



# CLAMPING TECHNOLOGY VOL. 2

## CLAMPING AND LOCATING

[destaco.com](http://destaco.com)

### VISUAL SELECTION GUIDE

#### MARKETS



AEROSPACE



CONSUMER GOODS



FOOD & PACKAGING



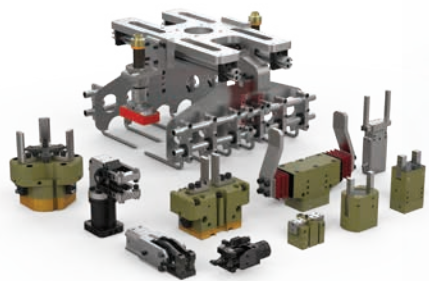
INDUSTRIAL



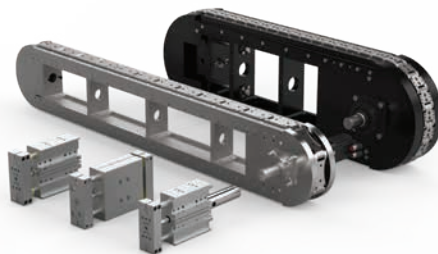
TRANSPORTATION

# 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 €1.2 billion in the 2023 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](http://destaco.com) and [group.stabilus.com](http://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 & Electric Power Clamps, Pin Clamps/Packages, and Pivot Units

### Clamp with Confidence

#### Markets



Transportation



Aerospace



Food & Packaging



Industrial



Consumer Goods

#### Applications



Assembly



Welding



Fixture and Testing



White Goods/  
Appliance



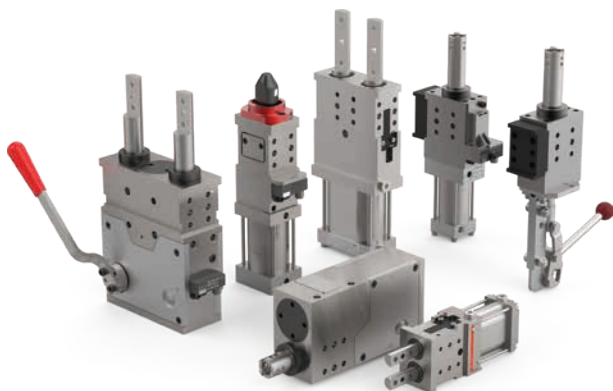
CNC/Machining



Electric Products



Pneumatic Power Clamps



Pneumatic Pin Clamps and Packages



Pneumatic Pivot Units



Electric Body-in-White Solutions

# PNEUMATIC & ELECTRIC CLAMPING SOLUTIONS

## Table of Contents



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Pin Clamps..... 36



Pin Packages ..... 45



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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 16 & 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 20



## 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 34



## 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 42



## 82P50-1732 Series

Tolerance Compensation Centering Pin Clamp

- 0 - 6mm of tolerance compensation
- Size 50mm tandem oval cylinder
- Inductive two-piece sensor mounted on the back of the clamp

See Page 40



## 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 54



## 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 45



# 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	14	●					●				●							
82L-4	15	●					●				●●							
82L-3E	16	●●					●●				●●							
TCC-2	20	●●					●●								●●	●●		
82M-3E	22	●			●●		●●								●●	●●	●●	
52H-3E	24				●													
870/871	30	●					●								●			
860/861	31			●				●								●		
890/891	31				●			●									●	
1000/1001	31					●			●								●●	●●
82D	32		●				●●								●		●	
84A	34	●●					●●								●●			



# PNEUMATIC & ELECTRIC PRECISION GUIDES/LIFTERS

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## Sizing and Application Chart



Pneumatic



Electric



Series	Page #	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] dm <sup>3</sup> [in <sup>3</sup> ]	Applications
95W-1	11	20 [0.79]	0 to 500 [0 to 112.4]	0 to 1000 [0 to 899]	Electric	7,3 to 9,1 [16 to 20]	0,7 [42.7]	Welding Assembly Dirty Environment End Effectors Machining Duty Cycle
VV85G-15020	35	40 [1.57]	500 to 1000 [0 to 112.4]	1000 to 4000 [0 to 899]	Pneumatic	13,2 [29.1]	1,1 [67]	Welding Assembly Dirty Environment End Effectors Machining Duty Cycle
VV85G-15040	35	60 [2.36]	0 to 500 [0 to 112.4]	500 to 1000 [0 to 112.4]	Pneumatic	7,3 to 9,1 [16 to 20]	0,7 [42.7]	Welding Assembly Dirty Environment End Effectors Machining Duty Cycle

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

# 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 [72 psi] dm <sup>3</sup> [in <sup>3</sup> ]	Applications	Features
82P25-2	36	0 to 1000 [0 to 225]	25 [0.98]	Aluminum	0 to 2 [0 to 4.41]	0 to 0,5 [0 to 31]	Welding Assembly Dirty Environment End Effectors Machining Duty Cycle	Tolerance Compensating Inductive Sensors Dual Hooks Centering Pins Toggle Locking Self Locking
82P30-3	37	1000 to 2000 [225 to 450]	30 [1.18]	Steel	2 to 4 [4.41 to 8.82]	0,5 to 1,0 [31 to 61]	Welding Assembly Dirty Environment End Effectors Machining Duty Cycle	Tolerance Compensating Inductive Sensors Dual Hooks Centering Pins Toggle Locking Self Locking
82P35-3	37	2000 to 4000 [450 to 899]	35 [1.38]	Aluminum	0 to 0,5 [0 to 31]	1,0 to 2,0 [61 to 122]	Welding Assembly Dirty Environment End Effectors Machining Duty Cycle	Tolerance Compensating Inductive Sensors Dual Hooks Centering Pins Toggle Locking Self Locking
82P50-720	38	25 [0.98]	50 [1.97]	Aluminum	0 to 2 [0 to 4.41]	0 to 0,5 [0 to 31]	Welding Assembly Dirty Environment End Effectors Machining Duty Cycle	Tolerance Compensating Inductive Sensors Dual Hooks Centering Pins Toggle Locking Self Locking
82P63-720	38	30 [1.18]	63 [2.48]	Aluminum	2 to 4 [4.41 to 8.82]	0 to 0,5 [0 to 31]	Welding Assembly Dirty Environment End Effectors Machining Duty Cycle	Tolerance Compensating Inductive Sensors Dual Hooks Centering Pins Toggle Locking Self Locking
82P50-1732	40	35 [1.38]	50 [1.97]	Aluminum	0 to 2 [0 to 4.41]	0 to 0,5 [0 to 31]	Welding Assembly Dirty Environment End Effectors Machining Duty Cycle	Tolerance Compensating Inductive Sensors Dual Hooks Centering Pins Toggle Locking Self Locking
82P50-1800	42	50 [1.97]	63 [2.48]	Aluminum	2 to 4 [4.41 to 8.82]	0 to 0,5 [0 to 31]	Welding Assembly Dirty Environment End Effectors Machining Duty Cycle	Tolerance Compensating Inductive Sensors Dual Hooks Centering Pins Toggle Locking Self Locking
82U50-3	44	63 [2.48]	63 [2.48]	Aluminum	0 to 2 [0 to 4.41]	0 to 0,5 [0 to 31]	Welding Assembly Dirty Environment End Effectors Machining Duty Cycle	Tolerance Compensating Inductive Sensors Dual Hooks Centering Pins Toggle Locking Self Locking

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





# 92W-1

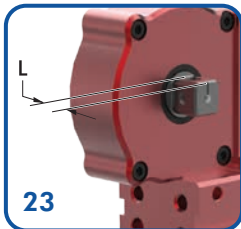
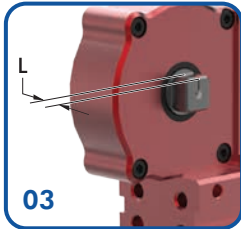
Enclosed Electric Power Clamps | Smart Clamp | How to Order

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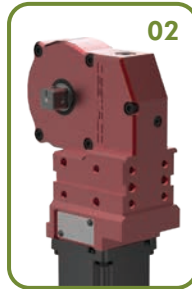


92W-1    23    00    02    02

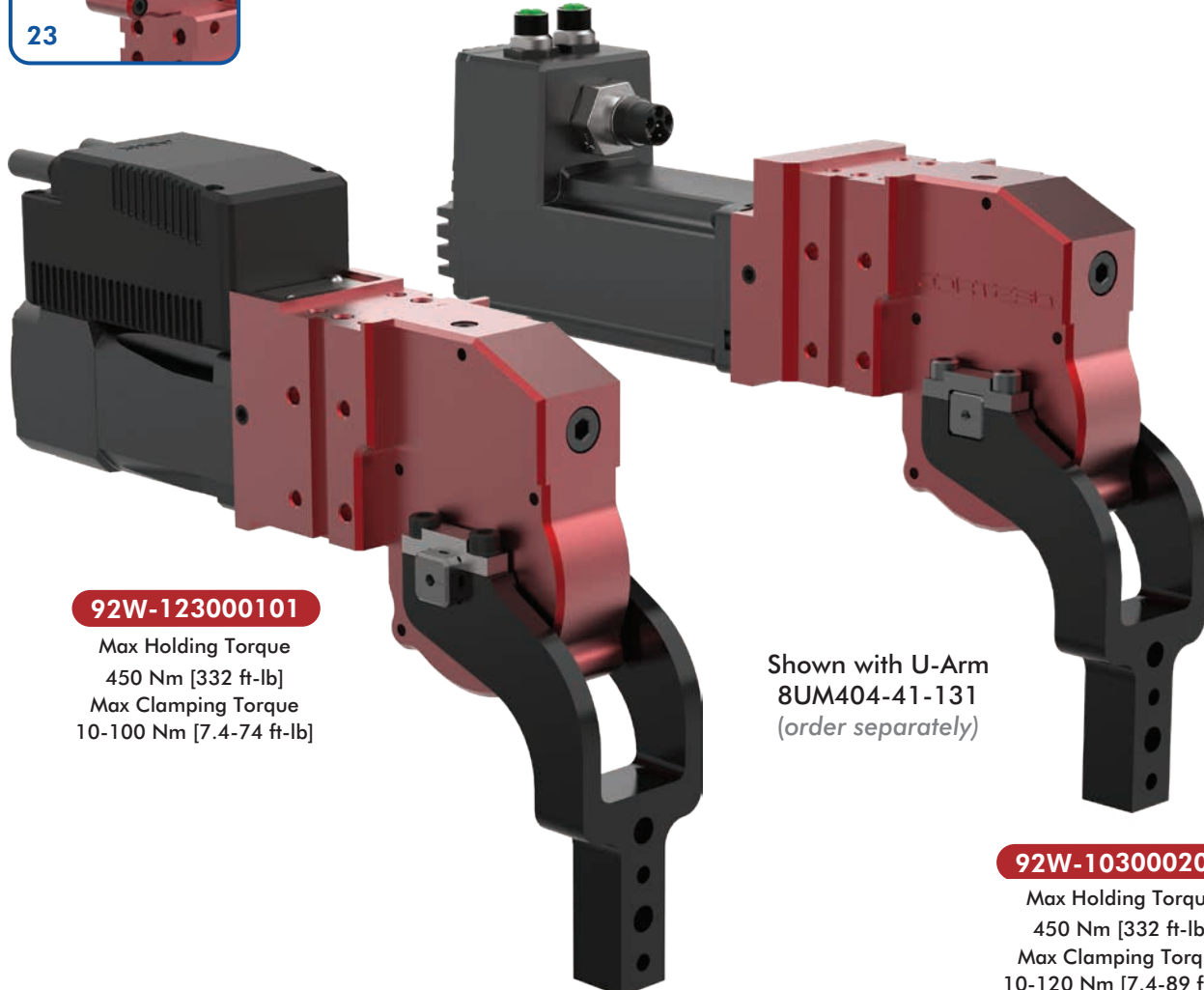
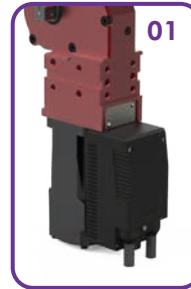
Clamp Arm Shaft	Shaft Length (L)
03	10 mm [0.39 in]
23	16 mm [0.63 in]



**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)

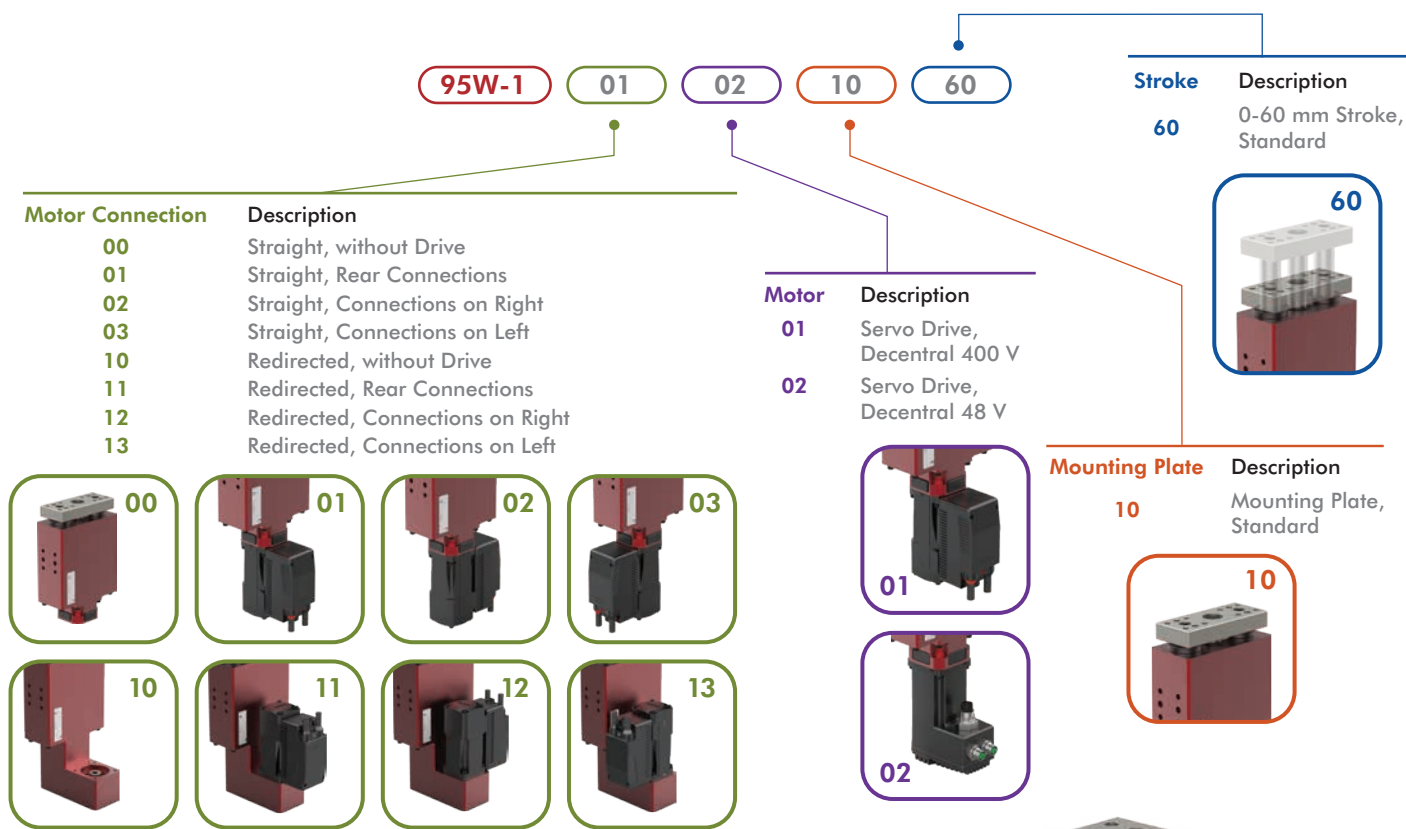
**92W-103000202**  
Max Holding Torque  
450 Nm [332 ft-lb]  
Max Clamping Torque  
10-120 Nm [7.4-89 ft-lb]



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# 95W-1

Electric Guide/Lifter | Smart Slide | How to Order



**95W-111021060**

Max Lifting/Holding Force  
1000 N [225 lbf]

**95W-101011060**

Max Lifting/Holding Force  
1000 N [225 lbf]

# 96W-1

Electric Pin Package | Smart Pin Package | How to Order

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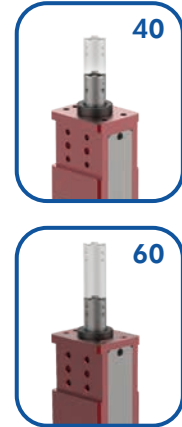
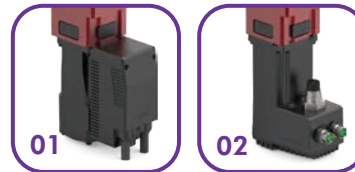


96W-1 01 02 A4 60

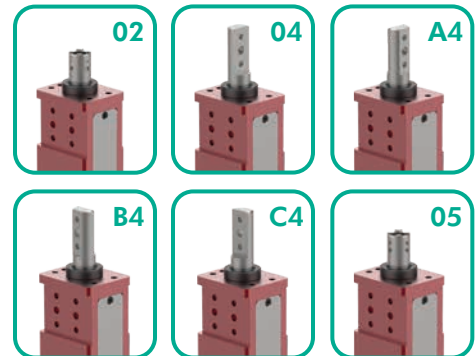
**Stroke** Description  
**40\*** 0-40 mm Stroke  
**60** 0-60 mm Stroke  
 \*Straight motor option only.

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

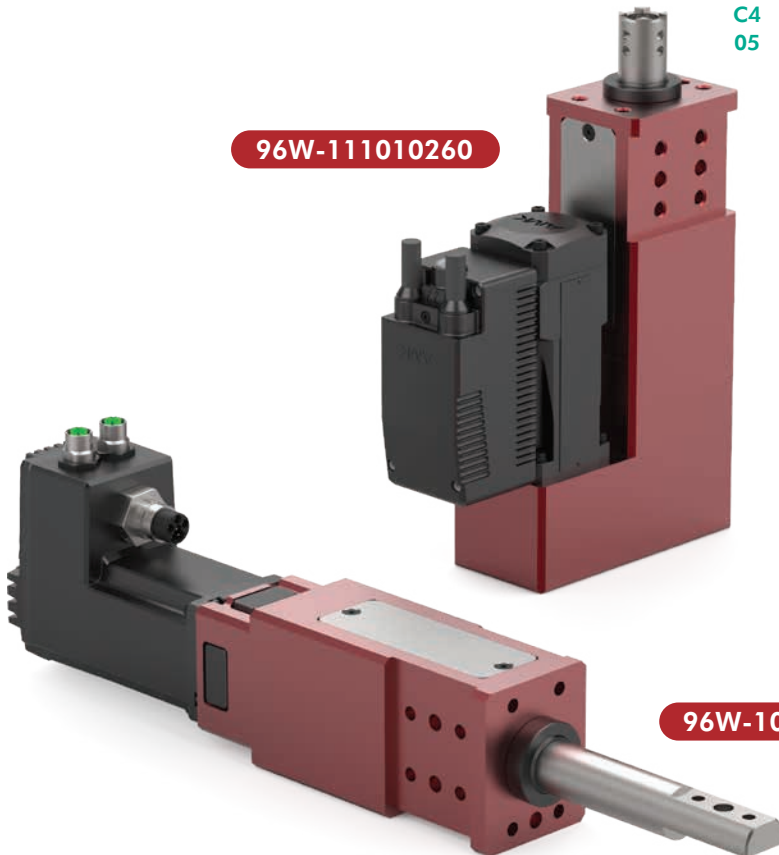
Motor	Description
01	Servo Drive, Decentral 400 V
02	Servo Drive, Decentral 48 V



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



96W-111010260



96W-10102A460



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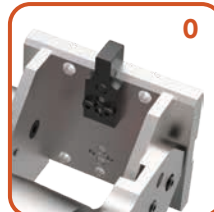
# 98W03-2

## Electric Pivot Unit | Ordering Information

**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

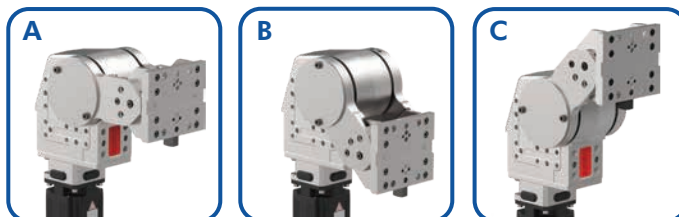
Hard Stop	Description
0	Standard Stop



Motor Connections	Description
0	Facing Back

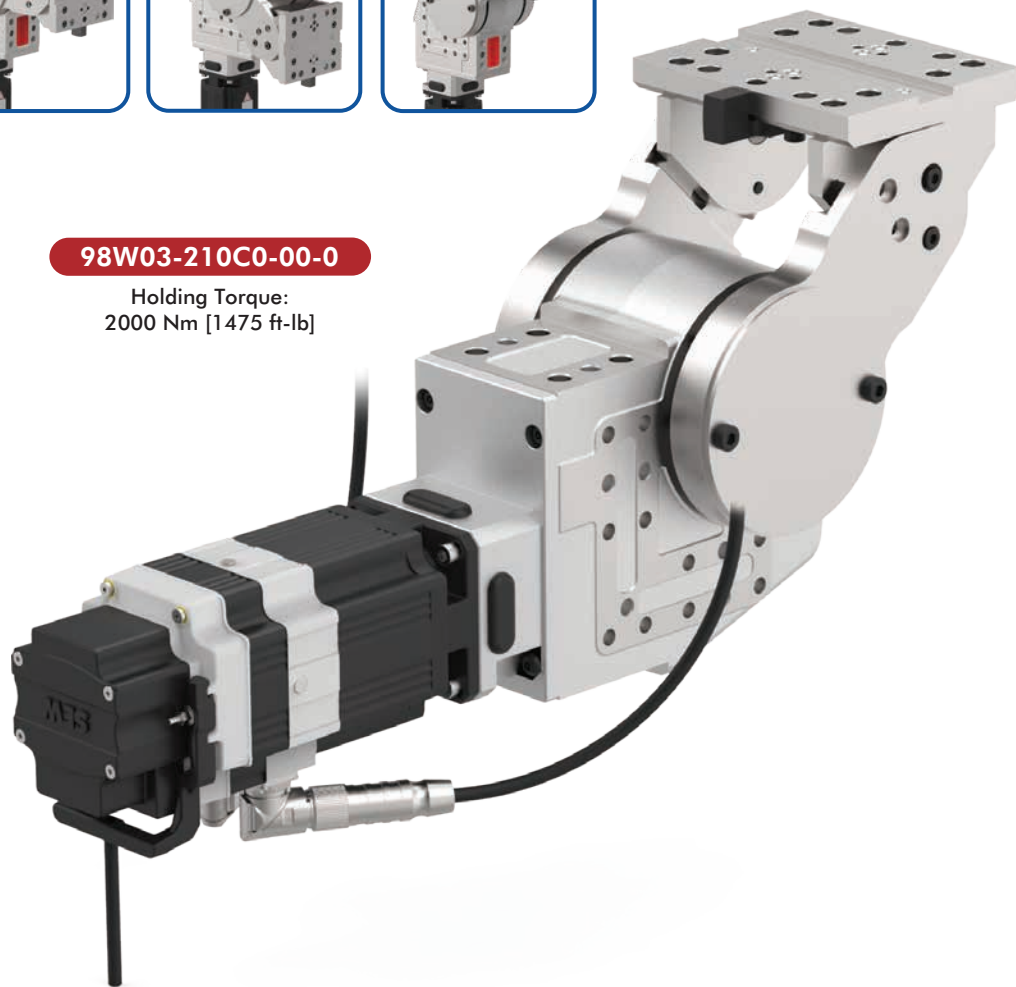


Swivel Arm	Description
A	Center of Pivot Point
B	Below Pivot Point
C	Above Pivot Point



**98W03-210C0-00-0**

Holding Torque:  
2000 Nm [1475 ft-lb]



# 81L

## Pneumatic Power Clamps | Miniature

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81L 12-1 01 00

Size	Description
12-1	12 mm Cylinder (M5 Port)
16-1	16 mm Cylinder (M5 Port)
20-1	20 mm Cylinder (M5 Port)
25-1	20 mm Cylinder (M5 Port)

Arm Style	Description
01	Clamping arm, horizontal
41	Clamping arm, vertical

See below for further details

Design	Description
00	Standard design



**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
81L12-1....	81L12-1-00
81L16-1....	81L16-1-00
81L20-1....	81L20-1-00
81L25-1....	81L20-1-00

**Order No.**  
**8EA-109-1**  
**82ZB-004-1**

Description (order separately)  
Sensor, 3-wire cable, M8x1 connector, 3-pin  
Adapter for mounting 81L20-1, 81L25-1 to 25mm dia. bar



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## Enclosed Pneumatic Power Clamps | Miniature

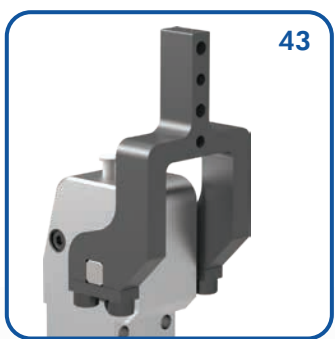
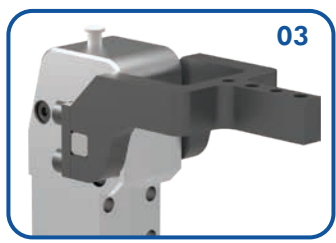
**82L**   **16-4**   **03**   **0**

Size	Description
<b>12-4</b>	12 mm Cylinder (M5 Port)
<b>16-4</b>	16 mm Cylinder (M5 Port)
<b>20-4</b>	20 mm Cylinder (M5 Port)
<b>25-4</b>	25 mm Cylinder (M5 Port)

Arm Style	Description
<b>00</b>	No clamping arm
<b>03</b>	U-bar, central 90°
<b>43</b>	U-bar, central 180°

See below for further details

Opening Angle	Description
<b>0</b>	105° (Standard)
<b>3</b>	90°
<b>4</b>	75°
<b>5</b>	60°
<b>6</b>	45°
<b>7</b>	30°
<b>8</b>	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]	40 Nm [29.5 ft-lb]	50 Nm [36.9 ft-lb]	80 Nm [59.0 ft-lb]
Max Clamping Torque	10,4 Nm [7.7 ft-lb]	12,4 Nm [9.1 ft-lb]	21 Nm [15.5 ft-lb]	31,8 Nm [23.4 ft-lb]
<b>90° version:</b>	8,7 Nm [6.4 ft-lb]	11 Nm [8.1 ft-lb]	19,3 Nm [14.2 ft-lb]	28,5 Nm [21.0 ft-lb]
<b>180° version:</b>	at 5 bar [72 psi]	at 5 bar [72 psi]	at 5 bar [72 psi]	at 5 bar [72 psi]

### Accessories

Order No.	Description (order separately)
<b>8EA-109-1</b>	Sensor, 3-wire cable, M8x1 connector, 3-pin
<b>8ZZB-004-1</b>	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

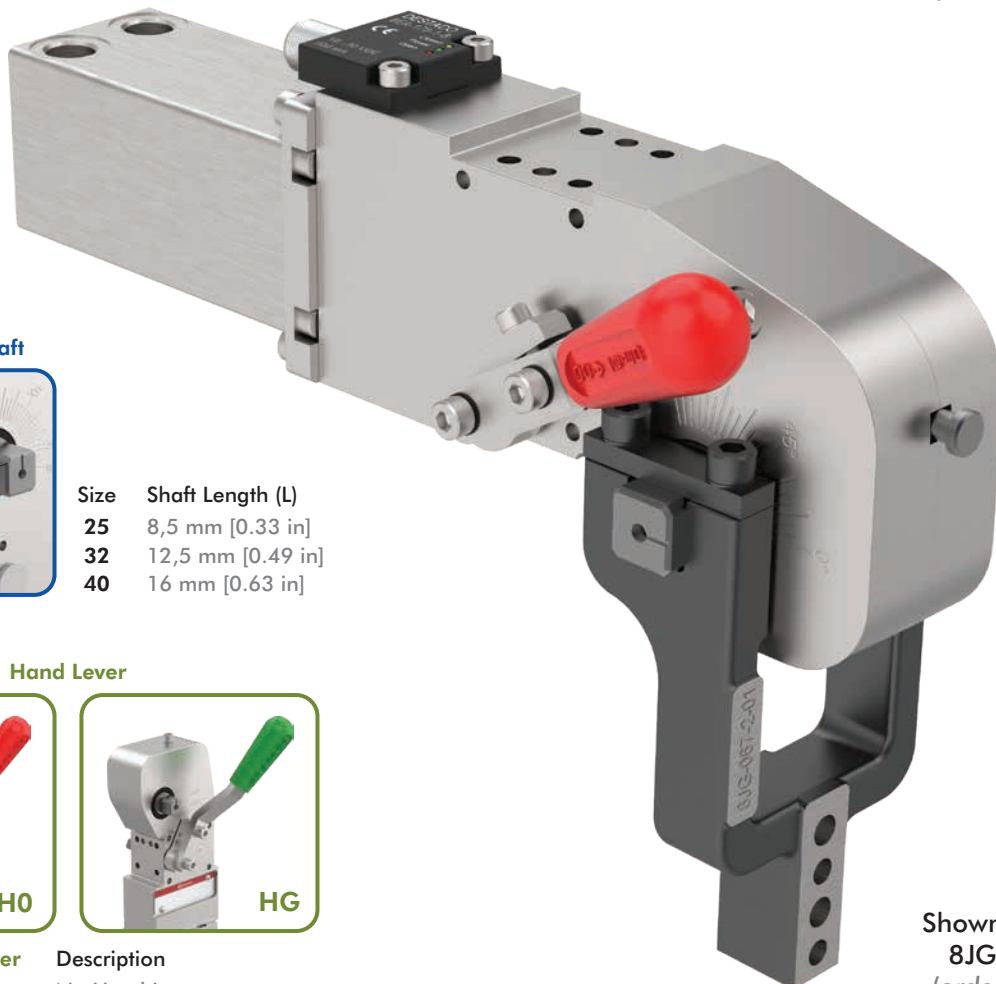
**Clamp Arm Shaft**  
**23**  
Description  
for Arms  
See below for further details

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

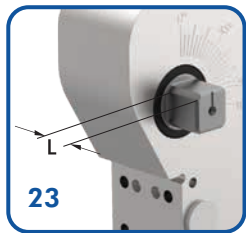


**Cylinder (Standard)**

- 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)



**Clamp Arm Shaft**



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

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



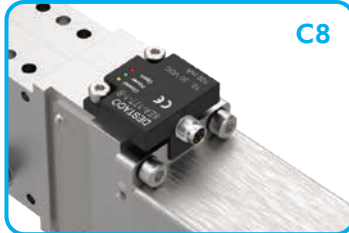


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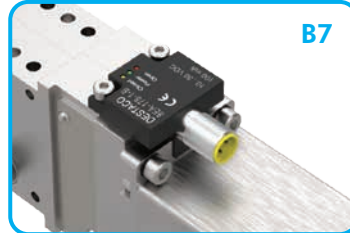
# 82L-3E

## 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]

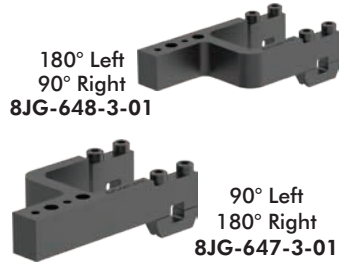
# 82L-3E ACCESSORIES

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## Enclosed Pneumatic Power Clamps | Lightweight Modular

### 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



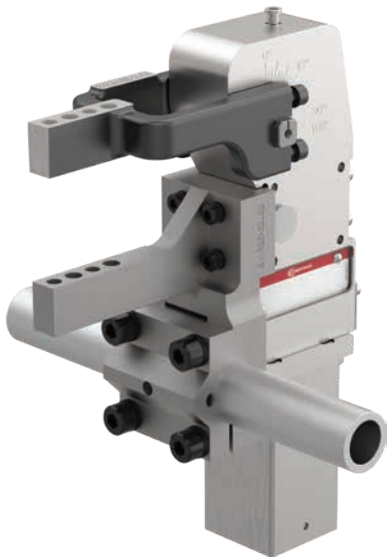
Model	Order No. (1 clamp arm)
82L-3E....3.	8JG-363-1-01
82L-3E....4.	8JG-364-1-01

### Lateral Clamping Arms



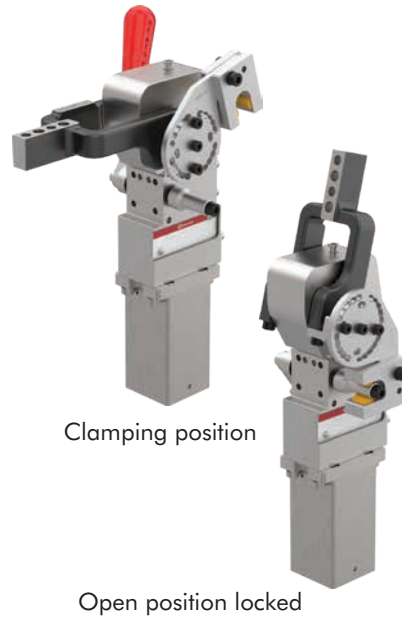
Model	Order No. (1 clamp arm)
82L-3E....3.	8JG-066-1-01
82L-3E....4.	8JG-068-1-01

### 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		[0.004] 0,1						
	82ZB-SH4002		[0.008] 0,2						
	82ZB-SH4005	[1.65] 42	[0.02] 0,5	[0.26] 6,5	[0.28] 7	[0.24] 6	[0.79] 20	[0.79] 20	[0.46] 11,8
	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			

# TCC-2

## Enclosed Pneumatic Power Clamps | Heavy-Duty, Tolerance Compensation

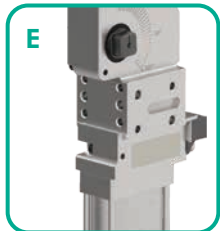
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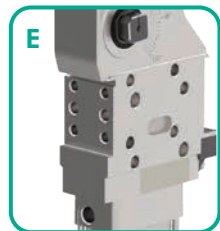
TCC-2 E 03 00 6A L8

Mounting	Description	Clamp Arm Shaft	Description	Handle	Description
E	Standard Mounting	03	for U-Arms	00	No Hand lever
B	Common Front Mount for Size 40 only (same mount pattern as size 50 & 63)	23	for Lateral Arms		
N	NAAMS Side Mounting for Size 63 only	See below for further details			

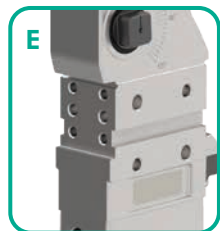
### Mounting



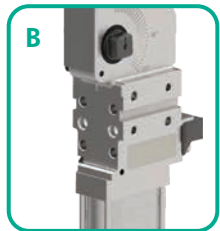
Size 40



Size 50



Size 63



Size 40 Only

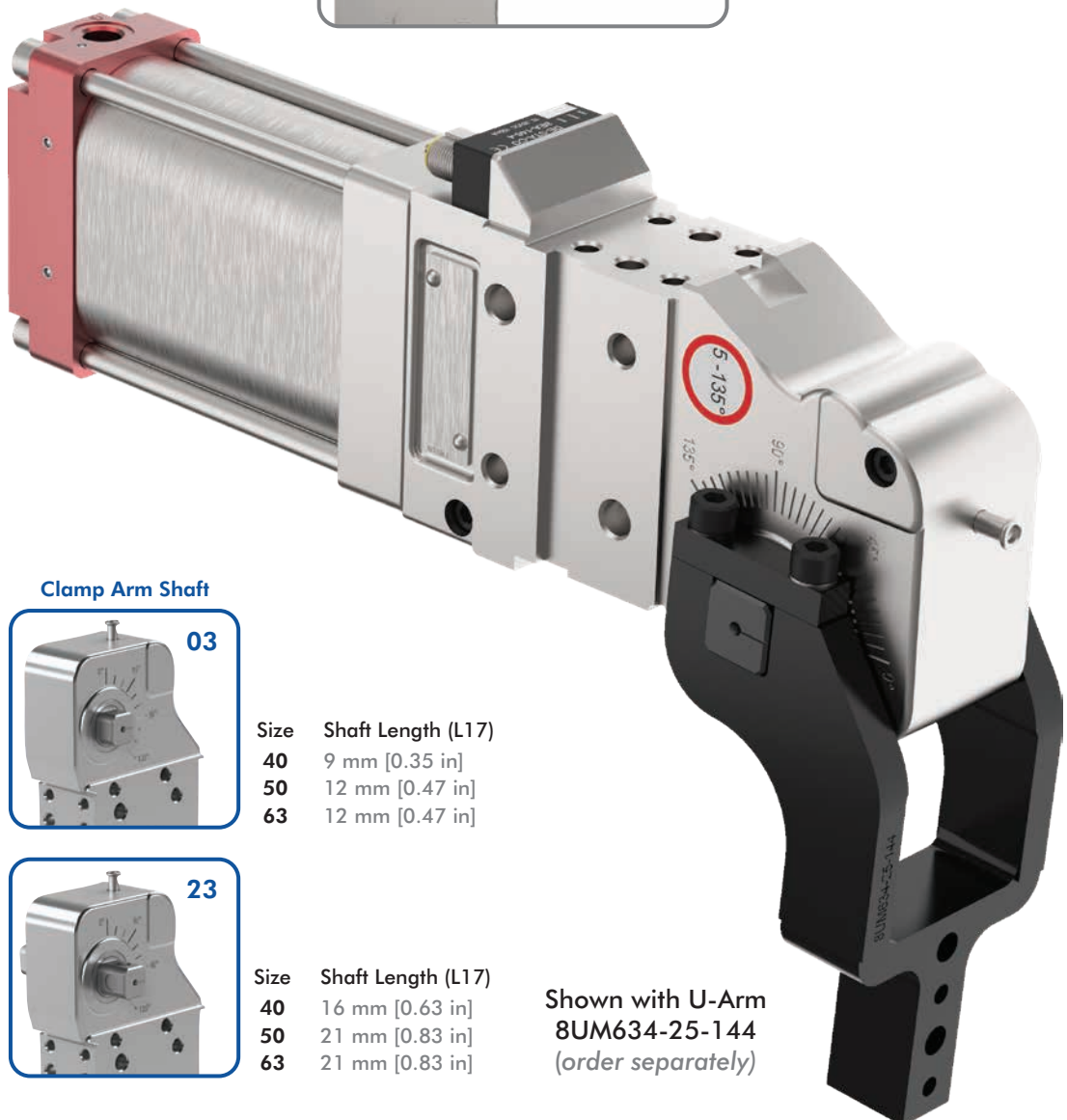


Size 63 Only



Tolerance compensation for variable part thicknesses

- Tolerance compensation for variable sheet metal thicknesses within three degrees of arm movement
- There is no need for shimming



### 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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## Enclosed Pneumatic Power Clamps | Heavy-Duty, Tolerance Compensation

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

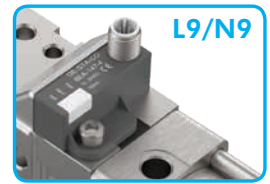
\*Not available for use with 4V, 5V, 6V cylinder option.  
See page 29 for replacement sensor kits and components.

**Sensor Cables** Order separately

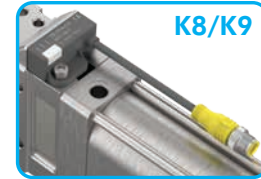
Order No.	Description
8EL-002-1	M12x1, Straight, 5-pin Connector with 5 m [16 ft] Cable
8EL-003-1	M12x1, Angular, 4-pin Connector with 5 m [16 ft] Cable



**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)



### 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]

# 82M-3

## Enclosed Pneumatic Power Clamps | Heavy-Duty Modular

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**82M-3** **E** **23** **H0** **50** **L8**

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

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

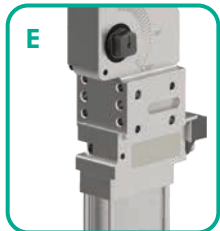
Handle	Description
<b>00</b>	No Hand lever
<b>H0</b>	Hand Lever
<b>HS</b>	Weldable

See below for further details

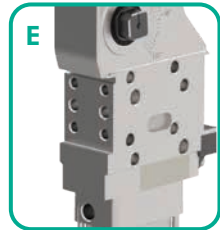
See below for further details

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

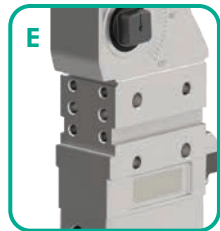
### Mounting



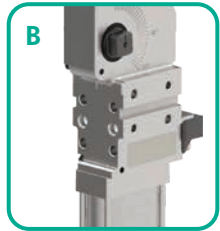
Size 40



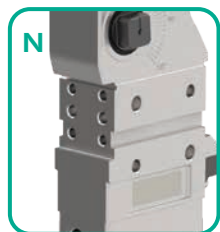
Size 50



Size 63



Size 40 Only



Size 63 Only

### Clamp Arm Shaft



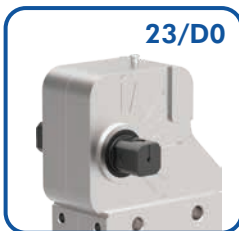
03

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



13

Size	Shaft Length
40	9 mm [0.35 in]



23/D0

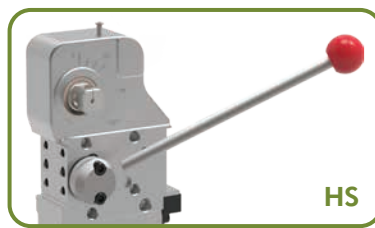
Size	Shaft Length (L17)
40	16 mm [0.63 in]
50	21 mm [0.83 in]
63	21 mm [0.83 in]
80	32 mm [1.26 in]

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

### Hand Lever



H0



HS

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

Replacement Hand Levers	Order No.
<b>Standard</b>	
82M-3E..H040..	8KB-097-1
82M-3E..H05...	8KB-098-1
82M-3E..H06..	8KB-099-1
82M-3E..H08..	8KB-100-1
<b>Weldable</b>	
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
<b>00</b>	Without Sensing System
<b>L8</b>	PNP Sensor with In-line M12x1 Connector (8EA-146-4-B)
<b>N8</b>	NPN Sensor with In-line M12x1 Connector (8EA-154-4-B)
<b>L9</b>	PNP Sensor with 90° M12x1 Connector (8EA-147-4-B)
<b>N9</b>	NPN Sensor with 90° M12x1 Connector (8EA-155-4-B)
<b>K8</b>	PNP Sensor with M12x1 Cable Connector (8EA-158-4-B)
<b>K9</b>	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**



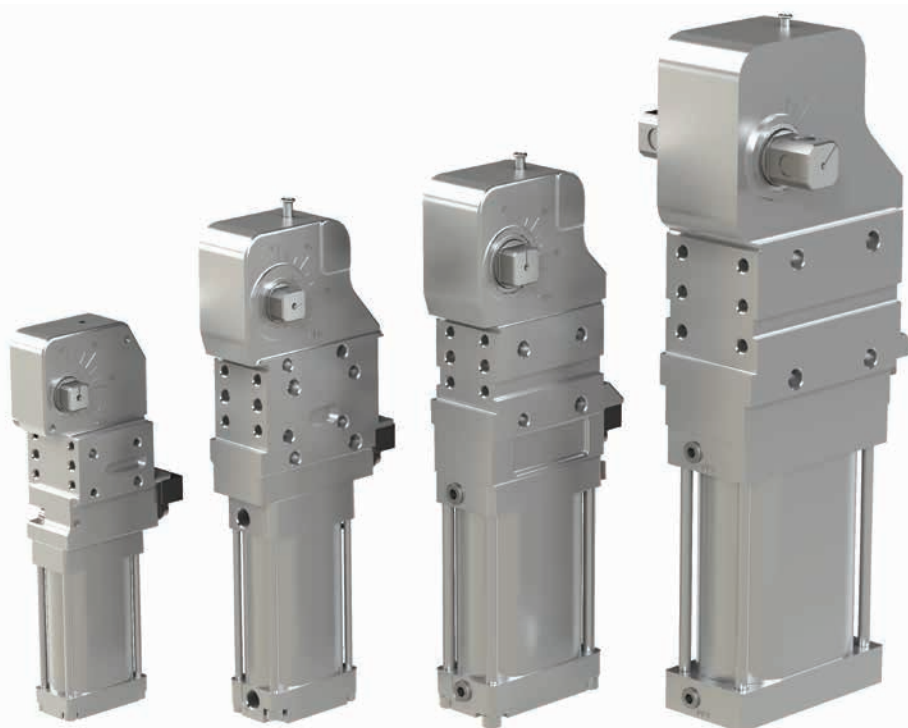
### Cylinder - Standard

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



### Cylinder with Internal Hold Open Device

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



**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]

### 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..

# 52H-3

## Enclosed Modular Manual Power Clamps | Heavy-Duty

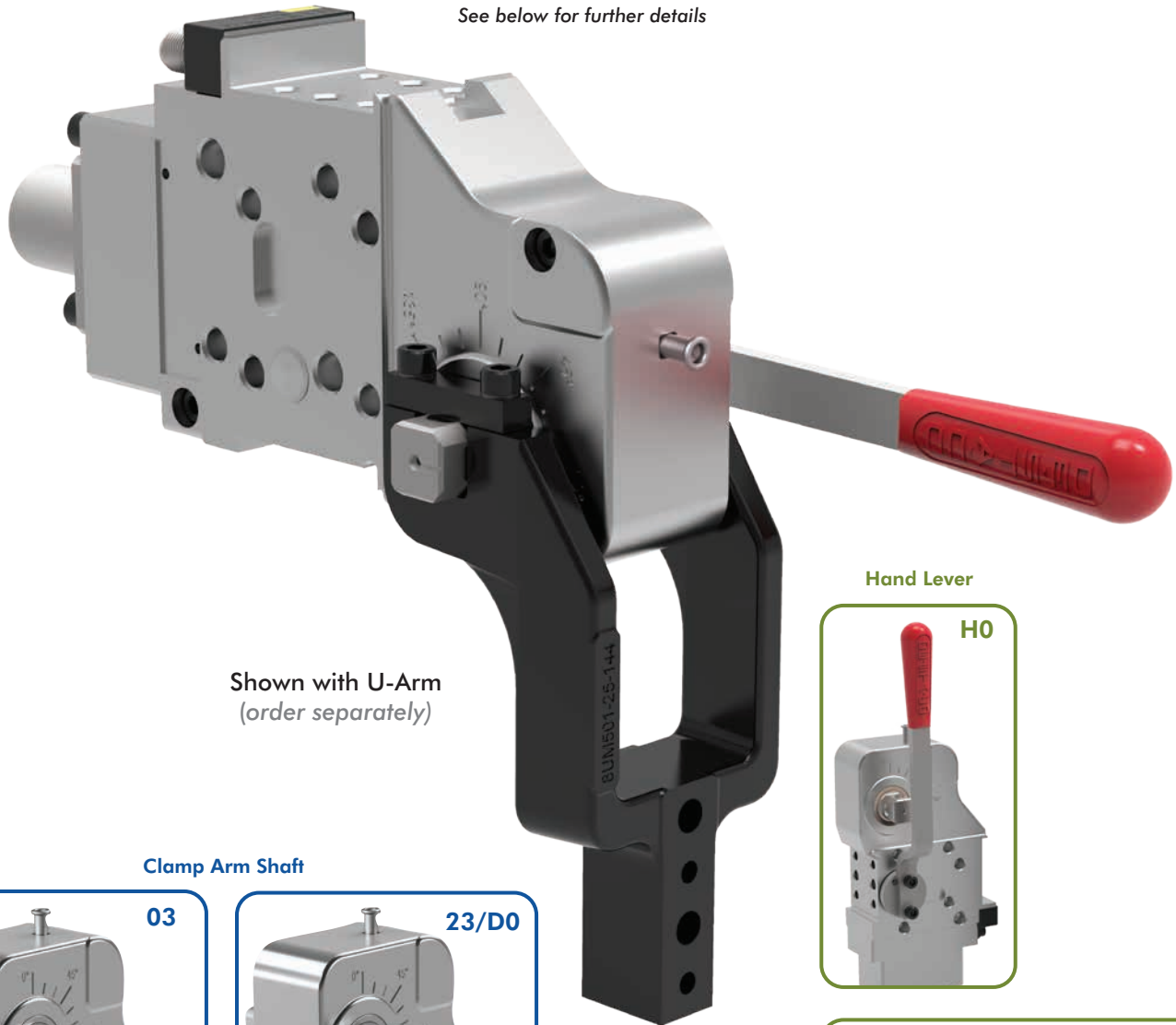
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**52H-3** **E** **23** **H0** **50** **L8**

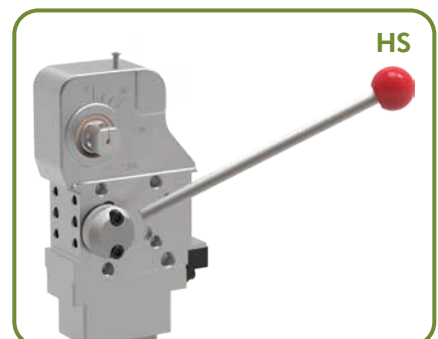
Mounting	Description	Clamp Arm Shaft	Description	Handle	Description
<b>E</b>	Standard	<b>03</b>	for U-Arms	<b>H0</b>	Hand lever
<b>N</b>	NAAMS (Size 63 only)	<b>23</b>	for Lateral Arms	<b>HS</b>	Hand Lever (Weldable)
		<b>D0</b>	for Lateral Arms (size 63 only)		

See below for further details



Shown with U-Arm  
(order separately)

Hand Lever



Clamp Arm Shaft



**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]





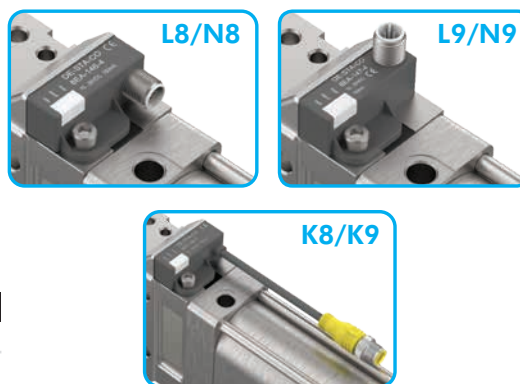
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## Enclosed Modular Manual Power Clamps | Heavy-Duty

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



Size	Description
50	Size 50 mm
63	Size 63 mm

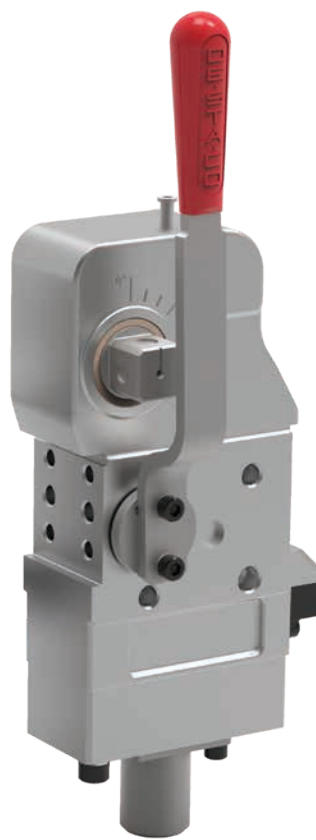


**52H-3E..H.50/63**  
Modular manual clamp, interchangeable with 82M-3E...50/63



**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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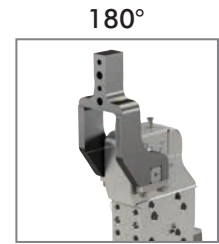


## U-Arms Center (Aluminum)

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*		135°

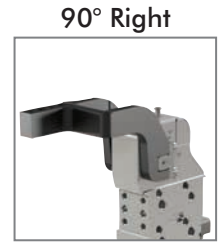
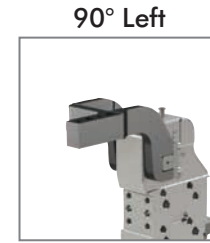


\* only steel version available.

## 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°				



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

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°	(•) = <b>0</b> for Left, <b>1</b> for Right		
8U(•)634-45-144		135°			
8U(•)631-75-204*					



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

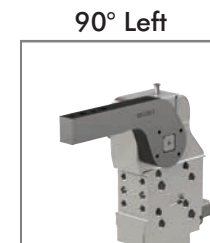
8UL...  
8JG-170-2-01

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

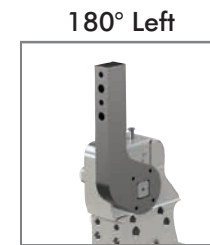
\* only steel version available.

## 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					



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

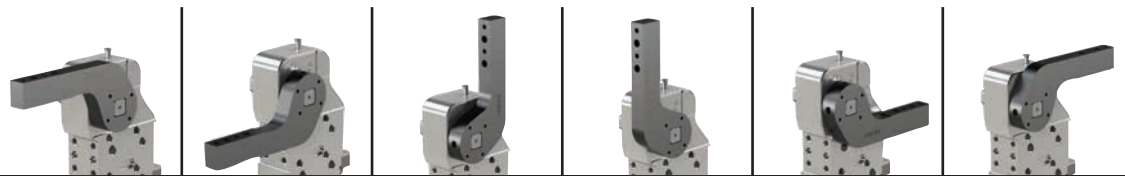
Series	Arm Style	Model
50 Offset	▲ • 1226	B8JG-1226-1
25 Offset	▲ • 1216	B8JG-1216-1
0 Offset	▲ • 1206	B8JG-1206-1

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

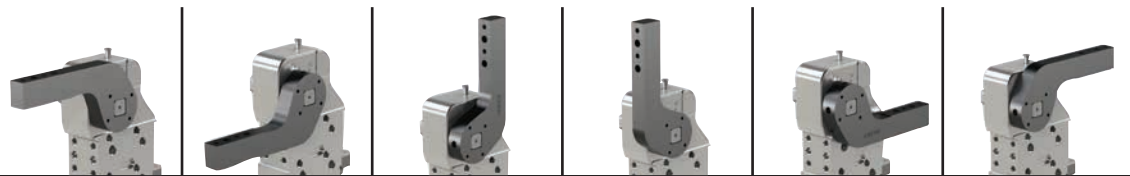
Series	Arm Style	Model
120 Offset	▲ 1547	B8JG-1547-1
70 Offset	▲ 1535	B8JG-1535-1
25 Offset	▲ 1523	B8JG-1523-1
0 Offset	▲ 1511	B8JG-1511-1

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

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Enclosed Modular Manual and Power Clamps

## 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	▲ ⓘ 1044	B8JG-1044-1	120 Offset	▲ ⓘ 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	▲ ⓘ 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	▲ ⓘ 1046	B8JG-1046-1	120 Offset	▲ ⓘ 1047	B8JG-1047-1	120 Offset	▲ ⓘ 1048	B8JG-1048-1
70 Offset	▲ • 1034	B8JG-1034-1	70 Offset	▲ • 1035	B8JG-1035-1	70 Offset	▲ ⓘ 1036	B8JG-1036-1
25 Offset	▲ ⓘ 1022	B8JG-1022-1	25 Offset	▲ ⓘ 1023	B8JG-1023-1	25 Offset	▲ ⓘ 1024	B8JG-1024-1
0 Offset	▲ ⓘ 1010	B8JG-1010-1	0 Offset	▲ ⓘ 1011	B8JG-1011-1	0 Offset	▲ ⓘ 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	▲ ⓘ 1170	B8JG-1170-1	120 Offset	▲ ⓘ 1171	B8JG-1171-1	120 Offset	▲ ⓘ 1172	B8JG-1172-1
70 Offset	▲ • 1150	B8JG-1150-1	70 Offset	▲ ⓘ 1151	B8JG-1151-1	70 Offset	▲ ⓘ 1152	B8JG-1152-1
25 Offset	▲ ⓘ 1130	B8JG-1130-1	25 Offset	▲ ⓘ 1131	B8JG-1131-1	25 Offset	▲ ⓘ 1132	B8JG-1132-1
0 Offset	▲ ⓘ 1110	B8JG-1110-1	0 Offset	▲ ⓘ 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	▲ ⓘ 1173	B8JG-1173-1	120 Offset	▲ ⓘ 1174	B8JG-1174-1	120 Offset	▲ ⓘ 1175	B8JG-1175-1
70 Offset	▲ ⓘ 1153	B8JG-1153-1	70 Offset	▲ ⓘ 1154	B8JG-1154-1	70 Offset	▲ • 1155	B8JG-1155-1
25 Offset	▲ ⓘ 1133	B8JG-1133-1	25 Offset	▲ • 1134	B8JG-1134-1	25 Offset	▲ ⓘ 1135	B8JG-1135-1
0 Offset	▲ ⓘ 1113	B8JG-1113-1	0 Offset	▲ ⓘ 1114	B8JG-1114-1	0 Offset	▲ ⓘ 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	▲ ⓘ 1176	B8JG-1176-1	120 Offset	▲ ⓘ 1177	B8JG-1177-1	120 Offset	▲ ⓘ 1178	B8JG-1178-1
70 Offset	▲ ⓘ 1156	B8JG-1156-1	70 Offset	▲ ⓘ 1157	B8JG-1157-1	70 Offset	▲ • 1158	B8JG-1158-1
25 Offset	▲ ⓘ 1136	B8JG-1136-1	25 Offset	▲ ⓘ 1137	B8JG-1137-1	25 Offset	▲ ⓘ 1138	B8JG-1138-1
0 Offset	▲ ⓘ 1116	B8JG-1116-1	0 Offset	▲ ⓘ 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°

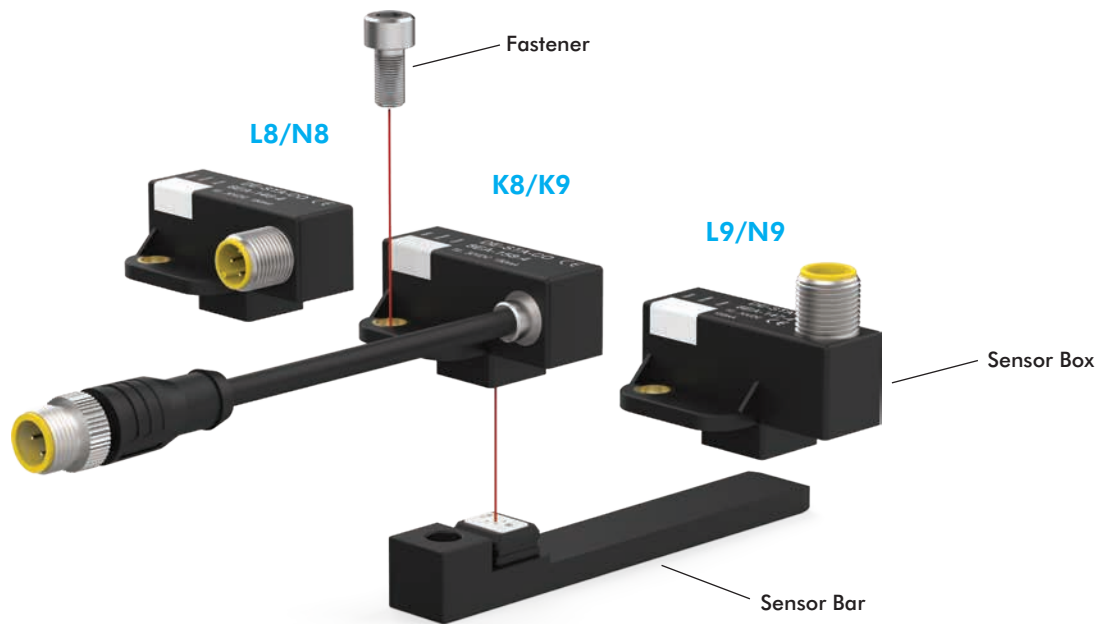
▲ Common in North America

(•) STANDARD ARM OFFERING

ⓘ NON-STANDARD ARM OFFERING (extended leadtimes apply)

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

Replacement Sensor Kits and Components



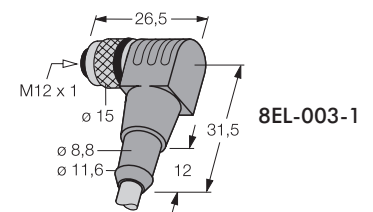
**Complete Sensor Kits**  
(Includes Sensor Box, Sensor Bar, Screw)

**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

**BIM-IKE-AP**

**810151**

**810153**

**810155**

**810157**

### Description (order separately)

Magnetic Sensor, 2 pieces required

Magnetic Sensor, 2 pieces required

Magnetic Sensor, 2 pieces required

Magnetic Sensor, 2 pieces required

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	10-30 V DC	200 mA	2.3V
810151			2.7m [9ft.]	Reed	5-120 V AC/DC	500 mA	3.5V
810153				Reed	24-240 V AC	4 A	1.0V
810155				PNP	6-24 V DC	500 mA	1.0V
810157				NPN	6-24 V DC	500 mA	1.0V



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# 860, 861, 890, 891, 1000, 1001

## Pneumatic Power Clamps

**860**

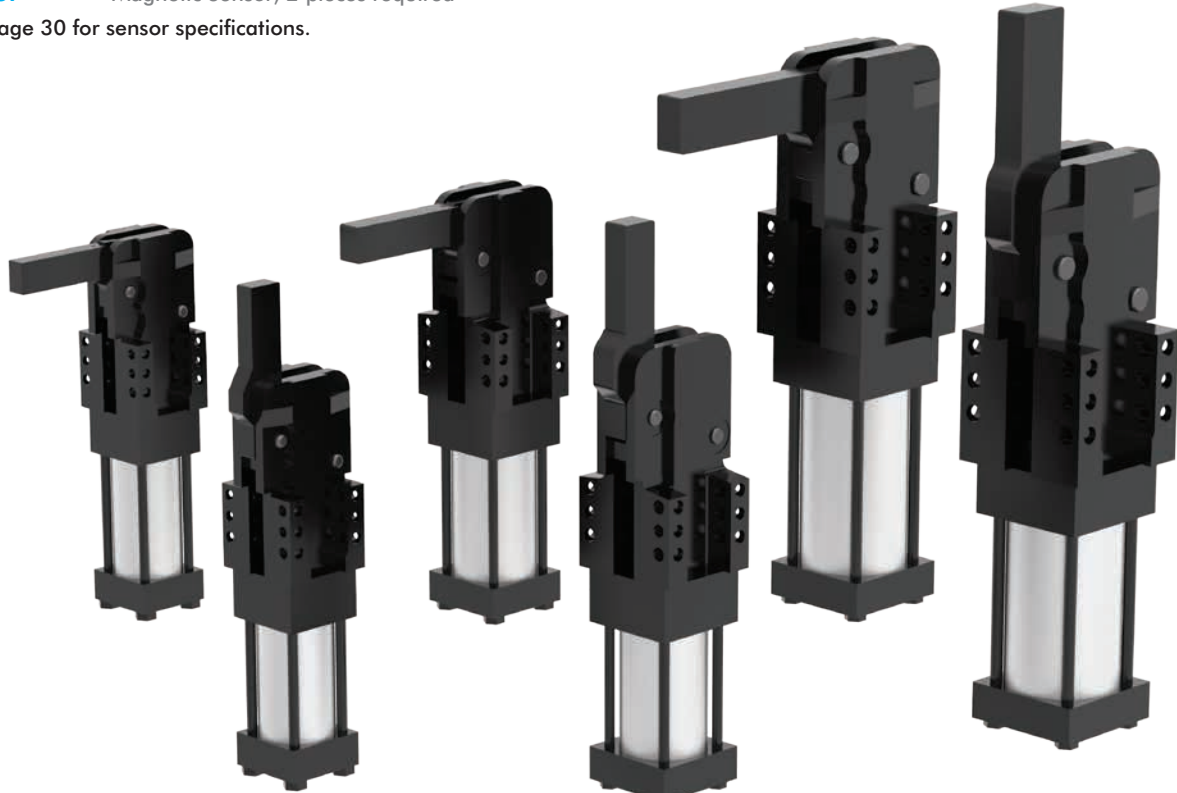
Base Model	Description
<b>860</b>	50,8 mm [2 in.] Cylinder with Vertical Clamp Arm
<b>861</b>	50,8 mm [2 in.] Cylinder with Horizontal Clamp Arm
<b>890</b>	63,5 mm [2.5 in.] Cylinder with Vertical Clamp Arm
<b>891</b>	63,5 mm [2.5 in.] Cylinder with Horizontal Clamp Arm
<b>1000</b>	82,5 mm [3.25 in.]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

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

See page 30 for sensor specifications.

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

Cylinder	Description (order separately)
<b>865133-MR</b>	Replacement Cylinder for Model 860
<b>865132-MR</b>	Replacement Cylinder for Model 861
<b>895133-MR</b>	Replacement Cylinder for Model 890
<b>895132-MR</b>	Replacement Cylinder for Model 891
<b>1005134-MR</b>	Replacement Cylinder for Model 1000
<b>1005133-MR</b>	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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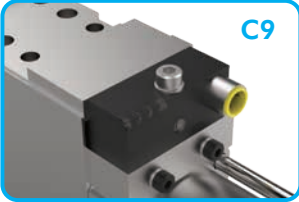
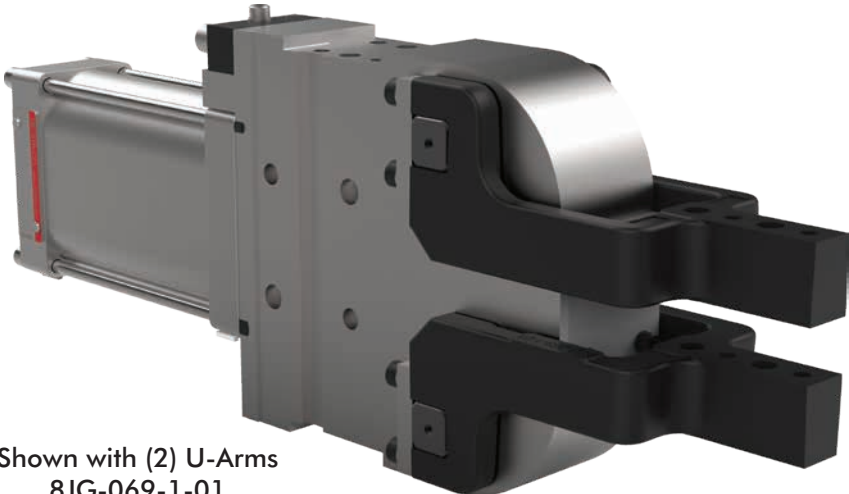
Base Model	Description	Hand Lever	Description	Opening Angle	Opening Angle
82D40-2	40 mm Cylinder (G1/4 Port)	0	Hand Lever not available	0	180° (standard)
82D63-5	63 mm Cylinder (G1/4 Port)			1	160°
				2	140°
				3	120°
				4	100°
				5	80°
				6	60°
				7	40°
				8	20°

*Reduced opening angles available upon request.*


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

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


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

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]



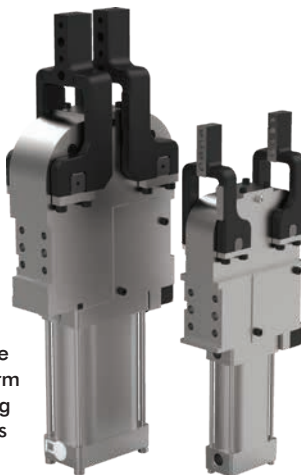
**82D40-2**  
Max Holding 140 Nm [103 ft-lb]  
Max Clamping Torque 60 Nm [44 ft-lb] at 5 bar [72 psi]

### 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



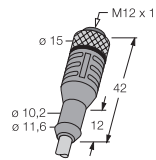


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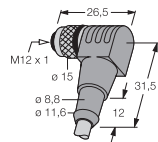
# 82D ACCESSORIES

## 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	<b>8JG-065-1-01</b>	<b>8JG-069-1-01</b>	sets of U-type clamping arms consist of clamping arm, links and screws you need 2 sets of clamping arms
lateral right/left	vertical	<b>8JG-066-1-01<sup>1)</sup></b>	<b>8JG-070-1-01<sup>2)</sup></b>	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	<b>8JG-066-1-01<sup>1)</sup></b>	<b>8JG-070-1-01<sup>2)</sup></b>	you need 4 sets of clamping arms



Connector socket  
M12x1 straight, 5-pin



Connector socket  
M12x1 angular, 4-pin

Sensor Cables (Order Separately)	
Order No.	Description
<b>8EL-002-1</b>	M12x1, Straight, 5-Pin Connector with 5 m [16 ft] Cable
<b>8EL-003-1</b>	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	<b>8CE-342-1</b>	14,4 mm	<b>8CE-362-1</b>
160°		15,1 mm	<b>8CE-340-1</b>	20,0 mm	<b>8CE-360-1</b>
140°		18,5 mm	<b>8CE-338-1</b>	24,8 mm	<b>8CE-358-1</b>
120°		22,2 mm	<b>8CE-336-1</b>	29,6 mm	<b>8CE-356-1</b>
100°		25,8 mm	<b>8CE-334-1</b>	34,3 mm	<b>8CE-354-1</b>
80°		28,0 mm	<b>8CE-332-1</b>	39,0 mm	<b>8CE-352-1</b>
60°		33,0 mm	<b>8CE-330-1</b>	43,8 mm	<b>8CE-350-1</b>
40°		37,0 mm	<b>8CE-328-1</b>	49,1 mm	<b>8CE-348-1</b>
20°		41,8 mm	<b>8CE-326-1</b>	56,2 mm	<b>8CE-346-1</b>

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
	<b>82ZB-SH4001</b>		0,1							<b>82ZB-SH5001</b>		0,1						
	<b>82ZB-SH4002</b>		0,2							<b>82ZB-SH5002</b>		0,2						
	<b>82ZB-SH4005</b>	42	0,5	6,5	7	6	20	20	12	<b>82ZB-SH5005</b>	65	0,5	6,5	9	10	30	30	15,8
	<b>82ZB-SH4010</b>		1,0							<b>82ZB-SH5010</b>		1,0						
	<b>82ZB-SH4020</b>		2,0							<b>82ZB-SH5020</b>		2,0						
	<b>82ZB-SH4050</b>		5,0							<b>82ZB-SH5050</b>		5,0						

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

# 84A40, 84A50

Enclosed Pneumatic Power Clamps | Dual Arm, Tolerance Compensation

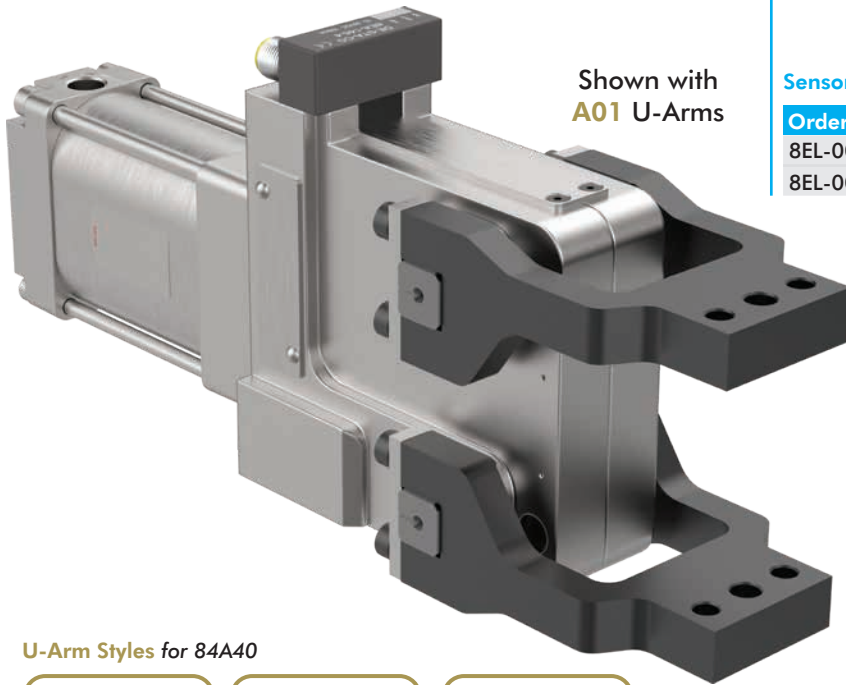
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**84A** **50-1** **A01** **L8**

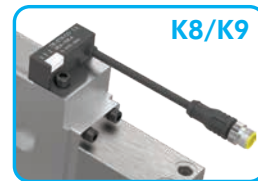
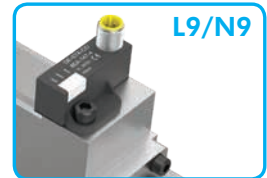
Size	Description
40-1	32 mm Cylinder (G1/8 Port)
50-1	50 mm Cylinder (G1/4 Port)

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)



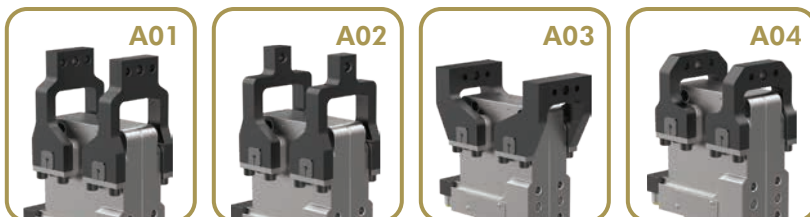
Sensor Cables Order separately

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
<b>20</b>	20 mm Stroke
<b>40</b>	40 mm Stroke

Sensor	Description
<b>00</b>	Without Sensing System
<b>L8</b>	PNP Sensor with In-line M12x1 Connector (8EA-146-4-B)
<b>N8</b>	NPN Sensor with In-line M12x1 Connector (8EA-154-4-B)
<b>L9</b>	PNP Sensor with 90° M12x1 Connector (8EA-147-4-B)
<b>N9</b>	NPN Sensor with 90° M12x1 Connector (8EA-155-4-B)
<b>K8</b>	PNP Sensor with M12x1 Cable Connector (8EA-158-4-B)
<b>K9</b>	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] dm <sup>3</sup> [in <sup>3</sup> ]
		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
<b>82P25-2</b>	25 mm Cylinder (G1/8 and NPT 1/8 Ports)

Tip	Description
<b>00</b>	without centering pin
<b>08-22</b>	with customer specified round centering pin from Ø8-22 mm

Serial Number	Description
<b>XX</b>	Customer specified Base, Clamping Hook and Centering Pin  <i>Must contact factory with specifications to complete order number</i>



Sensor	Description
<b>D8</b>	Inductive Sensing System with M12x1 Connector (8EA-161-1)



**Sensor Cables** Order separately

Order No.	Description
<b>8EL-003-1</b>	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

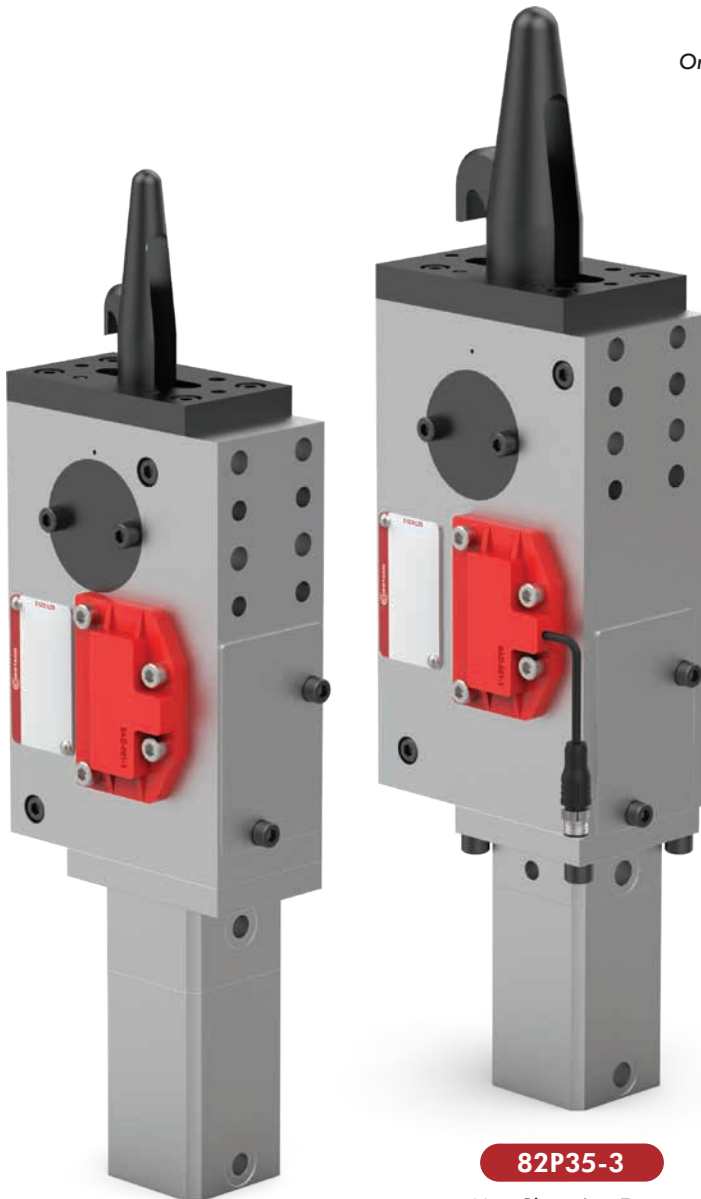
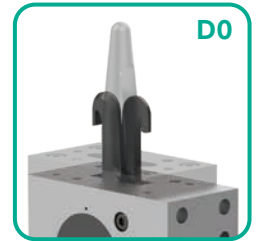
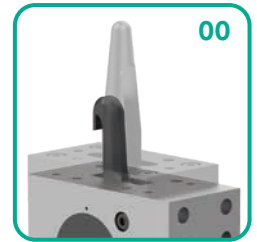
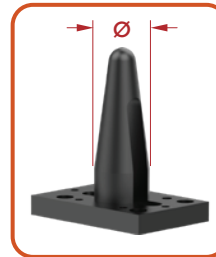
Single Hook (Standard)  
Double Hook

Size	Description
<b>30-3</b>	30 mm Cylinder (G1/8 Port)
<b>35-3</b>	35 mm Cylinder (G1/8 Port)

### Centering Pin

Centering Pin	Ø Range for 82P30-3
<b>20</b>	20,0 - 23,0 mm
<b>25</b>	23,1 - 28,0 mm
<b>30</b>	28,1 - 33,0 mm
Ø Range for 82P35-3	
<b>40</b>	33,1 - 45,0 mm

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



**82P30-3**

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

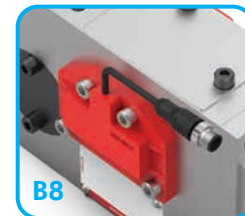
**82P35-3**

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

### Sensor

### Description

<b>00</b>	Without Sensing System
<b>C0</b>	Inductive Sensing System with M8x1 Connector (8EA-012-2)
<b>B8</b>	Inductive Sensing System with M12x1 Connector (8EA-030-1)



**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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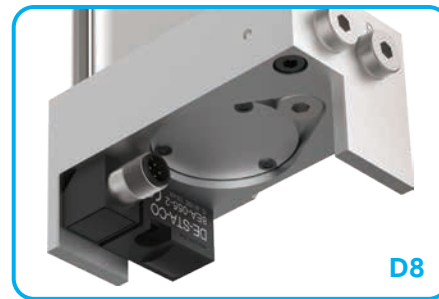


82P50-720 D8 A 0 01 00

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)



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



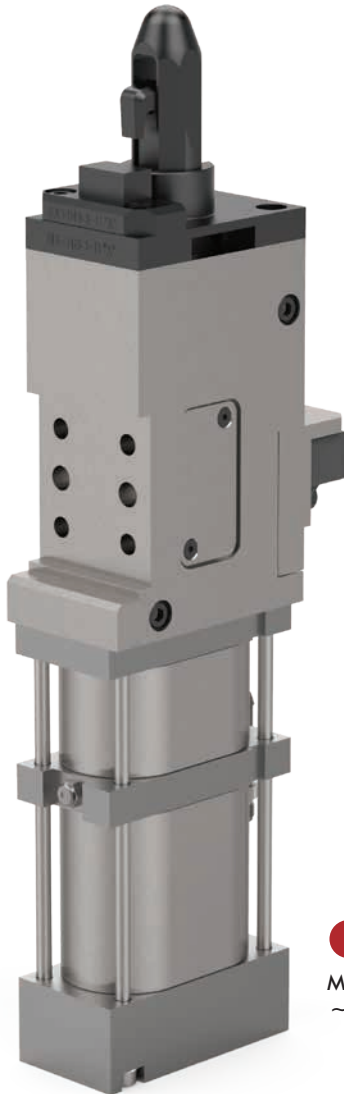
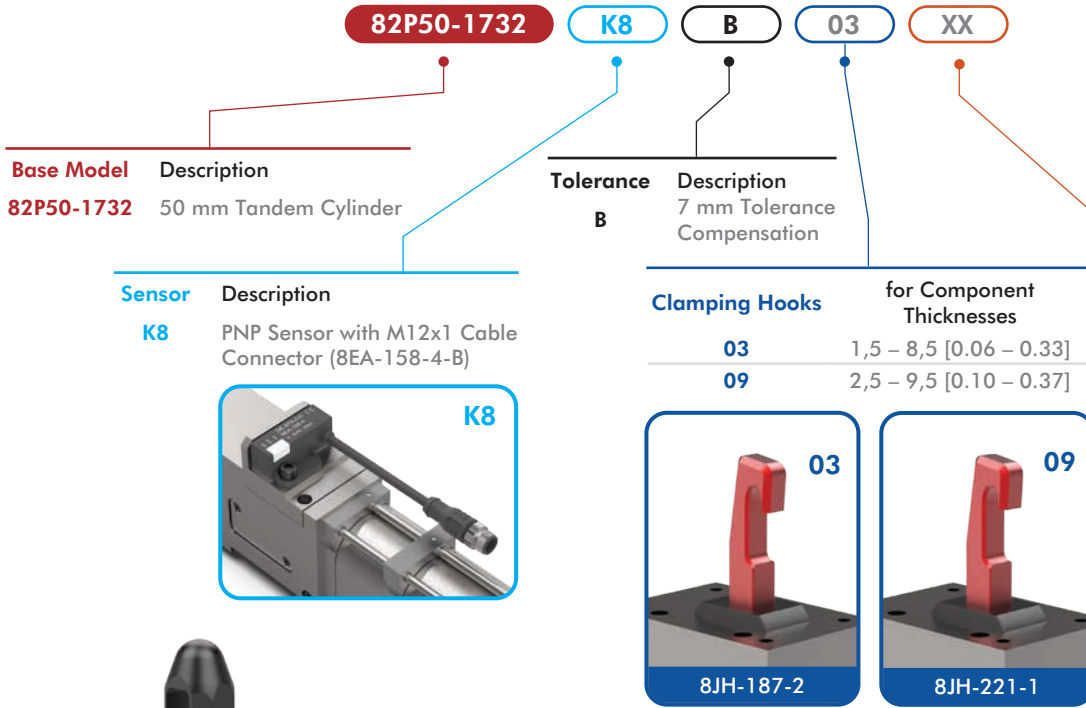
**Centering Pin** For 82P63 with Hook  
**00** None 02 or 04  
**03** 30 mm Round 02  
**04** 30 mm Diamond 02  
**05** 25 mm Round 02  
**08** 23 mm Round 02  
**09** 28 mm Round 02  
**10** 40 mm Round 04  
**11** 40 mm Diamond 04



# 82P50-1732

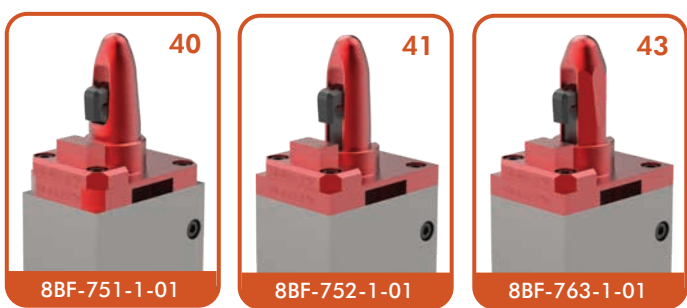
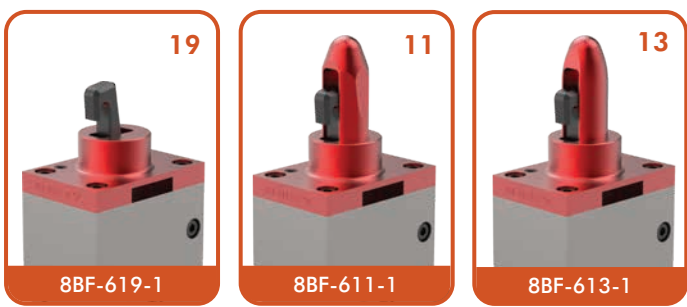
## Pneumatic Centering Pin Clamp | Tolerance Compensation

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

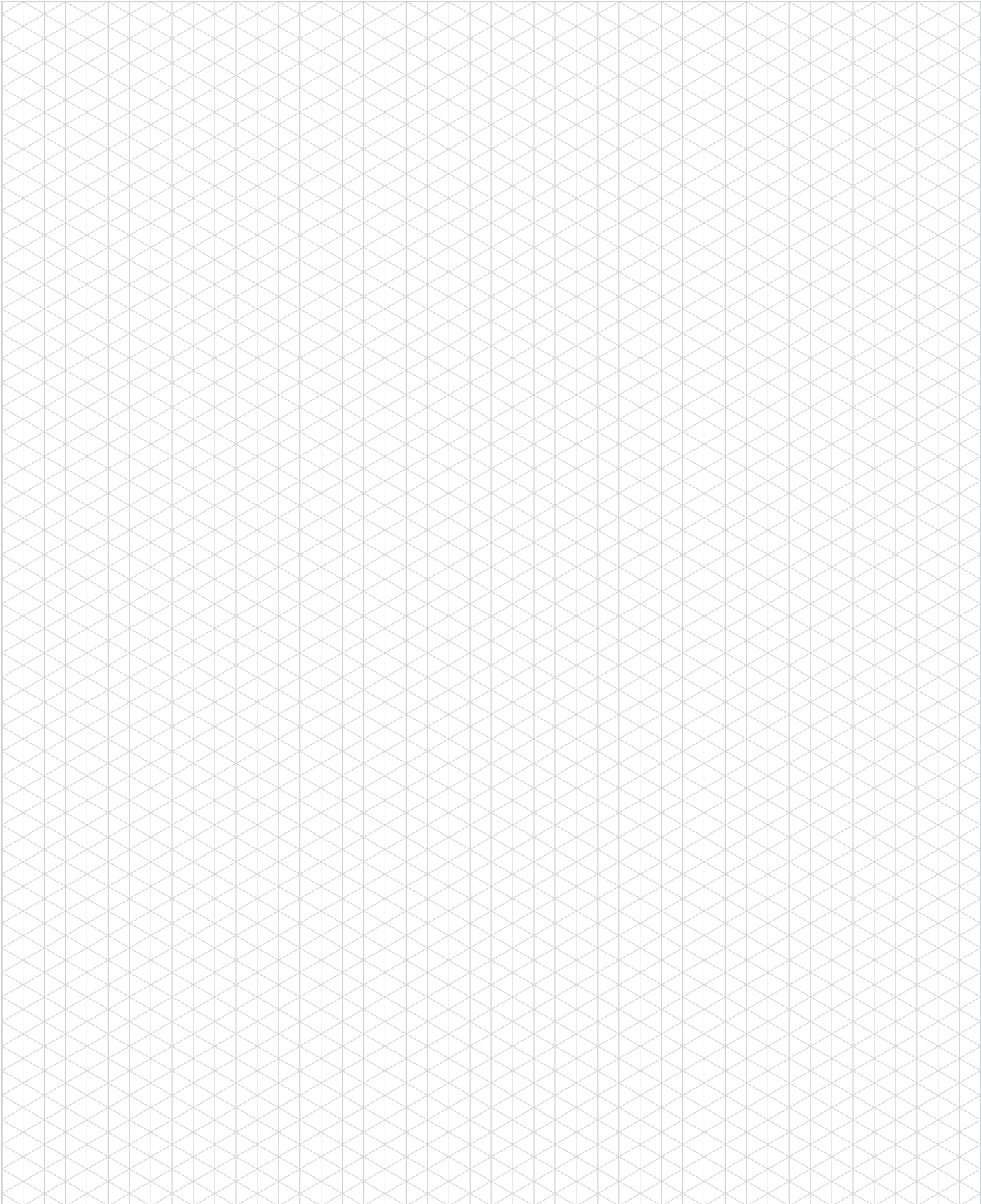
Centering Pin/Support	Pin Diameter and Tolerance	Centering Pin Shape	Component Material
<b>19</b>	N/A	Support Only	Steel/Aluminum
<b>11</b>	Ø 24,85 -0,05	Diamond Pin	Steel
<b>13</b>	Ø 22,00 -0,05	Round Pin	Aluminum
<b>40</b>	Ø 24,85 -0,05		
<b>41</b>	Ø 22,00 -0,05	Diamond Pin	Aluminum
<b>43</b>	Ø 24,85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



**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

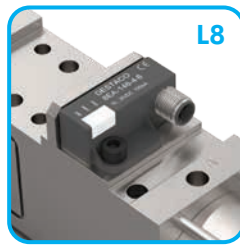
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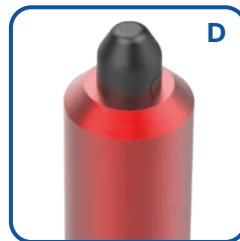
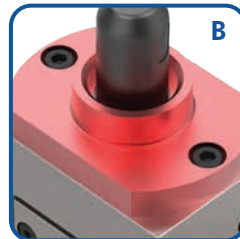
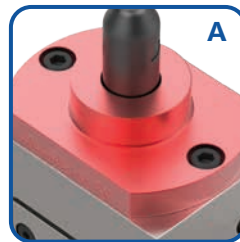
**82P50-1800** **L8** **A** **01** **0** **0** **0**

Base Model	Description
<b>82P50-1800</b>	Tolerance Compensation 0 - 5 mm [0 - 0.197 in]

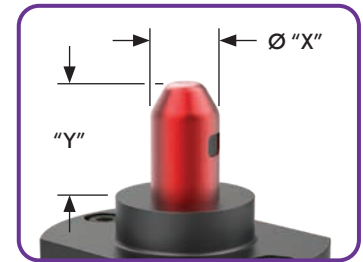
Sensor	Description
<b>L8</b>	PNP Sensor with M12x1 In-line Connector (8EA-146-4-B and 8EA-163-G)



Support Shape	Description
<b>A</b>	Standard
<b>B</b>	Flange Hole Down
<b>D</b>	Chamfered



Pin Diameter	Pin Ø "X" mm <sup>-0,05</sup>	Pin Height "Y" mm
<b>01</b>	15,8	
<b>02</b>	19,8	26
<b>03</b>	20,8	
<b>04</b>	29,8	38
<b>05</b>	15,5	26
<b>06</b>	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

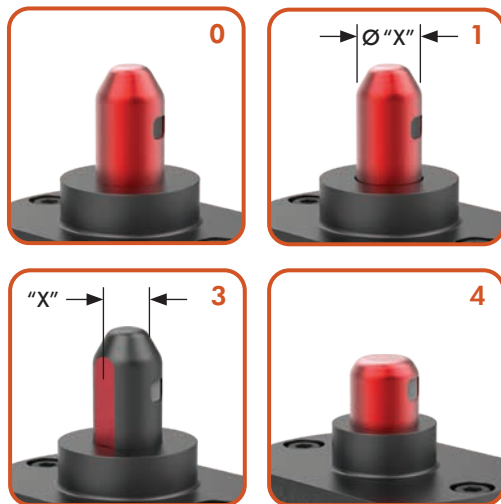


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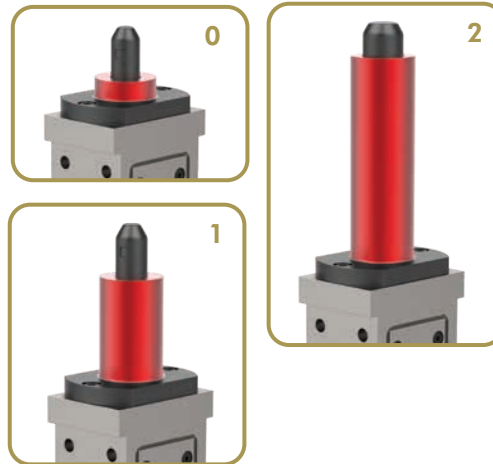
# 82P50-1800

## 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
4	Door Case	



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**

Size	Description	Accessories	Description
<b>300</b>	Front, top or bottom mounting	<b>00</b>	No Accessories
<b>330</b>	Top or bottom mounting only		

Sensor	Description
<b>L1</b>	Without Sensing System
<b>C8</b>	Inductive Sensing System with M8x1 Connector (8EA-023-2)
<b>B7</b>	Inductive Sensing System, M12x1 Connector (8EA-060-1)
<b>B8</b>	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]

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



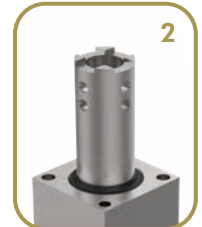
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# 86P30-5

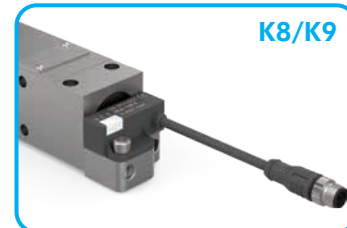
## Pneumatic Pin Package | Single Shaft

<b>86P30-5</b>	<b>02</b>	<b>L8</b>	<b>00</b>	<b>4</b>
			<b>Accessories</b> 00	
			<b>Description</b> No Accessories	
			<b>Stroke</b> 2 4	<b>Description</b> 20 mm Stroke 40 mm Stroke

Piston Rod	Description
<b>02</b>	Ø16 mm M6 Threaded Inside Hole, Cross Groove
<b>05</b>	Ø10 mm M8 Threaded Inside Hole, Cross Groove



Sensor	Description
<b>L8</b>	PNP Sensor with In-line M12x1 Connector (8EA-146-4-B)
<b>N8</b>	NPN Sensor with In-line M12x1 Connector (8EA-154-4-B)
<b>L9</b>	PNP Sensor with 90° M12x1 Connector (8EA-147-4-B)
<b>N9</b>	NPN Sensor with 90° M12x1 Connector (8EA-155-4-B)
<b>K8</b>	PNP Sensor with M12x1 Cable Connector (8EA-158-4-B)
<b>K9</b>	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

### 86P30-5

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

# 86P40, 86P60

Pneumatic Pin Package | Single Shaft

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86P40 -2 02 D8 G1 A -K

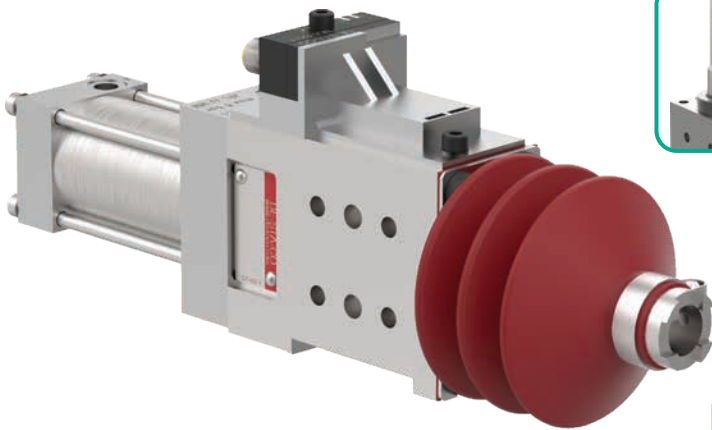
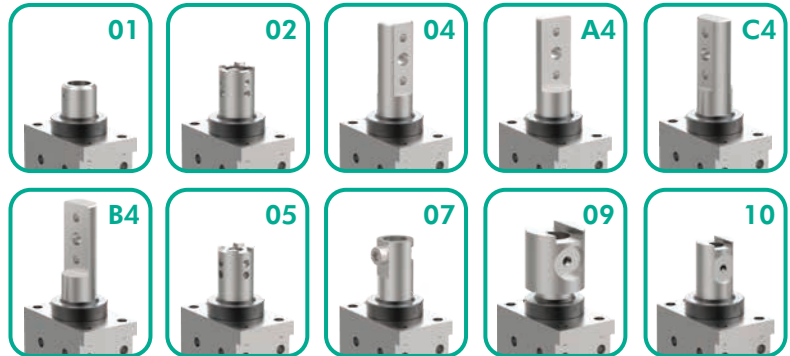
Ceramic Option  
for Piston Rod  
K

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



86P40

86P60

Stroke Option:

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

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

Max Pushing Force at 5 bar [72 psi]:

620 N [139 lbf]

1550 N [348 lbf]

Max Retracting Force at 5 bar [72 psi]:

520 N [117 lbf]

1400 N [315 lbf]



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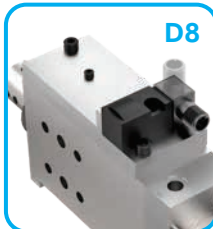
# 86P40, 86P60

Pneumatic Pin Package | Single Shaft

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



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



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



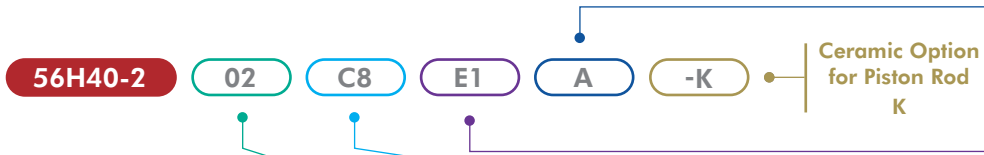
**Sensor Cables** Order separately

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

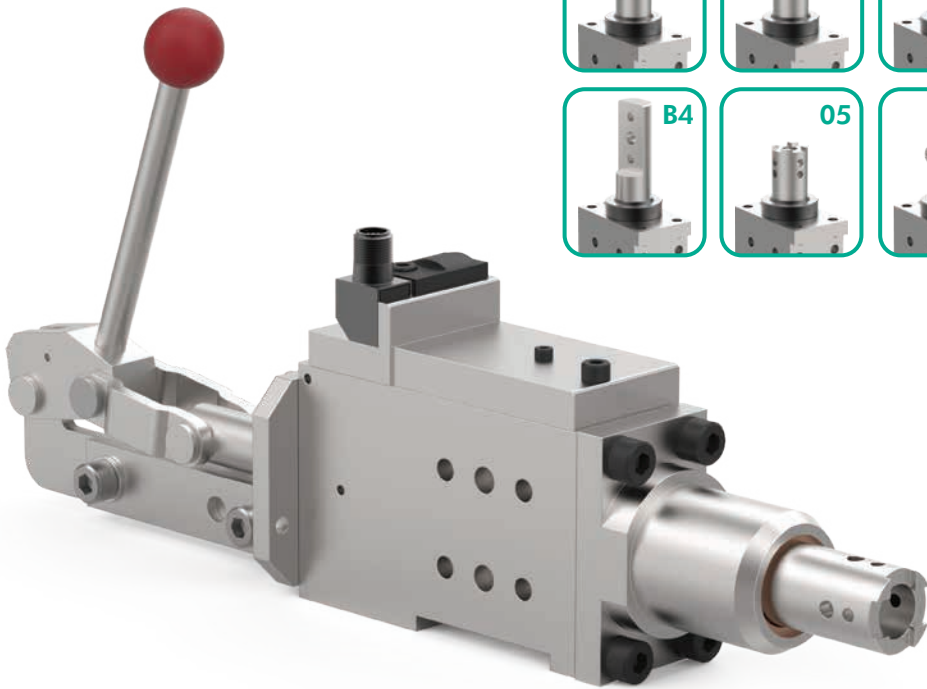
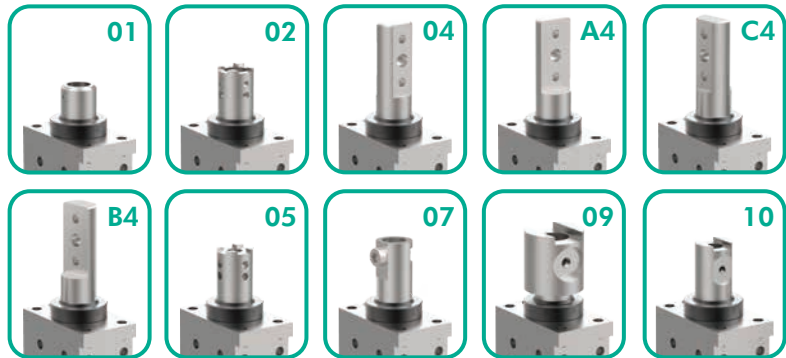
# 56H40-2

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**





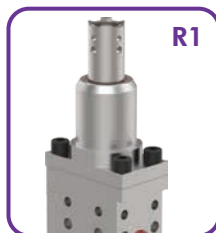
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full catalog pages  
on products

# 56H40-2

## Manual Pin Package | Single Shaft

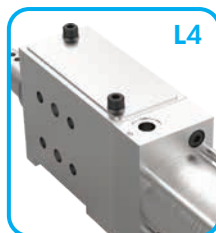
### Accessories

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



### Sensor

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

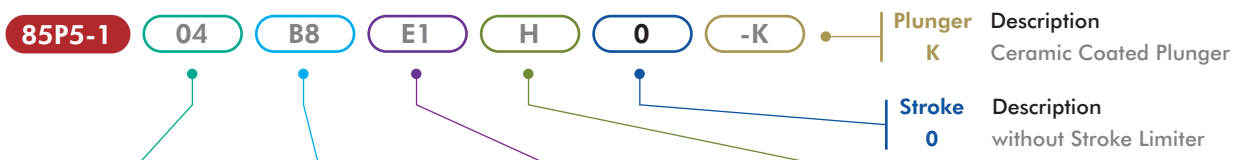
Stroke	Description
	<b>Anti-Twist Device/Low Accuracy</b>
<b>B</b>	20 mm Stroke (8MF-071-1)
<b>A</b>	40 mm Stroke (8CE-231-1)
<b>C</b>	60 mm Stroke (8CE-231-1)
	<b>Anti-Twist Device</b>
<b>2</b>	20 mm Stroke (86P0-20000002)
<b>4</b>	40 mm Stroke (86P0-20000004)
<b>6</b>	60 mm Stroke (86P0-20000006)



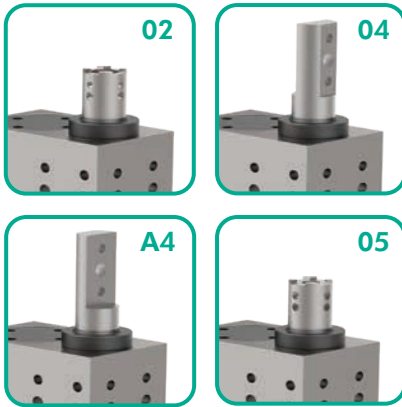
# 85P5-1

## Pneumatic Pin Package | Single Shaft

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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



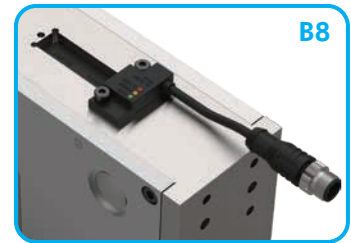
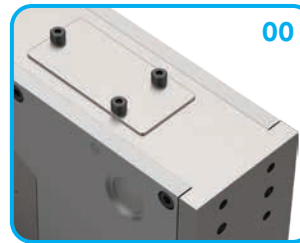
Accessories	Description
00	No Accessories
E1*	External Guide (82ZB-010-2) *External Guide can be mounted to front or sides of unit by customer.



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

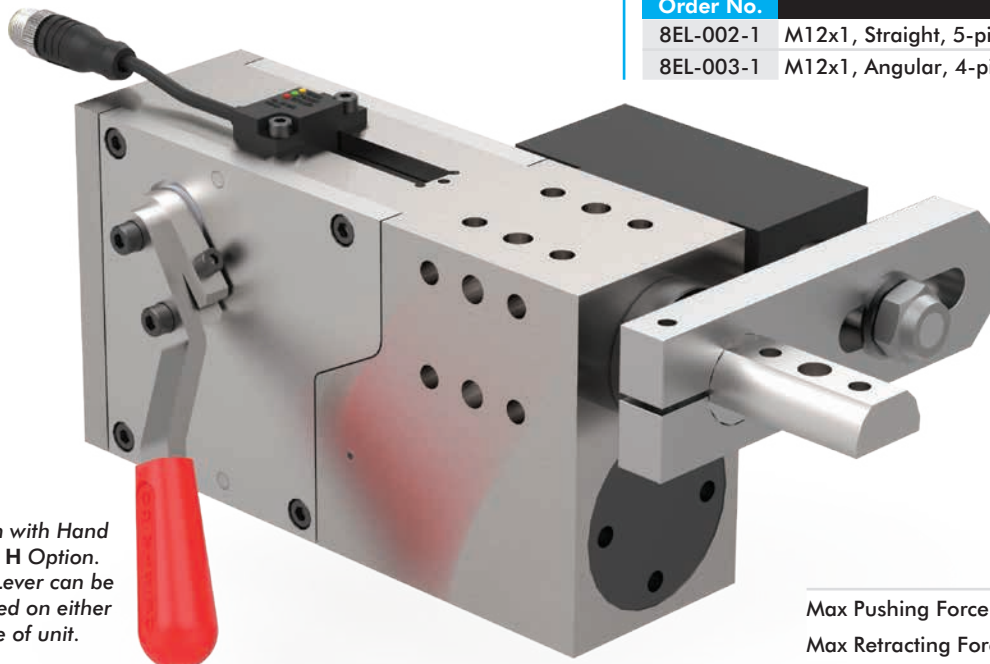


Sensor	Description
00	Without Sensing System
B8	Inductive Sensing System with M12x1 Cable Connector (8EA-033-2)



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]



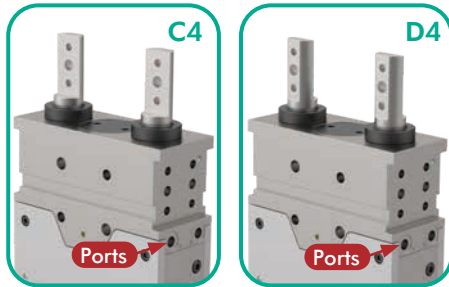
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# 85D5-2

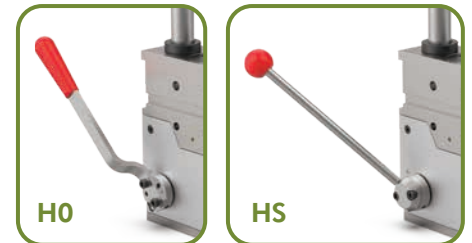
## Pneumatic Pin Package | Dual Shaft

**85D5-2** **C4** **L8** **10** **H0** **4** **Stroke** 4 **Description** 40 mm Stroke

Piston Rod	Description
<b>C4</b>	NAAMS Standard
<b>D4</b>	NAAMS Standard Rotated 180°

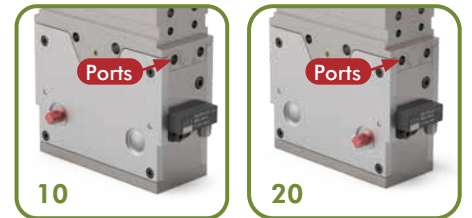


Hand Lever	Description
<b>00</b>	No Hand Lever
<b>H0</b>	Standard Hand Lever
<b>HS</b>	Weldable Hand Lever



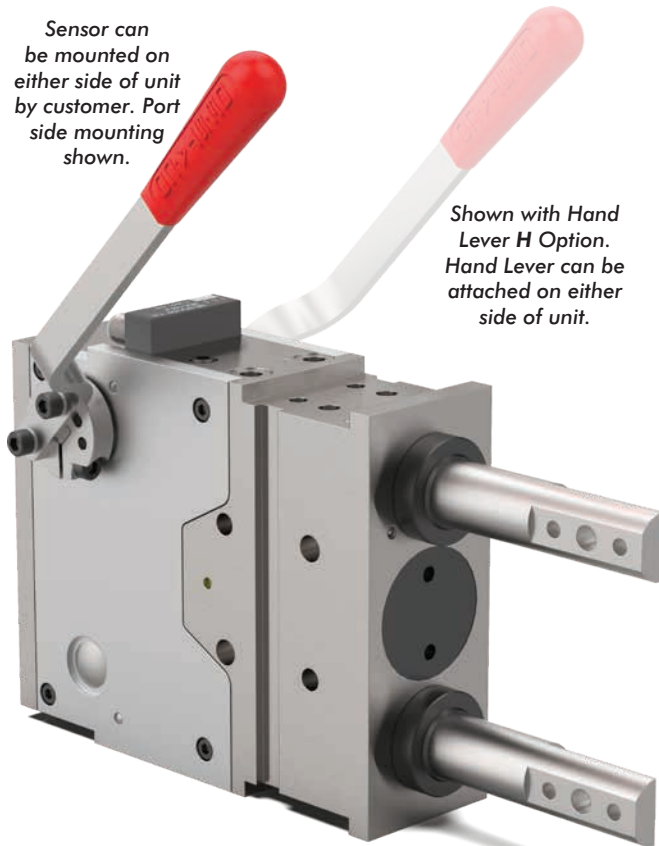
Hand Lever Shafts*	Description
<b>10</b>	Non-port side
<b>20</b>	Port side

\*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]

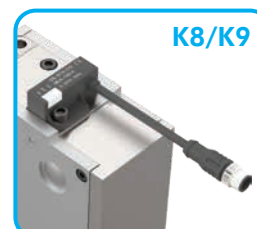
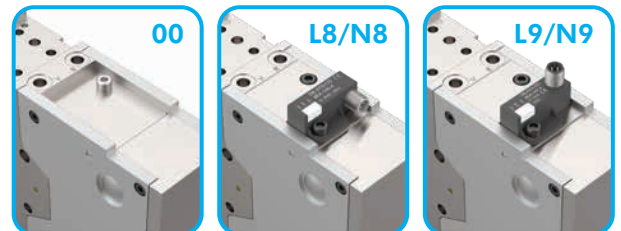
Max Retracting Force at 6 bar [87 psi]: 3000 N [674 lbf]

**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
<b>00</b>	Without Sensing System
<b>L8</b>	PNP Sensor with In-line M12x1 Connector (8EA-146-4-B)
<b>N8</b>	NPN Sensor with In-line M12x1 Connector (8EA-154-4-B)
<b>L9</b>	PNP Sensor with 90° M12x1 Connector (8EA-147-4-B)
<b>N9</b>	NPN Sensor with 90° M12x1 Connector (8EA-155-4-B)
<b>K8</b>	PNP Sensor with M12x1 Cable Connector (8EA-158-4-B)
<b>K9</b>	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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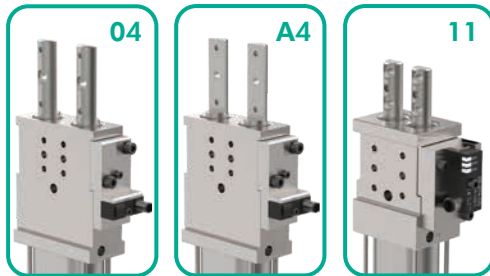
**86D40** **-1** **A4** **D8** **00** **A** **K** **Plunger** Description  
**K** Ceramic Option for Piston Rod

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

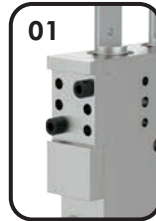


Hand Lever	Description
<b>-1</b>	No Hand Lever
<b>H1</b>	Handle for Manual Control (86D60 only)

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

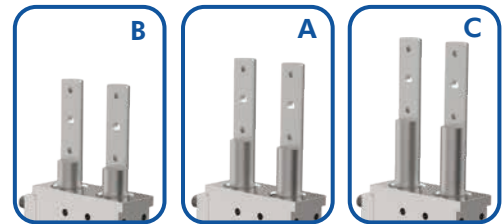


Accessories	Description
<b>00</b>	No Accessories
<b>01</b>	Locking Device for Retracted Position. Mountable on both sides (H1 only) (86D60H1000001)

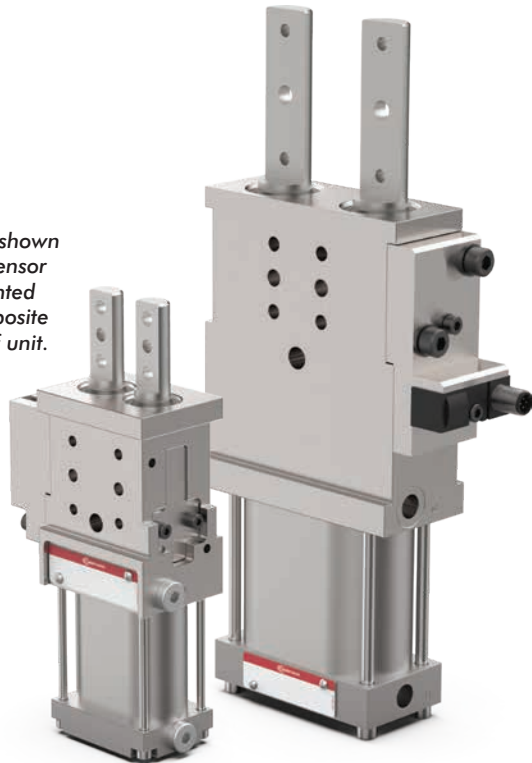


Stroke	for 86D40
<b>B</b>	20 mm Stroke (86D40-1000000B)
<b>A</b>	40 mm Stroke (86D40-1000000A)

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



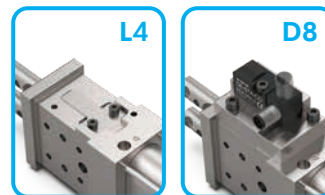
86D40 shown with sensor mounted on opposite side of unit.



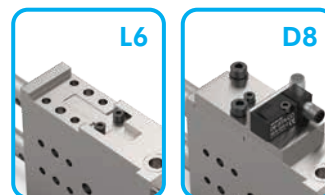
**86D40-1** **86D60-1**

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]

**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\*** 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



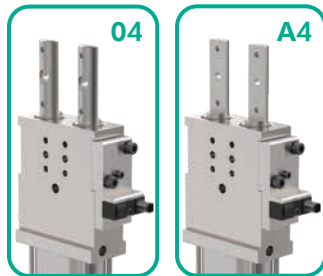
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# 56D60-1

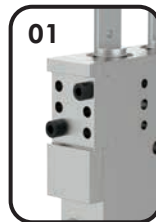
## Manual Pin Package | Dual Shaft

**56D60-1** **04** **D8** **01** **A** **K** **Plunger** Description  
**K** Ceramic Option for Piston Rod

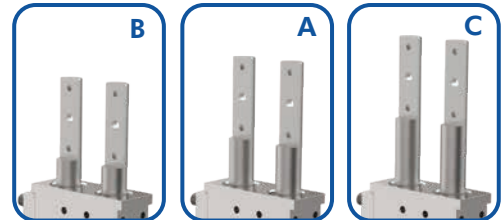
Piston Rod	Description
<b>04</b>	NAAMS Standard
<b>A4</b>	NAAMS Standard Rotated 180°



Accessories	Description
<b>00</b>	No Accessories
<b>01</b>	Locking Device for Retracted Position. Mountable on both sides (86D60H1000001)

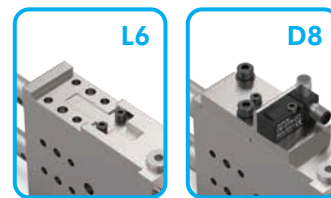


Stroke	Description
<b>B</b>	20 mm Stroke (86D0-1000000B)
<b>A</b>	40 mm Stroke (86D0-1000000A)
<b>C</b>	60 mm Stroke (86D0-1000000C)



Sensor*	Description
<b>L6</b>	Cover Plate (86D0-100L6)
<b>D8</b>	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

**56D60-1**

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

# RCM/RFM

## Pneumatic Pivot Unit | Medium Duty

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RFM - 125 - .2 - 129 - V/LS - PX - P - N - X

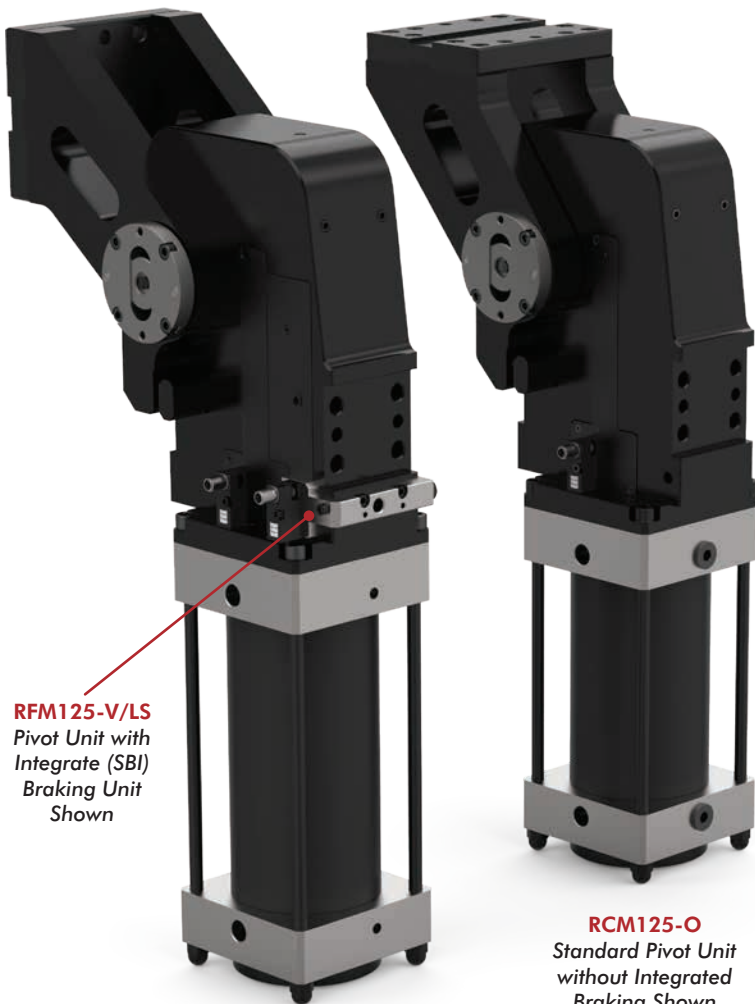
Base Description  
RCM Standard  
RFM Integrated Braking

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/VS	O	O/LS
		N/A			15°
		29°			30°
		45°			43°
		61°			61°
		77°			76°
92°	N/A	92°		91°	N/A
104°	N/A	104°		107°	N/A
121°	N/A	121°		N/A	129°

Opening angles are easily field adjustable.

Saddle Orientation	Description
O	Horizontal
V	Vertical
O/LS	Inverted Horizontal
V/LS	Inverted Vertical



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

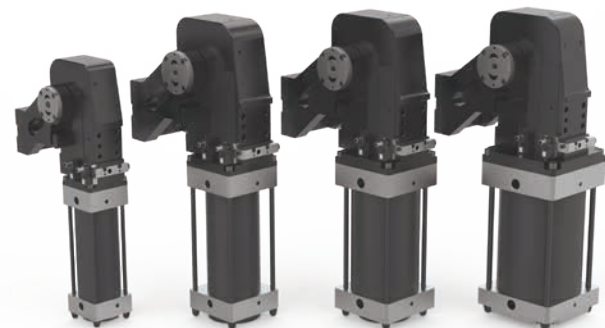
RCM125-O  
Standard Pivot Unit  
without Integrated  
Braking Shown

### RCM Series



RCM100-O RCM125-O RCM160-O RCM200-O

### RFM Series



RFM100-V RFM125-V RFM160-V RFM200-V

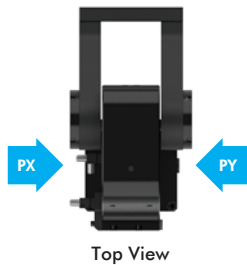


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Ports	Description
N	NPT Ports
G	G Port

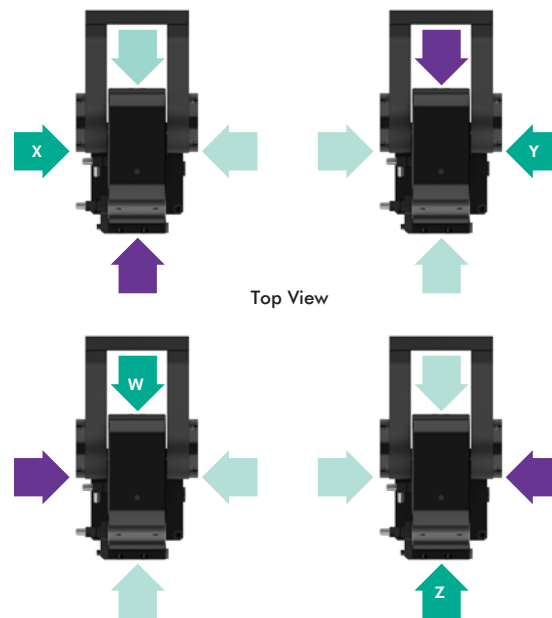
Proximity Switch Type	Description
0	No Proximity Switch
P	Pepperl+Fuchs Proximity Switch

Proximity Switch Location	Description
P0	No Proximity Switch
PX	Proximity Switch on Left-Side
PY	Proximity Switch on Right-Side



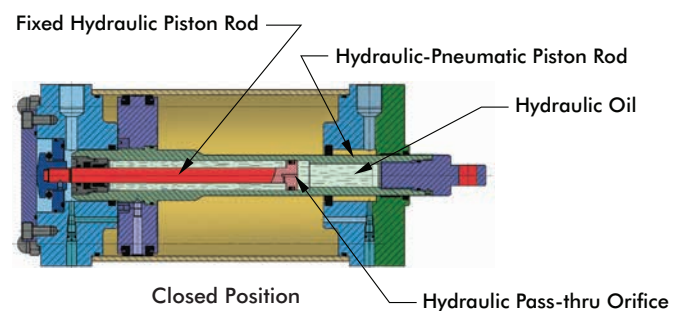
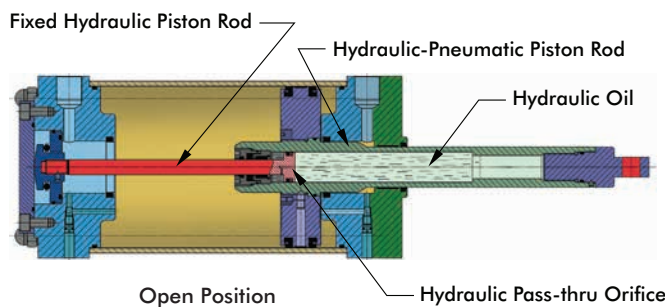
Cylinder Orientation	Description
X	Left-Facing Airport
Y	Right-Facing Airport
W	Front-Facing Airport
Z	Rear-Facing Airport

■ Air Port  
■ Air Ports Plugged  
■ Cushion Adjustment



### 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 motion control in heavy duty applications during opening and closing positioning.

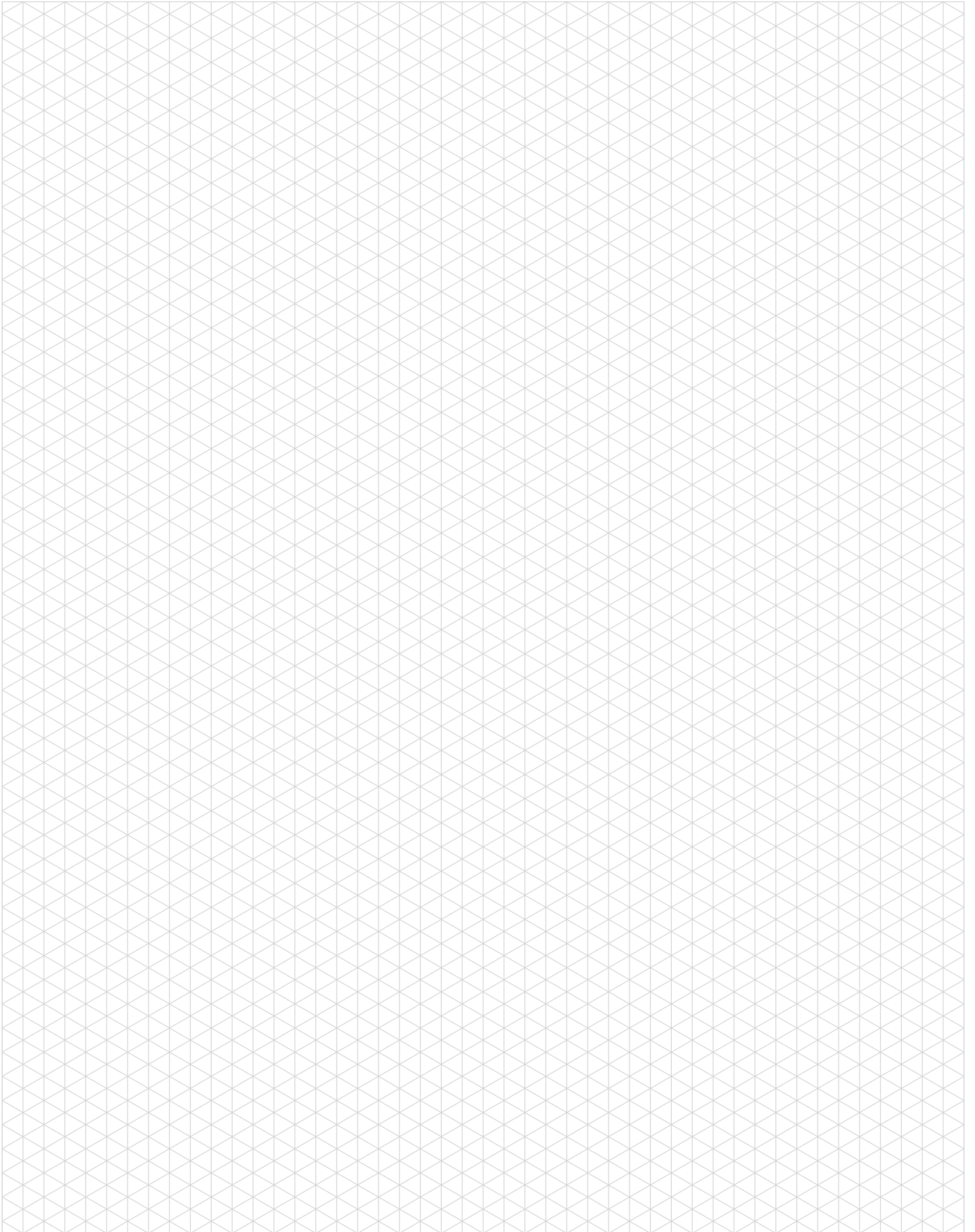


Specifications	Units	100	125	160	200
Max Torque by Load [5 bar] Opening Angle $\leq 92^\circ$	Nm [ft-lbs]	150 [111]	240 [117]	410 [302]	660 [487]
Max Torque by Load [5 bar] Opening Angle $> 92^\circ / \leq 121^\circ$	Nm [ft-lbs]	110 [81]	180 [133]	300 [211]	480 [354]
Max Torque by Load [5 bar] Opening 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]

# NOTES

A large grid of small squares, intended for taking notes. The grid consists of approximately 30 columns and 40 rows of squares, covering most of the page area below the header.





# NOTES

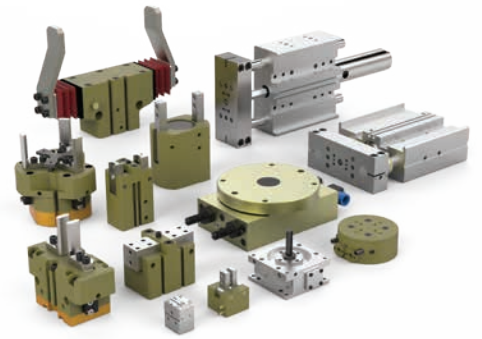
A large grid of small squares, intended for taking notes. The grid consists of approximately 30 columns and 40 rows of small squares, covering most of the page area below the header.

# OUR PORTFOLIO OF PRODUCTS



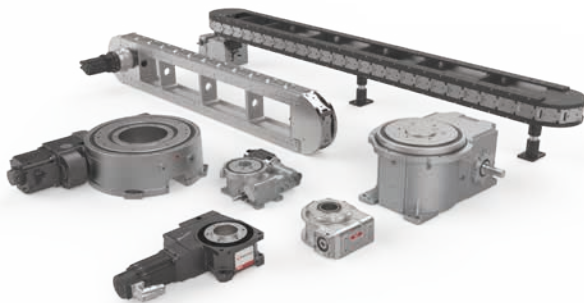
## End Effectors (EE)

- Tool Changers
- End-of-Arm Tooling
- Vacuum Products
- Palletizing Solutions



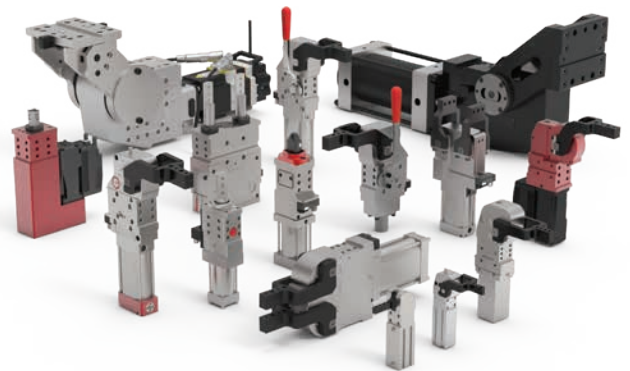
## Grippers (GR)

- Electric Grippers
- Pneumatic and Sheet Metal Grippers
- Rotates
- Slides



## Indexers (IN)

- Precision Conveyors
- Dial Indexers
- Shaft and Flange Indexers
- Part Handlers



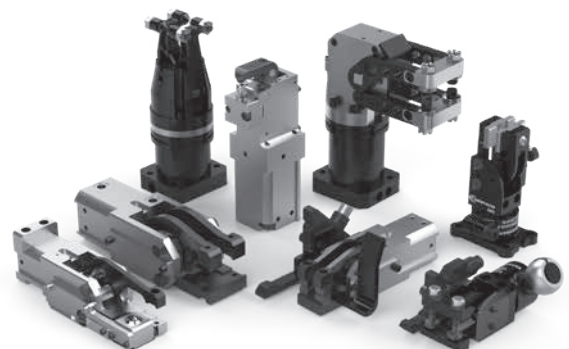
## Power Clamps (PC)

- Power Clamps
- Pin Clamps and Packages
- Pivot Units
- Power Cylinders



## Manual Clamps (MC)

- Hold Down
- Squeeze Action
- Plunger, Hook and Latch
- Pneumatic Toggle and Swing



## Sheet Metal Grippers (SM)

- Accelerate® Press Room
- Cam Type
- Toggle Lock

## GLOBAL SALES CONTACTS

### CORPORATE HEADQUARTERS



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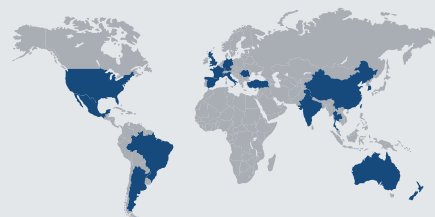
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Industries



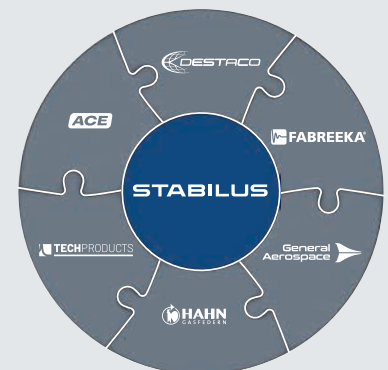
45 Locations in 19 Countries



8K Employees



2023 Revenues



Expert Brands