

84N5 SERIES (FIXED LOWER JAW)

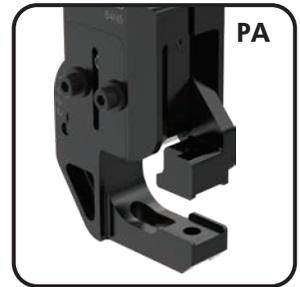
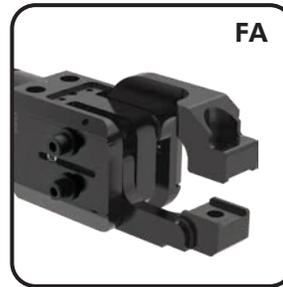
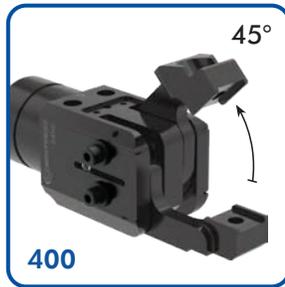
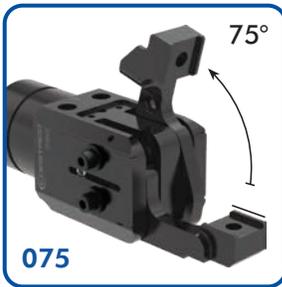
Accelerate® Press Shop Sheet Metal Grippers | Ordering Information



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

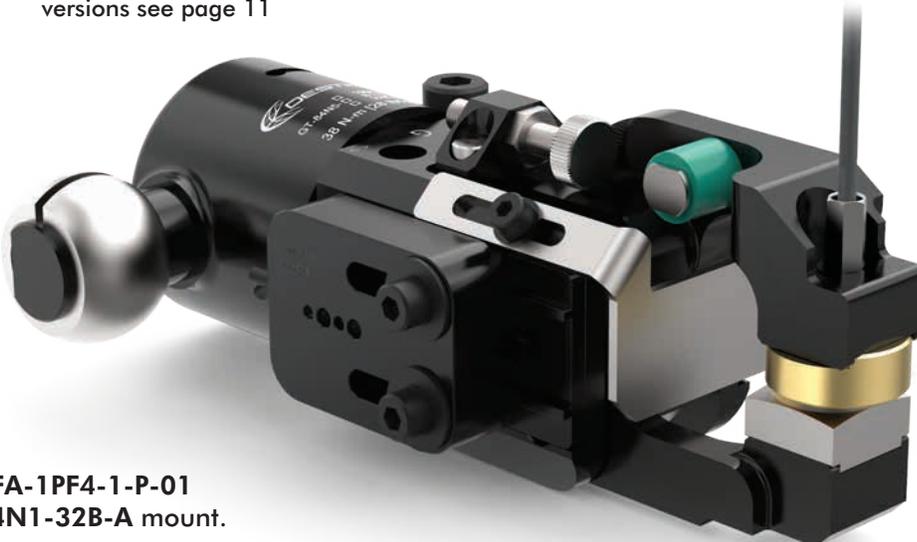


Specifications: SG-PRG-16

Mounts (sold separately): SG-PRG-21 thru 22

Accessories: SG-PRG-24 thru 28.

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

84N5 SERIES (FIXED LOWER JAW)

Accelerate® Press Shop Sheet Metal Grippers | Ordering Information

In-Jaw Blank Sensing*

Code	Description
0	None
P	PNP
N	NPN

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



Sheet Stop

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



Non-Adjustable Jaw Tip Insert Options

0000 None

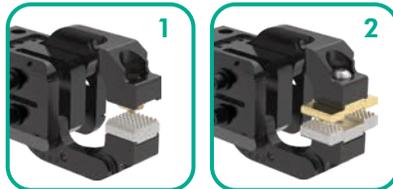
- or -

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



Single or Double Flat Tips



Single Polyurethane Tip

Step 3 - Lower Jaw Tip Insert†

Choose One (see images below)

2 C S 3

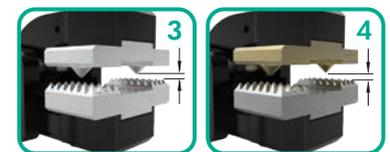
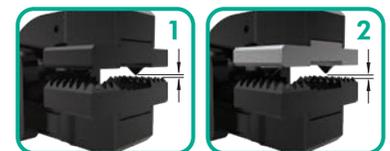
- S Serrated Style Tip
- F Flat Style Tip
- S Serrated Style Tip
- F Flat Style Tip
- S Serrated Style Tip
- F Flat Style Tip
- P Polyurethane Style Tip (Single Only)
- F Flat Style Tip
- P Polyurethane Style Tip (Single Only)

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

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



Adjustable Left Sensor Side Mount

Description

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

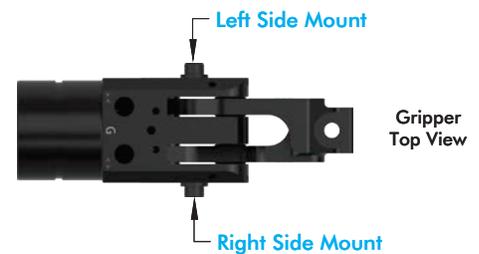
Adjustable Right Sensor Side Mount

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.



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

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

Specifications: SG-PRG-16

Mounts (sold separately):
SG-PRG-21 thru 22

Accessories: SG-PRG-24 thru 28.

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



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

For Fixed Lower Jaw
versions see page 1

84N5 SERIES (MOVEABLE LOWER JAWS)

Accelerate® Press Shop Sheet Metal Grippers | Ordering Information

In-Jaw Blank Sensing*

Option	Description
0	None
P	PNP
N	NPN

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



Sheet Stop

Option	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

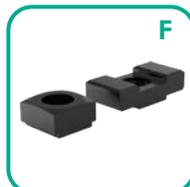
*Single Cone [1Cxx] not compatible with In-Jaw Sensor.



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

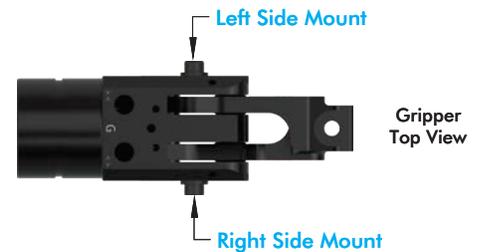
Option	Description
0	None
1	PNP Sensor Kit Left Side
2	NPN Sensor Kit Left Side

Adjustable Right Sensor Side Mount

Option	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.

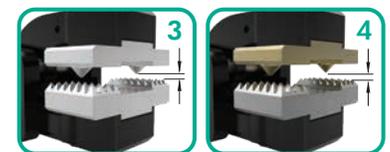


Step 4 - Part Thickness Range** Choose One

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.

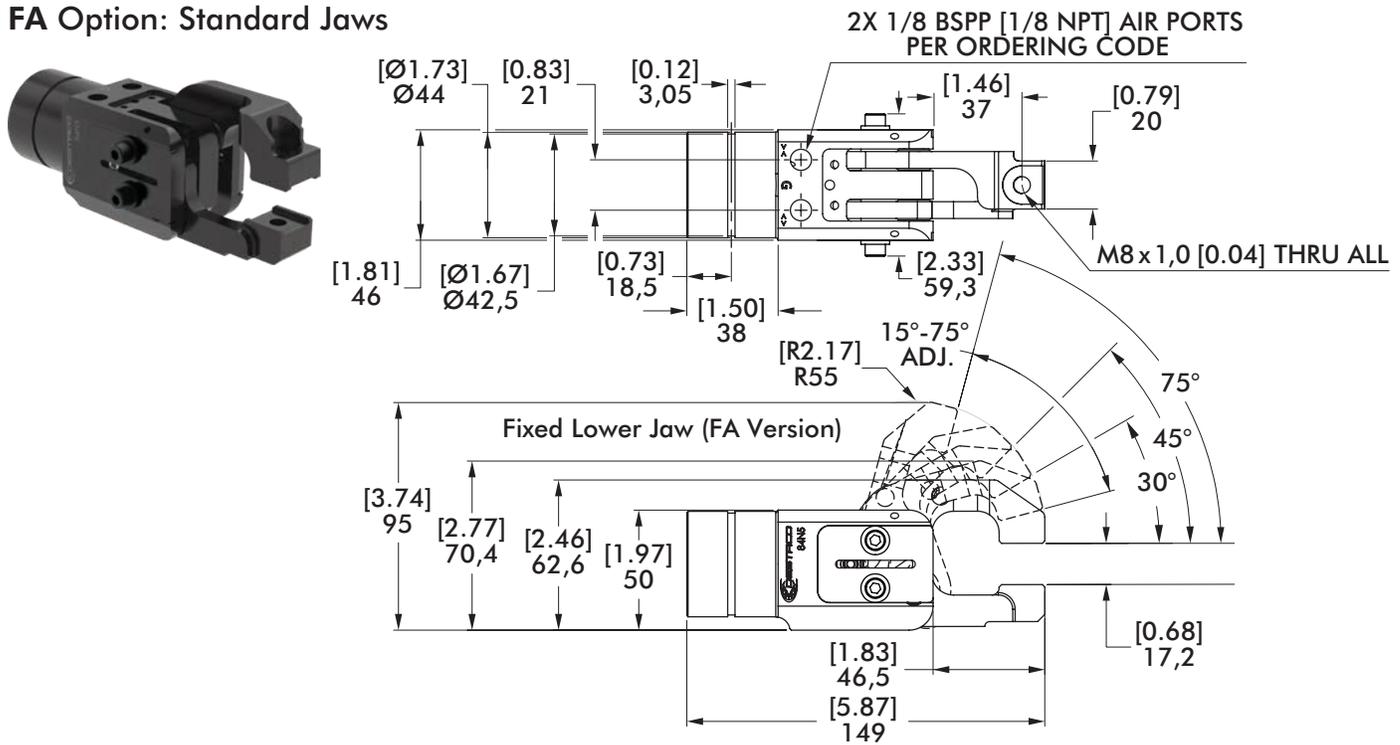


Customer is responsible for final adjustments and tightening of all accessory mounting screws.

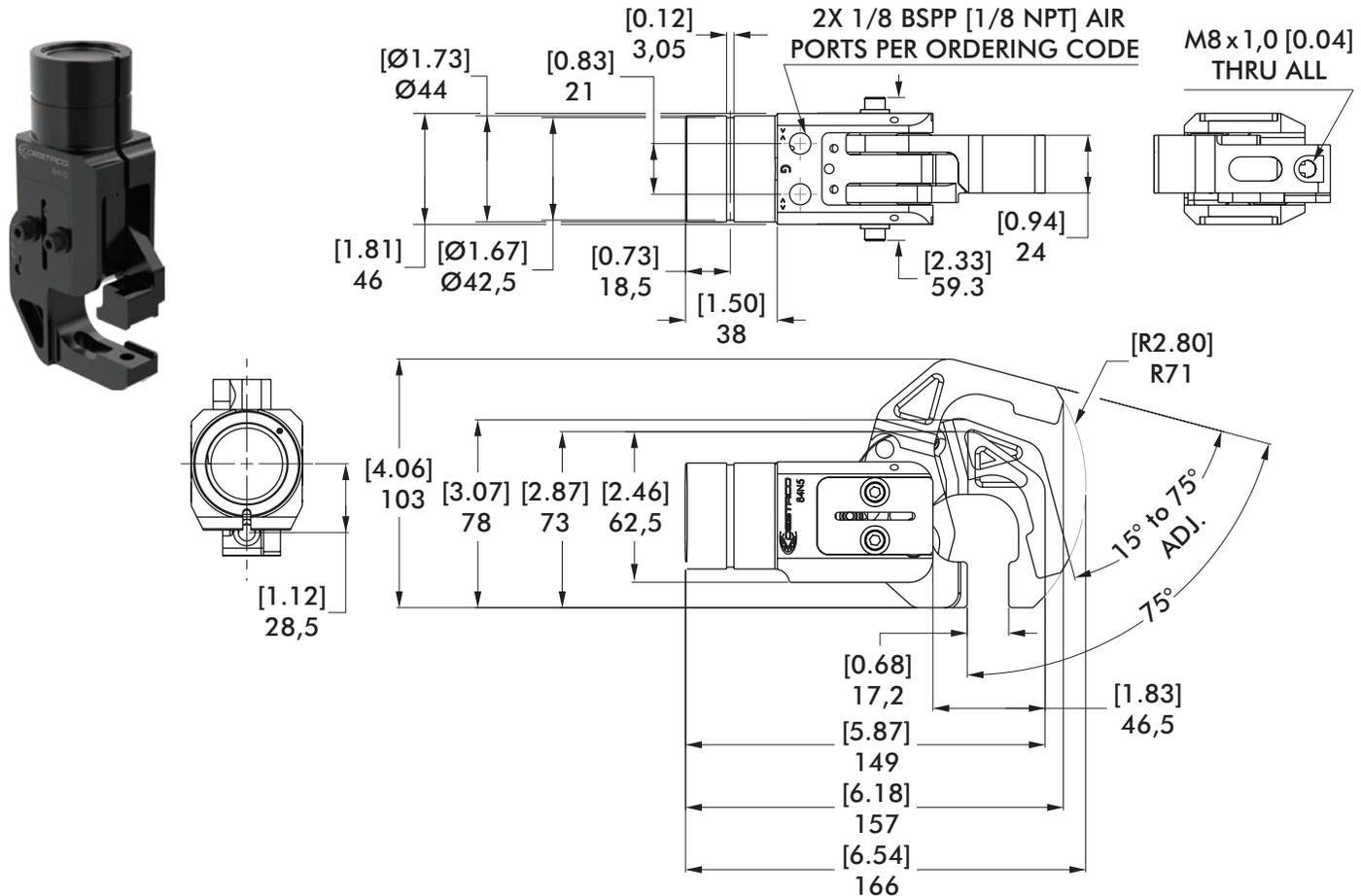
84N5 SERIES (FIXED LOWER JAW)

Accelerate® Press Shop Sheet Metal Grippers | Dimensions

FA Option: Standard Jaws

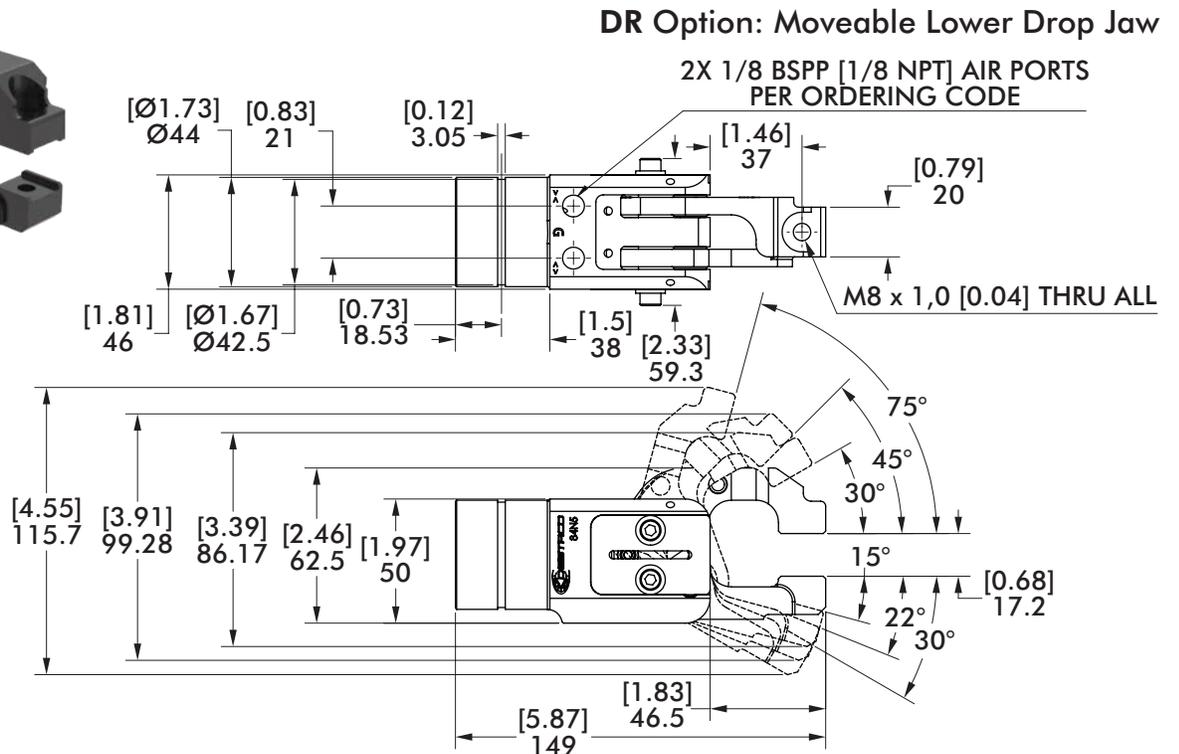
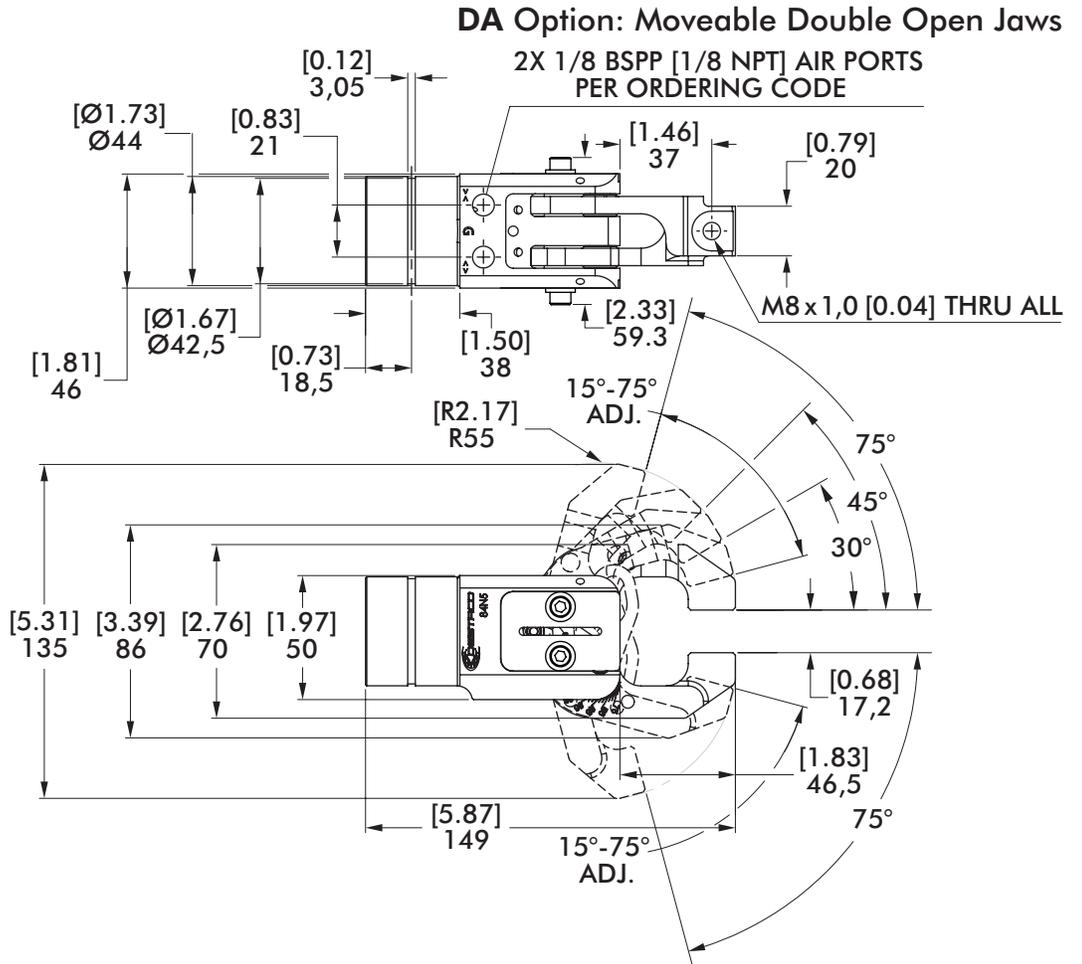


PA Option: 90° Straight Fixed Lower Jaw



84N5 SERIES (MOVEABLE LOWER JAWS)

Accelerate® Press Shop Sheet Metal Grippers | Dimensions



84N5 SERIES (MOVEABLE LOWER JAWS)

Accelerate® Press Shop Sheet Metal Grippers | Dimensions

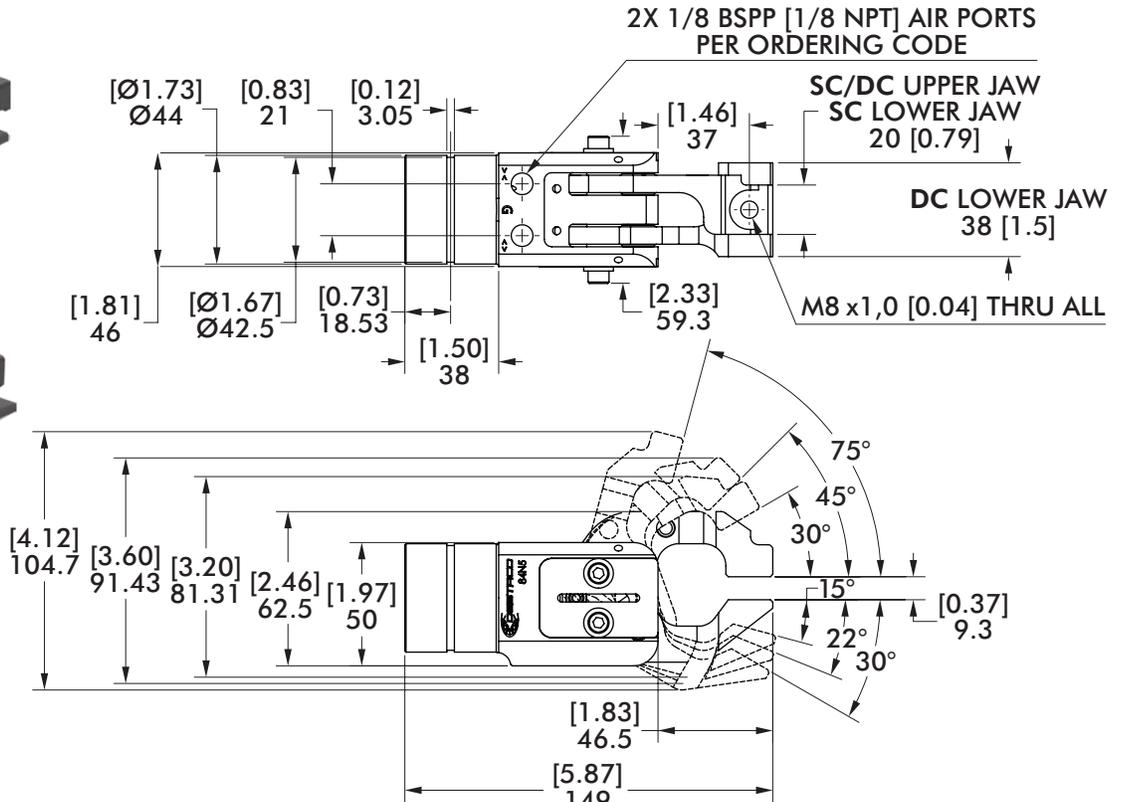
SC/DC Option: Moveable Single/Double Chisel Lower Jaw



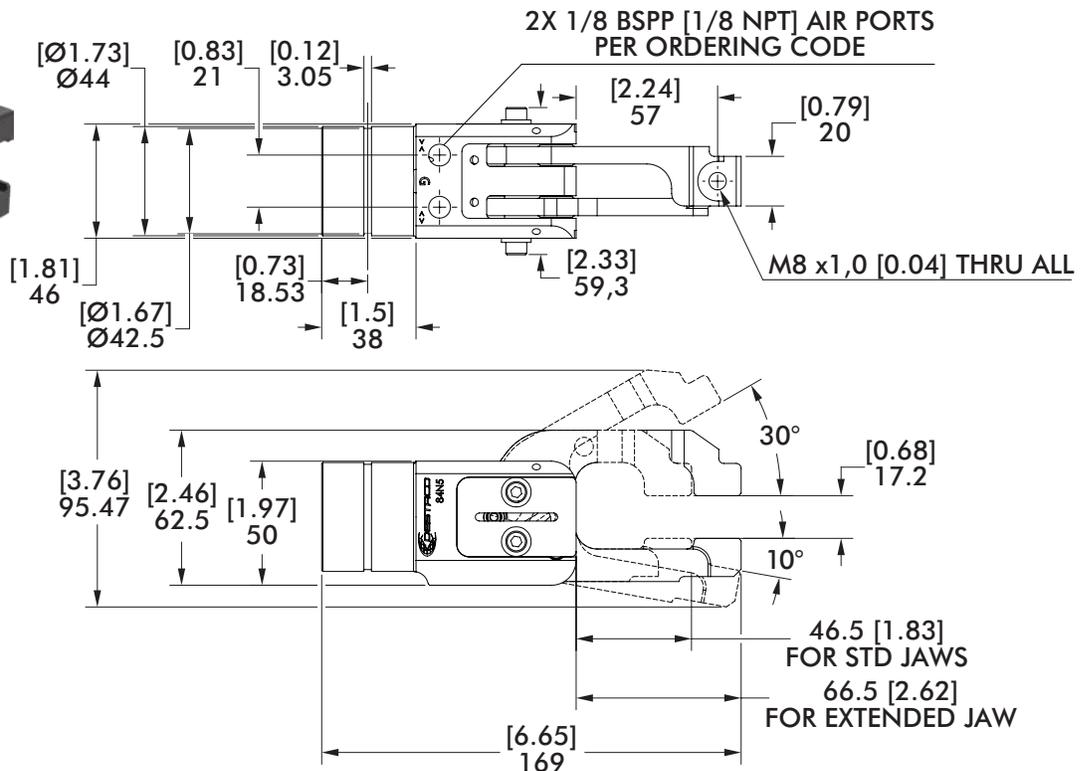
SC Single Chisel



DC Double Chisel



EJ Option: Moveable Extended Lower Jaw



84N5 SPECIFICATIONS/FIXED LOWER JAWS KITS

Accelerate® Press Shop Sheet Metal Grippers | Specifications and Ordering Information

Specifications

Specification	Unit	84N5
Grip Force at 5 bar	N [lbf]	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 [in3]	0,036 [2.20]
Temperature Range	C° [F°]	-35° to 80° [-31° to 176]

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 MOVEABLE LOWER JAWS KITS

Accelerate® Press Shop Sheet Metal Grippers | Ordering Information

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	Part #
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	Part #
30°	10°	84N5-310-EJ-KIT



Single Chisel Jaw Part

Upper Jaw	Lower Jaw	Part #
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	Part #
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	Part #
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

84N5 SHEET METAL GRIPPER

Notes

