



SHEET METAL GRIPPERS

PRESS SHOP, CAM-ACTUATED,
TOGGLE-LOCK

destaco.com

VISUAL SELECTION GUIDE

MARKETS



CONSUMER GOODS



FOOD & PACKAGING



INDUSTRIAL



LIFE SCIENCES



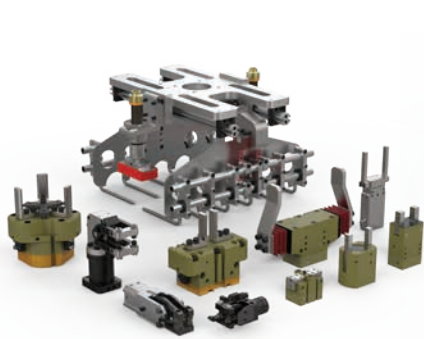
LOGISTICS



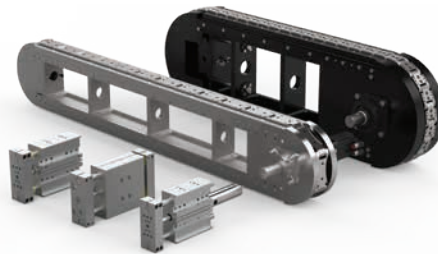
TRANSPORTATION

ABOUT DESTACO

Built on a Strong Foundation



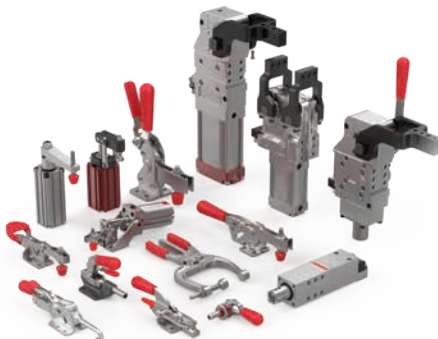
Gripping Solutions



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 of our Resources

New Product Development

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

Customer and Technical Service

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 solution that fit our customers' needs and applications

Custom Solutions

If our off-the-shelf solutions don't fit, we will partner with our customers to develop products that will



Sheet Metal Gripping Solutions

Speed Matters

DESTACO sheet metal grippers are used in press shop and high-speed sheet metal transfer applications. Our grippers feature high clamping forces and fast opening and closing action, and is offered with a wide variety of mount, jaw, and tip configurations.

- Press shop and sheet metal transfer application solutions
- Increase productivity with lightweight, high speed Accelerate® grippers
- Wide variety of mounting, jaw and tip configurations offered
- High clamping force and fast opening and closing action
- Long term reliability with minimal maintenance



SHEET METAL GRIPPERS

Product Features and Benefit

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84N Accelerate® Press Shop Grippers

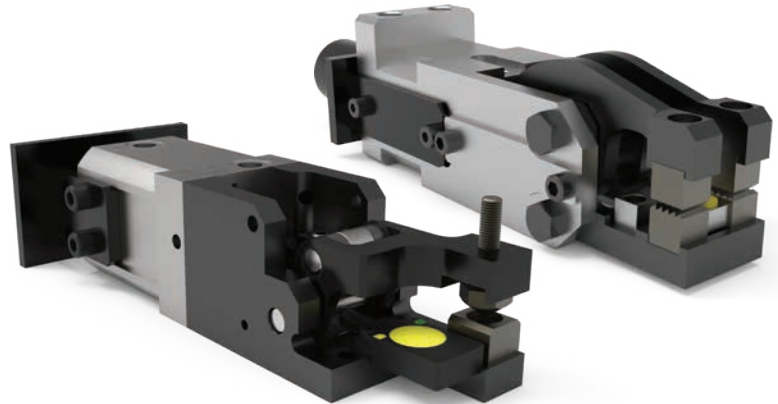
- Compact, lightweight and ultra fast actuation
- Straight, chisel, 90° and extended jaw options available
- Standard upper jaw openings up to 75°
- Adjustable jaw opening option available
- Zero protrusion fixed lower jaw (all models)
- Moveable lower jaw option (84N5)
- Fixed tip and adjustable tip models
- Flexible mounting options



ACCELERATE
COLLECTION

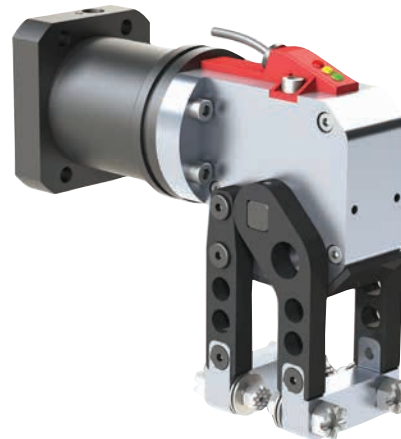
84A and 84L Cam-Actuated Grippers

- 6 styles with multiple opening angles, jaw lengths, points and mounting options
- High speed material movement in restricted spaces
- Fixed and moveable lower jaw styles available
- Roller and cam principal, self-locking at end stop position



GR84 Enclosed Modular Mini-Clamp Toggle-Lock Gripper

- Offered with several different jaw and tip options
- Can be flange or cylinder mounted
- Easy field-adjustable jaw opening
- Toggle locking mechanism holds the part if air pressure is lost
- Enclosed design protects from contaminants



GR1 Modular Toggle-Lock Grippers

- 2 cylinder sizes, 15 and 20 Series
- Can be flange or cylinder mounted
- Offered with several different jaw opening and point options
- Toggle locking mechanism holds the part if air pressure is lost





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SHEET METAL GRIPPERS

Sizing and Application Chart

Series	Page #	Clamping Force @ 5bar [72psi] N [lbf]																Upper Jaw Opening Angles								Lower Jaw Motion	Lower Jaw Opening Angles								Cam-Actuated Mechanism	Toggle-Locking Mechanism	Fixed Lower Jaw	Moveable Lower Jaw	Symmetrical Jaw Movement	Chisel Jaw	90°/Right Angle Jaw	Double Tips Jaw Option	Single Tips Jaw Option	Right or Left Jaw Available	Adjustable Tips	High Temperature
		Less than 100 [22]	100 to 250 [22.5 to 56]	250 to 500 [56 to 112]	500 to 750 [112 to 169]	750 to 1000 [169 to 225]	1000 to 1600 [225 to 360]	1600 to 2000 [360 to 360]	25°	30°	45°	50°†	60°	68°	72°	75°	76°	15°-75° (User Adjustable)	Fixed Lower Jaw	Moveable Lower Jaw	Symmetrical	0° (Fixed)	10°	15°	22°	30°	Cam-Actuated Mechanism	Toggle-Locking Mechanism	Fixed Lower Jaw	Moveable Lower Jaw	Symmetrical Jaw Movement	Chisel Jaw	90°/Right Angle Jaw	Double Tips Jaw Option	Single Tips Jaw Option	Right or Left Jaw Available	Adjustable Tips	High Temperature								
84N1	6				●				●	●		●			●			●								✓	✓			✓	✓	✓	✓		✓											
84N2	8				●				●	●		●			●			●								✓	✓					✓	✓	✓												
84N5	10				●	●			●	●		●			●		●	●	●	●		●	●	●	●	✓	✓	✓	✓	✓	✓	✓	✓													
84A2*	20		●	●	●				●	●				●				●	●	●	●	●		●		✓	✓	✓	✓		✓	✓	✓	✓	✓	✓										
84AF2*	24		●	●	●				●	●				●				●	●		●		●			✓	✓	✓					✓		✓											
84A3-3	26			●	●	●			●	●		●				●		●		●		●		●		✓	✓	✓	✓		✓	✓	✓	✓	✓	✓										
84L2-1	30	●											●					●								✓	✓					✓	✓	✓												
84L3-2	32		●										●					●								✓	✓					✓	✓	✓	✓											
GR84-15	34		●	●					●			●						●									✓	✓			✓	✓				✓										
GR1-15	36		●	●				●		●	●							●	●	●	●						✓	✓	✓	✓	✓		✓	✓		✓										
GR1-20	38		●								●								●	●							✓	✓	✓	✓			✓			✓										

*Clamping Force @ 6 bar [87 psi] †GR1-15-90F offers 90° of clearance, GR1-15-180 and GR1-20 offers 180° of clearance.

84N1 SERIES

Accelerate® Press Shop Sheet Metal Grippers | Ordering Information

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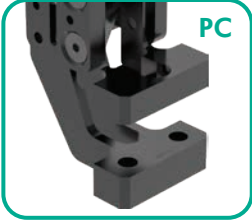
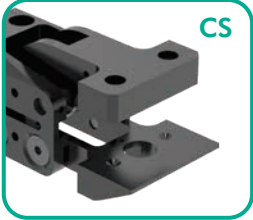
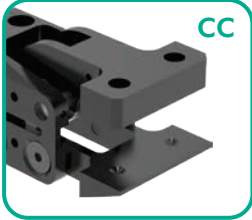
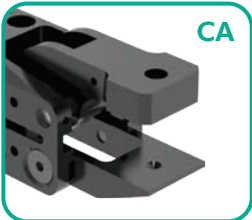
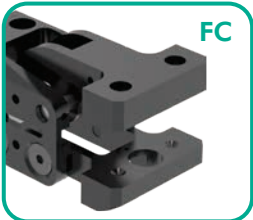
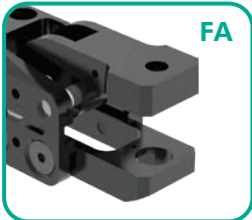
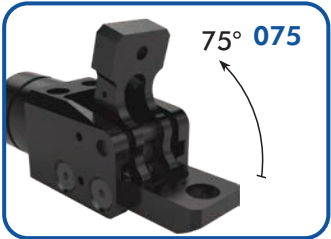
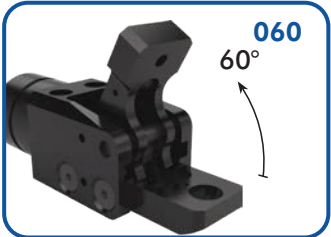
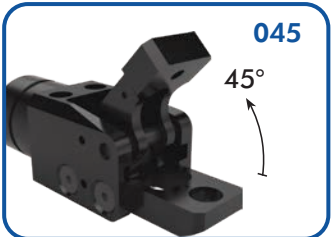
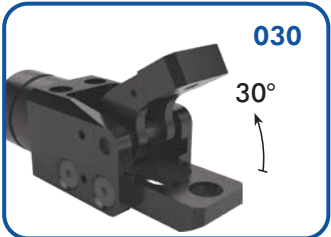


84N1 - N - 030 - FC - 01 - 1 - 0 - 0 - 3

Ports	Description
N	1/8 NPT
G	1/8 BSPP

Opening Angle	Description
030	30° Opening Angle
045	45° Opening Angle
060	60° Opening Angle
075	75° Opening Angle

Jaw Style/ Tip Mount	Description
FA	Fixed Lower 0° Jaw, Single Tip Mount
FC	Fixed Lower 0° Jaw, Double Tip Mount
CA	Fixed Lower Chisel Jaw, Single Tip Mount
CC	Fixed Lower Chisel Jaw, Double Tip Mount
CS	Fixed Lower Chisel Jaw, Double Tip w/Sensor Mount
PC	Fixed Lower 90° Jaw, Double Tip Mount



Mounts (sold separately): 14
Accessories: 15
Specifications: 19



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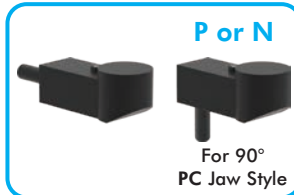
84N1 SERIES

Accelerate® Press Shop Sheet Metal Grippers | Ordering Information

Part Presence Detection

0
P
N

Description
None
PNP
NPN



4mm Material Sensing Range

Sheet Stop Description

0
1

Description
None (for PC option only)
Required (all jaw options except PC)



Adjustable Jaw Tip Options

Upper Jaw Only

00
01
02*
03
04
05

Description
None
Serrated Tip
Serrated Notch Tip
Point Tip
Peen Tip
Polyurethane Tip (Durometer 70A)

*02 serrated notch tip (for use with part presence sensing FA jaw style only).



Left Sensor Side Mount

0
1
2
3

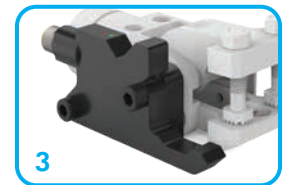
Description
None
Dual Magnetoresistive PNP Sensors Left Side
Dual Magnetoresistive NPN Sensors Left Side
Infrared PNP Sensing (not available for PC jaw style)

Right Sensor Side Mount

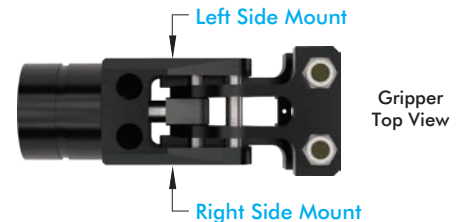
0
1
2
3

Description
None
Dual Magnetoresistive PNP Sensors Right Side
Dual Magnetoresistive NPN Sensors Right Side
Infrared PNP Sensing (not available for PC jaw style)

*Use of a Sheet Stop is highly recommended when using 2-Point Sensing.



0.5 mm blank minimum sheet thickness. Side mount option 1 & 2 sensing detects gripper jaw position can be adjusted to sense blank, double, full open, and full closed based on jaw position.



Description	Part #	Single Tip Jaw	Double Tip Jaw
Polyurethane Tip	8JD-1005-1	Yes*	Yes
Point Tip	8JD-1001-1	Yes*	Yes
Serrated Tip	8JD-1002-1	Yes*	Yes
Peen Tip	8JD-1003-1	Yes*	Yes
Serrated Notched Tip (for Jaw Style FA only)	8JD-1004-1	Yes	No

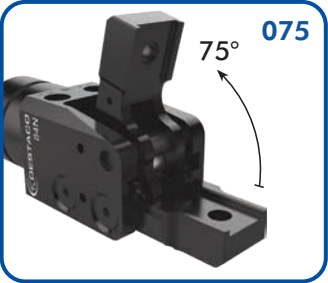
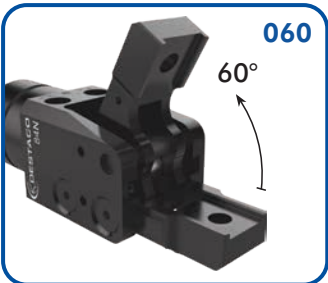
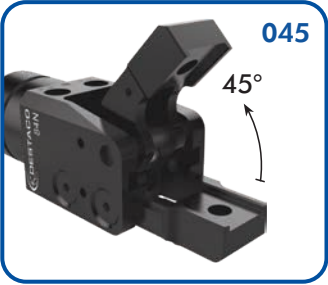
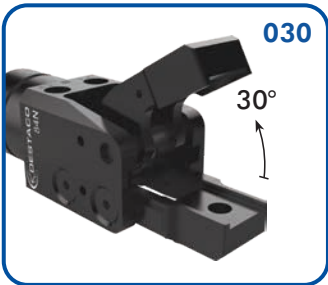
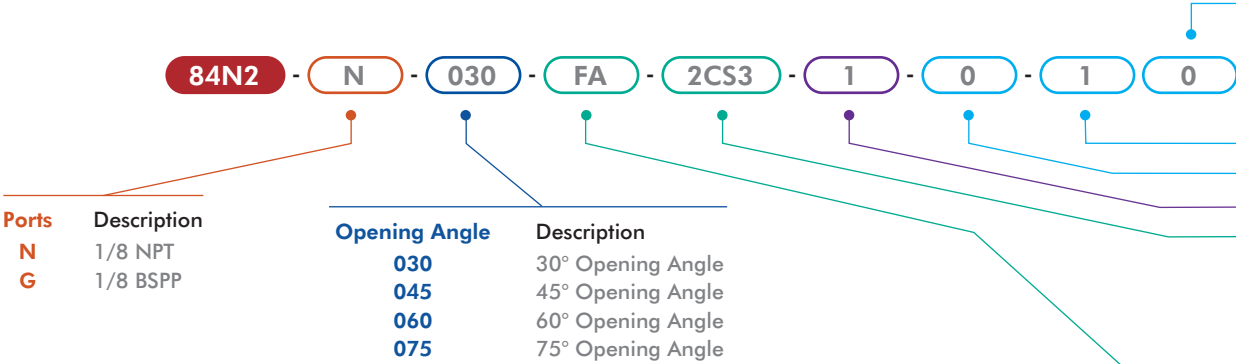
*These tips work with the FA jaw type but will cause a false positive signal if the part present sensor is installed.

Customer is responsible for final adjustments and tightening of all accessory mounting screws.

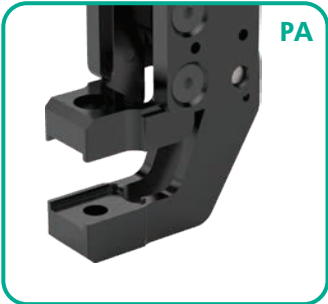
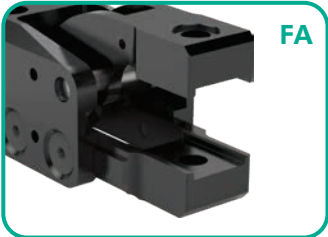
84N2 SERIES

Accelerate® Press Shop Sheet Metal Grippers | Ordering Information

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Jaw Type and Style	Description
FA	Straight Fixed Lower Jaw
PA	90° Jaw Configuration



Mounts (sold separately): 14

Accessories: 15

Specifications: 19



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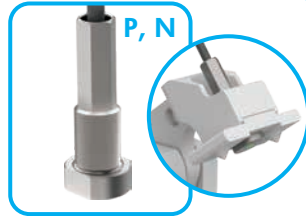
84N2 SERIES

Accelerate® Press Shop Sheet Metal Grippers | Ordering Information

In-Jaw Blank Sensing*

Description
0 None
P PNP
N NPN

*In-jaw blank sensing not available with Single Cone Style Tip.



Sheet Stop

Description
0 None (for PC option only)
1 Required (for FA option only)



Non-Adjustable Jaw Tip Insert Options

0000 None

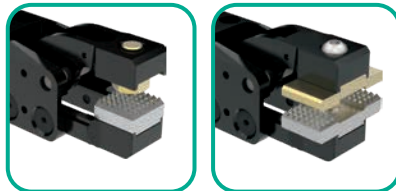
- or -

Step 1 - Tip Type Choose One

2 **C** **S** **3**

- 1** Single Tip
- 2** Double Tip*

*Double polyurethane tip style not available.



Step 2 - Upper Jaw Tip Insert

Choose One (see images below)

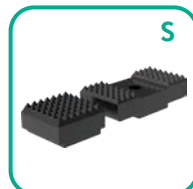
2 **C** **S** **3**

- C** Cone Style Tip*
- S** Serrated Style Tip
- F** Flat Style Tip
- P** Polyurethane

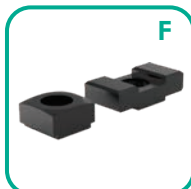
*Single Cone [1Cxx] not compatible with In-Jaw Sensor.



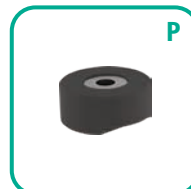
Single or Double
Cone Tips
(not available
for lower jaw)



Single or Double
Serrated Tips



Single or Double
Flat Tips



Single
Polyurethane Tip

Step 3 - Lower Jaw Tip Insert

Choose One (see images below)

2 **C** **S** **3**

- S** Serrated Style Tip
- F** Flat Style Tip
- S** Serrated Style Tip
- F** Flat Style Tip
- P** Polyurethane Style Tip (Single Only)
- F** Flat Style Tip
- P** Polyurethane Style Tip (Single Only)

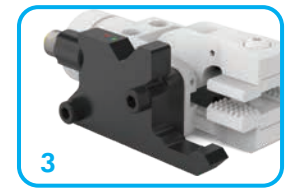
Left Sensor Side Mount*

Description
0 None
1 Dual Magnetoresistive PNP Sensors Left Side
2 Dual Magnetoresistive NPN Sensors Left Side
3 Infrared PNP Sensing (not available for PA jaw style)

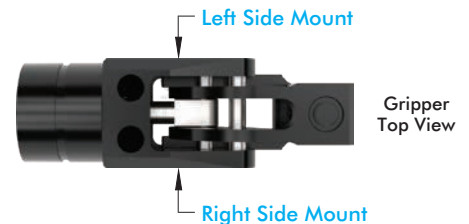
Right Sensor Side Mount*

Description
0 None
1 Dual Magnetoresistive PNP Sensors Right Side
2 Dual Magnetoresistive NPN Sensors Right Side
3 Infrared PNP Sensing (not available for PA jaw style)

*Use of a Sheet Stop is highly recommended when using 2-Point Sensing.



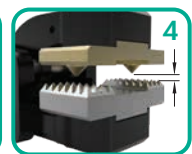
0.5 mm blank minimum sheet thickness. Side mount option 1 & 2 sensing detects gripper jaw position can be adjusted to sense blank, double, full open, and full closed based on jaw position.



Step 4 - Part Thickness Range Choose One

2 **C** **S** **4**

- 1** 0.5 to 1.1 mm **Black-Black**
- 2** 1.1 to 1.7 mm **Silver-Black**
- 3** 1.7 to 2.3 mm **Silver-Silver**
- 4** 2.3 to 2.9 mm **Gold-Silver**
- 5** 2.9 to 3.5 mm **Gold-Gold**



Customer is responsible for final adjustments and tightening of all accessory mounting screws.

84N5 SERIES (FIXED LOWER JAW)

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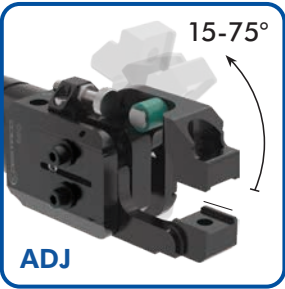
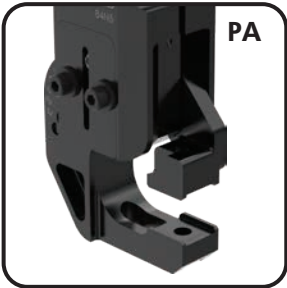
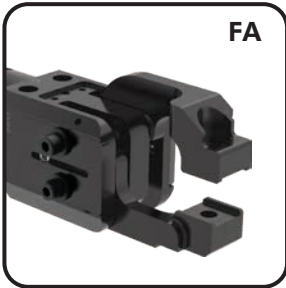


84N5 - G - 400 - FA - 1PF4 - 1 - P - 0 - 1

Ports	Description
N	1/8 NPT
G	1/8 BSPP

Opening Angle	Description
300	30° Opening Angle (FA option only)
400	45° Opening Angle (FA option only)
075	75° Opening Angle
ADJ	15° to 75° Adjustable Opening Angle

Jaw Type and Style	Description
FA	Straight Fixed Lower Jaw
PA	90° Straight Fixed Lower Jaw



Mounts (sold separately): 14
Accessories: 15
Specifications: 19

For Moveable Lower Jaw
versions see page 11



84N5-G-400-FA-1PF4-1-P-01
shown with GT-84N1-32B-A mount.

Covered under one or more U.S./International Patents



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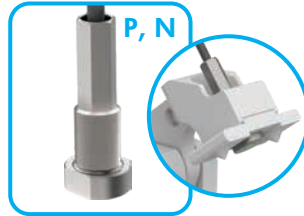
84N5 SERIES (FIXED LOWER JAW)

Accelerate® Press Shop Sheet Metal Grippers | Ordering Information

In-Jaw Blank Sensing*

Description
0 None
P PNP
N NPN

*In-jaw blank sensing not available with Single Cone Style Tip.



Sheet Stop

Description
0 None (PA option only)
1 Required (FA option only)



Non-Adjustable Jaw Tip Insert Options

0000 None

- or -

Step 1 - Tip Type Choose One

2 C S 3

- 1 Single Tip
- 2 Double Tip*

*Double polyurethane tip style not available.



Step 2 - Upper Jaw Tip Insert

Choose One (see images below)

2 C S 3

C Cone Style Tip*

S Serrated Style Tip

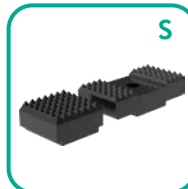
F Flat Style Tip

P Polyurethane

*Single Cone [1Cxx] not compatible with In-Jaw Sensor.



Single or Double
Cone Tips
(not available
for lower jaw)



Single or Double
Serrated Tips

Step 3 - Lower Jaw Tip Insert†

Choose One (see images below)

2 C S 3

S Serrated Style Tip

F Flat Style Tip

S Serrated Style Tip

F Flat Style Tip

S Serrated Style Tip

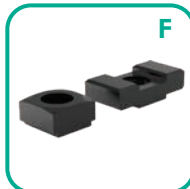
F Flat Style Tip

P Polyurethane Style Tip (Single Only)

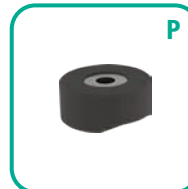
F Flat Style Tip

P Polyurethane Style Tip (Single Only)

†For Chisel Jaw types SC and DC enter 0 for Lower Jaw Tip Insert.



Single or Double
Flat Tips



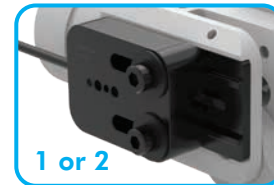
Single
Polyurethane Tip

Adjustable Left Sensor Side Mount

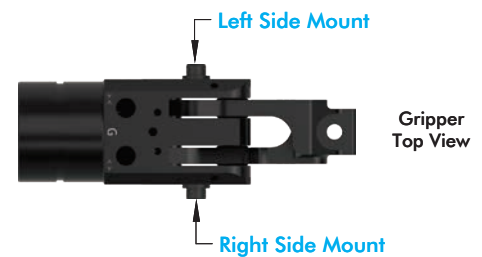
Description
0 None
1 PNP Sensor Kit Left Side
2 NPN Sensor Kit Left Side

Adjustable Right Sensor Side Mount

Description
0 None
1 PNP Sensor Kit Right Side
2 NPN Sensor Kit Right Side



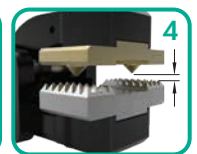
0.5 mm blank minimum sheet thickness. Side mount option 1 & 2 sensing detects gripper jaw position and can be adjusted to sense blank, double, full open, and full closed based on jaw position. For sensors set to sense 0.5mm-0.9mm thickness, the sensor will trigger for gripper closed (empty) too.



Step 4 - Part Thickness Range Choose One

2 C S 4

1	0.5 to 1.1 mm	Black-Black
2	1.1 to 1.7 mm	Silver-Black
3	1.7 to 2.3 mm	Silver-Silver
4	2.3 to 2.9 mm	Gold-Silver
5	2.9 to 3.5 mm	Gold-Gold



Customer is responsible for final adjustments and tightening of all accessory mounting screws.

84N5 SERIES (MOVEABLE LOWER JAWS)

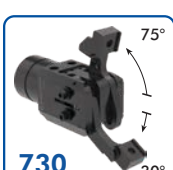
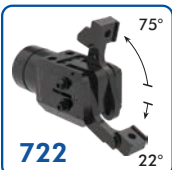
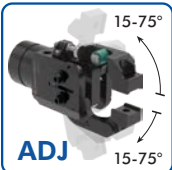
Accelerate® Press Shop Sheet Metal Grippers | Ordering Information

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catalog pages
on this product



84N5 - G - ADJ - DA - 2CS4 - 1 - P - 0 1

Ports	Description
N	1/8 NPT
G	1/8 BSPP



Opening Angle	Upper Jaw	Lower Jaw	For Jaw Type
375	30°	75°	DA
475	45°	75°	DA
075	75°	75°	DA
ADJ	15-75°	15-75°	DA
315	30°	15°	DR, SC, DC
415	45°	15°	DR, SC, DC
715	75°	15°	DR, SC, DC
322	30°	22°	DR, SC, DC
422	45°	22°	DR, SC, DC
722	75°	22°	DR, SC, DC
330	30°	30°	DR, SC, DC
430	45°	30°	DR, SC, DC
730	75°	30°	DR, SC, DC
310	30°	10°	EJ

Jaw Type and Style	Description
DA	Double Open Jaws
DR	Drop Jaw
SC	Single Chisel Jaw
DC	Double Chisel Jaw
EJ	Extended Jaw



Mounts (sold separately): 14
Accessories: 15
Specifications: 19

84N5-G-ADJ-DA-2CS4-1-P-01
shown with GT-84N-GPC-25MS-A mount.



For Fixed Lower Jaw
versions see page 1

Covered under one or more
U.S./International Patents



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on this product

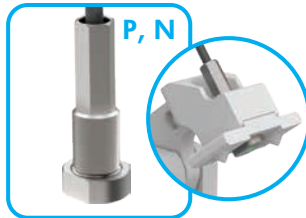
84N5 SERIES (MOVEABLE LOWER JAWS)

Accelerate® Press Shop Sheet Metal Grippers | Ordering Information

In-Jaw Blank Sensing*

Description
0 None
P PNP
N NPN

*In-jaw blank sensing not available with Single Cone Style Tip.



Sheet Stop

Description
1 Required



Non-Adjustable Jaw Tip Insert Options

0000 None

- or -

Step 1 - Tip Type*

Choose One

2 C S 3

- 1 Single Tip
- 2 Double Tip

*Single Tip not compatible with Double Chisel Jaw type option DC.
Double polyurethane tip style not available.



Step 2 - Upper Jaw Tip Insert

Choose One (see images below)

2 C S 3

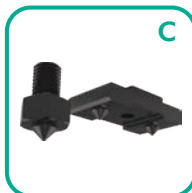
C Cone Style Tip*

S Serrated Style Tip

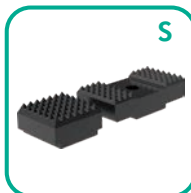
F Flat Style Tip

P Polyurethane

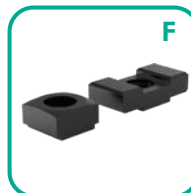
*Single Cone [1Cxx] not compatible with In-Jaw Sensor.



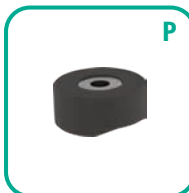
Single or Double
Cone Tips
(not available
for lower jaw)



Single or Double
Serrated Tips



Single or Double
Flat Tips



Single
Polyurethane Tip

Step 3 - Lower Jaw Tip Insert†

Choose One (see images below)

2 C S 3

S Serrated Style Tip

F Flat Style Tip

S Serrated Style Tip

F Flat Style Tip

S Serrated Style Tip

F Flat Style Tip

P Polyurethane Style Tip (Single Only)

F Flat Style Tip

P Polyurethane Style Tip (Single Only)

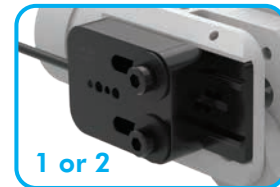
†For Chisel Jaw types SC and DC enter 0 for Lower Jaw Tip Insert.

Adjustable Left Sensor Side Mount

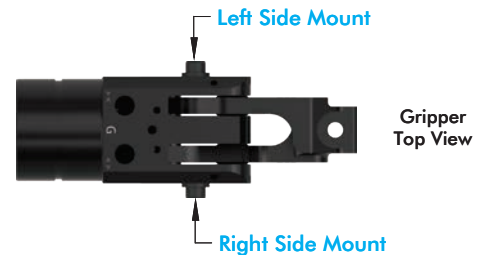
Description
0 None
1 PNP Sensor Kit Left Side
2 NPN Sensor Kit Left Side

Adjustable Right Sensor Side Mount

Description
0 None
1 PNP Sensor Kit Right Side
2 NPN Sensor Kit Right Side



0.5 mm blank minimum sheet thickness. Side mount option 1 & 2 sensing detects gripper jaw position and can be adjusted to sense blank, double, full open, and full closed based on jaw position.
For sensors set to sense 0.5mm-0.9mm thickness, the sensor will trigger for gripper closed (empty) too.

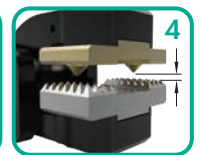
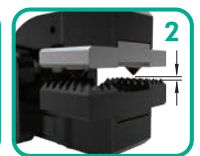


Step 4 - Part Thickness Range** Choose One

2 C S 4

1	0.5 to 1.1 mm	Black-Black
2	1.1 to 1.7 mm	Silver-Black
3	1.7 to 2.3 mm	Silver-Silver
4	2.3 to 2.9 mm	Gold-Silver
5	2.9 to 3.5 mm	Gold-Gold

**Chisel Jaw types SC and DC only have an upper jaw tip insert. Part Thickness Ranges 1, 3 and 5 available.



Customer is responsible for all adjustments and tightening of all accessory mounting screws.

84N MOUNTING ACCESSORIES

Accelerate® Press Shop Sheet Metal Grippers | Ordering Information

Catalog Pages For
Accessories Are
Included Within The
Product Series Link.

Mounting Options



Side Ball Mount

Ball Size	84N1/84N2	84N5
1.125" (28.5mm)	GT-84N1-B112-A	GT-84N5-B112-A
32mm	GT-84N1-32B-A	GT-84N5-32B-A



Parallel Clamp Swivel Mount

Swivel Size	84N1/84N2	84N5
1"	GT-84N-GPC-100S-A	GT-84N5-GPC-100S-A
25mm	GT-84N-GPC-25MS-A	GT-84N5-GPC-25MS-A



Apple Core Mount

Applecore Size	84N1/84N2	84N5
19mm	GT-84N1-19M-A	GT-84N5-19M-A
20mm	GT-84N1-20M-A	GT-84N5-20M-A



Parallel Clamp Swivel Mount

Swivel Size	84N1/84N2	84N5
1.25"	GT-84N-GPC-125S-A	GT-84N5-GPC-125S-A



Rear Ball Mount

Ball Size	84N1/84N2	84N5
1.125" (28.5mm)	GT-84N-RBM-B112-A	GT-84N5-RBM-B112-A
32mm	GT-84N-RBM-32B-A	GT-84N5-RBM-32B-A



Body Builder Swivel Mount

Swivel Size	84N1/84N2	84N5
30mm	GT-84N-GPC-30BBS-A	GT-84N5-GPC-30BBS-A



Rear Flange Mount

84N1/84N2	84N5
GT-84N-RFM-2213-A	GT-84N5-RFM-2213-A



25mm Rear Clamp Swivel Mount

84N1/84N2	84N5
GT-84N-RSM-25MS-A	GT-84N5-RSM-25MS-A

84N TIPS & TIP INSERTS

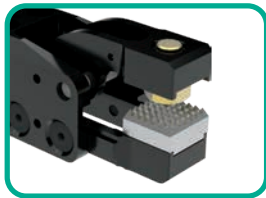
Accelerate® Press Shop Sheet Metal Grippers | Replacement Parts

84N1 Single Tips

				
Point Tip	Peen Tip	Serrated Tip (for all Jaw Styles except FA)	Serrated for use with part present sensor single tip jaw style	Polyurethane Tip
Part #	Part #	Part #	Part #	Part #
8JD-1001-1	8JD-1003-1	8JD-1002-1	8JD-1004-1	8JD-1005-1

84N2/84N5 Single Tip Inserts

See order pages for
proper tip selection.



All tip kits
come with
screws for
mounting.

Standard Tips Single Cone - Self Mounted

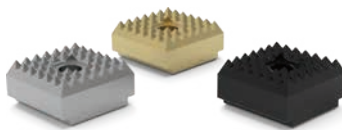
Tip Color	Part #
Gold	8JD-1013-1
Silver	8JD-1012-1
Black	8JD-1011-1

84N5 Single
Serrated Tip
mounted with
In-Jaw Blank
Sensing



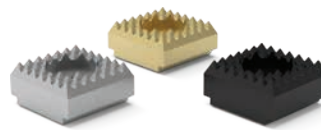
Standard Tips Single Serrated

Tip Color	Part #
Gold	8JD-1019-1
Silver	8JD-1018-1
Black	8JD-1017-1



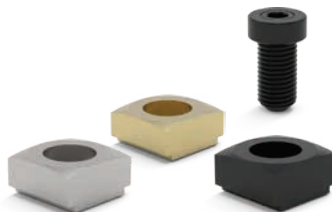
Tips for Sensor Single Serrated

Tip Color	Part #
Gold	8JD-1028-1
Silver	8JD-1027-1
Black	8JD-1026-1



Standard Tips Single Flat

Tip Color	Part #
Gold	8JD-1039-1
Silver	8JD-1038-1
Black	8JD-1037-1
Mounting Screw	8BB-1003-1



Standard Tips Single Polyurethane

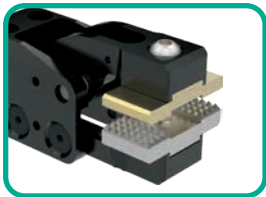
Tip Color	Part #
Gold	8JD-1042-1
Silver	8JD-1041-1
Black	8JD-1040-1



84N2/84N5 TIP INSERTS & 84N5 JAW KITS

Accelerate® Press Shop Sheet Metal Grippers | Replacement Parts

84N2/84N5 Double Tip Inserts



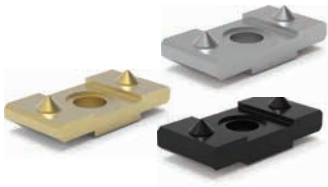
All tip kits come with screws for mounting.

See order pages for proper tip selection.

84N5 Double Cone Tip mounted with In-Jaw Blank Sensing

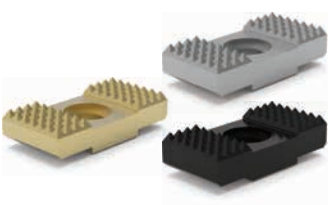
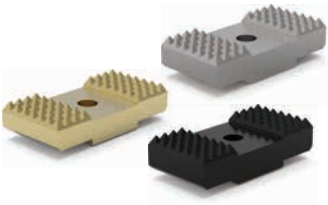


Standard Tips Double Cone	
Tip Color	Part #
Gold	8JD-1016-1
Silver	8JD-1015-1
Black	8JD-1014-1



Tips for Sensor Double Cone	
Tip Color	Part #
Gold	8JD-1025-1
Silver	8JD-1024-1
Black	8JD-1023-1

Standard Tips Double Serrated	
Tip Color	Part #
Gold	8JD-1022-1
Silver	8JD-1021-1
Black	8JD-1020-1



Tips for Sensor Double Serrated	
Tip Color	Part #
Gold	8JD-1036-1
Silver	8JD-1035-1
Black	8JD-1034-1

Standard Tips Double Flat	
Tip Color	Part #
Gold	8JD-1045-1
Silver	8JD-1044-1
Black	8JD-1043-1
Mounting Screw	8BB-1003-1



84N5 Fixed Lower Jaw Replacement Kits

All kits include 2 jaws, 2 pivot pins, 2 cam follower bushings, 1 cam follower and 4 flat head cap screws.



Straight Fixed Lower Jaw		Part #
Upper Jaw	Lower Jaw	
30°	0°	84N5-300-FA-KIT
45°	0°	84N5-400-FA-KIT
75°	0°	84N5-FA-KIT



90° Straight Fixed Lower Jaw		Part #
Upper Jaw	Lower Jaw	
75°	0°	84N5-PA-KIT

84N5 JAW KITS

Accelerate® Press Shop Sheet Metal Grippers | Replacement Parts

84N5 Moveable Lower Jaw Replacement Kits

All kits include 2 jaws, 2 pivot pins, 2 cam follower bushings, 1 cam follower and 4 flat head cap screws.



Double Open Jaw		Part #
Upper Jaw	Lower Jaw	
30°	75°	84N5-375-DA-KIT
45°	75°	84N5-475-DA-KIT
75°	75°	84N5-DA-KIT



Extended Drop Jaw		Part #
Upper Jaw	Lower Jaw	
30°	10°	84N5-310-EJ-KIT



Single Chisel Jaw		Part #
Upper Jaw	Lower Jaw	
30°	15°	84N5-315-SC-KIT
30°	22°	84N5-322-SC-KIT
30°	30°	84N5-330-SC-KIT
45°	15°	84N5-415-SC-KIT
45°	22°	84N5-422-SC-KIT
45°	30°	84N5-430-SC-KIT
75°	15°	84N5-715-SC-KIT
75°	22°	84N5-722-SC-KIT
75°	30°	84N5-730-SC-KIT



Double Chisel Jaw		Part #
Upper Jaw	Lower Jaw	
30°	15°	84N5-315-DC-KIT
30°	22°	84N5-322-DC-KIT
30°	30°	84N5-330-DC-KIT
45°	15°	84N5-415-DC-KIT
45°	22°	84N5-422-DC-KIT
45°	30°	84N5-430-DC-KIT
75°	15°	84N5-715-DC-KIT
75°	22°	84N5-722-DC-KIT
75°	30°	84N5-730-DC-KIT



Drop Jaw		Part #
Upper Jaw	Lower Jaw	
30°	15°	84N5-315-DR-KIT
30°	22°	84N5-322-DR-KIT
30°	30°	84N5-330-DR-KIT
45°	15°	84N5-415-DR-KIT
45°	22°	84N5-422-DR-KIT
45°	30°	84N5-430-DR-KIT
75°	15°	84N5-715-DR-KIT
75°	22°	84N5-722-DR-KIT
75°	30°	84N5-730-DR-KIT

84N STOPS, SENSORS & SEAL KITS

Catalog Pages For
Accessories Are
Included Within The
Product Series Link.

Accelerate® Press Shop Sheet Metal Grippers | Ordering Information

Sheet Stops



84N1/84N2 Sheet Stop Kit

Part Number

8MH-1003-1

Includes socket head
cap mounting screws



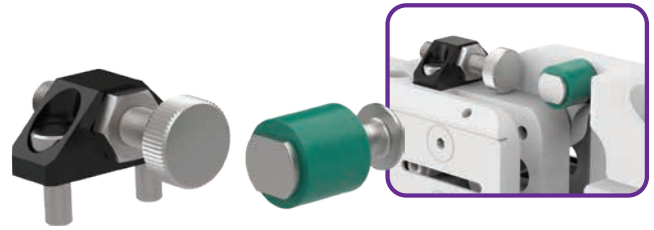
84N5 Sheet Stop Kit

Part Number

8MH-1053-1

Includes socket head
cap mounting screws

Opening Angle Adjustment Kit (84N5 only)



84N5 Stopper and Bumper Assembly

Part Number

8MH-1052-1

Includes socket head cap mounting screws.
For 84N5 only.

In-Jaw Part Sensor Kits



Part Present Sensor Kit - 84N1 Only

Sensor Type	Part #
PNP Inductive Sensor	8EA-1024-1
NPN Inductive Sensor	8EA-1025-1
PNP 90° Inductive Sensor*	8EA-1027-1
NPN 90° Inductive Sensor*	8EA-1028-1

*For 84N1 PC Jaw Style only.



In-Jaw Blank Sensing - 84N2/ 84N5 Only

Sensor Type	Part #
PNP Inductive Sensor	8EA-1033-1
NPN Inductive Sensor	8EA-1034-1

For use with appropriate Jaw Tips only.

Side Mounted Sensor Kits



84N1/ 84N2



84N5

Side Mount Sensor Kit

Sensor Type	84N1/84N2	84N5
Single PNP Sensor Kit (for left/right side)	8EA-1035-1	8EA-1041-3
Single NPN Sensor Kit (for left/right side)	8EA-1036-1	8EA-1041-4
Double PNP Sensor Kits (for both sides)	N/A	8EA-1041-1
Double NPN Sensor Kits (for both sides)	N/A	8EA-1041-2
4 mm PNP Sensor	OHSP-017	OISA-004
4 mm NPN Sensor	OHSN-017	OISA-005

Infrared Part Present Sensor with Mounting Adapter



Infrared Part Present Sensor Kit

Sensor Type	84N1/84N2
Infrared Part Present Sensor Kit	8EA-1023-1

*Not available for 90° jaw style

Sensor Cable Extensions

Sensor Cable Extension	Part #
Quick Disconnect 2 Meter Cable Length*	CABL-010
Quick Disconnect 5 Meter Cable Length*	CABL-013

*Sensor and cable sold separately. Excludes 84N5.

Seal Kits



Seal Kits	Part #
84N1/84N2	SLKT-478
84N5	SLKT-479

Includes shock pad, rod u-cup seal, o-ring
cap, piston seal and retainer ring.

84N SERIES

Accelerate® Press Shop Sheet Metal Grippers | Specification



84N1

84N2

Specificatio	Unit	84N1/84N2
Grip Force at 5 bar	N [lbs]	Up to 1000 [225]
Weight (FA jaws - no tips)	Kg [lb]	0.27 [0.6]
Size L x W x H (open)	mm [in]	110 x 43 x 64 [4.33] x [1.69] x [2.52]
Actuation Time	ms	33
Minimum Operating Pressure	bar [psi]	4 [58]
Opening Angles:		
Upper Jaws		30°, 45°, 60°, 75°
Lower Jaws		Fixed
Piston Ø	mm [in]	25 [0.98]
Air Consumption/Cycle	L [in ³]	0,015 [0.92]
Temperature Range	C° [F°]	-35° to 80° [-31° to 176°]



84N5

Specificatio	Unit	84N5
Grip Force at 5 bar	N [lbs]	up to 1200 [270]
Weight (FA jaws - no tips)	Kg [lb]	0,68 [1.50]
Size L x W x H (Open)	mm [in]	149 x 46 x 95 [5.87] x [1.81] x [3.74]
Actuation Time	ms	70
Minimum Operating Pressure	bar [psi]	4 [58]
Opening Angles:		
Upper Jaws		30°, 45°, 75°, ADJ (15°-75°)
Lower Jaws		10°, 15°, 22°, 30°, 75°, ADJ (15°-75°)
Piston Ø	mm [in]	32 [1.26]
Air Consumption/Cycle	L [in ³]	0,036 [2.20]
Temperature Range	C° [F°]	-35° to 80° [-31° to 176°]

84A2 SERIES (FIXED LOWER JAW)

Sheet Metal Grippers | Ordering Information

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catalog pages
on this product



Fixed Lower, 90° & 45° Jaw **Sensors, Gripper Teeth & Mounting** (See next page)

84A2 - 1 1 D4 N (Lower) BA (Upper) BA - T **High Temperature**
(Not available on T-Slot)

Body Style Options

Description
84A2 Standard
84AT2 Sensor T-Slot

Porting Options

Description
1 (2) M5
V (2) G1/8

Jaw Arrangement Options

Description
1 Double Upper, Straight Design
2* Double or Single Left/Right Upper, 90° Design
4† Single Upper, Left, Straight Design
6† Single Upper, Right, Straight Design
7 Double Upper, Straight Design, Drop Jaw
A Double Upper, Straight Design, Extended Drop Jaw
8 Double Upper Extended Jaw
9 Fixed Upper, Double Lower Jaws, 90° Design:
[84A2/84AT2 (-)1/V 9] 45° Jaw Opening Angle Std.
[84A2/84AT2 (X)1/V 9] 30° Jaw Opening Angle Std.
0* Double or Single Left/Right Upper, 45° Design
*Requires Jaw Orientation option "Blank", L or R
†Requires Jaw Orientation option "Blank"

Jaw Opening Options

Description
- 72° Jaw Opening (Std.)
X 30° Jaw Opening
Y 45° Jaw Opening

Jaw Orientation Options (Jaw Arrangement 2, 0 Only)

Description
"Blank" Double Jaw
L Single Left Jaw
R Single Right Jaw

For Moveable Lower Jaw versions see page 15

Speci cations	Unit	
Piston	mm	25
Actuation Time (open/close)	sec	<0,1
Air Consumption per Double Stroke at 6 bar	L	0,13



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on this product

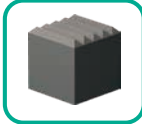
84A2 SERIES (FIXED LOWER JAW)

Sheet Metal Grippers | Ordering Information

Gripper Teeth, Points and Crown Options (Upper and Lower)

Steel Teeth - Hardened

- 00 None
- BA 8JZ-027-1
- BD 8JZ-049-1 (Upper Only)



Steel Teeth - Soft Steel

- BB 8JZ-028-1



Stainless Steel Teeth - High Temp.
(84A2 Only)

- FF 8JZ-085-1



- EE 8JZ-092-1



Plastic Teeth - 90 Shore*

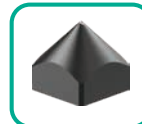
- 00 None
- KF 8JZ-045-2

*Not suitable for High
Temperature applications



Steel Points - Hardened

- 00 None
- PH 8JZ-029-1



Crown Teeth, Concave - Hardened (Lower Only)

- 00 None
- SK 8JZ-036-2



Crown Teeth, Convex - Hardened (Upper Only)

- 00 None
- SM 8JZ-038-1 (for Mat. Thickness 0,9 - 1,2 mm)
- SN 8JZ-039-1 (for Mat. Thickness 1,3 - 1,6 mm)
- SP 8JZ-040-1 (for Mat. Thickness 1,7 - 2,1 mm)



Shims for gripper teeth available
Order Separately - 8SB-039-1
Dimensions: 10 x 10 x 0,1 mm



Sheet Stops/Guards Kit available
(Excluded Jaw Arrangements Options 2, 9, 0)
Order Separately - 84A2-00001

Mounting Options

Description

- 0 None
- I Ø20mm Rear Rod 8MA-165-1
- J Ø25mm Rear Rod 8MA-166-1
- K Ø32mm Ball Adapter* 82ZB-131-1
- L Ø20mm Apple Core* GT-20M-84A2-L-R
- M Ø32mm Side Ball* GT-32B-84A2-L-R
- N Ø32mm Rear Ball GT-32B-84A2-B
- O Ø32mm 90° Ball* GT-BGA-A
- P Ø32mm Ball Paddle GT-BGA-32B
- V Rear Flange 8MA-147-1
- W On-Body Swivel Ball 82ZB-025-2

*Mounted on left as standard.

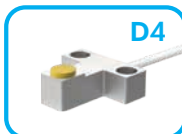


Sensor Options (not suitable for High Temperature applications)

Description

- 00 None
- D4* Part Present Sensor 1,9mm Sensing Distance, 2m Cable - 8EA-164-1
- D5 Double Sheet Control Sensor, M12x1 Plug - 8EA-087-1
- D7* Part Present Sensor, 1,9mm Sensing Distance, M12x1 Plug - 8EA-165-1
- D8 2X Position Sensor for T-Slot - 8EA-109-1 (84AT2 Models Only)
- GP* 1X D4 + 1X D5
- GQ* 1X D5 + 1X D7
- GK 2X D5 (not for 84AT2 Models)

*Not compatible with single jaw options.



Cover for Sensing Systems D5, GP, GQ, GK
Order Separately 82ZB-185-1

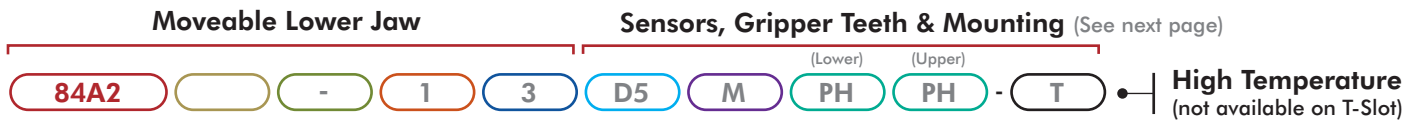
T-Coupler M12x1 for Sensing Systems GP, GQ, GK
Order Separately 7000-41161-0000000

84A2 SERIES (MOVEABLE LOWER JAWS)

Sheet Metal Grippers | Ordering Information

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catalog pages
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Body Style Options

Description
84A2 Standard
84AT2 Sensor T-Slot



Porting Options

Description
1 (2) M5
V (2) G1/8



Jaw Arrangement Options

Description
3 Double - 2 Upper/2 Lower Jaws, Straight Design
5 Single - 1 Upper/1 Lower Jaw, Straight Design
D* Double - 2 Upper/ 1 Lower Jaw, Straight Design
*Excludes 84AT2 with Sensor T-Slot



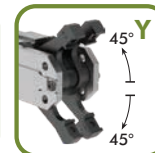
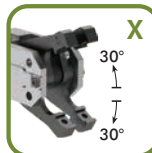
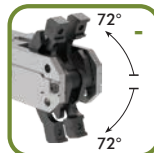
Jaw Orientation Options

Description
"Blank" Double (Jaw Arrangement 3 only)
L Single Left (Jaw Arrangement 5 only)
R Single Right (Jaw Arrangement 5 only)

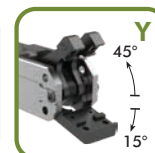
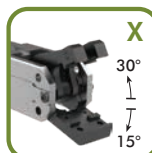
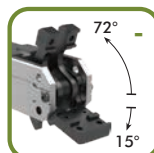


Jaw Opening Options

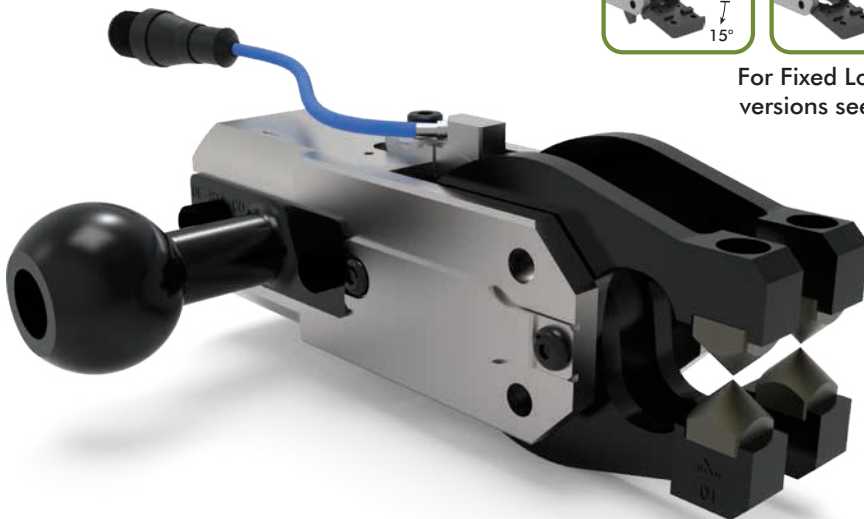
3 and 5 Jaw Arrangement Only
- 72° Jaw Opening (Symmetrical)
X 30° Jaw Opening (Symmetrical)
Y 45° Jaw Opening (Symmetrical)



D Jaw Arrangement Only
- 72° Upper/15° Lower Jaw
X 30° Upper/15° Lower Jaw
Y 45° Upper/15° Lower Jaw



For Fixed Lower Jaw
versions see page 1



Speci cations	Unit	
Piston	mm	25
Actuation Time (open/close)	sec	<0,1
Air Consumption per Double Stroke at 6 bar	L	0,13



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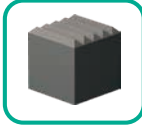
84A2 SERIES (MOVEABLE LOWER JAWS)

Sheet Metal Grippers | Ordering Information

Gripper Teeth, Points and Crown Options (Upper and Lower)

Steel Teeth - Hardened

- 00 None
- BA 8JZ-027-1
- BD 8JZ-049-1 (Upper Only)



Steel Teeth - Soft Steel

- BB 8JZ-028-1



Stainless Steel Teeth - High Temp.
(84A2 Only)

- FF 8JZ-085-1



- EE 8JZ-092-1



Plastic Teeth - 90 Shore*

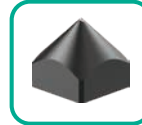
- 00 None
- KF 8JZ-045-2

*Not suitable for High
Temperature applications



Steel Points - Hardened

- 00 None
- PH 8JZ-029-1



Crown Teeth, Concave - Hardened (Lower Only)

- 00 None
- SK 8JZ-036-2



Crown Teeth, Convex - Hardened (Upper Only)

- 00 None
- SM 8JZ-038-1 (for Mat. Thickness 0,9 - 1,2 mm)
- SN 8JZ-039-1 (for Mat. Thickness 1,3 - 1,6 mm)
- SP 8JZ-040-1 (for Mat. Thickness 1,7 - 2,1 mm)



Shims for gripper teeth available
Order Separately - **8SB-039-1**
Dimensions: 10 x 10 x 0,1 mm



Sensor Options (not suitable for High Temperature applications)

Description

- 00 None
- D4* Part Present Sensor 1,9mm Sensing Distance, 2m Cable - 8EA-164-1
- D5 Double Sheet Control Sensor, M12x1 Plug - 8EA-087-1
- D7* Part Present Sensor, 1,9mm Sensing Distance, M12x1 Plug - 8EA-165-1
- D8 2X Position Sensor for T-Slot - 8EA-109-1 (84AT2 Models Only)
- GP* 1X D4 + 1X D5
- GQ* 1X D5 + 1X D7
- GK 2X D5 (not for 84AT2 Models)

*For Jaw Arrangement Option D only



Cover for Sensing Systems D5, GP, GQ, GK
Order Separately **82ZB-185-1**

T-Coupler M12x1 for Sensing Systems GP, GQ, GK
Order Separately **7000-41161-000000**

Mounting Options

Description

- 0 None
- I Ø20mm Rear Rod 8MA-165-1
- J Ø25mm Rear Rod 8MA-166-1
- K Ø32mm Ball Adapter* 82ZB-131-1
- L Ø20mm Apple Core* GT-20M-84A2-L-R
- M Ø32mm Side Ball* GT-32B-84A2-L-R
- N Ø32mm Rear Ball GT-32B-84A2-B
- O Ø32mm 90° Ball* GT-BGA-A
- P Ø32mm Ball Paddle GT-BGA-32B
- V Rear Flange 8MA-147-1
- W On-Body Swivel Ball 82ZB-025-2

*Mounted on left as standard.



Both Included

84AF2 SERIES (FIXED/MOVEABLE LOWER JAW)

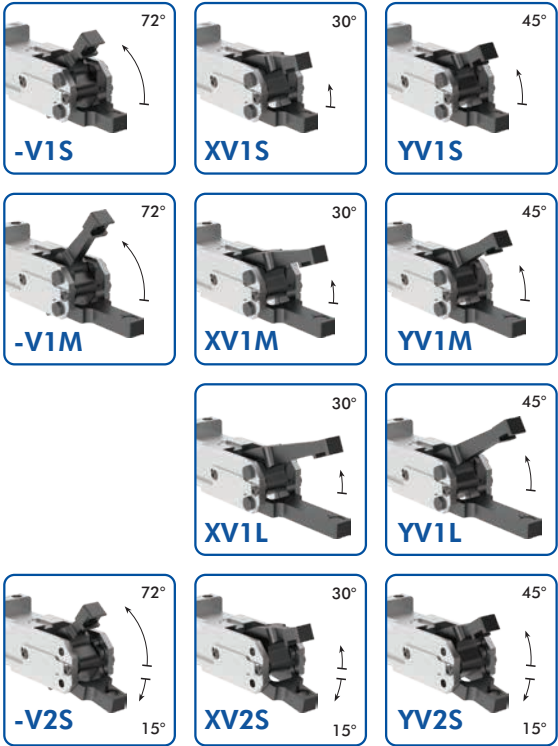
Sheet Metal Grippers | Ordering Information

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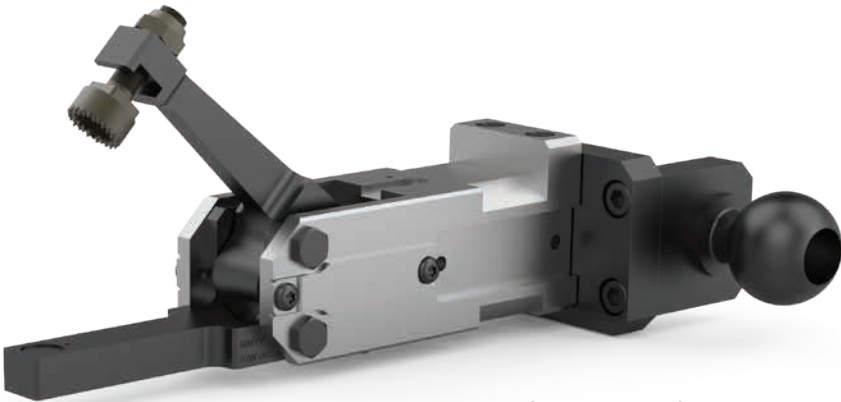


84AF2 -V1S D9 V 00 02

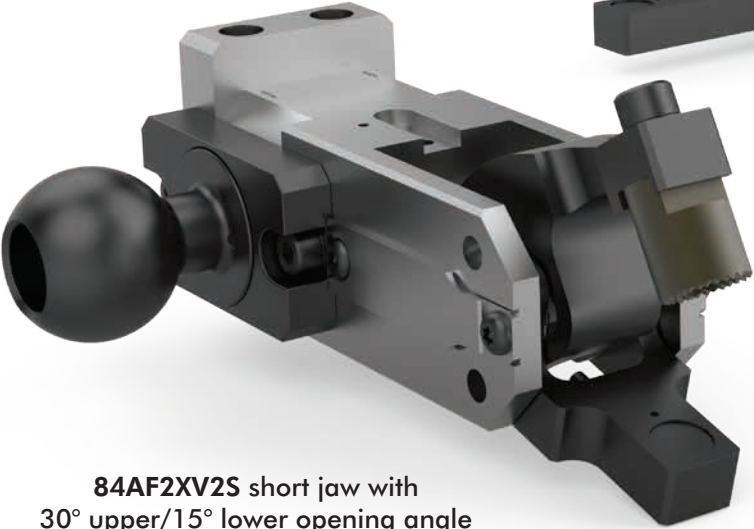
Jaw Type/Opening Angle Options



	Upper Jaw	Lower Jaw	Jaw Type
-V1S	72°		Short
XV1S	30°	0°	
YV1S	45°		
-V1M	72°		Medium
XV1M	30°	0°	
YV1M	45°		
XV1L	30°	0°	Long
YV1L	45°		
-V2S	72°		Short
XV2S	30°	15°	
YV2S	45°		



84AF2YV1L long jaw with 45° opening angle/fixed lower jaw shown with GT-BGA-A mount.



84AF2XV2S short jaw with 30° upper/15° lower opening angle shown with 82ZB-131-1 mount.

Specifications	Unit	
Piston	mm	25
Actuation Time (open/close)	sec	<0,1
Air Consumption per Double Stroke at 6 bar	L	0,13



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84AF2 SERIES (FIXED/MOVEABLE LOWER JAW)

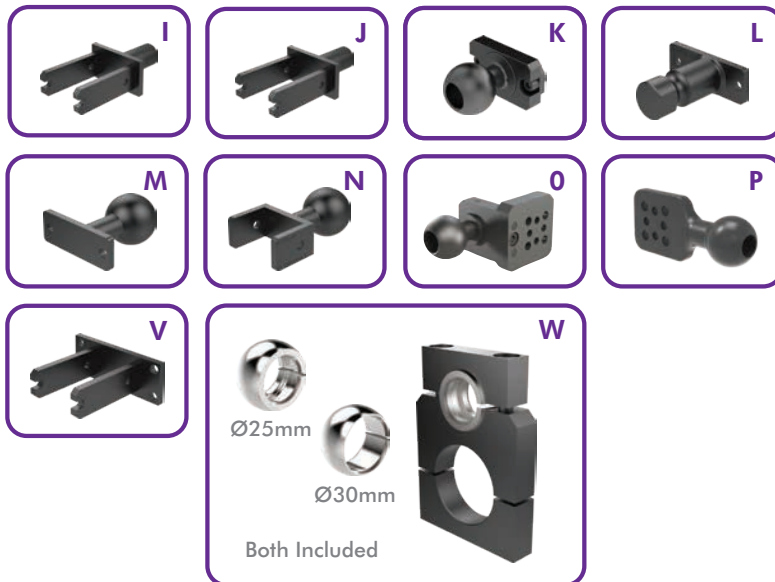
Sheet Metal Grippers | Ordering Information

Mounting Options

Description

- | | |
|---|--|
| O None | N Ø32mm Rear Ball
GT-32B-84A2-B |
| I Ø20mm Rear Rod
8MA-165-1 | O Ø32mm 90° Ball*
GT-BGA-A |
| J Ø25mm Rear Rod
8MA-166-1 | P Ø32mm Ball Paddle
GT-BGA-32B |
| K Ø32mm Ball Adapter*
82ZB-131-1 | V Rear Flange
8MA-147-1 |
| L Ø20mm Apple Core*
GT-20M-84A2-L-R | W On-Body Swivel Ball
82ZB-025-2 |
| M Ø32mm Side Ball*
GT-32B-84A2-L-R | |

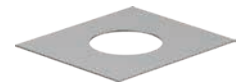
*Mounted on left as standard.



Gripper Tips, Teeth (for Upper Jaw only)

Description

- | |
|--|
| 00 None |
| 02 Gripper Tip 8JD-1004-1 |
| 06 Neoprene Tip 8JD-062-1 |
| 18 18mm Gripper Teeth 8JZ-125-1 |
| 20 20mm Gripper Teeth 8JZ-124-1 |

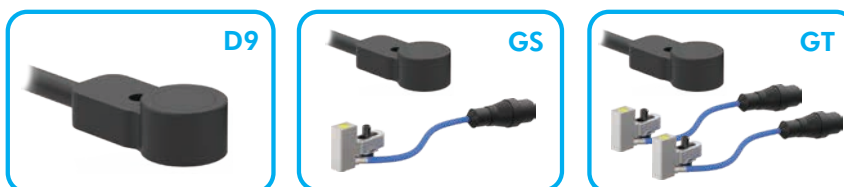


Shims for gripper teeth available
Order Separately **8SB-091-1**
Dimensions: 15 x 10 x 0,1 mm

Sensor Options (not suitable for High Temperature applications)

Description

- | | |
|-----------|--|
| D9 | PNP Part Presence Sensor, M12X1 Plug - 8EA-1024-1 (Standard on all models) |
| GS | 1X D9 Part Presence Sensor, M12X1 Plug - 8EA-1024-1
1X D5 Double Sheet Control Sensor, M12x1 Plug - 8EA-087-1 |
| GT | 1X D9 Part Presence Sensor, M12X1 Plug - 8EA-1024-1
2X D5 Double Sheet Control Sensor, M12x1 Plug - 8EA-087-1 |



Cover for Sensing Systems **GS, GT**
Order Separately **82ZB-185-1**



T-Coupler M12x1 for Sensing System **GS**
Order Separately **7000-41161-0000000**



Sheet Stops/Guards Kit available
(For Jaw Arrangement
Options **V1S, V1M, V1L** only)
Order Separately - **84A2-00001**

84A3-3 SERIES (FIXED LOWER JAW)

Sheet Metal Grippers | Ordering Information

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Fixed Lower & 90° Jaw

Sensors, Gripper Teeth & Mounting (See next page)

84A3

-

31

D5

3

(Lower) SE

(Upper) SB

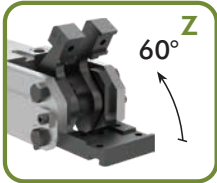
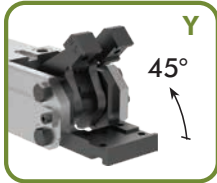
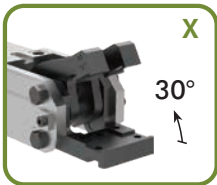
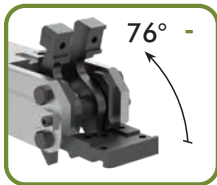
-

T

High Temperature

Jaw Opening Options

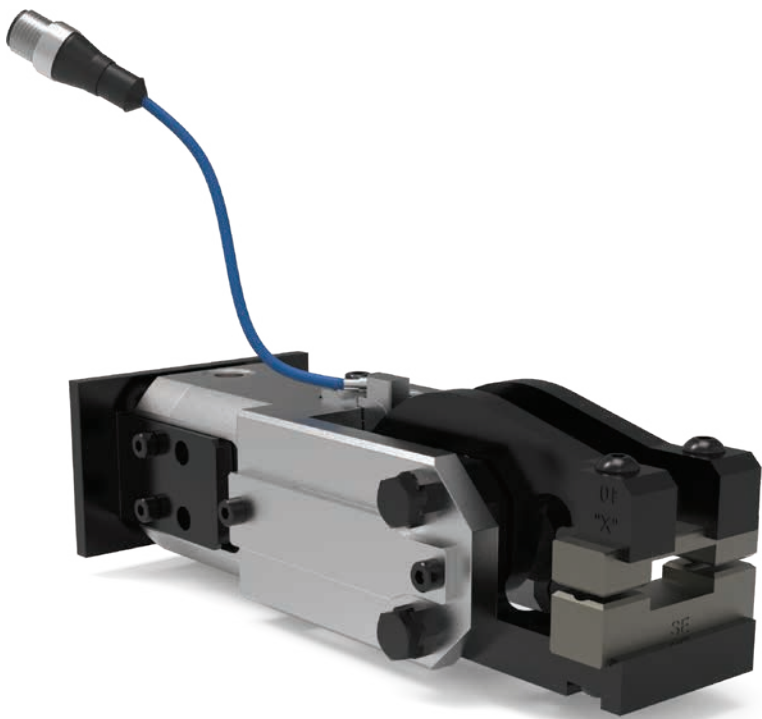
- Description
- 76° Jaw Opening (Standard)
 - X 30° Jaw Opening
 - Y 45° Jaw Opening
 - Z 60° Jaw Opening



For Moveable Lower Jaw
versions see page 41

Jaw Arrangement Options

- Description
- 30 Double Upper, Straight Design, Drop Jaw
 - 31 Double Upper, Straight Design
 - 32 Double Upper, 90° Design
 - 35 Double Upper, Narrow Jaw, Straight Design
 - 36 Double Upper, Extended Jaw, Straight Design
 - 38 Double Upper, Narrow Jaw, 90° Design



Specifications	Unit	
Piston	mm	32
Actuation Time (open/close)	sec	0,2
Air Consumption per Double Stroke at 5 bar	L	0,2



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84A3-3 SERIES (FIXED LOWER JAW)

Sheet Metal Grippers | Ordering Information

Gripper Teeth, Points and Crown Options (Upper and Lower)

Steel Teeth - Hardened

- 00** None
- AA** 14,9x21x12mm - 8JZ-014-3
- AH** 14,9x14x14mm - 8JZ-001-1
- AL** 14,9x14x9,8mm - 8JZ-003-1
- AC** 14,9x14x12mm - 8JZ-043-1
- BK** 14,9x21x11mm - 8JZ-066-1



Steel Teeth - Soft

- AG** 14,9x14x12mm - 8JZ-050-1

Stainless Steel Teeth - High Temp.

- AS** 8JZ-094-1



Shims for gripper teeth available
Order Separately **8SB-003-1**
Dimensions: 14,8 x 13 x 0,15 mm

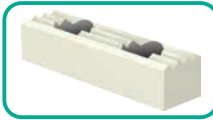
Plastic Teeth - 90 Shore*

- 00** None
- KA** 8JZ-021-1



Plastic Teeth - 90 Shore* (Upper Only)

- 00** None
- KC** 8JZ-023-1



*Not suitable for High
Temperature applications

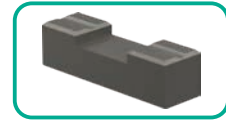
Steel Points - Hardened (Upper Only)

- 00** None
- PA** 8MJ-1001-1
- PC** 8MJ-1003-1



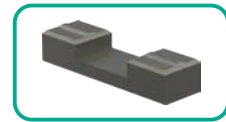
Crown Teeth, Concave - Hardened (Lower Only)

- 00** None
- SE** 8JZ-019-1
(cannot be used in model 84A3-35/-38
and in combination with Sensor A8)



Crown Teeth, Convex - Hardened (Upper Only)

- 00** None
- SB** 8JZ-016-2 (for Mat. Thickness 0,5-1mm)



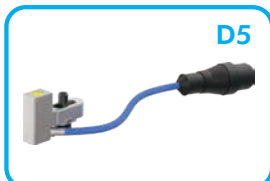
Sheet Stops/Guards Kit available
(Excludes Jaw Arrangement Options **32, 38**)
(Not Available with Sensor Options **KL, KR**)
Order Separately - **8400-00001**

When choosing the teeth pay
attention to the following points:
Teeth height plus thickness must
be the dimension defined on the
data sheet. When using Sensor
Option A8 pay attention to the
sensing distance of 8mm. The
upper teeth will reach into the
detection area of the sensor if lower
teeth are too low. This will lead to
an error signal.

Sensor Options (not suitable for High Temperature applications)

Description

- 00** None
- KL** Position Control Set, Left for 76° Opening Angle - 8EA-022-4
- KR** Position Control Set, Right for 76° Opening Angle - 8EA-022-4
- A8** Part Present Sensor, 8mm Sensing Distance
8EA-092-1 (for 84A3-30/31/32/36)
- D5** Double Sheet Control Sensor, M12x1 Plug - 8EA-087-1



Shims for Sensor A8 available
Order Separately **8MB-003-1**
Dimensions: 32 x 20 x 0,7 mm



Cover for Sensing Systems **D5**
Order Separately **82ZB-185-1**

Mounting Options

Description

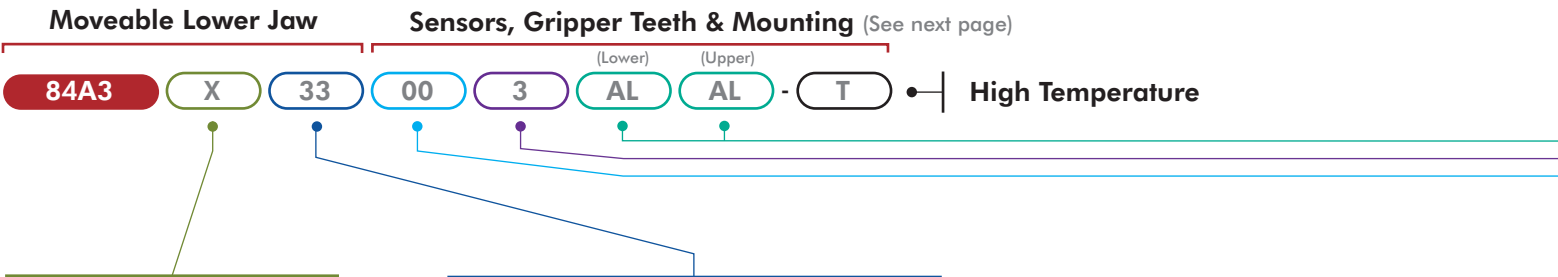
- 0** None
- 3** Rear Flange - 8MA-273-1
- X** On-Body Swivel Ball - 82ZB-033-2



84A3-3 SERIES (MOVEABLE LOWER JAWS)

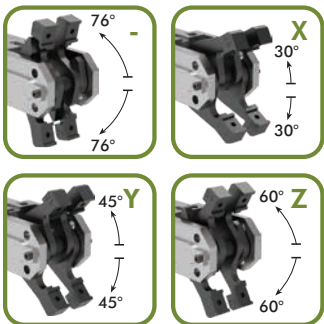
Sheet Metal Grippers | Ordering Information

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Jaw Opening Options

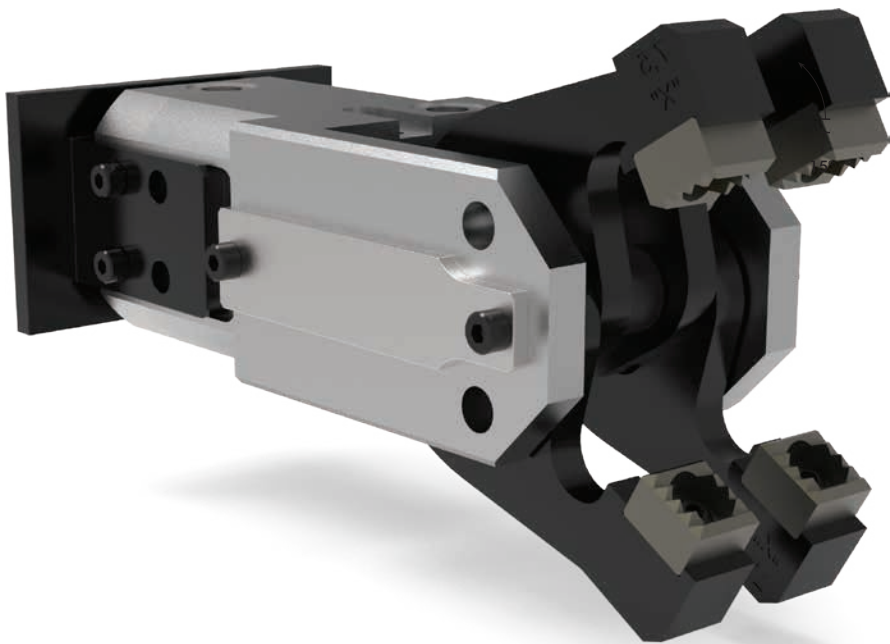
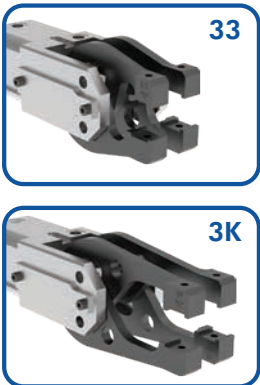
- Description
- 76° Jaw Opening (Symmetrical)
 - X 30° Jaw Opening (Symmetrical)
 - Y 45° Jaw Opening (Symmetrical)
 - Z 60° Jaw Opening (Symmetrical)



For Fixed Lower Jaw
versions see page 33

Jaw Arrangement Options

- Description
- 33 Double - 2 Upper/2 Lower Jaws, Straight Design
 - 3K Double - 2 Upper/2 Lower Jaws, Straight Extended Design



Specifications	Unit	
Piston	mm	32
Actuation Time (open/close)	sec	0,2
Air Consumption per Double Stroke at 5 bar	L	0,2



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84A3-3 SERIES (MOVEABLE LOWER JAWS)

Sheet Metal Grippers | Ordering Information

Gripper Teeth, Points and Crown Options (Upper and Lower)

Steel Teeth - Hardened

- 00** None
- AA** 14,9x21x12mm - 8JZ-014-3
- AH** 14,9x14x14mm - 8JZ-001-1
- AL** 14,9x14x9,8mm - 8JZ-003-1
- AC** 14,9x14x12mm - 8JZ-043-1
- BK** 14,9x21x11mm - 8JZ-066-1



Steel Teeth - Soft

- AG** 14,9x14x12mm - 8JZ-050-1

Stainless Steel Teeth - High Temp.

- AS** 8JZ-094-1



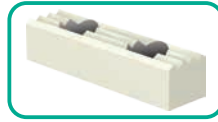
Plastic Teeth - 90 Shore*

- 00** None
- KA** 8JZ-021-1



Plastic Teeth - 90 Shore* (Upper Only)

- 00** None
- KC** 8JZ-023-1



*Not suitable for High Temperature applications

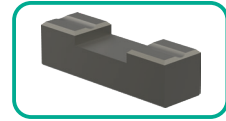
Steel Points - Hardened (Upper Only)

- 00** None
- PA** 8MJ-1001-1
- PC** 8MJ-1003-1



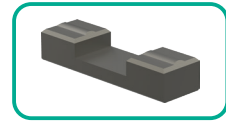
Crown Teeth, Concave - Hardened (Lower Only)

- 00** None
- SE** 8JZ-019-1



Crown Teeth, Convex - Hardened (Upper Only)

- 00** None
- SB** 8JZ-016-2 (for Mat. Thickness 0,5-1mm)



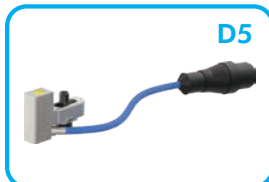
Shims for gripper teeth available
Order Separately **8SB-003-1**
Dimensions: 14,8 x 13 x 0,15 mm



Sensor Options (not suitable for High Temperature applications)

Description

- 00** None
- KL** Position Control Set, Left for 76° Opening Angle - 8EA-022-4
- KR** Position Control Set, Right for 76° Opening Angle - 8EA-022-4
- D5** Double Sheet Control Sensor, M12x1 Plug - 8EA-087-1



Cover for Sensing Systems **D5**
Order Separately **82ZB-185-1**

Mounting Options

Description

- 0** None
- 3** Rear Flange - 8MA-273-1
- X** On-Body Swivel Ball - 82ZB-033-2



84L2-1 SERIES

Sheet Metal Grippers | Ordering Information

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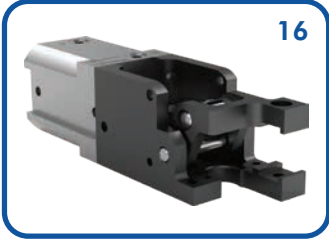
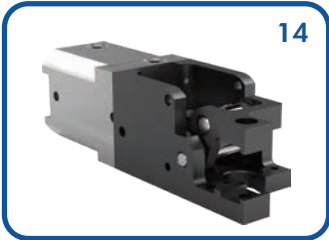
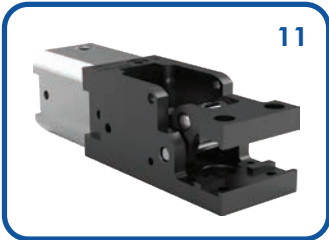


84L2 - 11 D4 W (Lower) (Upper)
BA BA

Jaw Arrangement Options

Description

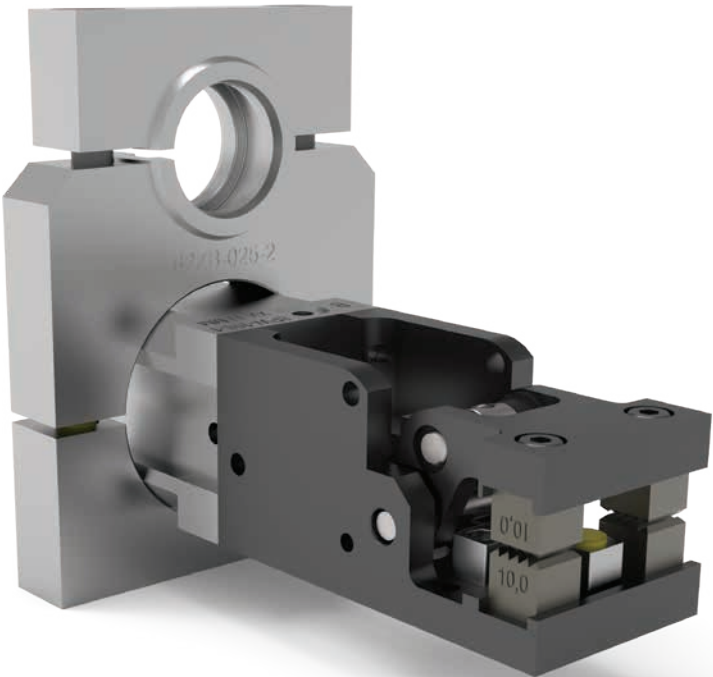
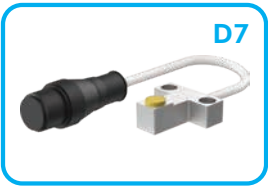
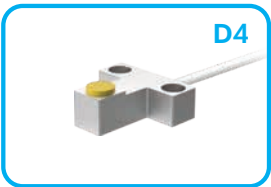
- 11 Double
- 14 Single, Right
- 16 Single, Left



Sensor Options

Description

- 00 None
- D4 Part Present Sensor, 3mm Sensing Distance, 2m Cable
8EA-164-1
- D7 Part Present Sensor, 3mm Sensing Distance, M12x1 Plug
8EA-165-1





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catalog pages
on this product

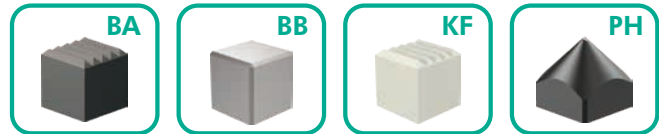
84L2-1 SERIES

Sheet Metal Grippers | Ordering Information

Gripper Teeth Options

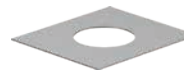
Upper Teeth Options

- 00** None
- BA** Hardened - 8JZ-027-1
- BB** Stainless Steel - 8JZ-028-1
- KF** 90 Shore - 8JZ-045-2
- PH** Hardened - 8JZ-029-1



Lower Teeth Options

- 00** None
- BA** Hardened - 8JZ-027-1
- BB** Stainless Steel - 8JZ-028-1
- KF** 90 Shore - 8JZ-045-2



Shims for gripper teeth available
Order Separately **8SB-039-1**
Dimensions: 10 x 10 x 0,1 mm

Mounting Options

Description

- 0** None
- I** Ø20mm Rear Rod - 8MA-165-1
- J** Ø25mm Rear Rod - 8MA-166-1
- Z** Ø1.00" Rear Rod - 8MA-168-1
- V** Rear Flange - 8MA-147-1
- W** On-Body Swivel Ball - 82ZB-025-2



84L3-2 SERIES

Sheet Metal Grippers | Ordering Information

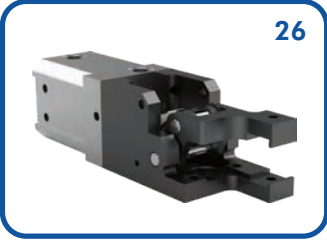
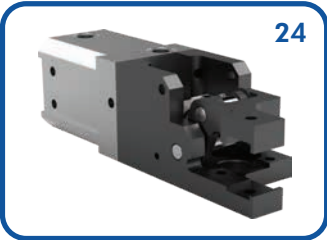
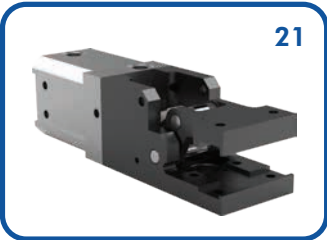
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catalog pages
on this product



Jaw Arrangement Options

Description

- 21 Double
- 24 Single, Right
- 26 Single, Left



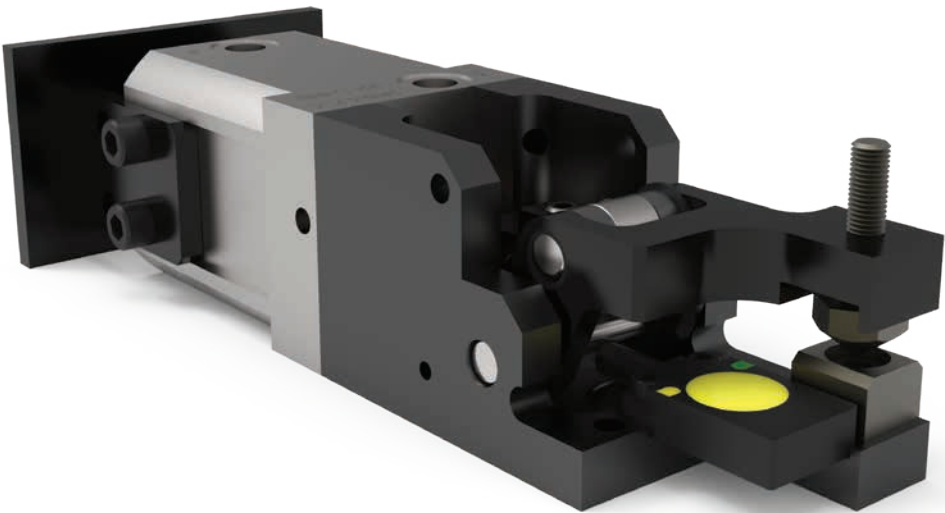
Sensor Options

Description

- 00 None
- A8 Part Present Sensor, Switching Distance 7mm
8EA-092-1
- A9 Part Present Sensor, Switching Distance 7mm,
M12x1 Plug, 3 Pin - 8EA-092-2



Shims for Sensor A8 available
Order Separately **8MB-003-1**
Dimensions: 32 x 20 x 0,7 mm





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on this product

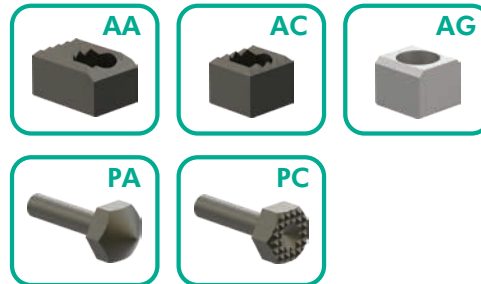
84L3-2 SERIES

Sheet Metal Grippers | Ordering Information

Gripper Teeth and Points Options

Upper Teeth Options

- 00** None
- AA** Hardened Steel - 14,9x21x12mm - 8JZ-014-3
- AC** Hardened Steel - 14,9x14x12mm - 8JZ-043-1
- AG** Soft Steel - 14,9x14x12mm - 8JZ-050-1
- PA** Hardened Steel - 8MJ-1001-1
- PC** Hardened Steel - 8MJ-1003-1



Lower Teeth Options

- 00** None
- AA** Hardened Steel - 14,9x21x12mm - 8JZ-014-3
- AC** Hardened Steel - 14,9x14x12mm - 8JZ-043-1
- AG** Soft Steel - 14,9x14x12mm - 8JZ-050-1



Shims for gripper teeth available
Order Separately **8SB-003-1**
Dimensions: 14,8 x 13 x 0,15 mm

Mounting Options

Description

- 0** None
- 3** Rear Flange - 8MA-273-1
- X** On-Body Swivel Ball - 82ZB-033-2



GR84-15 SERIES

Sheet Metal Grippers | Ordering Information

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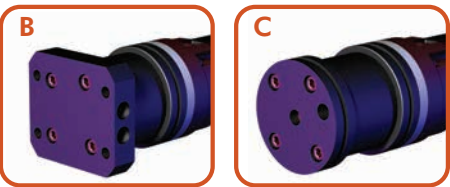
GR84-15 - BE - DD - 9S9 - RRSS - A1 - XX - 01

Cylinder Type & Porting

Step 1 - Cylinder Type Choose One

B E

- B Flange Base
- C Round Cylinder



Step 2 - Cylinder Ports Choose One

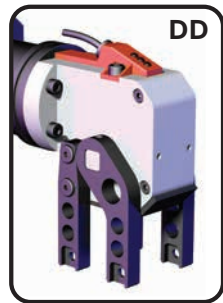
B E

- E English (1/8 NPT)
- M Metric (1/8 G)

Jaw Arm Option

Description

DD Double Arm

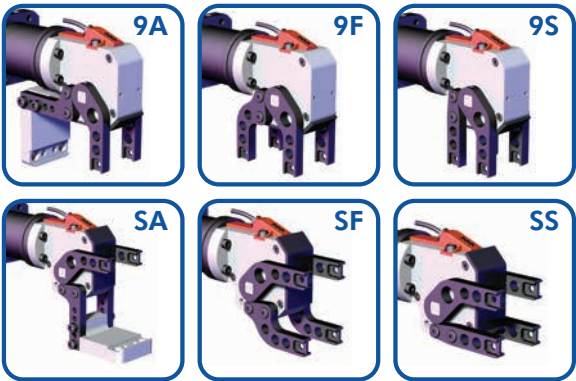


Jaw Arrangement & Opening

Step 1 - Jaw Arrangement Choose One

9S 9

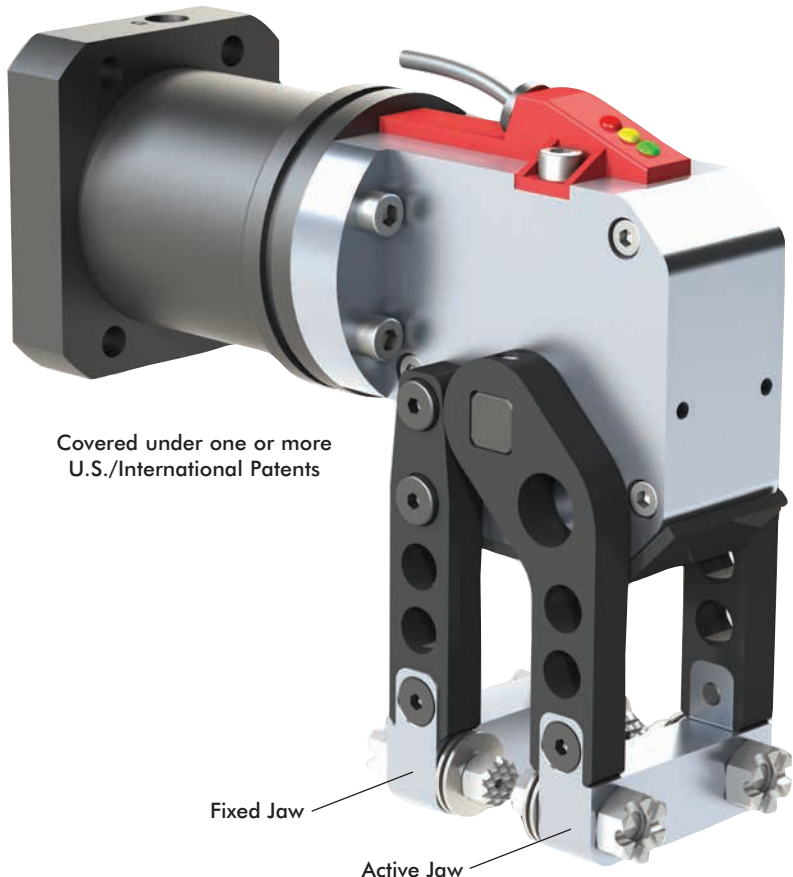
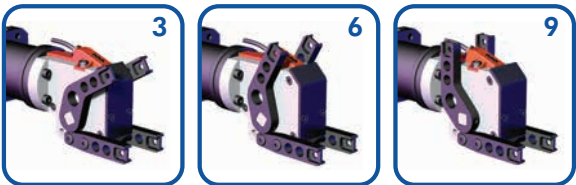
- 9A 90° Grip Adj. Flange
- 9F 90° Grip Flange
- 9S 90° Grip Standard
- SA Straight Adj. Flange
- SF Straight Flange
- SS Straight Standard



Step 2 - Active Jaw Opening Choose One

9S 9

- 3 30° Preset
- 6 60° Preset
- 9 90° Preset



Covered under one or more
U.S./International Patents

Fixed Jaw

Active Jaw

Sensor and Mount Accessories: 39

Replacement Parts: 40-41



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GR84-15 SERIES

Sheet Metal Grippers | Ordering Information

Jaw Block & Insert Options

Step 1 - Active Jaw Block Option Choose One

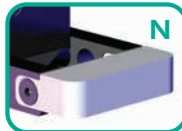
R R S S

X No Block

R Regular Block

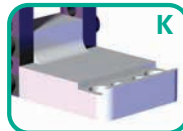
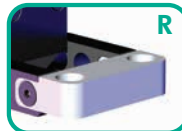
N Blank Block (No Tips)

M Jaw Block for Block Inserts "B" Only



For 9F 9S SF SS:
When choosing Active
Jaw Block "M" Fixed
Jaw Block must be "M"

M M B S



For 9A SA:
When choosing Active
Jaw Block "M" Fixed
Jaw Block must be "K"

M K B S

Step 2 - Fixed Jaw Block Options Choose One Above -or-

R R S S

L Flange Block (for 9F & SF Fixed Jaw Only)

K Adjustable Jaw Block (for 9A & SA Fixed Jaw Only)

Step 3 - Active Jaw Insert Options Choose One

R R S S

P Point

T Self-Adjusting Serrated

N Non-Standard

C Cup

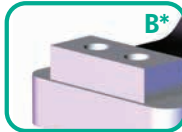
X None

U Urethane

Z Blank

S Serrated

B Block (*See STEP 4 below for Block Insert Options)



Step 4 - Fixed Jaw Insert Options Choose One Above

R R S S

-or-

Step 4 - "B" Block Insert Options Choose One
*(Active and Fixed Jaws Use Common Inserts)

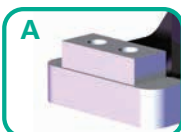
M M B S

S Serrated

U Urethane

A Aluminum

N Non-Standard



(Sensing mounts can not be used with (B) Block Option inserts)

Guard Options

Description

XX No Face Guard

01 Face Guard

02 Face + Skid Guard



Sensor Mounts

Description

XX No Sensor Mounts

F1 Ø18mm Sensor

F2 Ø12mm Sensor



Sensor Options

Description

A1 (Turck) VDC

B8 (Pepperl Fuchs) VDC

C8 (DE-STA-CO) VDC

C9 (Allen-Bradley) VDC

D1 (Turck) AC/DC

E3 (Namco) VDC

E4 (Pepperl Fuchs) VDC

E5 (Efector) VDC

E6 (Balu) VDC

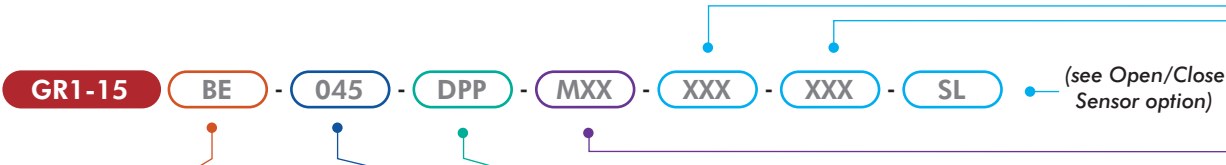
XC Cover Only

(See page SG-TGL-13
for sensor specifications)

GR1-15 SERIES

Sheet Metal Grippers | Ordering Information

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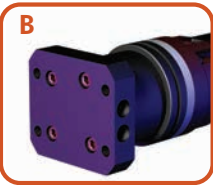


Cylinder Type & Porting

Step 1 - Cylinder Type Choose One

B **E**

- B** Flange Base
- C** Round Cylinder



Step 2 - Cylinder Ports Choose One

B **E**

- E** English (1/8 NPT)
- M** Metric (1/8 G)



Sensor and Mount Accessories: 39
Replacement Parts: 40-41



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catalog pages
on this product

GR1-15 SERIES

Sheet Metal Grippers | Ordering Information

Open/Closed Sensor

Sensor Type	Description	Mounting	Description
T04	Internal Sensor	-	Right-Side
XXX	No Sensor	SL	Left-Side



Part Present Sensor*

Sensor Type	Description
A04	Turck (4-PIN)
P03	P & F (4-PIN)
XXX	No Sensor



*Part Present Sensor Option is only available on the Double Point Insert Option and not available for the 9DJ, 45C and FCH Jaw Arrangement Options or any of the Block Insert Options. With 90F and 9FS, GR0326 is not necessary for the Part Present Sensor as the sensor is mounted in the lower jaw. See pages SG-TGL-34 to 37 for specifications.

Mount Options

Step 1 - Mount Type Choose One

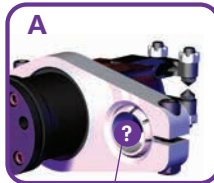
M **X** **X**

- A** Parallel Swivel Mount
- B** Rear Swivel Clamp Mount
- C** Rear Fixed Welded Style
- D** Rear Fixed Clamp Mount
- X** No Mount

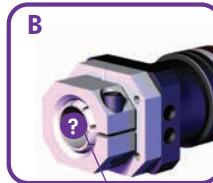
Step 2 - Mount Ball/Rod Size Choose One

M **X** **X**

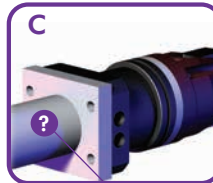
- 1** 1.00" w/Metric Fasteners
- 2** 1.25" w/Metric Fasteners
- 3** 25mm Metric Fasteners
- 4** 30mm Bodybuilder/Metric
- 5** 1.50" (Type C Only)
- 6** 40mm (Type C Only)
- 7** M1514 (Type D Only)
- X** No Mount



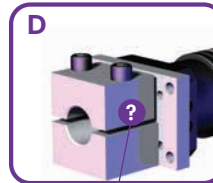
1 2 3 4
Mount Ball Sizes
Available



1 2 3 4
Mount Ball Sizes
Available



1 3 5 6
Mount Rod Sizes
Available



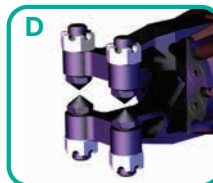
7
Mount Size
Available

Points & Tip Insert Options

Step 1 - Point Tip Options Choose One

D **P** **P**

- S** Single Point
- D** Double Point



Step 2 - Upper Tip Insert Options Choose One

D **P** **P**

- P** Point
- C** Cup
- U** Urethane
- S** Serrated
- X** No Tips



Step 3 - Lower Tip Insert Options Choose One Above

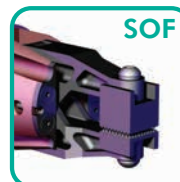
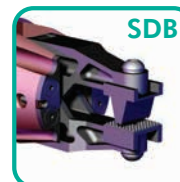
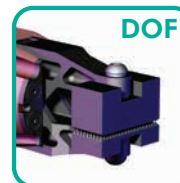
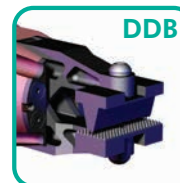
D **P** **P**

- or -

Block Insert Options†

Block Insert	Choose One
DDB	Double Draw Bead
DOF	Double O set
D30	Double 30° Angle
SDB	Single Draw Bead
SOF	Single O set
S30	Single 30° Angle
SED	Single Extended Draw Bead

† Only available on
the 180 Angular
Jaw Arrangement.



GR1-20 SERIES

Sheet Metal Grippers | Ordering Information

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catalog pages
on this product



GR1-20 BE - 180 - DXX - MXX -

Cylinder Type & Porting

Step 1 - Cylinder Ports Choose One

B E

- E English (1/8 NPT)
- M Metric (1/8 G)

Open/Closed Sensor

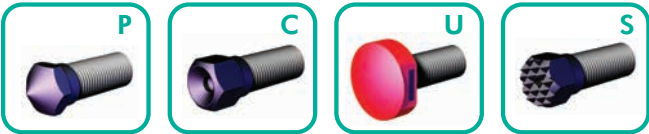
Sensors Type	Description
T04	Internal Sensor
(Leave Blank)	No Sensor

Tip Insert Options

Step 2 - Upper Tip Insert Options Choose One

D P P

- P Point
- C Cup
- U Urethane
- S Serrated
- X No Tips



Step 3 - Lower Tip Insert Options Choose One Above

D P P

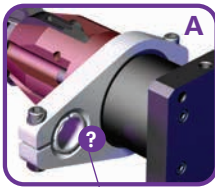
For tip insert dimensions and replacement part #'s, please refer to GR84 Mini Clamp Tip Insert options.

Mount Options

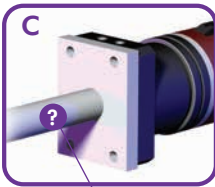
Step 1 - Mount Type Choose One

M X X

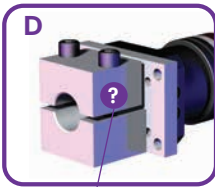
- A Parallel Swivel Mount
- C Rear Fixed Welded Style
- D Rear Fixed Clamp Mount
- X No Mount



1 3
Mount Ball Sizes
Available



1 3
Mount Rod Sizes
Available



7
Mount Size
Available

Step 2 - Mount Ball/Rod Type Choose One

M X X

- 1 1.00" w/Metric Fasteners (A & C Only)
- 3 25mm Metric Fasteners (A & C Only)
- 7 M1514 (Type D Only)
- X No Mount



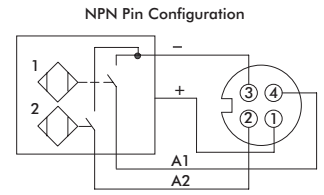
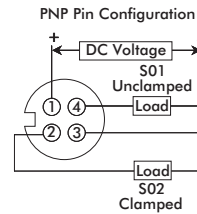
Sensor and Mount Accessories: 39

Replacement Parts: 40-41

GR-84 Replacement Sensors and Mounts



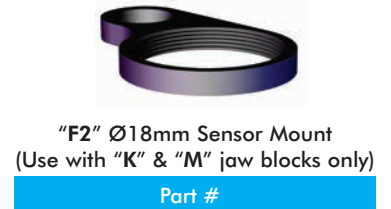
Wiring Diagram of Electrical Sensing System



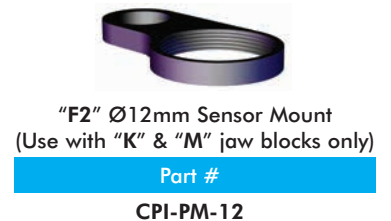
GR-84 Open/Close Sensors

Option	Brand	Specification	Part #
A1*	Turck	10...30 VDC 150mA, PNP, 4-Pin, M12, Eurofast	8EA-054-1 + GR84-SB
B8	Pepperl Fuchs	10...30 VDC 150mA, PNP, 4-Pin, M12, Eurofast	8EA-031-1
C8	Destaco	10...30 VDC 150mA, PNP, 4-Pin, M8, Pico	
C9	Allen-Bradley	10...30 VDC 150mA, PNP, 4-Pin, M12, Eurofast	8EA-1006-1
D1	Turck	20...250 AC/DC 150mA, 5-Pin, 1/2-20, Mini	8EA-1002-1
E3	Namco	10...30 VDC 150mA, NPN, 4-Pin, M12	8EA-1007-1
E4	Pepperl Fuchs	10...30 VDC 150mA, PNP, 4-Pin, M12, Eurofast	8EA-1010-1
E5	Efector	10...30 VDC 150mA, PNP, 4-Pin, M12, Eurofast	8EA-1012-1
E6	Balu	10...30 VDC 150mA, PNP, 4-Pin, M12, Eurofast	8EA-1019-1
XC		Cover Only	GR84-SC

*Fasteners required for "A1" replacement: (2) M5x0.5 10mm FHCS, (1) M4 x 0.7 20mm SHCS



Part #
CPI-PM-18



Part #
CPI-PM-12

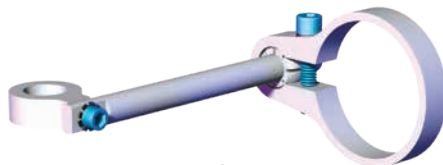
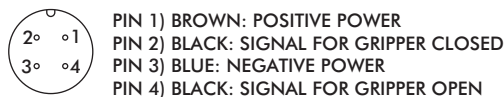
GR-15, GR-20 Replacement Sensors and Mounts

GR1-15 Part Present Sensors

Option	Brand	Specification	Part #
A04	Turck	10...30 VDC 150mA, PNP, 4-Pin, M12, Eurofast	Bi 5-Q08-VP6X2-0.2M-RS4.4T
P03	Pepperl Fuchs	10...30 VDC 150mA, PNP, 4-Pin, M12, Eurofast	NBB5-F104M-E2-C-200MM-V1

(Sensors include "GR0326" Proximity Switch Mount when ordered with GR1-15 Series)

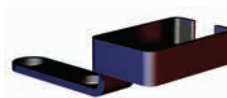
Wiring Diagram of Electrical Sensing System



18mm Swivel Proximity
Sensor Mount

Part #

CPI-GPM-15-18



Proximity Switch Mount

Part #

GR0326



Ø18mm Inline
Proximity Switch Mount

Part #

CPI-PM-15D-18



Ø12mm Inline
Proximity Switch Mount

Part #

CPI-PM-15D-12



Barrel Style Proximity
Switch Mount

Part #

GR1-15-PM-31



Ø18mm Offset
Proximity Switch Mount

Part #

CPI-PM-15S-12



Ø12mm Offset
Proximity Switch Mount

Part #

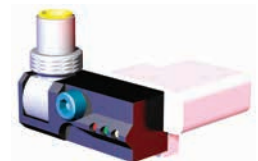
CPI-PM-15S-12

GR1-15, GR1-20 Open/Close Sensors

Option	Specification	Part #
--------	---------------	--------

T04 3 amps, 250 volts, VDC 4-Pin Euro Micro Connector CPI-GR1-15-TK-DC-T04

(This sensor option is used in conjunction with a special gripper body used in place of the standard gripper body in order for the sensor to function properly)



GR SERIES REPLACEMENT PARTS

Sheet Metal Grippers | Ordering Information

Catalog Pages For
Accessories Are
Included Within The
Product Series Link.

GR Series Replacement Cylinders



GR-84 Series
"Bx" Flange Base Cylinder

Part #

GR84-CYL-B



GR-84 Series
"Cx" Flange Base Cylinder

Part #

GR84-CYL-C



GR1-15 Series
"Bx" Flange Base Cylinder

Part #

GR1-CYL-B



GR1-15 Series
"Cx" Flange Base Cylinder

Part #

GR1-CYL-C

GR Series Replacement Jaw Inserts



Point Jaw Insert

Fits

Part #

GR-84/GR-20 GR0107

GR-15 GR0304



Cup Jaw Insert

Fits

Part #

GR-84/GR-20 GR0108

GR-15 GR0305



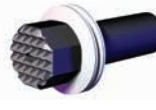
Serrated Jaw Insert

Fits

Part #

GR-84/GR-20 GR0342

GR-15 GR0341



Self-Adjusting
Serrated Jaw Insert

Fits

Part #

GR-84 329-TPR-BDA-047



Urethane Jaw Insert

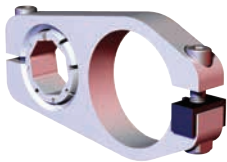
Fits

Part #

GR-84/GR-20 GR0353

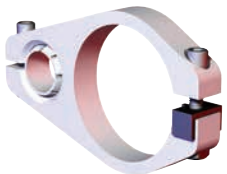
GR-15 GR0338

GR Series Replacement Mounts



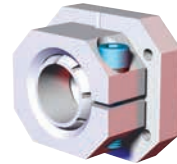
GR-84/GR1-15 Swivel Parallel Gripper Mounts

Option	Size	Part #
MA1	Ø1.00"	CPI-GPC-150-100S-DC
MA2	Ø1.25"	CPI-GPC-150-125S-DC
MA3	Ø25mm	CPI-GPC-150-25MS-DC
MA4	30mm BB*	CPI-GPC-150-30BBS-DC



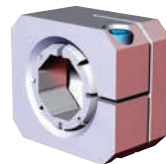
GR1-20 Swivel Parallel Gripper Mounts

Option	Size	Part #
MA1	Ø1.00"	CPI-GPC-200-100S-DC
MA3	Ø25mm	CPI-GPC-200-25MS-DC



GR-84/GR-20 Rear Swivel Gripper Mount

Option	Size	Part #
MB1	Ø1.00"	CPI-RJM-150-100S
MB3	Ø25mm	CPI-RJM-150-25S



GR-84/GR-20 Rear Swivel Gripper Mount

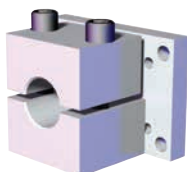
Option	Size	Part #
MB2	Ø1.25"	CPI-RJM-150-125S
MB4	30mm BB*	CPI-RJM-150-30BBS

BB=BodyBuilder™ octagonal booms



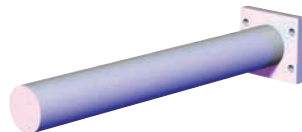
Snap-In Ball

Special patented design
allows user to replace ball
without disassembly



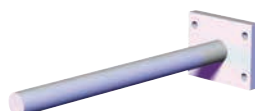
GR Series Rear Fixed Clamp Mount

Option	Size	Part #
MB7	Ø1.00"	M1514



GR-84/GR1-15 Rear Fixed Welded Mount

Option	Size	Part #
MC1	Ø1.00"	CPI-RJM-150-100
MC3	Ø25mm	CPI-RJM-150-25
MC5	Ø1.50"	CPI-RJM-150-150
MC6	40mm	CPI-RJM-150-40



GR1-20 Rear Fixed Welded Mount

Option	Size	Part #
MC1	Ø1.00"	CPI-RJM-200-100
MC3	Ø25mm	CPI-RJM-200-25

GR SERIES REPLACEMENT PARTS

Sheet Metal Grippers | Ordering Information

GR-84 Replacement Jaws



Preset Active Jaw

Part #

GR84-JRA



Standard Fixed Jaw

Part #

GR84-JFA



Flanged Fixed Jaw

Part #

GR84-JA-F-L (LEFT HAND)
GR84-JA-F-R (RIGHT HAND)

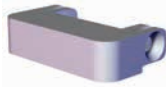


Adjustable Fixed Jaw

Part #

GR84-JA-EX-R (RIGHT HAND)
GR84-JA-EX-L (LEFT HAND)

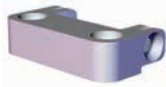
GR-84 Replacement Jaws Blocks



Blank Jaw Block

Part #

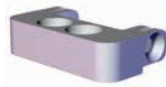
GR84-JB



Point Inset Jaw Block

Part #

GR84-JB-3824



Block Inset Jaw Block

Part #

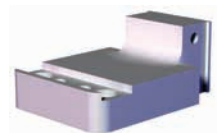
GR84-JB-BM6



Flange Point Inset
Jaw Block

Part #

GR84-JB-F-3824

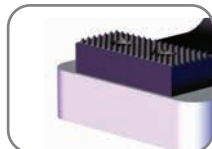


Adjustable Jaw Block

Part #

GR84-JB-ADJ

GR-84 Replacement Blocks Inserts



Serrated Block Inserts

Part #

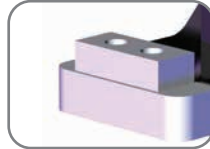
GR84-JB-SS



Urethane Block Inserts

Part #

GR84-JB-UP



Aluminum Block Inserts

Part #

GR84-JB-PA

GR-84 Replacement Face and Skid Guard

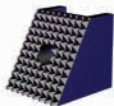


Part #

GR84-JFG

GR-15 Series Replacement Block Inserts

Tip Risers for Block Inserts GR0314-TR



Single Upper/Lower
30° Angle Insert Block

Part #

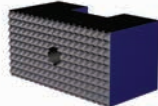
GR1-INS-SD30S



Single Upper
Offset Insert Block

Part #

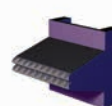
GR1-INS-SDUOS



Double Upper
Offset Insert Block

Part #

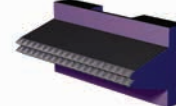
GR1-INS-DUOS



Single Upper
Draw Bead Insert Block

Part #

GR1-INS-SDDB



Double Upper
Draw Bead Insert Block

Part #

GR1-INS-DOB



Upper Extended
Draw Bead Insert Block

Part #

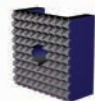
GR1-INS-SDOB-3



Double Upper/Lower
30° Angle Insert Block

Part #

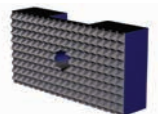
GR1-INS-D30S



Single Lower
Offset Insert Block

Part #

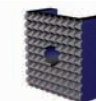
GR1-INS-SDLOS



Double Lower
Offset Insert Block

Part #

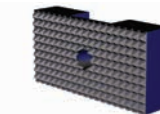
GR1-INS-DLOS



Single Lower
Draw Bead Insert Block

Part #

GR1-INS-SDLOS



Double Lower
Draw Bead Insert Block

Part #

GR1-INS-DLOS



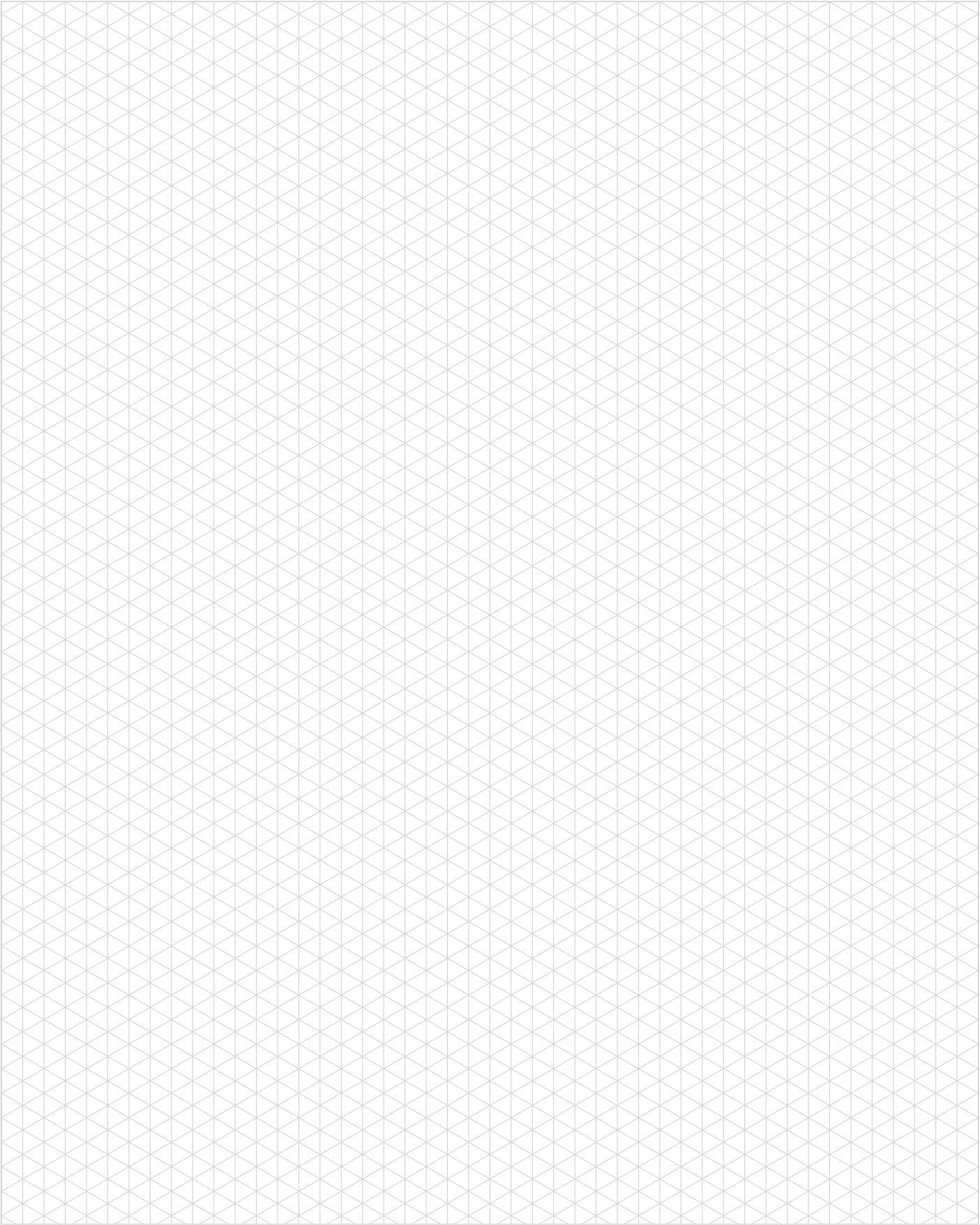
Lower Extended
Draw Bead Insert Block

Part #

GR1-INS-SDOB-3

SHEET METAL GRIPPERS

Notes



OUR PORTFOLIO OF PRODUCTS



End Effectors (EE)

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



Indexers (IN)

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



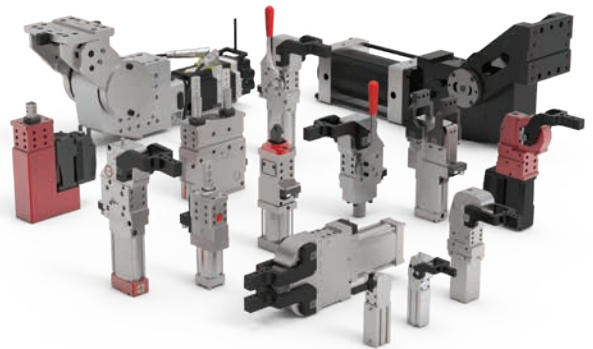
Manual Clamps (MC)

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



Grippers (GR)

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



Power Clamps (PC)

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



Sheet Metal Grippers (SM)

- Accelerate® Press Room
- Cam Type
- Toggle Lock

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Industries



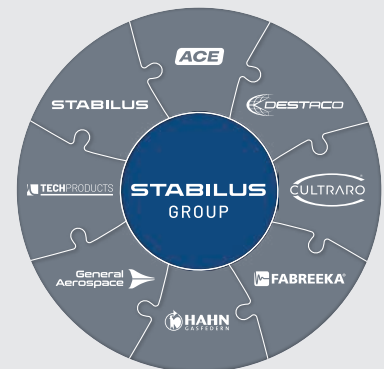
45 Locations in 19 Countries



8K Employees



2024 Revenues



Expert Brands