84N Series

Sheet Metal Press Room Gripper Products

DESTACO introduces the newest addition to its line of stamping press sheet metal gripping solutions.

The Accelerate® sheet metal press room gripper is half the weight and more compact, with faster actuation — when compared to our closest competition(1) — without sacrificing grip force which measures up to 1000 N at 5 bar.

The lighter, smaller and faster 84N series gripper accelerates stamping press operations by helping customers produce more stamped parts per hour with higher efficiency while reducing moment forces and overall system wear and tear.

Product Highlights/Options

- Standard, chisel and 90° jaw options
- 30°, 45°, 60° and 75° jaw opening available
- Flexible mounting options
- Part present sensing
- One-step tip adjustment tool

Features, Markets and Applications

| Compact Size | 12% smaller footprint (*) |
| Zero protrusion fixed jaw |
| No protrusion of top jaw mechanism below body |

| Lightweight | 60% lighter, weighing only 0.27kg (vs 0.56kg) (*) |
| Body constructed of lightweight aluminum |

| Performance | 60% faster actuation time at 33ms (vs 50ms) (*) |
| Compact and powerful, with a grip force up to 1000N at 5 bar |
| Integrated clamp-loss protection |

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**ACCELERATE® PRESS ROOM GRIPPER**

**84N1 Series** Sheet Metal Gripper with Adjustable Tips

- Standard Fixed Lower Jaw Double Tip
- Standard Fixed Lower Jaw Single Tip
- Chisel Fixed Lower Jaw Single Tip
- Chisel Fixed Lower Jaw Double Tip

**84N2 Series** Sheet Metal Gripper with Fixed Tips

- 90° Jaw Configuration Double Tip Insert
- 90° Jaw Configuration with Single Tip Insert

**Part Thickness Range**

- Option 1: 0.4 - 1.0mm
- Option 2: 1.0 - 1.6mm
- Option 3: 1.6 - 2.2mm
- Option 4: 2.2 - 2.8mm
- Option 5: 2.8 - 3.4mm

The tip inserts can be used cone/serrated or serrated/serrated.
Accelerate® Press Room Gripper

84N Series Mounting and Sensor Options

- **Dimensions and technical information are subject to change without notice**

**Rear Flange Gripper Mount**

- 32mm or 1.125 inch Rear Ball Gripper Mount

**Side Ball Gripper Mount**

- 25mm Tube
- 1.00/1.25 inch Tube
- or 30mm Bodybuilder Parallel Swivel Gripper Mount

- 32mm or 1.125 inch Side Ball Gripper Mount

**Rear Ball Gripper Mount**

- 25mm Tube
- 1.00/1.25 inch Tube
- or 30mm Bodybuilder Parallel Swivel Gripper Mount

- 19mm or 20mm Apple Core Gripper Mount

**Double Blank Detector Sensor Kit**

**Sheet Stop**

**Infrared PNP Sensor Kit**

**Clamp-Loss Prevention Feature**

**Part Present Detector Sensor Kit**

84N2 with Rear Flange Mount and Double Blank Detector Sensor Kit

84N1 with 32mm Side Ball Mount and Infrared PNP Sensor Kit

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84N Series Sheet Metal Gripper used with Accelerate Lightweight Tooling.

The Accelerate® Press Room Sheet Metal Gripper is designed to complement the Accelerate® Collection, providing a complete lightweight and flexible tooling system.

The Accelerate® Collection handle parts of any size and shape throughout the stamping process.

The Accelerate® Press Room Sheet Metal Gripper is:

- **60% lighter** (0.27kg vs 0.56kg)
- **12% smaller** footprint
- **60% faster** actuation (33ms vs 50ms)
- **100% DESTACO** innovation

*When compared with our closest Competition

### Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Unit</th>
<th>Value</th>
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<tbody>
<tr>
<td>Grip Force at 5 bar</td>
<td>N</td>
<td>Up to 1000</td>
</tr>
<tr>
<td>Weight (FC00 version)</td>
<td>Kg</td>
<td>.27</td>
</tr>
<tr>
<td>Size L x W x H (closed)</td>
<td>mm</td>
<td>110 x 43 x 43</td>
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<tr>
<td>Size L x W x H (open)</td>
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<tr>
<td>Actuation Time</td>
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<tr>
<td>Life</td>
<td>cycles</td>
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<td>Minimum Operating Pressure</td>
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<td>Opening Angles</td>
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<td>30°, 45°, 60°, 75°</td>
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<tr>
<td>Piston Ø</td>
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<td>25</td>
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<tr>
<td>Air Consumption/Cycle</td>
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<td>.015</td>
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