



Hydra-Roll Wire Mesh Roller



Simple Operation, Precision Results

- For arch, elliptical, elliptical round and standard round cages
- Fully machined grooved rolls, easily adjustable



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
Phone: 319-394-2240
hawkeyeparts@afinitas.com

Hydra-Roll Mesh Roller

The Hydra-Roll computerized mesh roller is a state-of-the-art machine for the manufacturing of wire pipe cages. Features include the easy load mesh loading system, piloted bearings for ease of operation, an extra large flattening roll for improved traction, and machined grooved rolls for added cage precision.

Operational Features and Benefits:

Standard Features

- User friendly, menu-driven computer control system with all recipe files saved to memory.
- 100 selectable custom recipes with name entry allowing operator to make non-standard wire cages or mates.
- One-touch wire cage length and size adjustability calculated by controller.
- Control system monitoring that notifies operator on status of mesh roller, tracks material usage, and when scheduled maintenance is due.
- Help screens that include built-in operator's manual on screen to assist operator.
- Emergency stop switches at multiple locations.
- Adjustable cutting location utilizing low maintenance photo electric cross wire sensors.
- "Easy-load" mesh loading system.
- Large diameter adjustable flattening and traction roller with digital read-out.
- Grooved driven rollers for increased traction.
- Shear blades with multiple cutting edges.

Wire

- Width: 48"–96"
- Size: W2.0 to W12
- Cross Wire Spacing 4", 6", and 8"

Preprogrammed Shapes

- Round: 12"–108" (pipe diameter)
- Elliptical: 18"–96" (equivalent round pipe)
- Arch: 15"–96" (equivalent round pipe)
- Elliptical/round 18"–96" (pipe diameter)
- Flat mats: 30" and longer
- B and C Wall Single and Double Cages.
- Cage Tolerance meets ASTM C76

Total Weight

- Mesh Roller 19,500 lbs.
- Payoff Roller 3,600 lbs.

Facility Requirements

- Power: 15hp 65 Amps @ 230 VAC 3 Phase
- 40 Amps @ 460 VAC 3 Phase
- 35 Amps @ 575 VAC 3 Phase (voltage to be specified at time of order)



Hydra-Roll with cage

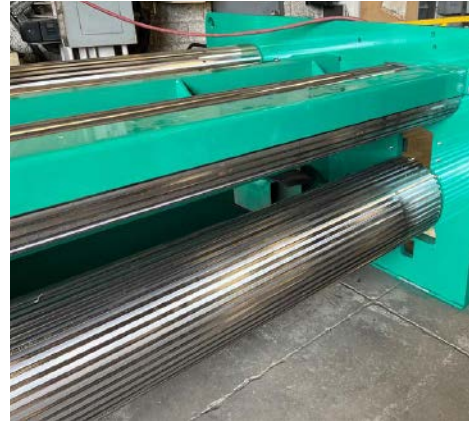
Technical Capabilities



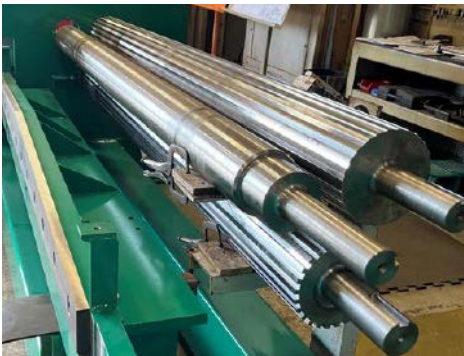
Easy load mesh loading system.



Piloted bearings put the machine rolls in the correct position at assembly. No further adjustment is required.



The extra large flattening roll system provides greater traction for improved cage quality.



All the rolls are fully machined to provide the most precise rolling system in the industry.



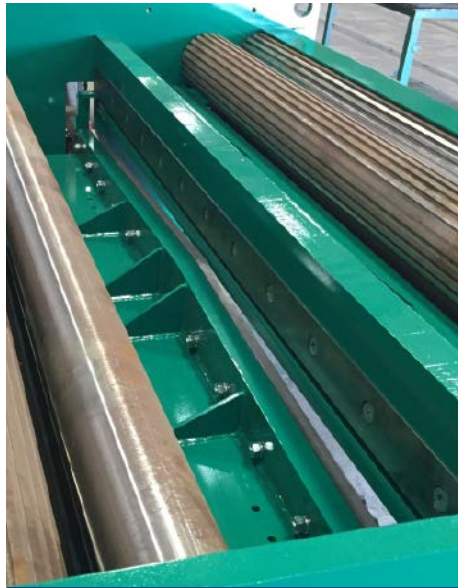
A single drive motor provides all the power required to operate the CMR mesh roller.

We also supply Single Direction and Double Direction Wire Mesh Benders and Cage Expanders.





Flattening the mesh correctly and precisely enables you to produce a much better cage. With the Hydra-Roll system flattening adjustments are as easy as turning a crank on the flattening roll system so cage consistency will never be an issue.



Shear blades are reversible for multiple cutting edges. Two large cylinders provide the power to the shear system.

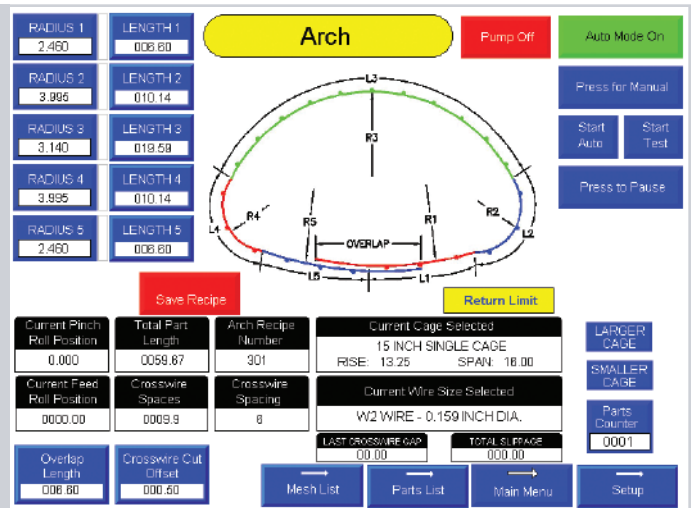


Electronic sensors make it possible for the shear to cut at any specified dimension from the cross wire.



Safety is a big concern at Afinitas. The Hydra-Roll has emergency stops and kick bars at several locations around the machine.

The Hydra-Roll highly advanced computer system includes programs for arch, elliptical, elliptical round and standard round cages.

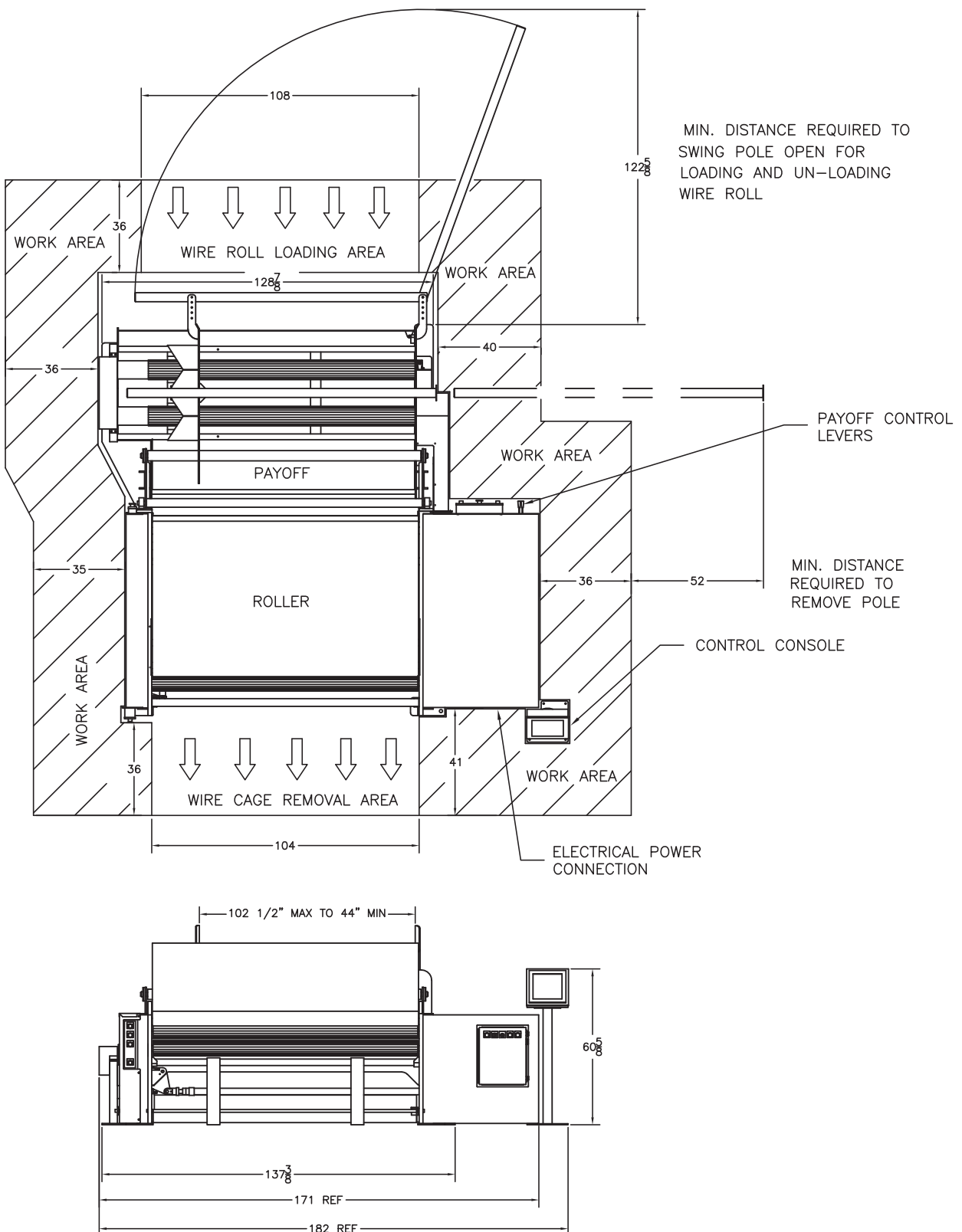


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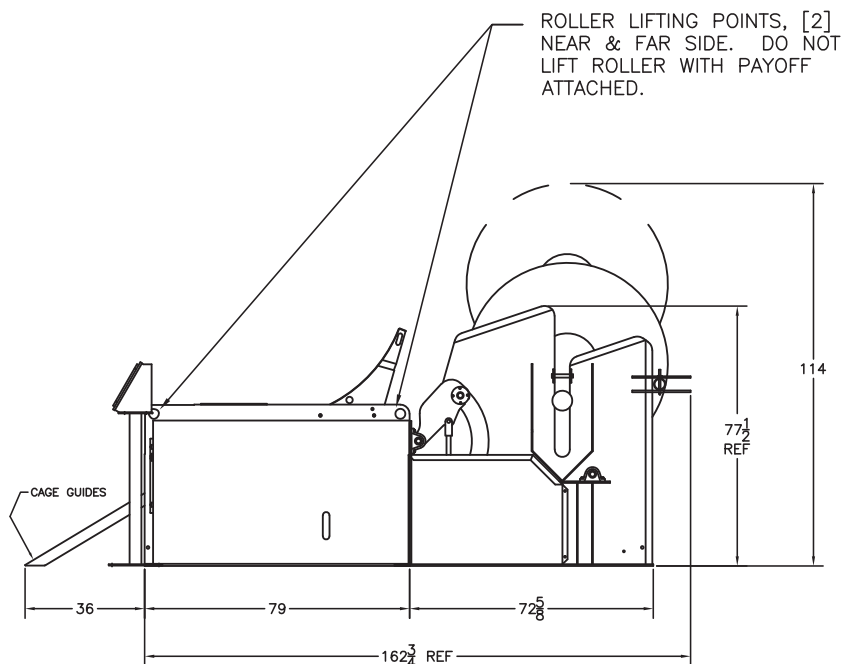
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Hydra-Roll Plant Layout



Top View & Front View



MIN. HEIGHT REQUIRED TO
LOAD OR UNLOAD WIRE ROLL
WHEN USING DROP IN METHOD

Side View

ELECTRICAL POWER REQUIREMENTS

460 VAC 3 PHASE, 40 AMP. (STANDARD)
230 VAC 3 PHASE, 65 AMP. (OPTIONAL)
575 VAC 3 PHASE, 35 AMP. (OPTIONAL)

MACHINE WEIGHT

PAYOFF 3,600 LBS.
ROLLER 19,500 LBS.

FLOOR CONDITIONS

CONCRETE FLOOR LEVEL MUST NOT EXCEED
1/4" PER 10FT. IN ALL DIRECTIONS



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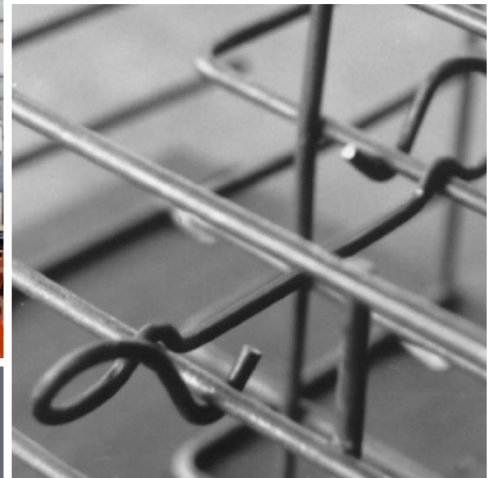


Hydra-Roll Wire Mesh Roller

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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