



Double Direction Wire Mesh Bender



Accurate and Repeatable Results

- Perfect for box culvert manufacturing
- Hydraulic powered
- Rock-solid construction, no slippage



Solid Solutions for Concrete Processing Equipment

In addition to our comprehensive selection of pipe and precast concrete product production and automated handling equipment, Afinitas now brings you trusted mesh processing equipment that provides the highest value for your concrete production needs.

Our selection includes:

- Hydra-Roll mesh rollers
- Mesh flatteners
- Precision automated mesh rollers
- Pipe mesh cage expanders
- Single direction mesh benders
- Double direction mesh benders

Ultimate value

As your single source provider for pipe and precast concrete equipment, we offer a partnership approach to doing business. Our level of service means we work with you throughout the life of your equipment to ensure you operate at the highest levels of productivity to produce top-quality products better and safer.



Hydra-Roll Mesh Rollers



Mesh Benders



Wire Cage Expanders



Need Help?
Contact our Team:

Technical Service
Phone: 319-394-2270
hawkeyetech@afinitas.com

Parts
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Double Direction Benders

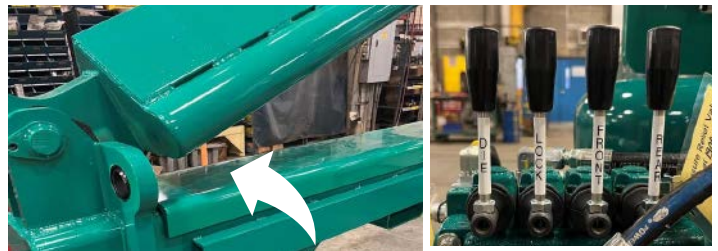
Our Double Benders were developed in response to the growing precast box culvert market. The standard bender is designed to bend Welded Wire Reinforcing without obstructions in the bending deck through D21 on 2" spacing or D32 on 4" spacing.

Operational Features and Benefits:

- Consistent, accurate bending with virtually no slippage regardless of mesh size
- Manual hydraulic controls standard, optional electronic controls
- Loading options from either side
- Unobstructed bending deck
- Performs accurate bends regardless of spacing
- Manually controlled hydraulic locking cylinder
- Optional hands-free operation with remote, electrical foot pedal controls
- Easy cage removal
- Bending capabilities of W21 on 2" centers (D32 on 4" centers) to a resting 90°
- 2" bending radii generally conforms to precast box culverts standard, ASTM C- 1433
- Units available in 8', 10', and 12' lengths
- Available with internal clear space of 102" (8'), 126" (10'), and 150" (12')



8' Double Mesh Bender



Mesh is secured firmly between the deck and bending mandrel for consistent, accurate bending with virtually no slippage regardless of mesh size.



Double Direction Benders

Technical Capabilities



The bending mandrel is safely locked in place by the manually controlled hydraulic locking cylinder. The mandrel is positioned automatically and correctly for each bend.



Built with manual hydraulic controls as standard. The operator is in complete command of the machine.

Double Benders may be loaded from either side. To make the first bend, the Welded Wire Reinforcing mat is placed in position for bending. After securing the mesh between the deck and mandrel, the bending arm is raised and overbends the sheet to form a resting bend of 90°.

To accomplish the second bend, simply move the mesh mat forward (there is no need to raise the mandrel) on the unobstructed bending deck, to the second position. The same method for bending is repeated with the exception that the bend is from the opposite bending arm. After the arm is retracted, the cage will have a "U" configuration.

The cage is extracted from the bender by simply raising the mandrel to the full 90° position. The arm will completely clear the bending deck for easy removal of the cage.



Double Bender Standard Features

Features that come standard with our Double Bender include:

- Manual Hydraulic controls
- 90° final resting bend
- Heavy tubular construction
- Fork pockets and / or lifting eyes
- Hydraulic hoses are hidden in construction
- Hydraulic cylinders sized and placed for safe, efficient operation
- Bending radii per customer's specifications (2" typical for precast box culvert cages)
- Hydraulic cylinders mounted in the bending deck providing unobstructed bending for the full range of (WWR) mesh including D21 on 2" centers. Or D32 on 4" centers
- Customer to confirm bending radius and plant voltage at time of purchase
- Standard units available in:
 - 8' width (102" unobstructed deck space)
 - 10' width (126" unobstructed deck space)
 - 12' width (150" unobstructed deck space)

Upgrades:

- Electrical remote "hands-free" operation with pedestal and foot pedals





Double Bender Bending Sequence



Mat is introduced between the deck and mandrel; and located for the first bend.



"L" shaped mat is pulled forward and the second bend located.

After bending, the mandrel rotates to a full 90° for extraction.



Need Help?
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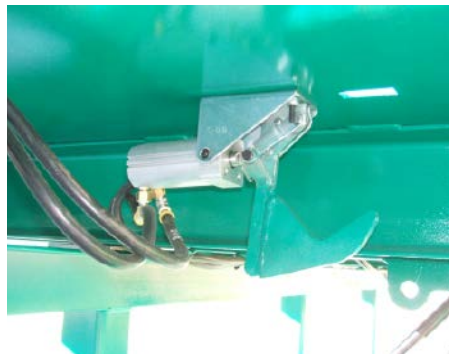
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Hydraulic cylinders in the bending deck secure the mat firmly against the mandrel for each bend. The cylinders are accessible for repair or replacement. The photo shows the bending deck and mandrel fully engaged.

Photos illustrate heavy construction, hydraulic tipping cylinders and table mounted rollers.



Bumpers are removable and adjustable to include precise bending locations.

Pneumatic hooks secure the bent mat prior to tilting safely to the floor. In a single 15' table two hooks are standard.



Tilt Table secures the bent cage safely and securely; then lowers to the floor in the upright position.

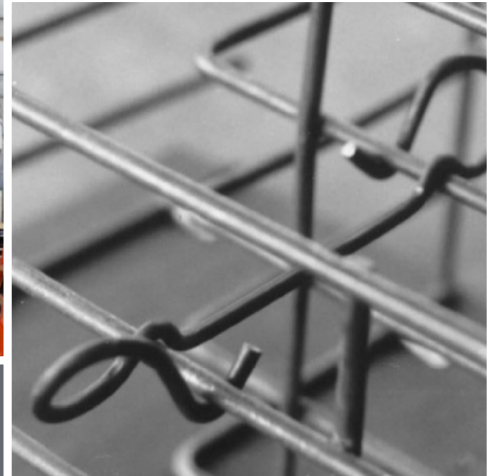


Double Direction Wire Mesh Bender

Equipment & Automation



Concrete Accessories



Forming Systems



Intelligent Infrastructure Solutions
Visit www.afinitas.com to learn more.

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Intelligent Infrastructure Solutions

Afinitas is a global, comprehensive and customer-oriented equipment, automation, forming and accessories platform for precast concrete and infrastructural products.

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