

84N5 Series

Universal Sheet Metal Press Shop Gripper



DESTACO's 84N5 sheet metal gripper is the universal solution for press shop gripping applications. The 84N5 gripper accelerates your press tending productivity with a lighter, faster and highly flexible gripper that can accommodate most press shop needs. The 84N5 features easy in-field jaw reconfiguration, adjustable opening angle, multi-point sensing and minimal field maintenance.

Developed for high-speed automation now you can increase your productivity using lighter tooling weighing as little as 0.68kg with an actuation speed of 70ms and a grip force up to 1200N. The small footprint of this gripper will fit into existing applications for easy system upgrades.

Designed and tested for long life, this patented gripper requires minimal maintenance. A variety of sheet metal thickness tips, field changeable jaw kits, multiple blank and double blank sensing solutions provide extreme versatility. With the wide offering of mounting options, the 84N5 is a universal press shop gripper solution.



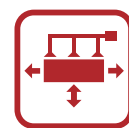
Covered under one or more US patents.

PRODUCT HIGHLIGHTS/OPTIONS

- Full range adjustable jaw opening
- Interchangeable jaws
- Fast on-site configuration changeover
- Optional multi-point sensing
- Easy field maintenance



GRIPPING



PICK AND PLACE

FEATURES & BENEFITS



STRENGTH

- Powerful grip force up to 1200N at 5 bar
- Self-lock jaws grips sheet metal securely if air pressure is lost
- Integrated hardened steel impact plates protects gripper body from panel impact



PERFORMANCE

- Ultra-fast 70ms actuation for high speed press shop automation
- Multi-point sensing for blank, double blank, full open, and full close detection
- High durability with minimal maintenance



INTERCHANGEABLE

- Quick changeover from single to double tip configurations
- On-demand opening angle adjustment
- Wide selection of interchangeable mounting solutions



STAMPING



ASSEMBLY



CNC/MACHINING



FIXTURE & TESTING

APPLICATIONS



AUTOMOTIVE



CONSUMER GOODS



AEROSPACE



FOOD & PACKAGING

MARKETS

*When compared with our closest competition

84N5 ACCELERATE® PRESS SHOP GRIPPER

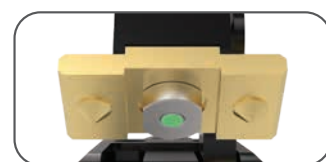
The **84N5 Universal Sheet Metal Gripper** is available in six jaw types with multiple fixed and adjustable opening angle options available. The modular design allows the jaws to be exchanged in the field quickly and easily with the use of a single allen wrench.



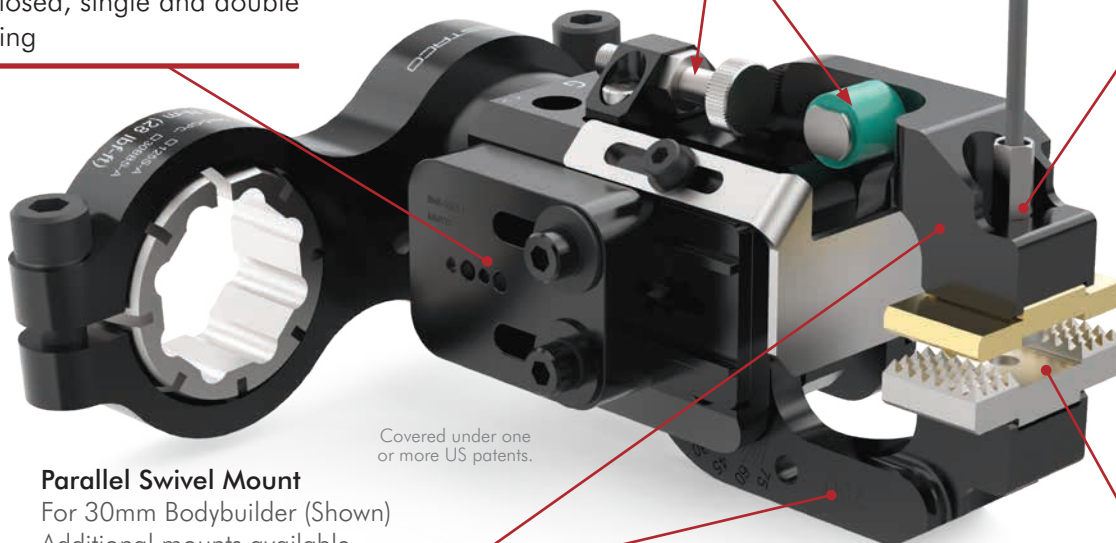
Multi-point Side Mount Sensing:
for open/closed, single and double blank sensing



Optional Angle Adjustment Kit:
for multiple jaw openings in one gripper



Optional In-Jaw Sensor:
for part present sensing



Parallel Swivel Mount
For 30mm Bodybuilder (Shown)
Additional mounts available.

Covered under one or more US patents.

FA Option
Fixed Lower Jaw



PA Option
90° Fixed Lower Jaw



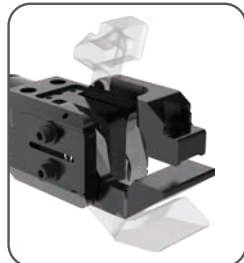
DA Option
Double Open Jaw



SC Option
Single Chisel Jaw



DC Option
Double Chisel Jaw

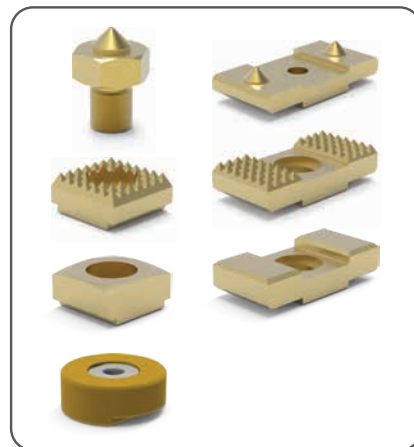


EJ Option
Extended Jaws



Interchangeable Jaw Tips:

Single & double cone, serrated, flat and single polyurethane style tips can be used in different configurations for different contact points and part thicknesses



84N5 ACCELERATE® PRESS SHOP GRIPPER

Jaw Options | Flexible and Adjustable

Field Adjustable Jaw Opening

The 84N5 sheet metal gripper with angle adjustment kit option installed allows jaw opening angle to be adjusted quickly in the field from 15° up to maximum 75° simply with the turn of the stopper.

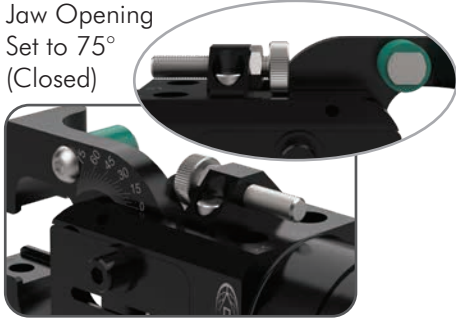


Convenient Angle Marking

For easy identification of jaw opening angle

84N5-X-ADJ-XX

Jaw Opening
Set to 75°
(Closed)



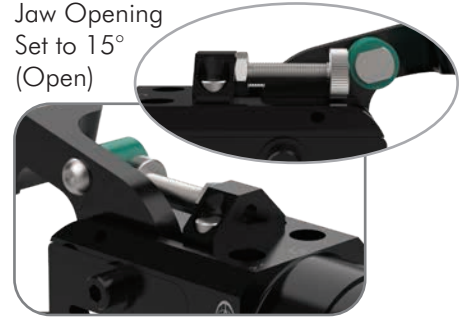
84N5-X-ADJ-XX

Jaw Opening
Set to 75°
(Open)



84N5-X-ADJ-XX

Jaw Opening
Set to 15°
(Open)



Interchangeable Jaw Tips:

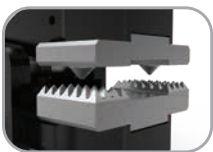
To allow the handling of
multiple part thickness



Part Thickness
Range
Option 1
0.4 - 1.0mm



Part Thickness
Range
Option 2
1.0 - 1.6mm



Part Thickness
Range
Option 3
1.6 - 2.2mm



Part Thickness
Range
Option 4
2.2 - 2.8mm



Part Thickness
Range
Option 5
2.8 - 3.4mm

Adjustable Sheet Stop

The included sheet stop
can also be adjusted in the field
to change the jaw depth



Optional Mounts (Sold Separately)

Offered in applecore, ball, and swivel
options for use in most applications



Side Mount
Apple Core
Ø19mm/20mm



Side Mount
Ball Mount
Ø1.125in/32mm



Parallel Swivel
Mount
Ø1.00in/25mm
Ø1.25in/30mm BB



Rear Ball Mount
Ø32mm Ball



Rear Flange Mount
35.1 x 57mm
Mounting pattern



Rear Swivel Mount
Ø25mm

DESTACO's **84N5 Series** is latest addition to the family of Accelerate® Press Shop Sheet Metal Grippers



Serie 84N5

Serie 84N1/84N2

ACCELERATE
COLLECTION

DESTACO 84N Series Accelerate® Press Shop Sheet Metal Grippers are up to:

60% lighter* (0.27-0.68kg)

40% smaller* foot print

62% faster* actuation (33-70ms)

100% DESTACO innovation

*When compared with our closest competition

Specification	Unit	84N1/84N2	84N5
Grip Force at 5 bar	N	Up to 1000	Up to 1200
Weight (FA jaws - no tips)	Kg	0.27	0.68
Size L x W x H (Open)	mm	110 x 43 x 64	149 x 46 x 95
Actuation Time	ms	33	70
Minimum Operating Pressure	bar	3	4
Opening Angles:			
Upper Jaws		30°, 45°, 60°, 75°	30°, 45°, 75°, ADJ (15°-75°)
Lower Jaws		Fixed	10°, 15°, 22°, 30°, 75°, ADJ (15°-75°)
Piston Ø	mm	25	32
Air Consumption/Cycle	L	.015	.036


DIMENSIONS AND TECHNICAL INFORMATION ARE SUBJECT TO CHANGE WITHOUT NOTICE.

SG_84N5-F_0625_US

CORPORATE
HEADQUARTERS

 **US**
 +1-888-DESTACO
 +1-248-836-6700
 northamerica@destaco.com

 **DE**
 +49-6171-705-0
 europe@destaco.com


 **PL**
 +48-506002115
 poland@destaco.com

 **FR**
 +33-4-7354-5001
 france@destaco.com

 **NL**
 +31-297285332
 benelux@destaco.com

 **UK**
 +44-1902-797980
 uk@destaco.com

 **CZ**
 +420-603-577-341
 czech@destaco.com

 **SP**
 +34-936361680
 spain@destaco.com

 **IN**
 +91-80-41123421-426
 india@destaco.com

 **CN**
 +86-21-2411-2678
 china@destaco.com

 **SG**
 singapore@destaco.com

 **TH**
 +66-2326-0812-6
 asia@destaco.com

 **CA**
 canada@destaco.com

 **MX**
 mexico@destaco.com