

# The DeltaGrip® System

A Revolutionary Alternative to  
Welding Metal Deck



ASC  
STEEL DECK

*Structural Solutions in Metal*

## ASC DeltaGrip® System

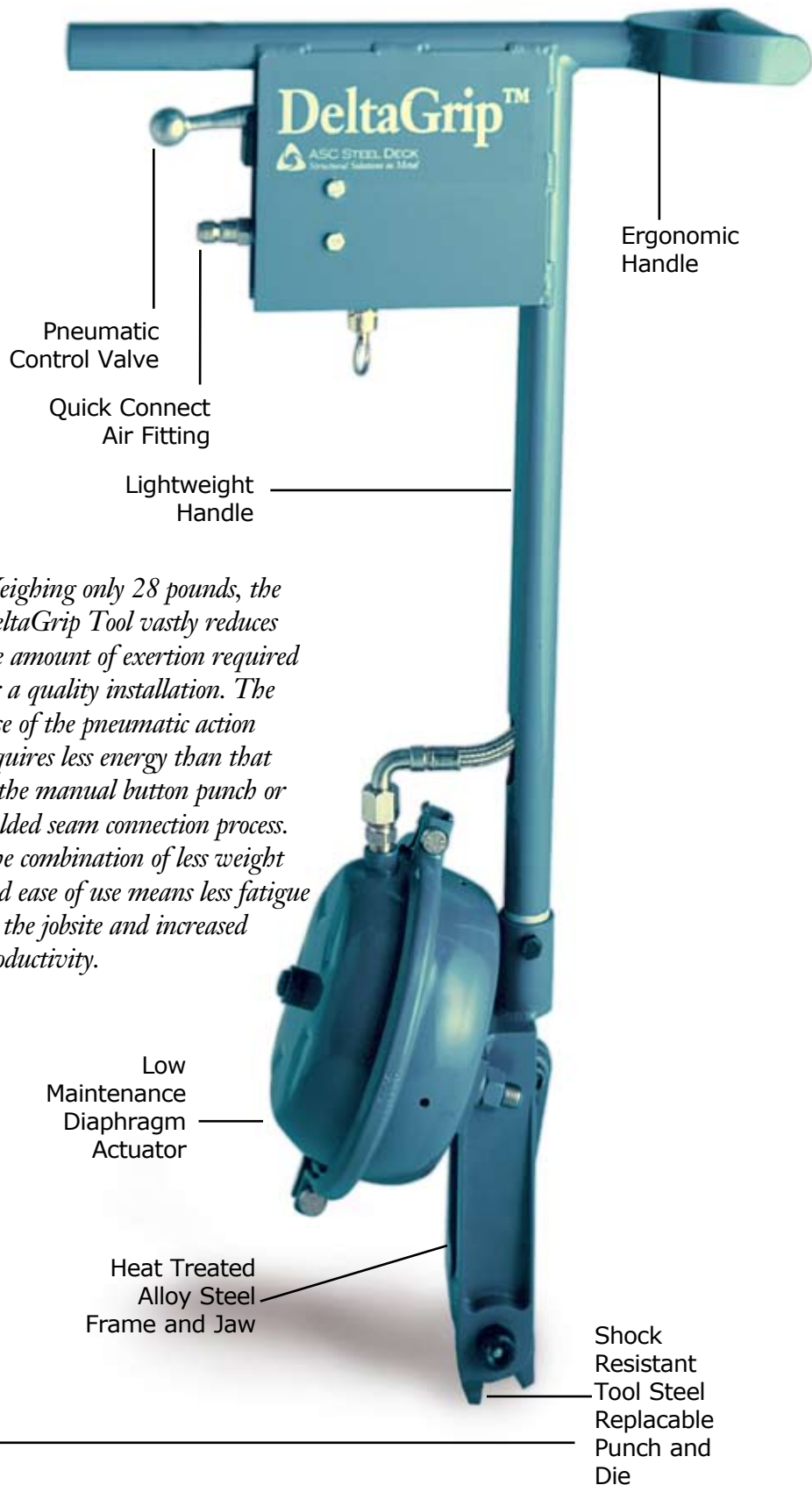
A revolutionary structural side seam attachment system for steel roof and floor deck applications.

### The ASC DeltaGrip System

As part of an ongoing effort to keep steel construction competitive, ASC Steel Deck introduces its exclusive ASC DeltaGrip seam attachment system. This revolutionary system eliminates the need for welding. Additionally, the easy-to-use DeckGrip interlocking tool provides high shear values not attainable by button punching while weighing only 28 lbs.!

The powerful, lightweight pneumatic DeltaGrip tool fastens the sidelaps of the interlocking steel roof or floor deck with a highly effective triple punch through three layers of steel. The results of this interlocking system are as permanent and durable as a seam weld. As part of the ASC DeltaGrip system, the DeltaGrip tool resists longitudinal movement and vertical separation when subjected to wind, seismic or construction loads.

## The ASC DeltaGrip® System & the DeltaGrip Tool



*Weighing only 28 pounds, the DeltaGrip Tool vastly reduces the amount of exertion required for a quality installation. The ease of the pneumatic action requires less energy than that of the manual button punch or welded seam connection process. The combination of less weight and ease of use means less fatigue on the jobsite and increased productivity.*





## **The Quality Assurance of the ASC DeltaGrip® System**

Engineers can rest assured the DeltaGrip System was developed with quality control in mind. Inspection is a snap due to the easy top access of the triple punch and the go/no go gauge that insures the best quality installation. Punches are consistent, accurate and strong from the first attachment to the last, regardless of the operator's size or strength. When installed properly, the finished seam is stronger and more positive than button punches, screwed sidelaps and top seam welds.

## **Tested and Proven Durability**

Developed through full scale testing, DeltaGrip's interlocking tool performs on 22 gauge through 16 gauge steel deck. The DeltaGrip System has been tested for spans from 4'-0" to 12'-0". It is most effective on ASC's DGB-36 Roof Deck and may be applied to DGN-24, 3W, 2W and the cellular versions of each ASC profile mentioned.


## **Safety Matters**

The DeltaGrip Tool has the advantage of being safer than the welding process so there is less likelihood of loss time injuries on the job. No fumes are emitted. The DeltaGrip Tool eliminates the potential of fire in welding, therefore the costs for fire-hazard-reduction observations do not exist.

## **It's Simplicity Means Time and Cost Savings**

The DeltaGrip System significantly lowers the installed cost of structural deck. No screws or welding rods are needed. Sidelap attachments with ASC's DeltaGrip Tool are a one step process, compared to conventional welding the DeltaGrip Tool fastens the sidelaps in less time, yet dramatically increases the shear value over button punching. Additionally, no touch-up from either the topside or the bottom side of the deck is necessary.





# Advantages of The DeltaGrip® System & Tool

## Positive visual

<b>inspection:</b>	Easily inspected from the topside of the deck
<b>Durable:</b>	Stronger than a top seam weld
<b>Economical:</b>	Lowers the installation cost
<b>Pneumatic</b>	
<b>Action:</b>	Minimal effort required to operate
<b>Inclement</b>	Installation not effected by inclement
<b>weather:</b>	weather
<b>Lightweight:</b>	28 lbs.
<b>Effective:</b>	Use on ASC Steel Deck's DGB-36, DGN-24, 3W, 2W and Cellular versions
<b>Fully tested:</b>	Developed through full scale testing
<b>ICC Evaluation:</b>	ESR-1414
<b>City of</b>	
<b>Los Angeles</b>	
<b>Research Report:</b>	RR23783
<b>Installed Rate:</b>	Seven times faster than seam welds.

## DeltaGrip Tool Specifications

Capacity:	22 to 16 gauge
Air Inlet:	3/8" NPT
Min. Hose Size:	3/8"
Pressure Required:	80 psi to 140 psi (depending on deck gauge)
Weight:	28 lbs.

## ASC Steel Deck

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