



# DELTAGRIP DG4™



**The Better Way of  
Connecting Steel Roof  
Deck at Sidelaps**

ASC Steel Deck is a leading manufacturer of light-gauge structural steel deck, delivering quality products for over 50 years.

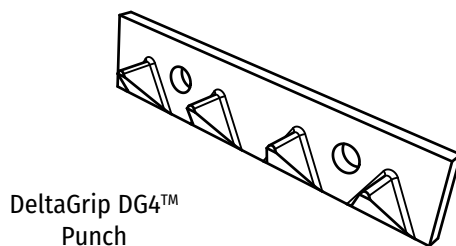
# ASC Steel Deck's DeltaGrip® DG4™ Tool

The DeltaGrip® DG4™ Tool builds upon the success of the original DeltaGrip® System by introducing added benefits of higher connection strength, faster cycle time, and increased punch durability.

This powerful, lightweight pneumatic tool fastens the sidelaps of interlocking steel roof deck with a highly effective quadruple punch through three layers of steel. The interlocking system created by The DeltaGrip® DG4™ Tool creates a permanent, durable connection significantly stronger than a screwed sidelap and comparable to a welded sidelap connection. This connection resists longitudinal movement and vertical separation when subjected to wind, seismic, or construction loads.

The DeltaGrip® DG4™ Tool installs faster than sidelap screws, reducing labor costs, and eliminates the cost of the sidelap fasteners. The ease of the tool's pneumatic action requires less energy than a manual button punch and less labor than a welded top seam connection. This combination of a high-strength quadruple punch and faster cycle time makes the DeltaGrip® DG4™ Tool a superior sidelap connection solution.

## What's New?



DeltaGrip DG4™  
Punch



DeltaGrip DG4™ Tool  
Die

ASC Steel Deck's DeltaGrip® DG4™ Tool features a new four-tooth punch and a strengthened design, increasing deck connection strength and improving system durability. The improved connection performance make it a clear choice over traditional top seam welds and screwed sidelaps.

Performance improvements include:

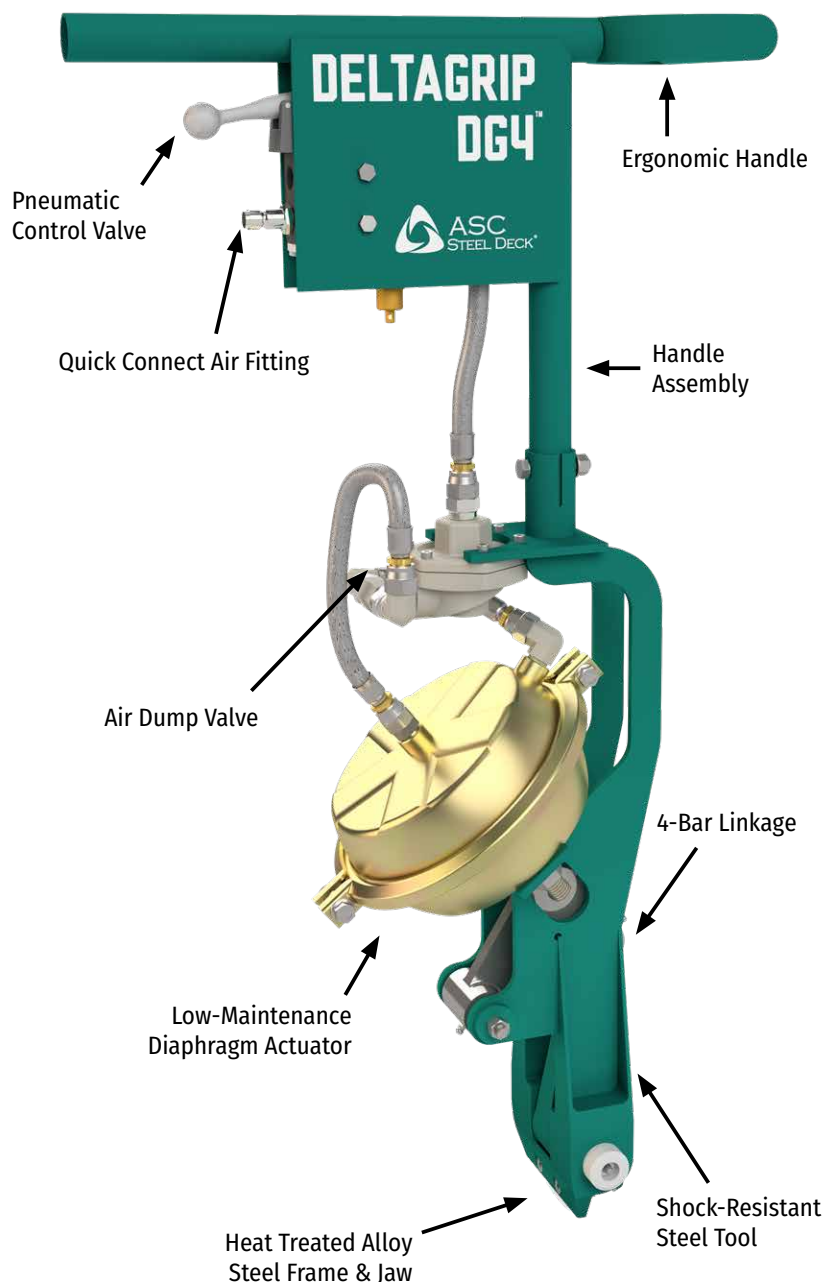
- ✓ **Increased Connection Strength** - Increased by as much as 26% and an average of 15% compared to the previous generation DeltaGrip®
- ✓ **Increased Connection Stiffness** - Increased by as much as 48% and an average of 37% compared to the previous generation DeltaGrip®
- ✓ **Increased Crimping Force** - New 4-bar linkage design amplifies punching forces, increasing crimping force by as much as 35%
- ✓ **Faster Cycle Time** - DeltaGrip® DG4™ features an end-of-cycle air dump valve for faster punch cycles, resulting in a 17% improvement in average cycle time across all gauges
- ✓ **Improved Durability** - Braided air lines and new, durable handle design increase field reliability

Improvements do not come at the cost of useability, or installation efficiency. DG4™ carries over the same tool actuation, air supply and maintenance connections as the prior generation DeltaGrip®, enabling a simple transition for users and installers.

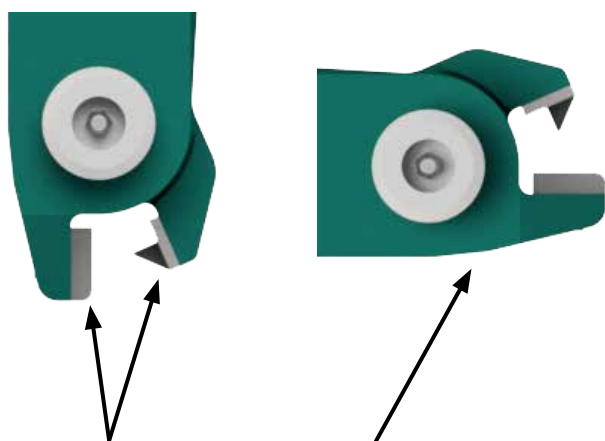


# DeltaGrip® DG4™ Tool & System Facts

System Facts	
<b>Tool Dimensions</b>	19.25" x 9.5" x 36.5"
<b>Air Inlet</b>	3/8" NPT
<b>Min. Hose Size</b>	3/8"
<b>Code Compliance</b>	IAPMO-UES ER 0161
<b>Air Pressure Required</b>	90 psi - 135 psi (depending on deck gauge)
<b>Maximum PSI</b>	175 psi air compressor, not to exceed 145 psi maximum pressure at tool
<b>Hose Length</b>	100' maximum hose length without reserve tank
<b>Fitting</b>	1/2" air hose with 3/8" series quick connect fitting
<b>Weather Resistance</b>	Installation not effected by inclement weather
<b>Profiles</b>	Use on all gauges of ASC Steel Deck DG Roof profile panels; including acoustic, cellular, & Smooth Series™ panels

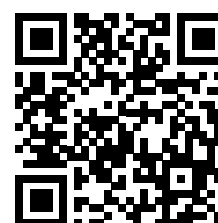


Patent Number: 11,872,644



Replaceable Quadruple DG4™ Punch & Die  
allows for quick field replacement

Scan to access tool demo & resources





# Benefits of The DeltaGrip® DG4™ Tool

- **Straightfoward Installation** – Simple to use, enabling installers to proficiently install within minutes.
- **Lowered Installation Costs** – DG4 installs faster than sidelap screws or replaces the need for top seam welds and certified welders, lowering labor costs.
- **Installation Speed** – The rapid deck connection method and new faster cycle times help to reduce overall installation time. Visual inspections can also be easily inspected from the top side of the deck.
- **Consistency** – Unlike welds, the steady pneumatic action creates a consistent connection, time after time. ASC Steel Deck offers a DeltaGrip® DG4™ Go/NoGo gauge for installation quality verification.
- **No Clean Up** – The clean connection eliminates need for post-connection cleaning, reducing install time.
- **Clean Install** – Consistent 4-punch action eliminates unsightly visible fasteners in exposed applications.
- **No Need to Source or Stock Separate Sidelap Fasteners** - The new connection removes the need to source sidelap screws or fasteners, further lowering installation costs.
- **Dependability & Safety** – Durability upgrades to the jaw material, punch and tool reduce down-time, while the user-friendly handle and lack of fumes or fire risk associated with welding help improve safety.
- **Design Flexibility** – Compatible with all of ASC Steel Deck's interlocking roof deck profiles, including acoustical, cellular and Smooth Series™, an elegant visual solution for architecturally exposed applications.
- **Easy Transition** – Use the same hose, pump, and maintenance connections as the existing DeltaGrip® System, making transitioning to the new tool a seamless process.



Contact your ASC Steel Deck Sales representative to learn more, or visit  
[www.ascsd.com/dg4-tool](http://www.ascsd.com/dg4-tool)

Structural Steel Roof and Floor Deck by ASC Steel Deck. ASC Steel Deck is a leading steel deck manufacturer offering a full line of light gauge structural roof deck and floor deck products.

