(•) STANDARD ARM OFFERING

① NON-STANDARD ARM OFFERING (extended leadtimes apply)

TCC-2, 82M-3, 52H-3 SENSORS

Replacement Sensor Kits and Components



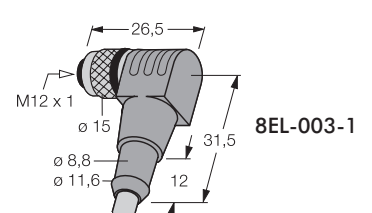
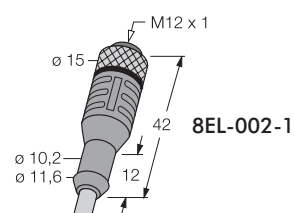
Complete Sensor Kits
(Includes Sensor Box, Sensor Bar, Screw)

Component Part No.

Fits Base Models	Order No.	Description	Replacement Kit	Sensor Box	Sensor Bar	Fastener
TCC-2.....4.	L8	PNP w/In-line M12x1 Connector	8EA-146-4-B-03	8EA-146-4-B	8EA-168-4-G	M6X12-912-ZN
	N8	NPN w/In-line M12x1 Connector	8EA-154-4-B-03	8EA-154-4-B		
	L9	PNP w/90° M12x1 Connector	8EA-147-4-B-03	8EA-147-4-B		
	N9	NPN w/90° M12x1 Connector	8EA-155-4-B-03	8EA-155-4-B		
	K8	PNP w/M12x1 Cable Connector	8EA-158-4-B-03	8EA-158-4-B		
	K9	NPN w/M12x1 Cable Connector	8EA-167-4-B-03	8EA-167-4-B		
TCC-2.....5., 6. 82M-3.....4., 5., 6. 52H-3.....50, 63	L8	PNP w/In-line M12x1 Connector	8EA-146-4-B-01	8EA-146-4-B	8EA-148-4-G	M6X12-912-ZN
	N8	NPN w/In-line M12x1 Connector	8EA-154-4-B-01	8EA-154-4-B		
	L9	PNP w/90° M12x1 Connector	8EA-147-4-B-01	8EA-147-4-B		
	N9	NPN w/90° M12x1 Connector	8EA-155-4-B-01	8EA-155-4-B		
	K8	PNP w/M12x1 Cable Connector	8EA-158-4-B-01	8EA-158-4-B		
	K9	NPN w/M12x1 Cable Connector	8EA-167-4-B-01	8EA-167-4-B		
82M-3.....8.	L8	PNP w/In-line M12x1 Connector	8EA-146-4-B-02	8EA-146-4-B	8EA-149-4-G	M6X12-912-ZN
	N8	NPN w/In-line M12x1 Connector	8EA-154-4-B-02	8EA-154-4-B		
	L9	PNP w/90° M12x1 Connector	8EA-147-4-B-02	8EA-147-4-B		
	N9	NPN w/90° M12x1 Connector	8EA-155-4-B-02	8EA-155-4-B		
	K8	PNP w/M12x1 Cable Connector	8EA-158-4-B-02	8EA-158-4-B		
	K9	NPN w/M12x1 Cable Connector	8EA-167-4-B-02	8EA-167-4-B		

Sensor Cables Order separately

Order No.	Description
8EL-002-1	M12x1, Straight, 5-pin Connector with 5 m [16 ft] Cable
8EL-003-1	M12x1, Angular, 4-pin Connector with 5 m [16 ft] Cable



870-2, 871-2

Pneumatic Power Clamps

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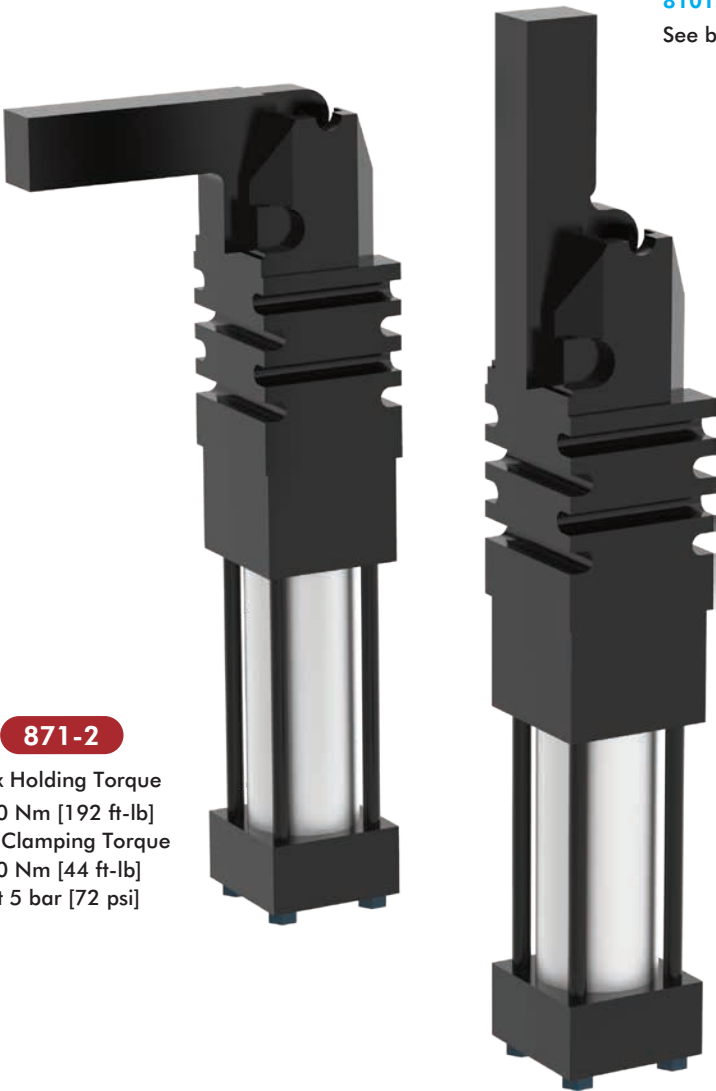


870-2

Base Model	Description
870-2	38,1 mm [1.5 in.] Cylinder with Vertical Clamp Arm
871-2	38,1 mm [1.5 in.] Cylinder with Horizontal Clamp Arm

Sensors	Description (order separately)
BIM-IKE-AP	Magnetic Sensor, 2 pieces required
810151	Magnetic Sensor, 2 pieces required
810153	Magnetic Sensor, 2 pieces required
810155	Magnetic Sensor, 2 pieces required
810157	Magnetic Sensor, 2 pieces required

See below for sensor specifications.



871-2

Max Holding Torque
260 Nm [192 ft-lb]
Max Clamping Torque
60 Nm [44 ft-lb]
at 5 bar [72 psi]

870-2

Max Holding Torque
260 Nm [192 ft-lb]
Max Clamping Torque
60 Nm [44 ft-lb]
at 5 bar [72 psi]

Sensors Order separately (2 pieces required)

Order No.	Mount Style	Connector	Length	Function	Voltage	Max. Switching Current	Voltage Drop
BIM-IKE-AP	Tie Rod	No connector cord	2m [6.6 ft.]	PNP	10-30V DC	200mA	2.3V
810151			2.7m [9ft.]	Reed	5-120V AC/DC	500mA	3.5V
810153				Reed	24-240V AC	4A	1.0V
810155				PNP	6-24V DC	500mA	1.0V
810157				NPN	6-24V DC	500mA	1.0V



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860, 861, 890, 891, 1000, 1001

Pneumatic Power Clamps

860

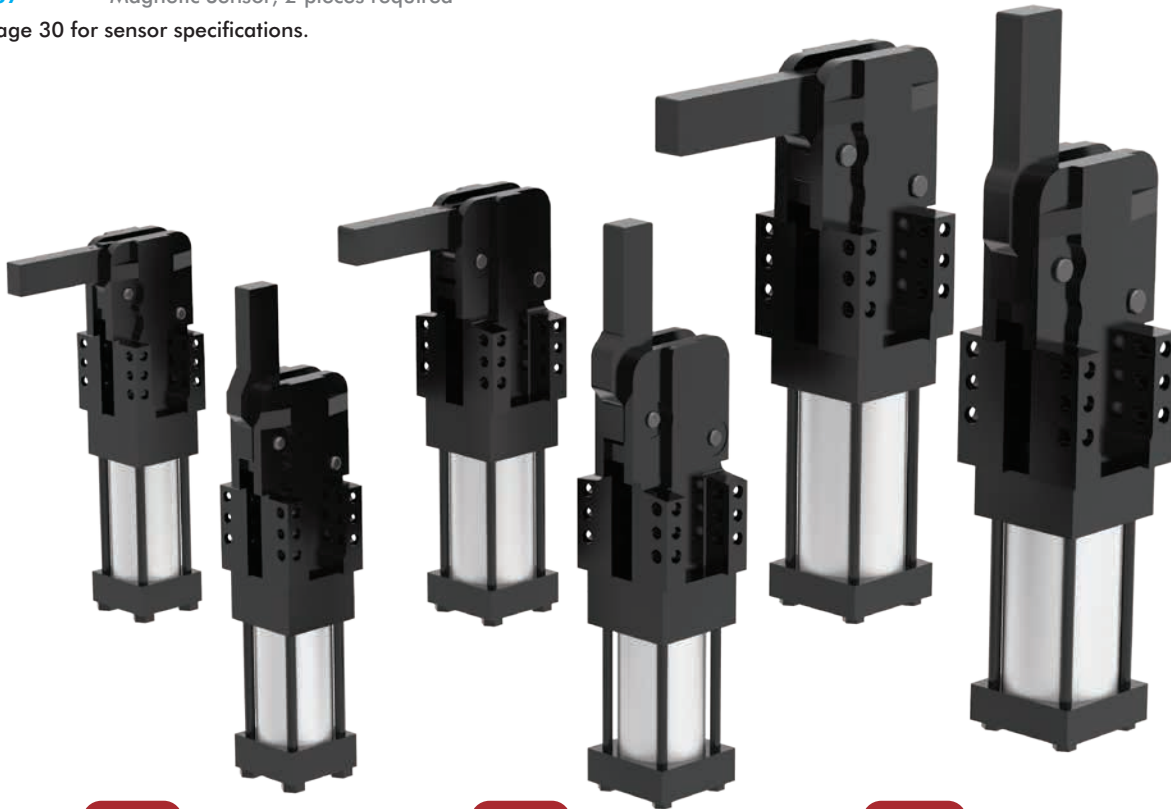
Base Model	Description
860	50,8 mm [2 in.] Cylinder with Vertical Clamp Arm
861	50,8 mm [2 in.] Cylinder with Horizontal Clamp Arm
890	63,5 mm [2.5 in.] Cylinder with Vertical Clamp Arm
891	63,5 mm [2.5 in.] Cylinder with Horizontal Clamp Arm
1000	82,5 mm [3.25 in.] Cylinder with Vertical Clamp Arm
1001	82,5 mm [3.25 in.] Cylinder with Horizontal Clamp Arm

Sensors	Description (order separately)
BIM-IKE-AP	Magnetic Sensor, 2 pieces required
810151	Magnetic Sensor, 2 pieces required
810153	Magnetic Sensor, 2 pieces required
810155	Magnetic Sensor, 2 pieces required
810157	Magnetic Sensor, 2 pieces required

See page 30 for sensor specifications.

Seal Kit	Description (order separately)
8610100	Seal Kit for Model 860, 861
8910100	Seal Kit for Model 890, 891
10010100	Seal Kit for Model 1000, 1001

Cylinder	Description (order separately)
865133-MR	Replacement Cylinder for Model 860
865132-MR	Replacement Cylinder for Model 861
895133-MR	Replacement Cylinder for Model 890
895132-MR	Replacement Cylinder for Model 891
1005134-MR	Replacement Cylinder for Model 1000
1005133-MR	Replacement Cylinder for Model 1001



861

Max Holding Torque
1017 Nm [750 ft-lb]
Max Clamping Torque
256 Nm [180 ft-lb]
at 5 bar [72 psi]

891

Max Holding Torque
1695 Nm [1250 ft-lb]
Max Clamping Torque
553 Nm [408 ft-lb]
at 5 bar [72 psi]

1001

Max Holding Torque
3390 Nm [2500 ft-lb]
Max Clamping Torque
1229 Nm [906 ft-lb]
at 5 bar [72 psi]

860

Max Holding Torque
1017 Nm [750 ft-lb]
Max Clamping Torque
256 Nm [180 ft-lb]
at 5 bar [72 psi]

890

Max Holding Torque
1695 Nm [1250 ft-lb]
Max Clamping Torque
553 Nm [408 ft-lb]
at 5 bar [72 psi]

1000

Max Holding Torque
3390 Nm [2500 ft-lb]
Max Clamping Torque
1229 Nm [906 ft-lb]
at 5 bar [72 psi]

82D40, 82D63

Enclosed Pneumatic Power Clamps | Dual Arm

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Base Model

Base Model	Description
82D40-2	40 mm Cylinder (G1/4 Port)
82D63-5	63 mm Cylinder (G1/4 Port)

Hand Lever

Hand Lever	Description
0	Hand Lever not available

Opening Angle

Opening Angle	Opening Angle
0	180° (standard)
1	160°
2	140°
3	120°
4	100°
5	80°
6	60°
7	40°
8	20°

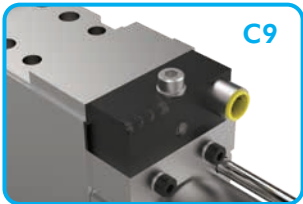
Reduced opening angles available upon request.

Clamp Arm Shaft

Clamp Arm Shaft	Description
23	includes long drive shaft ends on both sides fit for all clamping arms (standard)

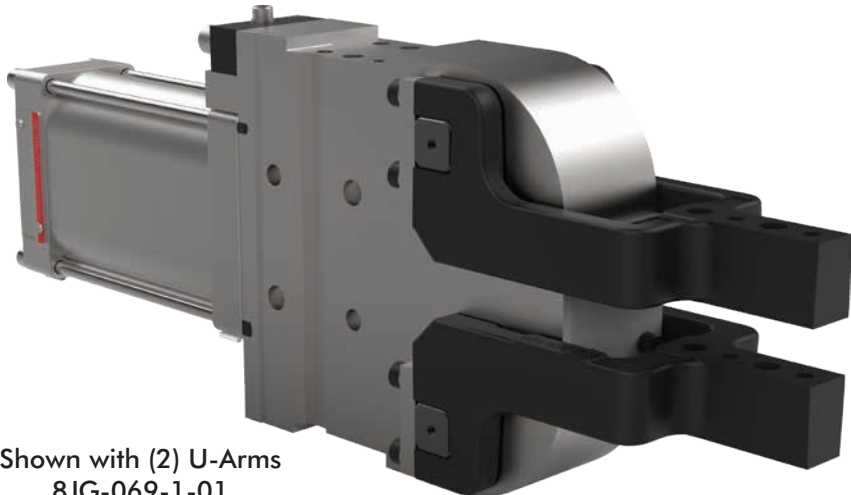
Sensor

Sensor	Description
C9	includes Sensing System with M12x1 Connector (8EA-024-2) Standard



Clamp Arms

Clamp Arms	Description
B	Base model only. Order clamps arms separately.



Shown with (2) U-Arms
8JG-069-1-01
(order separately)



82D63-5
Max Holding
400 Nm [295 ft-lb]
Max Clamping Torque
120 Nm [88 ft-lb]
at 5 bar [72 psi]



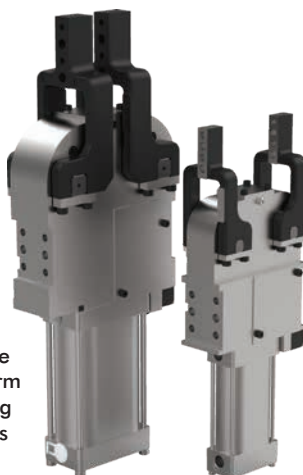
82D40-2
Max Holding
140 Nm [103 ft-lb]
Max Clamping Torque
60 Nm [44 ft-lb]
at 5 bar [72 psi]

U-type Central Clamping Arm



Model	Order No. (1 clamp arm)
82D40-223C900B	8JG-065-2-01
82D63-523C900B	8JG-069-1-01

Alternate
Clamp Arm
mounting
positions



Lateral Clamping Arm

Clamp Arm Variants

Left Side, Right Side, Both Sides



Model	Order No. (1 clamp arm)
82D40-223C900B	8JG-066-1-01
82D63-523C900B	8JG-070-1-01

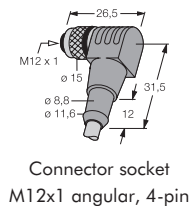
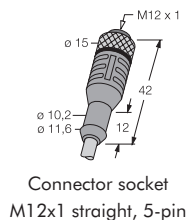


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82D ACCESSORIES

Enclosed Pneumatic Power Clamps | Dual Arm

Clamping Arms		Order No. for Set		Comment
Clamping are variant	Clamping position	82D40-223C900B	82D63-523C900B	
U-central	vertical	8JG-065-1-01	8JG-069-1-01	sets of U-type clamping arms consist of clamping arm, links and screws you need 2 sets of clamping arms
lateral right/left	vertical	8JG-066-1-01 ¹⁾	8JG-070-1-01 ²⁾	sets of lateral clamping arms consist of 1) clamping arm, links and screws 2) clamping arm and set screws you need 2 sets of clamping arms
lateral both sides	vertical	8JG-066-1-01 ¹⁾	8JG-070-1-01 ²⁾	you need 4 sets of clamping arms



Sensor Cables (Order Separately)	
Order No.	Description
8EL-002-1	M12x1, Straight, 5-Pin Connector with 5 m [16 ft] Cable
8EL-003-1	M12x1, Angular, 4-Pin Connector with 5 m [16 ft] Cable

Opening Angle Limiter		Fit for Model 82D40-2...		Fit for Model 82D63-5...	
Angle	Length	Order No.	Length	Order No.	
180° (Standard)	11,4 mm	8CE-342-1	14,4 mm	8CE-362-1	
160°	15,1 mm	8CE-340-1	20,0 mm	8CE-360-1	
140°	18,5 mm	8CE-338-1	24,8 mm	8CE-358-1	
120°	22,2 mm	8CE-336-1	29,6 mm	8CE-356-1	
100°	25,8 mm	8CE-334-1	34,3 mm	8CE-354-1	
80°	28,0 mm	8CE-332-1	39,0 mm	8CE-352-1	
60°	33,0 mm	8CE-330-1	43,8 mm	8CE-350-1	
40°	37,0 mm	8CE-328-1	49,1 mm	8CE-348-1	
20°	41,8 mm	8CE-326-1	56,2 mm	8CE-346-1	

Shim Plates (for clamping arm)	Fit for model 82D40-2									Fit for model 82D63-5								
	Order No.	A1	A2	D2	D3	B9	B10	B12	L10	Order No.	A1	A2	D2	D3	B9	B10	B12	L10
	82ZB-SH4001		0,1							82ZB-SH5001		0,1						
	82ZB-SH4002		0,2							82ZB-SH5002		0,2						
	82ZB-SH4005	42	0,5	6,5	7	6	20	20	12	82ZB-SH5005	65	0,5	6,5	9	10	30	30	15,8
	82ZB-SH4010		1,0							82ZB-SH5010		1,0						
	82ZB-SH4020		2,0							82ZB-SH5020		2,0						
	82ZB-SH4050		5,0							82ZB-SH5050		5,0						

Spare Parts	Order No. for Set	
	82D40-2	82D63-5
Cylinder	8PW-016-1	8PW-067-1
Integrated sensing system C9 Connector plug M12x1	8EA-024-2	8EA-024-2

84A40, 84A50

Enclosed Pneumatic Power Clamps | Dual Arm, Tolerance Compensation

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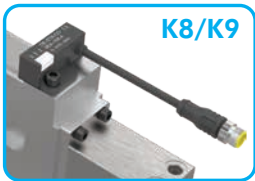
84A 50-1 A01 L8

Size	Description
40-1	32 mm Cylinder (G1/8 Port)
50-1	50 mm Cylinder (G1/4 Port)

U-Arm Style	Description
000	Without Clamping Arms
A01	Double Tip, Surface Clamping
A02	Single Tip, Point Clamping
A03	Double Tip, Surface Clamping (Standard Profile 84A40, Wide Profile 84A50)
A04	Double Tip, Surface Clamping, Wide Profile for 84A50 only

Shown with
A01 U-Arms

Sensor	Description
00	Without Sensing System
L8	PNP Sensor with In-line M12x1 Connector (8EA-146-4-B)
N8	NPN Sensor with In-line M12x1 Connector (8EA-154-4-B)
L9	PNP Sensor with 90° M12x1 Connector (8EA-147-4-B)
N9	NPN Sensor with 90° M12x1 Connector (8EA-155-4-B)
K8	PNP Sensor with M12x1 Cable Connector (8EA-158-4-B)
K9	NPN Sensor with M12x1 Cable Connector (8EA-167-4-B)



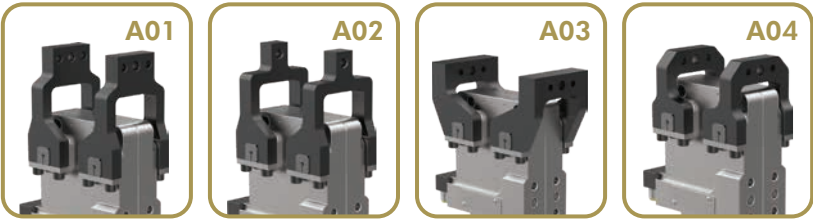
Sensor Cables Order separately

Order No.	Description
8EL-002-1	M12x1, Straight, 5-pin Connector w/5 m [16 ft.] Cable
8EL-003-1	M12x1, Angular, 4-pin Connector w/5 m [16 ft.] Cable

U-Arm Styles for 84A40



U-Arm Styles for 84A50



84A40-1

Max Holding/
Clamping Torque
29 Nm [21 ft-lb]
at 5 bar [72 psi]

84A50-1

Max Holding/
Clamping Torque
136 Nm [100 ft-lb]
at 5 bar [72 psi]



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VV85G-150

Precision Guide

VV85G-150

40

L8

Stroke	Description
20	20 mm Stroke
40	40 mm Stroke

Sensor	Description
00	Without Sensing System
L8	PNP Sensor with In-line M12x1 Connector (8EA-146-4-B)
N8	NPN Sensor with In-line M12x1 Connector (8EA-154-4-B)
L9	PNP Sensor with 90° M12x1 Connector (8EA-147-4-B)
N9	NPN Sensor with 90° M12x1 Connector (8EA-155-4-B)
K8	PNP Sensor with M12x1 Cable Connector (8EA-158-4-B)
K9	NPN Sensor with M12x1 Cable Connector (8EA-167-4-B)



Sensor Cables Order separately

Order No.	Description
8EL-002-1	M12x1, Straight, 5-pin Connector with 5 m [16 ft.] Cable
8EL-003-1	M12x1, Angular, 4-pin Connector with 5 m [16 ft.] Cable

Model	Stroke mm [in]	Max. Load Nm [ft.-lb] ±0,2 mm [0.008 in.]			Lifting Force N [lbf]	Holding Force N [lbf]	Weight Kg [lbs]	Air Consumption per double stroke at 5 bar [72 psi] dm³ [in³]
		Mtx	Mty	Mtz				
VV85G-15020**	20 [0.79]	[74]	[74]	[37]	500 [112]	[899] 4000	[29.1] 13,2	0,7 [42.7]
VV85G-15040**	40 [1.57]	100	100	50				1,1 [67.1]

82P25-2

Pneumatic Pin Clamps

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82P25-2 - 00 D8 XX

Size	Description	Tip	Description	Serial Number	Description
82P25-2	25 mm Cylinder (G1/8 and NPT 1/8 Ports)	00 08-22	without centering pin with customer specified round centering pin from Ø8-22 mm	XX	Customer specified Base, Clamping Hook and Centering Pin <i>Must contact factory with specifications to complete order number</i>
				D8	Inductive Sensing System with M12x1 Connector (8EA-161-1)

00

08-22

D8

Sensor Cables

Order separately

Order No.	Description
8EL-003-1	M12x1, Angular, 4-pin Connector with 5 m [16 ft.] Cable



82P25-2XX
Max Clamping Force
550 N [124 lbf]
at 5 bar [72 psi]



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82P30-3/82P35-3

Pneumatic Pin Clamps

82P **30-3** **20** **B8** **00**

Clamping Hook

00
D0

Description

Single Hook (Standard)
Double Hook

Size Description

30-3 30 mm Cylinder (G1/8 Port)
35-3 35 mm Cylinder (G1/8 Port)

Centering Pin

Ø Range for 82P30-3

20 20,0 - 23,0 mm

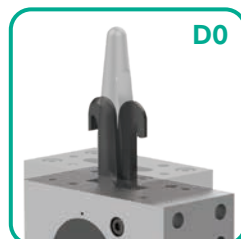
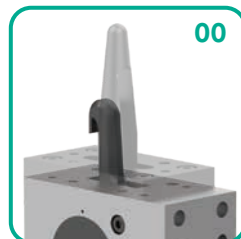
25 23,1 - 28,0 mm

30 28,1 - 33,0 mm

Ø Range for 82P35-3

40 33,1 - 45,0 mm

Order separately. 82P3X-3XX-XX,X
ex. 82P30-320-21,1



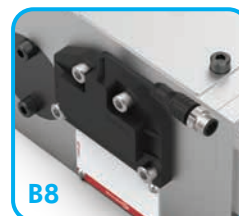
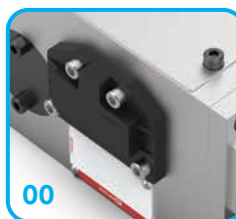
Sensor

Description

00 Without Sensing System

C0 Inductive Sensing System with
M8x1 Connector (8EA-012-3)

B8 Inductive Sensing System with
M12x1 Connector (8EA-030-3)



82P30-3

Max Clamping Force
2000 N [450 lbf]
at 6 bar [87 psi]

82P35-3

Max Clamping Force
3500 N [787 lbf]
at 6 bar [87 psi]

Sensor Cables Order separately

Order No.	Description
8EL-009-1	M8x1, Straight, 4-pin Connector with 5 m [16 ft.] Cable
8EL-007-1	M8x1, Angular, 4-pin Connector with 5 m [16 ft.] Cable
8EL-002-1	M12x1, Straight, 5-pin Connector with 5 m [16 ft.] Cable
8EL-003-1	M12x1, Angular, 4-pin Connector with 5 m [16 ft.] Cable

82P50-720, 82P63-720

Pneumatic Pin Clamps | Tolerance Compensation

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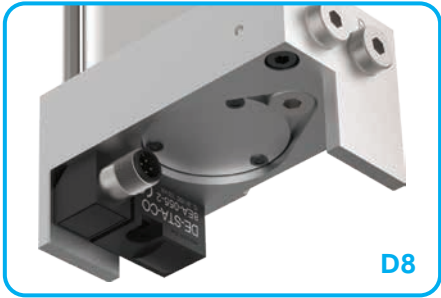


82P50-720 D8 A 0 01 00

Base Model	Description
82P50-720	50 mm Tandem Cylinder (G1/8 Port)
82P63-720	63 mm Tandem Cylinder (G1/8 Port)

Tolerance	Description
A	0-6 mm [0-0.236 in] tolerance compensation

Sensor	Description
D8	Inductive Sensing System with M12x1 Connector (8EA-151-1)



D8

Sensor Cables Order separately

Order No.	Description
8EL-003-1	M12x1, Angular, 4-pin Connector with 5 m [16 ft.] Cable



82P50-720

Max Clamping Force
1500 N [337 lbf]
at 5 bar [72 psi]

82P63-720

Max Clamping Force
2500 N [562 lbf]
at 5 bar [72 psi]



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82P50-720, 82P63-720

Pneumatic Pin Clamps | Tolerance Compensation

Hooks For 82P50
01 for Flange Hole
03 for Flat Hole



Hooks For 82P63
02 for Flange Hole
04 for Flat Hole



Centering Pin	For 82P50	with Hook
00	None	01 or 03
01	18 mm Round	01 or 03
02	20 mm Round	01 or 03
06	19,9 mm Round	01 or 03
07	19,9 mm Diamond	01 or 03



Centering Pin	For 82P63	with Hook
00	None	02 or 04
03	30 mm Round	02
04	30 mm Diamond	02
05	25 mm Round	02
08	23 mm Round	02
09	28 mm Round	02
10	40 mm Round	04
11	40 mm Diamond	04



82P50-1732

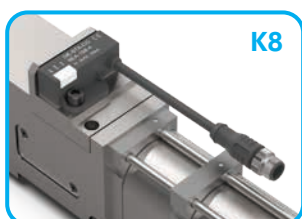
Pneumatic Centering Pin Clamps | Tolerance Compensation

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Base Model	Description
82P50-1732	50 mm Tandem Cylinder

Sensor	Description
K8	PNP Sensor with M12x1 Cable Connector (8EA-158-4-B)

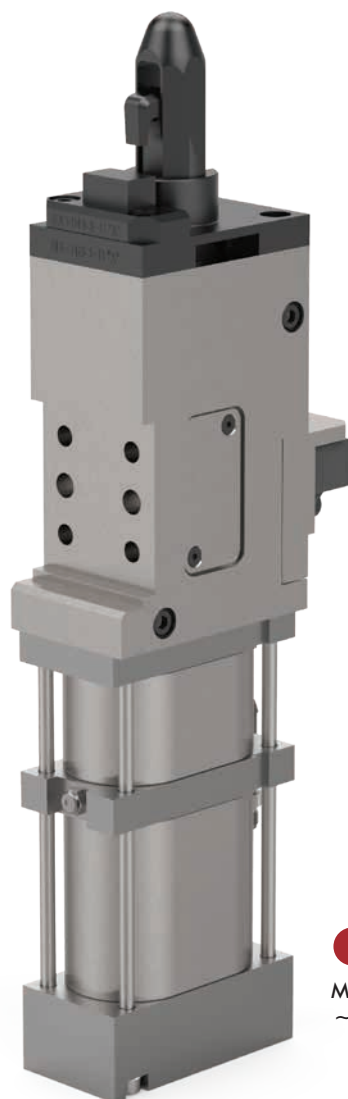
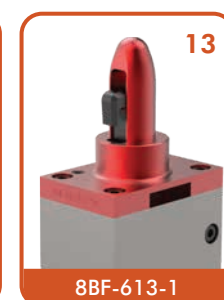
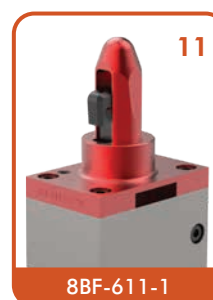


Tolerance	Description
B	7 mm Tolerance Compensation

Clamping Hooks	for Component Thicknesses
03	1,5 – 8,5 [0.06 – 0.33]
09	2,5 – 9,5 [0.10 – 0.37]



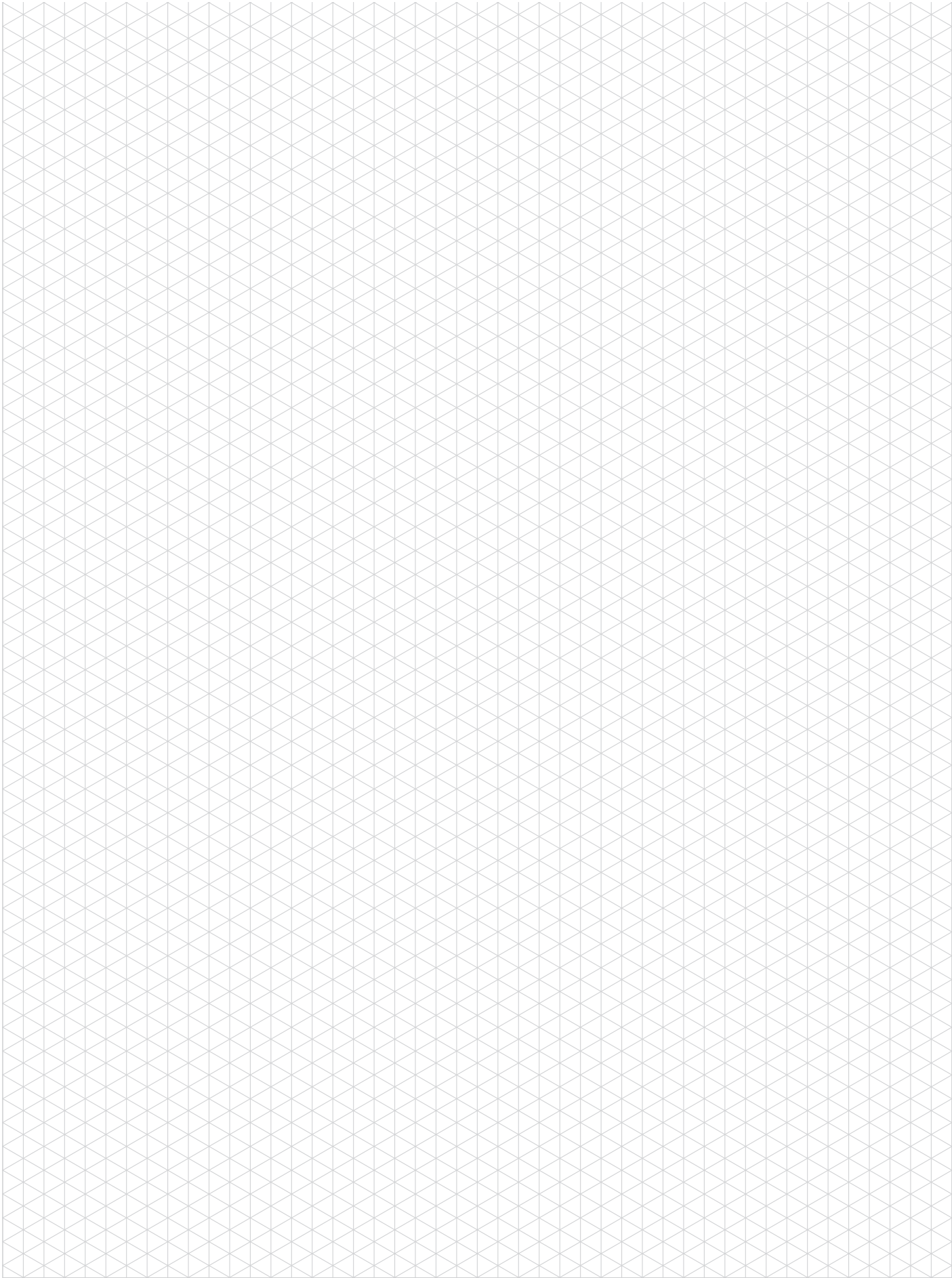
Centering Pin/Support	Pin Diameter and Tolerance	Centering Pin Shape	Component Material
19	N/A	Support Only	Steel/Aluminum
11	Ø 24,85 -0,05	Diamond Pin	Steel
13	Ø 22,00 -0,05	Round Pin	
40	Ø 24,85 -0,05		Aluminum
41	Ø 22,00 -0,05		
43	Ø 24,85 -0,05	Diamond Pin	



82P50-1732
Max. Clamping Force
~1500 N [~337 lbf]
at 5 bar [72 psi]

Sensor Cables Order separately

Order No.	Description
8EL-002-1	M12x1, Straight, 4-pin Connector with 5 m [16 ft.] Cable



82P50-1800

Pneumatic Centering Pin Clamp | Tolerance Compensation

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82P50-1800

L8

A

01

0

0

0

Base Model

Description

82P50-1800

Tolerance Compensation
0 - 5 mm [0 - 0.197 in]

Sensor

L8

Description

PNP Sensor with
M12x1 In-line Connector
(8EA-146-4-B and 8EA-163-G)



Support Shape

A

Standard

B

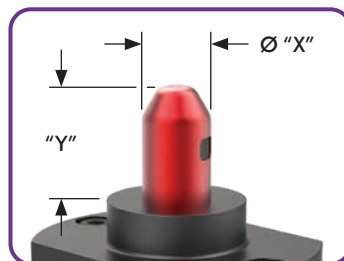
Flange Hole Down

D

Chamfered



Pin Diameter	Pin Ø "X" mm ^{-0,05}	Pin Height "Y" mm
01	15,8	
02	19,8	26
03	20,8	
04	29,8	38
05	15,5	26
06	29,8	38



CNOMO fixing
with adaptor
shown. Order
Separately:
8MA-538-1



82P50-1800

Max. Clamping Force
600 N [135 lbf]
bei 5 bar [72 psi]

Sensor Cables Order separately

Order No.	Description
8EL-002-1	M12x1, Straight, 5-pin Connector with 5 m [16 ft.] Cable
8EL-003-1	M12x1, Angular, 4-pin Connector with 5 m [16 ft.] Cable



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82P50-1800

Pneumatic Centering Pin Clamp | Tolerance Compensation

Pin Shape	Description	Release Dimension "X"
0	Round	
1	Pin Clipping	"X" = Pin Ø minus 0.8 mm
3	Pin Release on Flat Parallel of Finger	Pin Ø Flat "X" Ø15,8 14,5 mm Ø29,8 21,0 mm



Support Height	Description
0	10 mm
1	50 mm
2	100 mm



Finger Shape	Desc.
0	Full
1	Hook



Configuration Compatibility Chart

Determine the most important option, then find compatible combination of options within each row.

Pin Diameter	Support Shape			Pin Shape				Support Height			Finger Shape	
	Standard	Flange Hole Down	Chamfer	Round	Pin Clipping	Flat	Door Case	10 mm	50 mm	100 mm	Full	Hook
	A	B	D	0	1	3	4	0	1	2	0	1
01 Ø15,8	•			•	•	•	•	•			•	
	•			•					•		•	
			•	•	•	•				•	•	
02 Ø19,8	•			•				•			•	
		•			•			•				•
03 Ø20,8	•			•						•	•	
	•				•					•		•
04 Ø29,8	•			•	•			•			•	•
	•					•		•			•	
		•		•				•				•
05 Ø15,5	•			•				•			•	
06 Ø29,8		•				•		•				•

82U50

Pneumatic Pin Clamp | Pallet Clamp

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82U50 - 300 L1 00

Accessories
00
Description
No Accessories

Size	Description
300	Front, top or bottom mounting
330	Top or bottom mounting only

Sensor	Description
L1	Without Sensing System
C8	Inductive Sensing System with M8x1 Connector (8EA-023-2)
B7	Inductive Sensing System, M12x1 Connector (8EA-060-1)
B8	Inductive Sensing System with M12x1 Cable Connector (8EA-031-1)



82U50-300

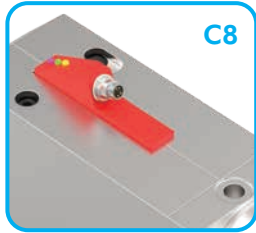
Max Holding/Clamping Force
4000 N [899 lbf] 5 bar [72 psi]

82U50-330

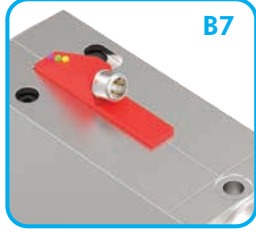
Max Holding/Clamping Force
4000 N [899 lbf] 5 bar [72 psi]



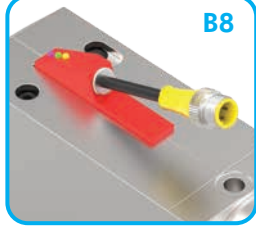
L1



C8



B7



B8

Sensor Cables Order separately

Order No.	Description
8EL-009-1	M8x1, Straight, 4-pin Connector with 5 m [16 ft.] Cable
8EL-007-1	M8x1, Angular, 4-pin Connector with 5 m [16 ft.] Cable
8EL-002-1	M12x1, Straight, 5-pin Connector with 5 m [16 ft.] Cable
8EL-003-1	M12x1, Angular, 4-pin Connector with 5 m [16 ft.] Cable



Pneumatic Pin Package | Single Shaft



K8/K9

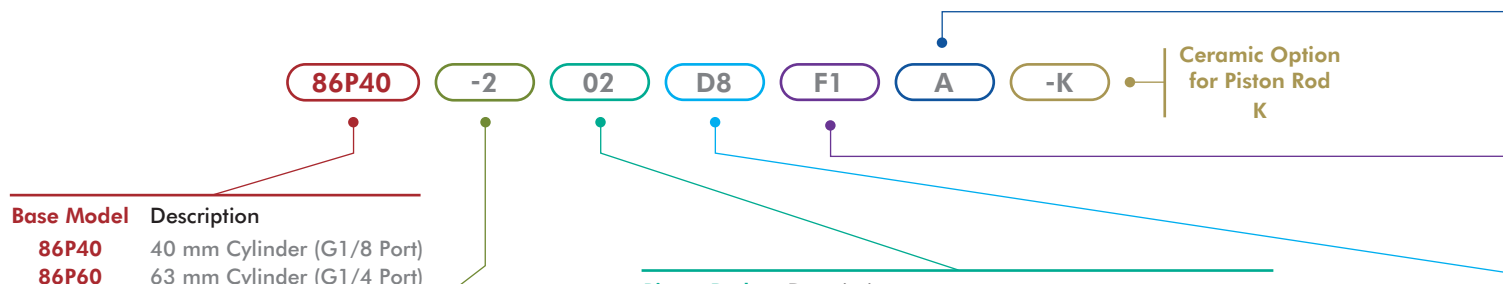
Order No.	Description
8EL-002-1	M12x1, Straight, 5-pin Connector with 5 m [16 ft.] Cable
8EL-003-1	M12x1, Angular, 4-pin Connector with 5 m [16 ft.] Cable

Stroke Option:	2, 4
Max Pushing Force at 5 bar [72 psi]:	340 N [76 lbf]
Max Retracting Force at 5 bar [72 psi]:	250 N [56 lbf]

86P40, 86P60

Pneumatic Pin Package | Single Shaft

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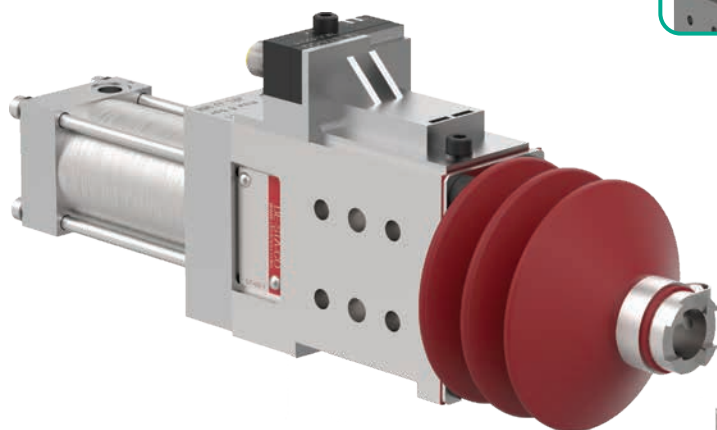


Base Model	Description
86P40	40 mm Cylinder (G1/8 Port)
86P60	63 mm Cylinder (G1/4 Port)

Hand Lever	Description
-2	No Handle
H2	Handle for Manual Control for 86P60 only (excludes F, 8 stroke option)



Piston Rod	Description
01	Ø16 mm Inside Hole (Standard)
02	Ø16 mm M6 Threaded Inside Hole, Cross Groove
04	NAAMS Standard
A4	NAAMS Standard Rotated 180°
B4	NAAMS Standard Rotated 90°
C4	NAAMS Standard Rotated 270°
05	Ø10 mm Inside Hole, Cross Groove
07	Ø16 mm Inside Hole, NAAMS
09	Ø20 mm Straight Groove
10	Ø12 mm Straight Groove



Stroke Option:

Max Pushing Force at 5 bar [72 psi]:

Max Retracting Force at 5 bar [72 psi]:

B, A, 2, 4 C, 6 F, 8

620 N [139 lbf]

520 N [117 lbf]

86P60

B, A, 2, 4 C, 6 F, 8

1550 N [348 lbf]

1400 N [315 lbf]

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86P40, 86P60

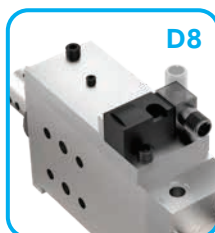
Pneumatic Pin Package | Single Shaft

Accessories**Description**

- 00** No Accessories
- F1** Bellows for piston rods **02, 05, 07, 10** in strokes **B, A, 2, 4** (82ZB-013-3)
- R1** Guide Bushing for piston rods **01, 02, 05** (82ZB-192-1)

**Sensor****Description**

- L4** Cover Plate for **B, A, 2, 4** (86P0-200L4)
- L6** Cover Plate for **C, 6** (86P0-200L6)
- L8** Cover Plate for **F, 8** (86P0-200L8)
- D8** Inductive Sensing System with 90° M12x1 Swivel Connector for **B, A, 2, 4** (86P0-200D8), for **C, 6** (86P0-200D8006), for **F, 8** (86P0-200D8008)

**Sensor Cables** Order separately

Order No.	Description
8EL-002-1	M12x1, Straight, 5-pin Connector with 5 m [16 ft.] Cable
8EL-003-1	M12x1, Angular, 4-pin Connector with 5 m [16 ft.] Cable

Stroke**Description**

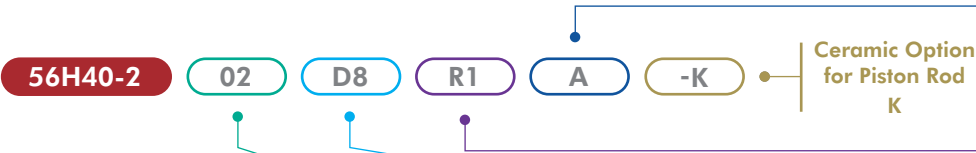
- Anti-Twist Device/Low Accuracy**
- B** 20 mm Stroke (8MF-071-1)
- A** 40 mm Stroke (8CE-231-1)
- C** 60 mm Stroke (8CE-231-1)
- F** 80 mm Stroke (8CE-231-1)
- Anti-Twist Device**
- 2** 20 mm Stroke (86P0-20000002)
- 4** 40 mm Stroke (86P0-20000004)
- 6** 60 mm Stroke (86P0-20000006)
- 8** 80 mm Stroke (86P0-20000008)



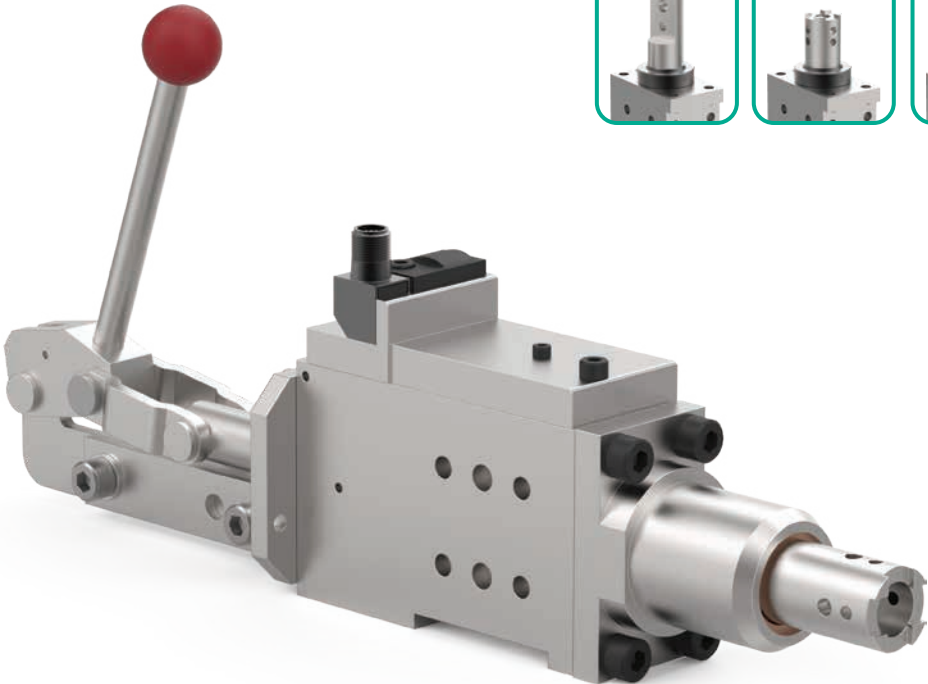
56H40-2

Manual Pin Package | Single Shaft

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Piston Rod	Description
01	Ø16 mm Inside Hole (Standard)
02	Ø16 mm M6 Threaded Inside Hole, Cross Groove
04	NAAMS Standard
A4	NAAMS Standard Rotated 180°
B4	NAAMS Standard Rotated 90°
C4	NAAMS Standard Rotated 270°
05	Ø10 mm Inside Hole, Cross Groove
07	Ø16 mm Inside Hole, NAAMS
09	Ø20 mm Straight Groove
10	Ø12 mm Straight Groove



56H40-2

Stroke Option: B, A, 2, 4 C, 6



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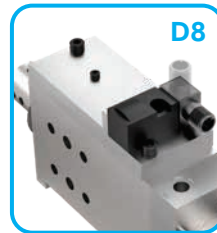
56H40-2

Manual Pin Package | Single Shaft

Accessories	Description
00	No Accessories
F1	Bellows for piston rods 02, 05, 07, 10 in strokes B, A, 2, 4 (82ZB-013-3)
R1	Guide Bushing for piston rods 01, 02, 05 (82ZB-192-1)



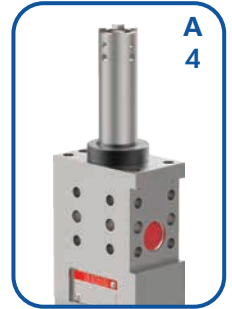
Sensor	Description
L4	Cover Plate for B, A, 2, 4 (86P0-200L4)
L6	Cover Plate for C, 6 (86P0-200L6)
D8	Inductive Sensing System with 90° M12x1 Swivel Connector for B, A, 2, 4 (86P0-200D8), for C, 6 (86P0-200D8006)



Sensor Cables Order separately

Order No.	Description
8EL-002-1	M12x1, Straight, 5-pin Connector with 5 m [16 ft.] Cable
8EL-003-1	M12x1, Angular, 4-pin Connector with 5 m [16 ft.] Cable

Stroke	Description
	Anti-Twist Device/Low Accuracy
B	20 mm Stroke (8MF-071-1)
A	40 mm Stroke (8CE-231-1)
C	60 mm Stroke (8CE-231-1)
	Anti-Twist Device
2	20 mm Stroke (86P0-20000002)
4	40 mm Stroke (86P0-20000004)
6	60 mm Stroke (86P0-20000006)



85P5-1

Pneumatic Pin Package | Single Shaft

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85P5-1

04

B8

E1

H

0

-K

Plunger

Description

K Ceramic Coated Plunger

Stroke

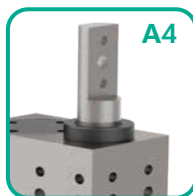
Description

0 without Stroke Limiter

Piston Rod

Description

- 02** Ø16 mm M6 Threaded Inside Hole, Cross Groove
- 04** NAAMS Standard
- A4** NAAMS Standard Rotated 180°
- 05** Ø10 mm Inside Hole, Cross Groove



Accessories

Description

- 00** No Accessories
- E1*** External Guide (82ZB-010-2)
*External Guide can be mounted to front or sides of unit by customer.



Hand Lever

Description

- 0** No Hand Lever
- H*** Hand Lever
*Hand Lever can be attached on either side of unit.



Sensor

Description

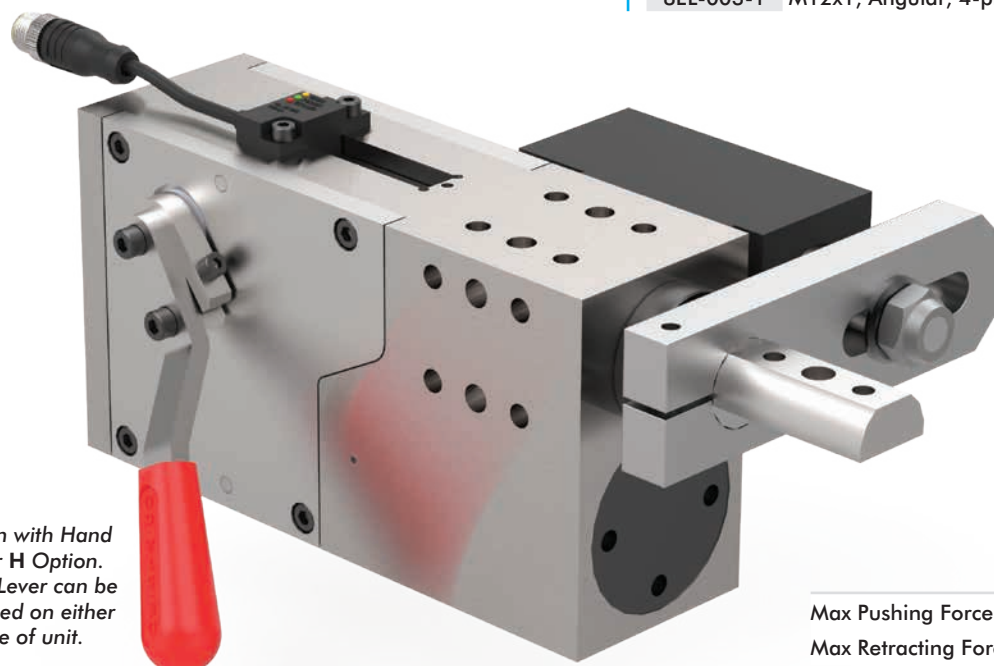
- 00** Without Sensing System
- B8** Inductive Sensing System with M12x1 Cable Connector (8EA-033-2)



Sensor Cables

Order separately

Order No.	Description
8EL-002-1	M12x1, Straight, 5-pin Connector with 5 m [16 ft.] Cable
8EL-003-1	M12x1, Angular, 4-pin Connector with 5 m [16 ft.] Cable



Shown with Hand Lever H Option. Hand Lever can be attached on either side of unit.

External Guide E1 option shown. Can be mounted to front or sides of unit by customer.

85P5-1

Max Pushing Force at 6 bar [87 psi]: 2000 N [449 lbf]
Max Retracting Force at 6 bar [87 psi]: 1000 N [225 lbf]



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85D5-2

Pneumatic Pin Package | Dual Shaft

85D5-2

C4

L8

10

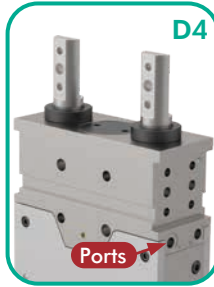
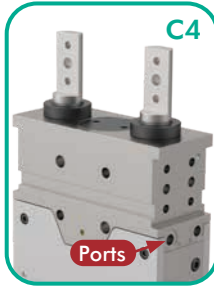
H0

4

Stroke
4

Description
40 mm Stroke

Piston Rod	Description
C4	NAAMS Standard
D4	NAAMS Standard Rotated 180°

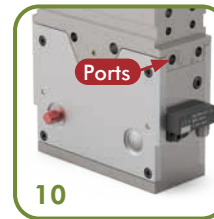


Hand Lever	Description
00	No Hand Lever
H0	Standard Hand Lever
HS	Weldable Hand Lever

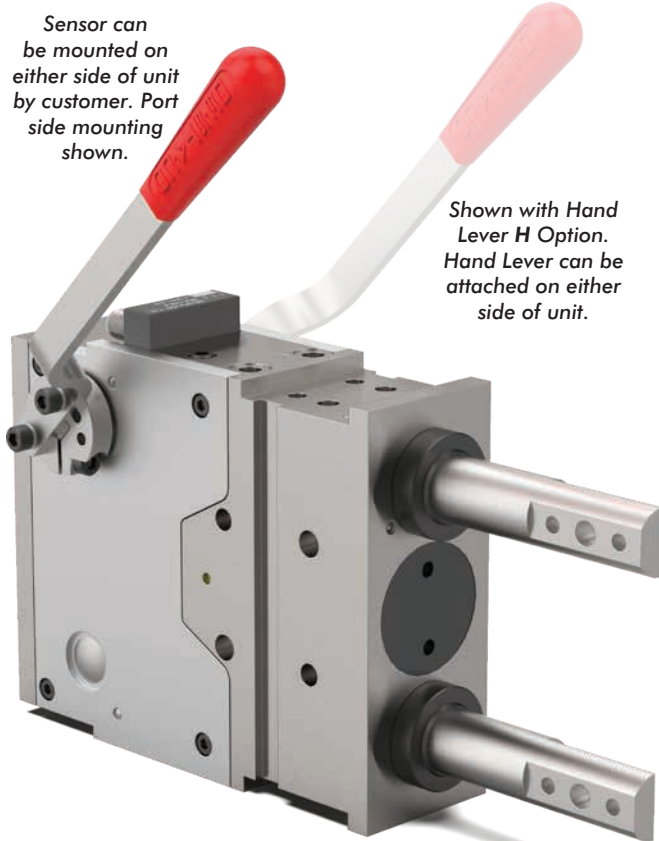


Hand Lever Shafts*	Description
10	Non-port side
20	Port side

*Hand Lever can be attached on either side of unit.



Sensor can be mounted on either side of unit by customer. Port side mounting shown.



Shown with Hand Lever H Option. Hand Lever can be attached on either side of unit.

85D5-2

Max Pushing Force at 6 bar [87 psi]: 3000 N [674 lbf]
Max Retracting Force at 6 bar [87 psi]: 3000 N [674 lbf]

Sensor Cables Order separately

Order No.	Description
8EL-002-1	M12x1, Straight, 5-pin Connector with 5 m [16 ft.] Cable
8EL-003-1	M12x1, Angular, 4-pin Connector with 5 m [16 ft.] Cable

Sensor*	Description
00	Without Sensing System
L8	PNP Sensor with In-line M12x1 Connector (8EA-146-4-B)
N8	NPN Sensor with In-line M12x1 Connector (8EA-154-4-B)
L9	PNP Sensor with 90° M12x1 Connector (8EA-147-4-B)
N9	NPN Sensor with 90° M12x1 Connector (8EA-155-4-B)
K8	PNP Sensor with M12x1 Cable Connector (8EA-158-4-B)
K9	NPN Sensor with M12x1 Cable Connector (8EA-167-4-B)

*Sensors can be mounted on opposite side by customer.



86D40, 86D60

Pneumatic Pin Package | Dual Shaft

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86D40

-1

A4

D8

00

A

K

Plunger
K

Description
Ceramic Option
for Piston Rod

Base Model

Base Model	Description
86D40	40 mm Cylinder (G1/8 Port)
86D60	63 mm Cylinder (G1/4 Port)

Hand Lever

Hand Lever	Description
-1	No Hand Lever
H1	Handle for Manual Control (86D60 only)

Piston Rod

Piston Rod	Description
04	NAAMS Standard
A4	NAAMS Standard Rotated 180°
11	Dual Bolt Mounting (86D40-1 Only)

Accessories

Accessories	Description
00	No Accessories
01	Locking Device for Retracted Position. Mountable on both sides (H1 only) (86D60H1000001)

Stroke

Stroke	for 86D40
B	20 mm Stroke (86D40-1000000B)
A	40 mm Stroke (86D40-1000000A)

Stroke

Stroke	for 86D60
B	20 mm Stroke (86D0-1000000B)
A	40 mm Stroke (86D0-1000000A)
C	60 mm Stroke (86D0-1000000C)

Sensor*

Sensor*	for 86D40
L4	Cover Plate (86D0-100L4)
D8	with 90° M12x1 Swivel Connector (86D40-100D8)

*Sensors can be mounted on opposite side by customer.

Sensor*

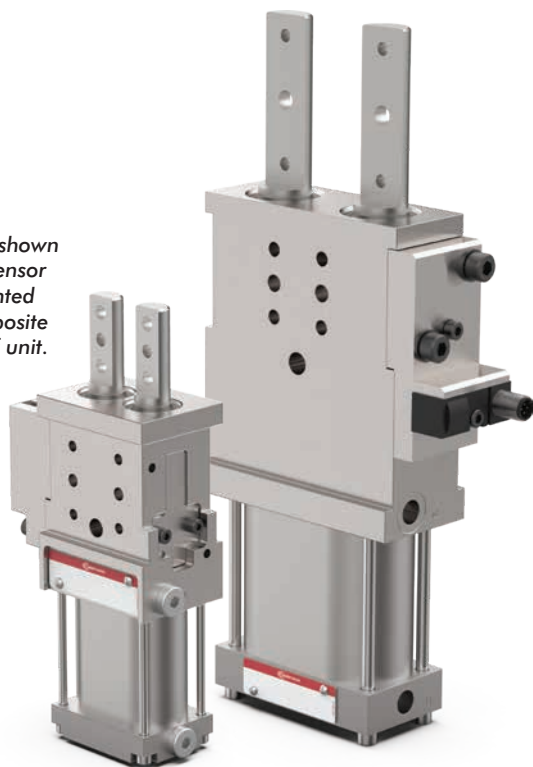
Sensor*	for 86D60
L6	Cover Plate (86D0-100L6)
D8	with 90° M12x1 Swivel Connector (86D0-100D8)

*Sensors can be mounted on opposite side by customer.

Sensor Cables Order separately

Order No.	Description
8EL-002-1	M12x1, Straight, 5-pin Connector w/5 m [16 ft.] Cable
8EL-003-1	M12x1, Angular, 4-pin Connector w/5 m [16 ft.] Cable

86D40 shown
with sensor
mounted
on opposite
side of unit.



86D40-1

86D60-1

Max Pushing Force at 5 bar [72 psi]: 700 N [157 lbf] 1500 N [337 lbf]
Max Retracting Force at 5 bar [72 psi]: 600 N [135 lbf] 1100 N [247 lbf]



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56D60-1

Manual Pin Package | Dual Shaft

56D60-1

04

D8

01

A

K

Plunger

K

Description
Ceramic Option
for Piston Rod

Piston Rod

04

NAAMS Standard

A4

NAAMS Standard Rotated 180°

04

A4

Accessories

00

No Accessories

01

Locking Device for Retracted
Position. Mountable on both sides
(86D60H1000001)

01

Stroke

B

20 mm Stroke (86D0-1000000B)

A

40 mm Stroke (86D0-1000000A)

C

60 mm Stroke (86D0-1000000C)

B

A

C

Sensor*

L6

D8

Description
Cover Plate (86D0-100L6)
with 90° M12x1 Swivel Connector (86D0-100D8)
*Sensors can be mounted on opposite side by customer.

L6

D8

Sensor Cables

Order separately

Order No.	Description
8EL-002-1	M12x1, Straight, 5-pin Connector w/5 m [16 ft.] Cable
8EL-003-1	M12x1, Angular, 4-pin Connector w/5 m [16 ft.] Cable

56D60-1

Stroke Option: **B, A, C**

RCM/RFM

Pneumatic Pivot Unit | Medium Duty

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full catalog pages
on products



Base

RCM

RFM

Description

Standard

Integrated Braking

Cylinder

Description

100

100 mm Bore

125

125 mm Bore

160

160 mm Bore

200

200 mm Bore

Opening Angles

100

125, 160, 200

O

O/LS

V

V/LS

O

O/LS

V

V/LS

N/A

15°

29°

30°

45°

43°

61°

61°

77°

76°

92°

N/A

92°

91°

N/A

91°

104°

N/A

104°

107°

N/A

129°

121°

N/A

121°

N/A

129°

Opening angles are easily field adjustable.

Saddle Orientation

Description

O

V

O/LS

V/LS

Horizontal

Vertical

Inverted Horizontal

Inverted Vertical

O

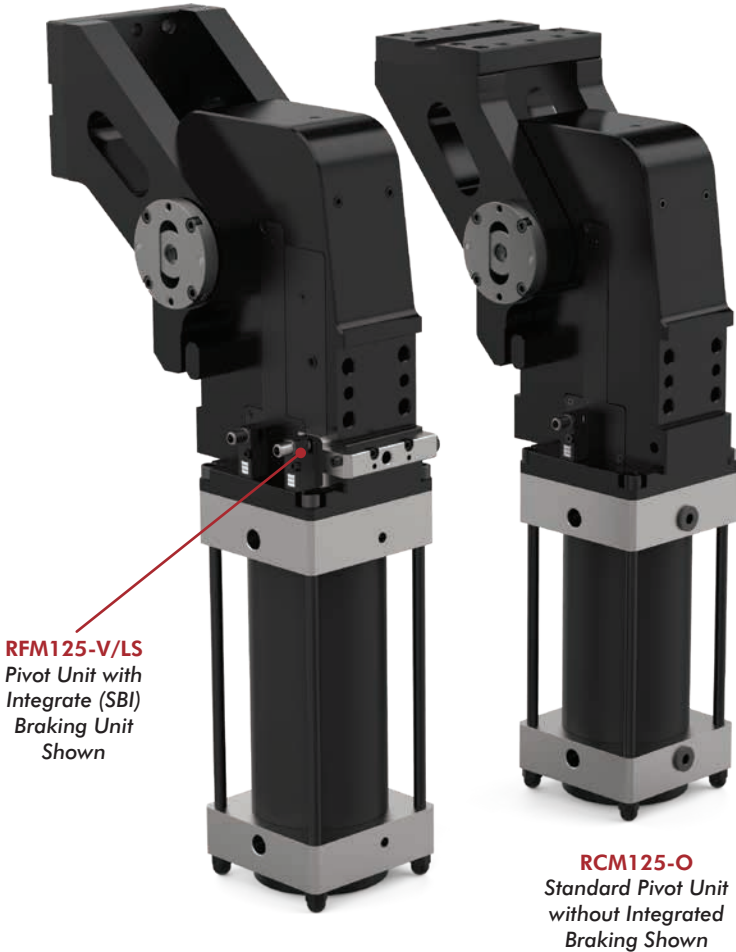
O/LS

V

V/LS

V

V/LS



RFM125-V/LS
Pivot Unit with
Integrate (SBI)
Braking Unit
Shown

RCM125-O
Standard Pivot Unit
without Integrated
Braking Shown

RCM Series

RCM100-O

RCM125-O

RCM160-O

RCM200-O

RFM Series

RFM100-V

RFM125-V

RFM160-V

RFM200-V



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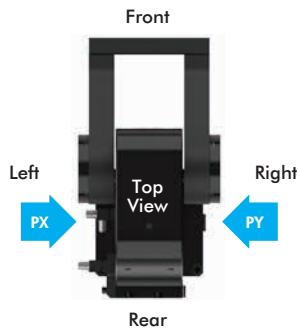
RCM/RFM

Pneumatic Pivot Unit | Medium Duty

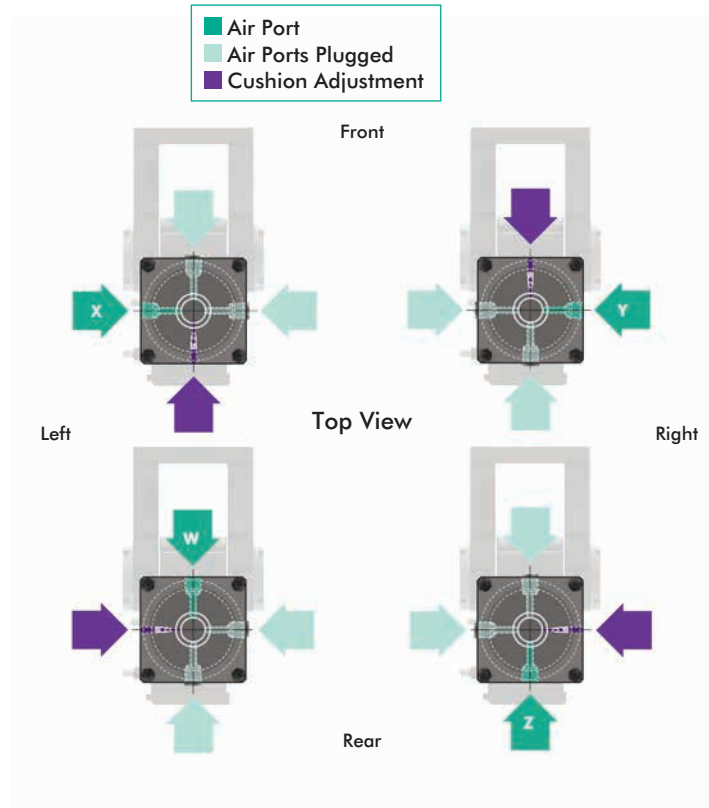
Ports	Description
N	NPT Ports
G	G Port

Proximity Switch Type	Description
O	No Proximity Switch
P	Pepperl+Fuchs Proximity Switch
T	Turck Proximity Switch

Proximity Switch Location	Description
PO	No Proximity Switch
PX	Proximity Switch on Left-Side
PY	Proximity Switch on Right-Side

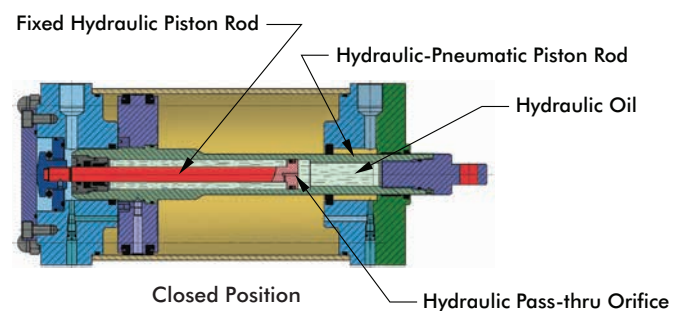
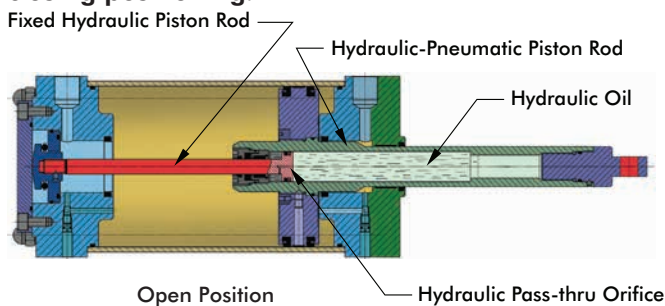


Cylinder Orientation	Description
X	Left-Facing Airport
Y	Right-Facing Airport
W	Front-Facing Airport
Z	Rear-Facing Airport



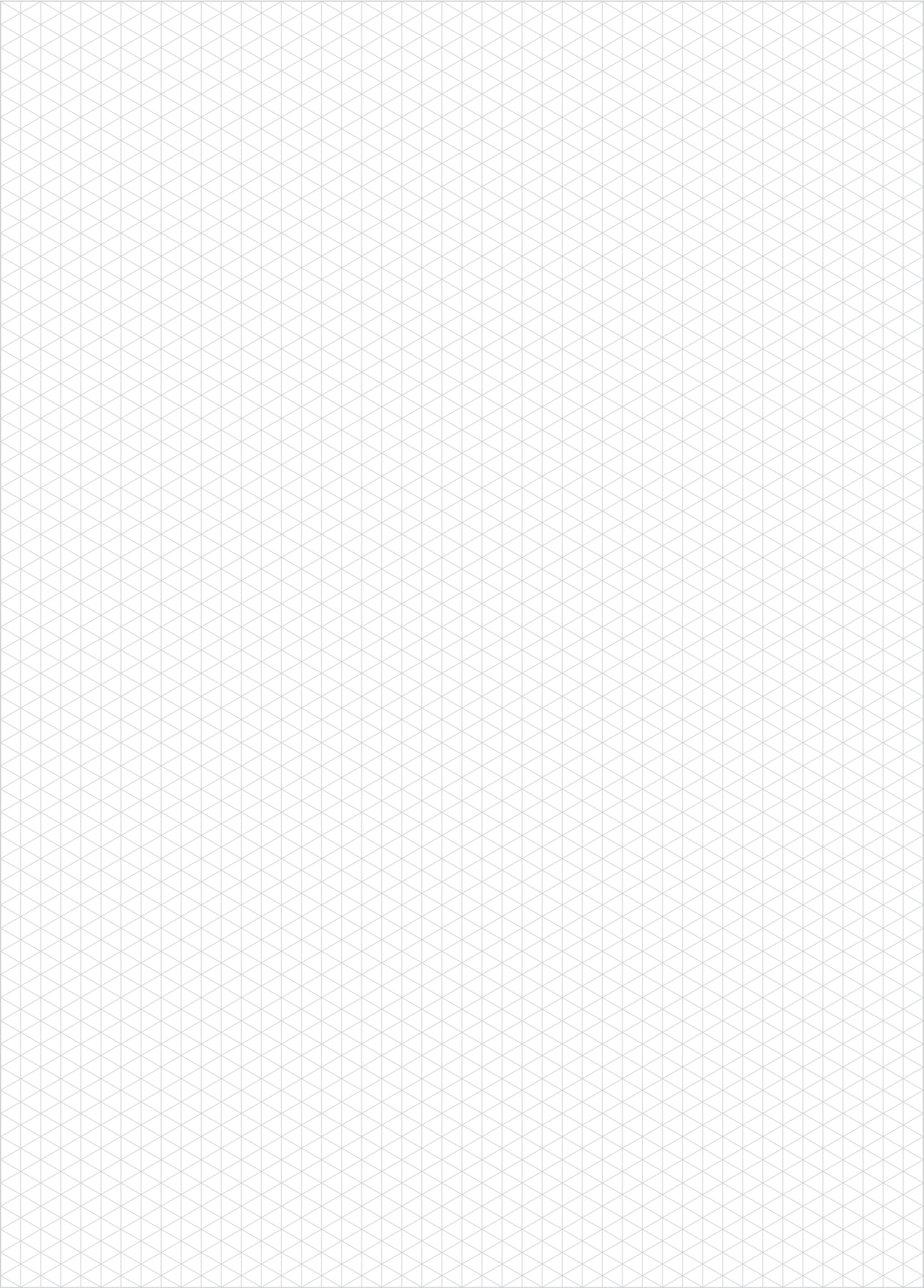
Cylinder Operating Principle

The RCM/RFM series pivot units uses a combined pneumatic and hydraulic cylinder, using a hydraulic/pneumatic piston rod within the standard pneumatic cylinder structure. This will allow for standard pneumatic operation while providing shock absorption or dampening in heavy duty applications during opening and closing positioning.



Specifications	Units	100	125	160	200
Max Torque by Load [5 bar] Opening Angle $\leq 92^\circ$	Nm [ft-lbs]	150 [111]	240 [171]	410 [302]	660 [487]
Max Torque by Load [5 bar] Opening Angle $> 92^\circ / \leq 121^\circ$	Nm [ft-lbs]	110 [81]	180 [133]	300 [221]	480 [354]
Max Torque by Load [5 bar] Opening angle $> 121^\circ$	Nm [ft-lbs]	55 [41]	65 [48]	100 [74]	175 [129]
Holding Moment	Nm [ft-lbs]	2000 [1475]	3500 [2581]		
RCM Weight	kg [lbs]	27 [60]	61 [134]	74 [163]	81 [178]
RFM Weight	kg [lbs]	30 [66]	64 [141]	77 [169]	84 [185]

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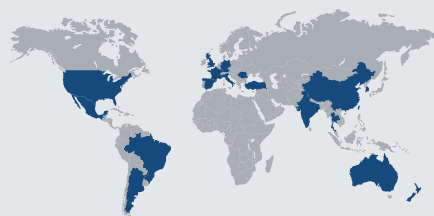
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Industries



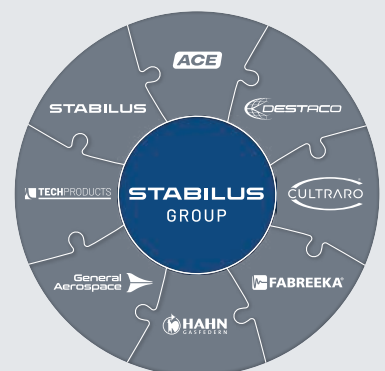
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