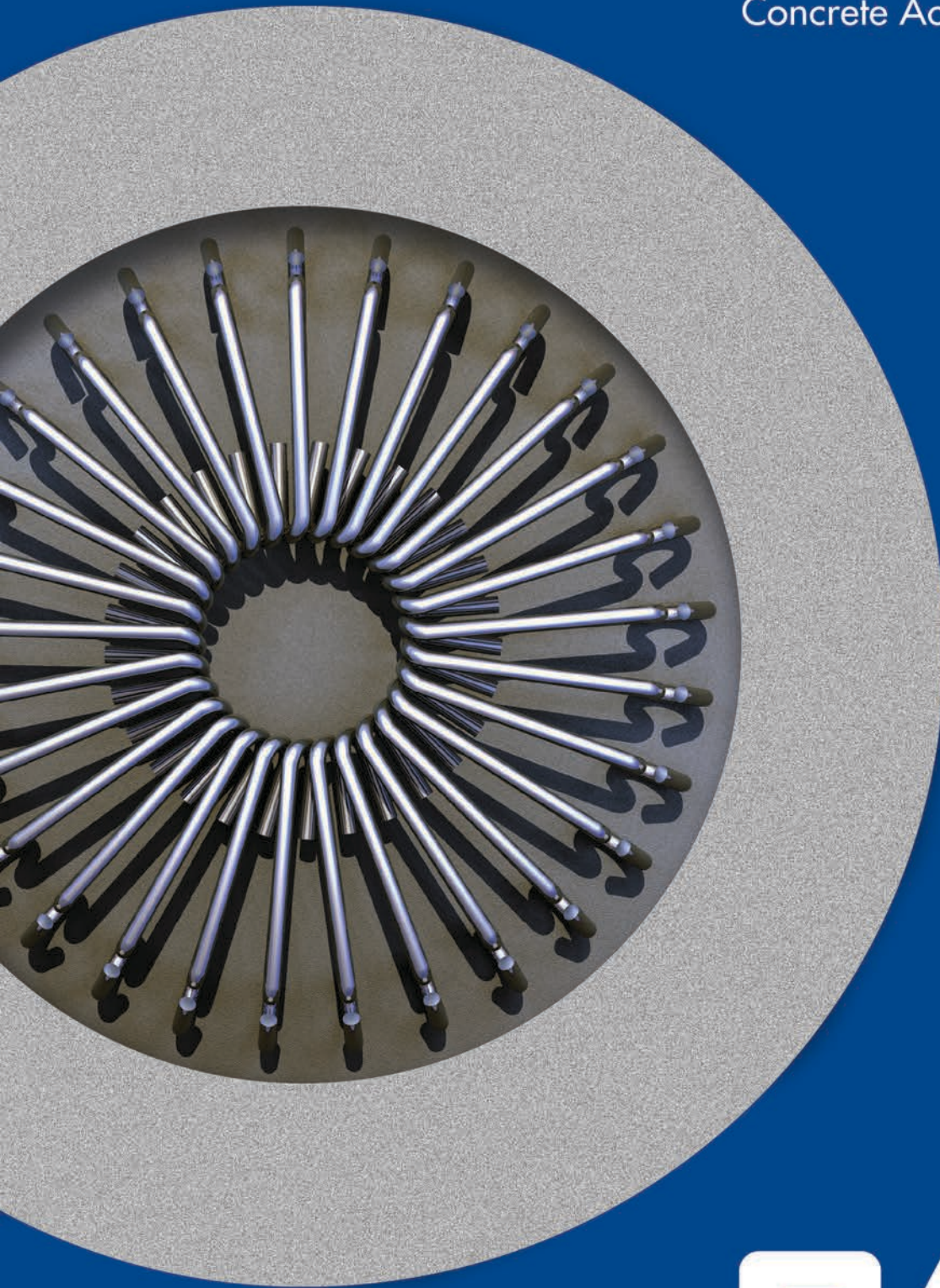


# Concrete Accessories Catalog



# CAM

## PRODUCTS

Part of the Afinitas family



CAM Sales, HawkeyePedershaab and Spillman have joined forces to create CAM PRODUCTS, a part of the Afinitas family. Our purpose is to offer the most comprehensive line up of accessory products and provide the best service to our customers. We have strategically positioned our warehouses throughout North America to provide next day service to many of our customers without the extra cost.

CAM PRODUCTS include:

- Stirrup Mats -Prefabricated Shear Steel Reinforcing for concrete pipe, box culverts and 3 sided concrete structures
- TangleFree Steel Spacers for single and double cage steel reinforcing positioning for all concrete applications
- Plastic Spacer Wheels, Pyramid and Slab Bolsters for all concrete applications including rebar
- Custom Wire Forming and new product development.

[www.camsales.com](http://www.camsales.com)

800-626-1451



**HawkeyePedershaab**  
Concrete Technologies Worldwide™



**NEW HAMPTON**  
Metal Fab

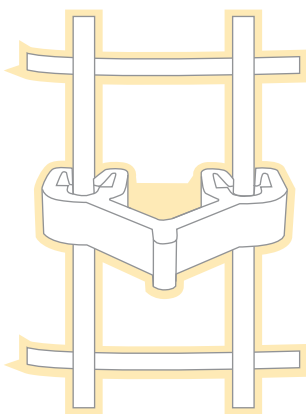
**Spillman**  
Where Concrete Ideas Take Form™

**CAM**  
PRODUCTS

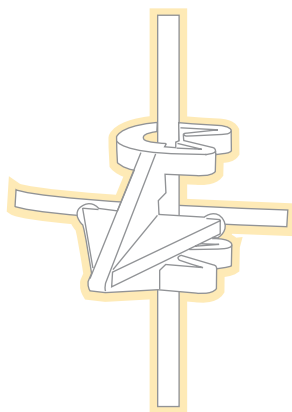
The Afinitas family of brands  
[www.afinitas.com](http://www.afinitas.com)

## Simple Installation

**Fas-V-Lok**  
For 2" and 3" Mesh.  
Patented interlock  
feature that "Locks"



**Pyramid-Lok**  
For Use With Welded  
Wire Fabrics and  
Spiral Cages



Use HawkeyePedershaab Pyramid-Lok, Fas-V-Lok and Wheel-Lok plastic spacers to position mesh reinforcement during concrete production. These durable, non-corrosive plastic spacers incorporate an interlocking feature that "locks" them in place.

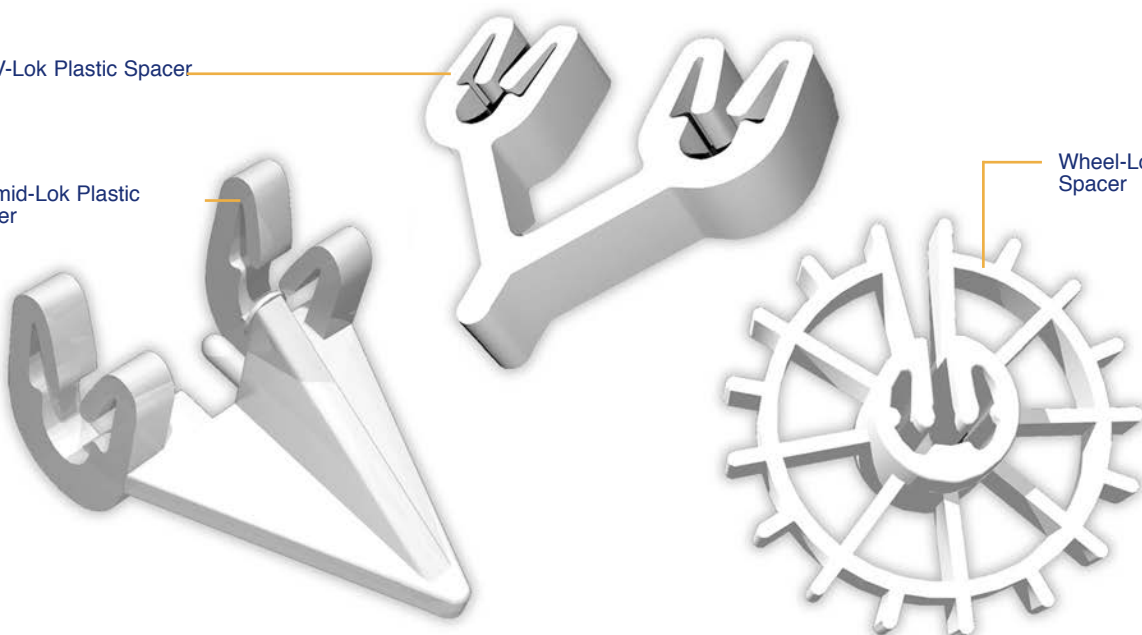
This system eliminates the movement of the spacer and helps prevent the reinforcement from shifting during production. The end result is a uniform concrete cover.

- Use with precast or poured-in-place structures (i.e. pipe, manholes, slabs, floors, wall panels, box culverts and more – anywhere mesh reinforcement is required)
- Interlock feature helps eliminate spacer movement to maintain constant mesh placement and uniform concrete cover
- Easy to use, tangle-free
- Virtually eliminates the rejection of product due to misplaced reinforcement – a tremendous cost savings!
- Easily snaps onto horizontal or circumferential wires
- More placement versatility than other spacing alternatives
- Made of durable non-corrosive, recycled plastic
- Safe to handle – eliminates handling injuries
- Wide variety of sizes available to provide concrete covers (in 1/4" increments)

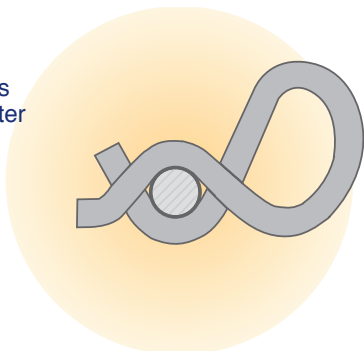
Fas-V-Lok Plastic Spacer

Pyramid-Lok Plastic Spacer

Wheel-Lok Plastic Spacer

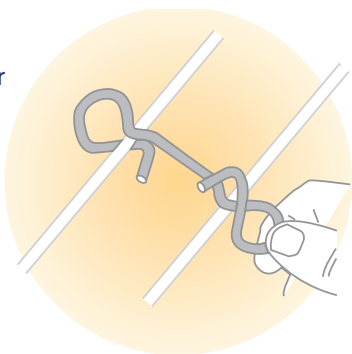


The Box-Lok holds both inner and outer lines with a full circle grip.

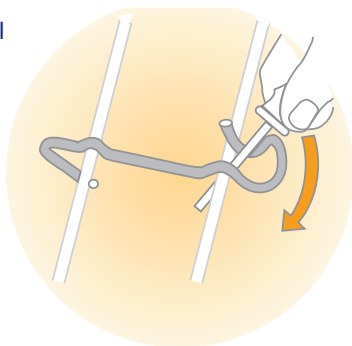


## Simple Installation

1. Loop either end of the Box-Lok spacer around the inner cage and then rotate 90° by hand



2. Insert the lever tool through unsecured end and under outer cage. Then pull down until the Box-Lok snaps into place.



Spacing loop assures accurate concrete cover. Different covers are available for a variety of applications.

Constructed of high-strength spring steel, the Box-Lok grips cages with a powerful torsion-lock. Prevents displacement and makes for strong, rigid cage assemblies. Heavy duty sizes available for larger wall thicknesses.

Generous radius forms "shoehorn" to guide form equipment when lowered past completed cages.

## Spaces reinforcement in box sections — with no welding required

The Box-Lok's special configuration tightly locks the inner and outer cages into an integral unit of reinforcement; and it spaces both cages from the form surfaces. Accurate. Fast to install. And absolutely no welding is required.

## Improve box quality

Welding can decrease the cross-sectional area or affect the tensile properties of your reinforcement. Since no welding is required, your reinforcement works at proper design strength.

## Two-way lock

Each end of the Box-Lok fully encircles and grips the circumferential wire to prevent cage movement in any direction. The Box-Lok automatically adjusts to different wire gauges for a tight fit every time.

The Box-Lok installs to the cage in seconds with a simple lever tool. First, place either end of the Box-Lok around the inner cage and rotate 90°.

Second, insert lever tool through the unsecured end and pull down, pivoting against the outer cage, until the Box-Lok snaps into place.

## Cut production costs

There's no need for welders or skilled laborers. Eliminate welding wire and wire ties. The Box-Lok installs in seconds. With Box-Lok cage fabrication costs decrease and output increases.

Standard sizes designed for wire diameters up to 3/8". Sizes for wire or re-bar diameters up to 3/4" or double mats also available.

Detents guide cages into position and accurately space them the proper distance.

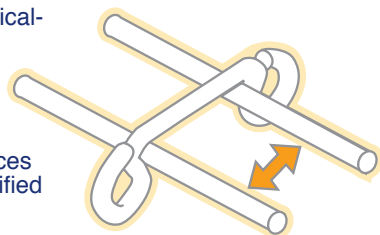
## Simple Installation

1. Place Box Section Spacer onto circumferential wires.

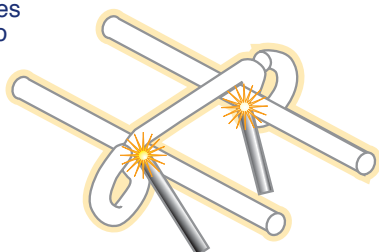


2. Spread cages against Box Section Spacer loops. This automatically

sets the distance between the cages and accurately spaces each cage from the form surfaces to achieve the specified concrete cover.



3. Weld Box Section Spacer to each cage. Cages are now locked into an integral unit of reinforcement and are spaced from each form surface.



"Loop-end contact" braces against crushing impact forces.

Large radius forms "shoehorn" to guide form equipment over or into the cage assembly to guard against form equipment snagging or damaging the cage assembly.

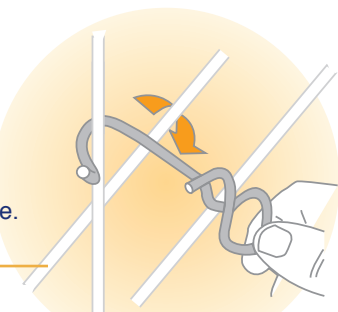
Spacer loops automatically space each cage 1" from both form surfaces for the proper concrete cover. Special covers are available on special order.

Generous radius permits a large contact area between the circumferential wire and the Spacer for an easy, strong fillet weld.

## Simple Installation

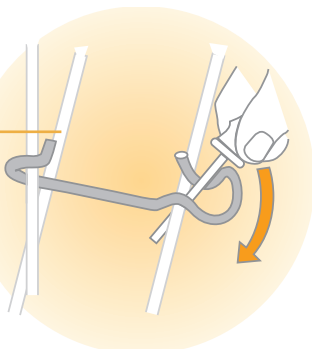
1. Hook Lever-Lok tail around inner cage longitudinal wire then snap the spacing eye over outer cage circumferential wire.

Inner Cage



Inner Cage

2. With the end of the Lever-Lok tool bearing against the circumferential wire pull down. When the offset hook is under the circumferential wire, release tool. The Lever-Lok will lock into position.



Dependable, double-lock grip



## Positively positions double cage reinforcement!

HawkeyePedershaab's patented lever-applied locking technology brings a new dimension in spacing performance to double cage concrete pipe. Unlike conventional spacers, the performance of the Lever-Lok is not dependent on the accuracy of the rolled cages. You get dependable and positive cage placement in the toughest applications.

## Dependable, double-lock grip!

The Lever-Lok surrounds the vertical of the inner cage and encircles the circumferential of the outer cage. When applied to the cage, the Lever-Lok clamps to each cage under constant spring tension. Movement of the inner and outer cages is completely restricted.

## Simple to install!

The Lever-Lok installs to the cages in seconds with a simple lever tool. Place the non-spacing end of the Lever-Lok around the longitudinal wire of the inner cage and rotate 90°. Insert the lever tool through the spacing end and pull down, pivoting against the outer cage, until the Lever-Lok snaps into place.

## Improves pipe quality!

Dislodged spacers disturb cage placement which can reduce pipe strengths and expose the reinforcing steel. The Lever-Lok's patented design assures a tight fit for dependable performance under the toughest conditions.

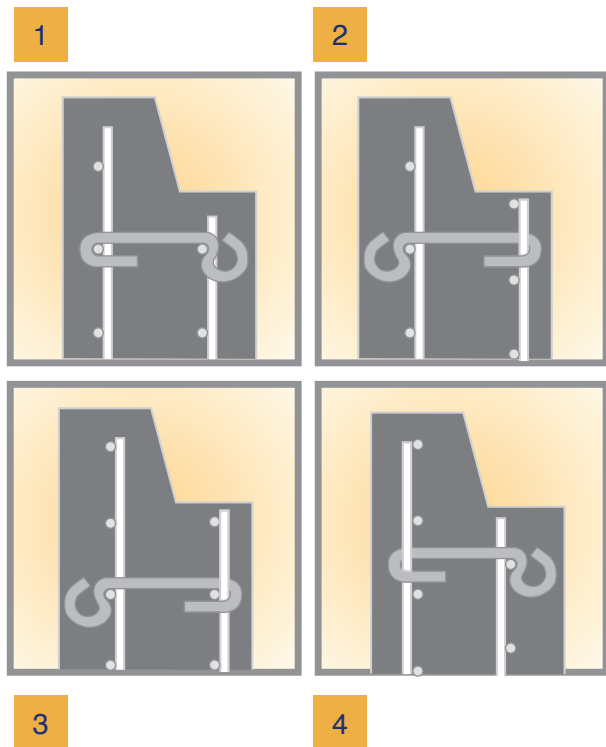
Standard sizes available for a wide range of B and C wall thicknesses.

Circumferential wire of inner cage is surrounded to restrict cage movement in both directions.

Special detents hold spacer in position until lever-locked.

Spacing end assures the required ASTM 1" of concrete cover. 1 1/4" cover also available.





## Automatically spaces double cage reinforcement

The Spa-Stir automatically locks two cages into an integral unit of reinforcement and spaces from a single form surface to achieve the proper concrete cover. No welding, cutting, bending, or skilled labor is required. Just snap the Spa-Stir into place and it is securely locked.

## Improves pipe quality

When used as a spacer, the Spa-Stir's stirrup action resists pipe shear and tensile stresses at critical locations and increases pipe strength with no extra material costs. Also, locking two cages into one unit with the Spa-Stir increases pipe stability and reduces fall-out after stripping.

## Versatile

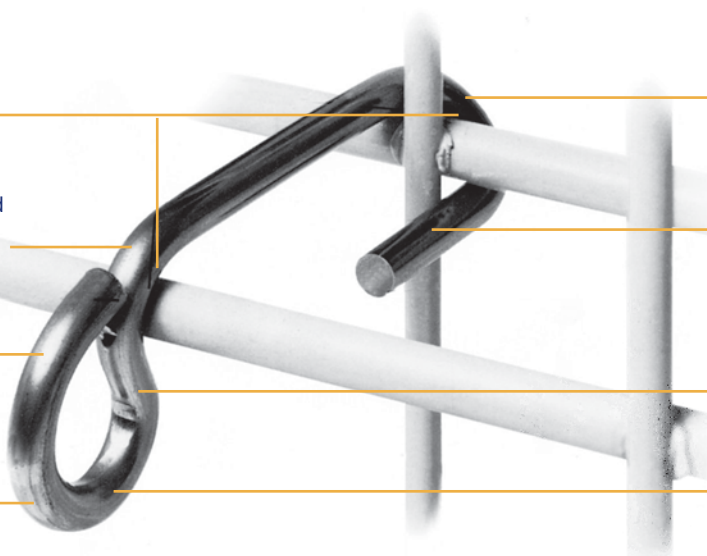
The Spa-Stir is easily used with most manufacturing processes... vibration, packerhead, wet cast, and others. In applications such as wet cast, elliptical cage in round pipe, and elliptical pipe production; the high strength of the Spa-Stir fits any circumferential wire spacing and all wire diameters up to 1/2". A full range of sizes for both B Wall and C Wall concrete pipe are stocked for immediate shipment. Special sizes are available on request. The versatility of the Spa-Stir is illustrated at the left. The Spa-Stir [illustration #1](#) contacts the jacket and is locked to the circumferential wires of each cage. The 45° twist on the Spa-Stir's hooked end allows the Spa-Stir to be locked to a longitudinal wire [illustration #2](#) or the intersection of a vertical and circumferential wire [illustration #3](#) for maximum strength. In packerhead applications, the Spa-Stir [illustration #4](#) positively centers the outer cage in the jacket while the inner cage is locked to the outer cage.

Bearing radii on both ends designed to permit use on full range of wire sizes.

Detent designed to assure positive lock when snapped into place. Keeps cages locked into one unit during handling and placement into forms.

"Loop-end contact" braces against crushing loads

Large radius forms "shoe horn" to guide form equipment when lowered past completed cages.



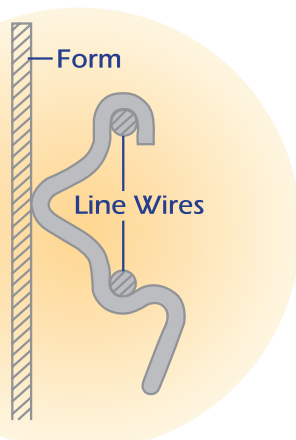
45° twist on hook end allows interchangeable use on both circumferential wires or longitudinal wires.

Extra long hook end designed for anchorage requirement of stirrup application. Also prevents unlocking if struck by form.

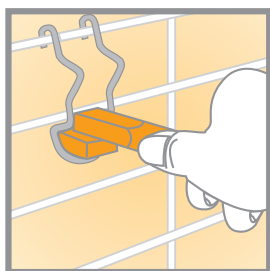
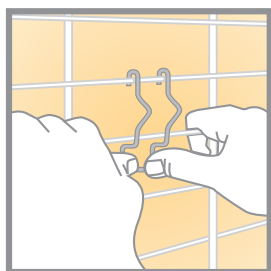
Accurate spacing loop assures 1" concrete cover as required in most specifications. Other covers are available on special order.

Generous "shoe horn" assures easy installation of Spa-Stir by gently compressing mesh to proper locking tension.

For light and medium cages, hand installation of the Maxi-Jax is normally possible. For heavy cages, a lever is applied to the loop and cage circumferential wires to snap the Maxi-Jax locking jaws into place.



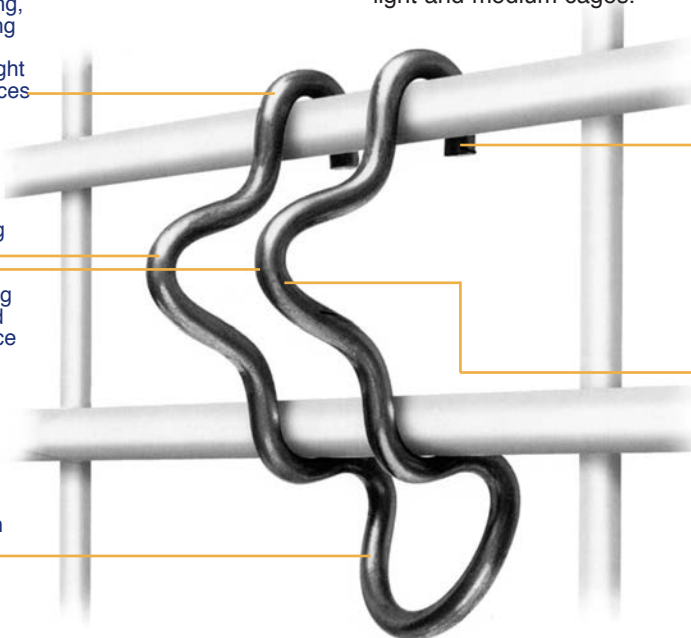
## Simple Installation



High strength spring steel wire construction. Resists crushing, buckling, and bending. Spring steel constantly clamps the circumferential wires for a tight fit that resists the impact forces associated with large pipe production.

Wide stance, double bearing area for extra strength and stability. Withstands the twisting forces created during the packerhead process and provides increased resistance to crushing impact forces.

Built-in loop for lever tool installation onto heavy cages. Lever tool pries the Maxi-Jax onto the cage for an extra tight, spring tension lock. Provides the staying power required for large pipe production.



Extra long hooked ends with a generous radius to fully wrap and securely fit heavy gauge wires. Guards against spacer popping or twisting off when struck or slid over packerhead jacket splices. Note: Also available with hooked ends that fit larger diameter wire or layered cage assemblies.

Unique "V" shape distributes impact forces directly into the circumferential wires to withstand forces that normally would spread or pop other spacers off the cage. The inclined surfaces also guide or "shoe-horn" the form equipment over or into the cage assembly to guard against form equipment snagging or damaging the cage.

## Built to space the toughest jobs

Maxi-Jax is the maximum strength spacer. The spacer so strong that it can be used in applications that used to require costly-to-install weld-on spacers.

Use the Maxi-Jax with all production methods. Even such demanding applications as centrifugally spun or pre-bed concrete pipe. It will economically space steel in such products as large diameter concrete pipe; arch; elliptical; pre-bed products; and round pipe with elliptical cages. Use Maxi-Jax in any application that requires a maximum strength spacer.

With a range of sizes in stock for immediate shipment to fit 2", 3" and 4" mesh spacings and a variety of concrete covers, the Maxi-Jax makes difficult spacing jobs...a snap!

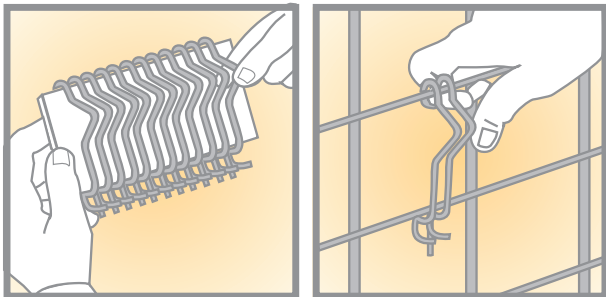
## The spacer strong enough for lever installation

The Maxi-Jax is so strong and develops such a powerful locking force on heavy cages...that a special loop has been built into the Maxi-Jax so a lever tool can be used to snap the Maxi-Jax onto the cage. (Hand installation without the lever tool is normally possible for light and medium cages.)

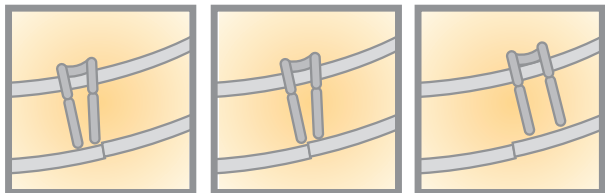
## Easy Installation

To install, the Maxi-Jax is hung from the upper circumferential wire and a lever tool is inserted into the built-in loop. By moving the lever tool downward, the cage circumferential wires are slightly deflected and the Maxi-Jax's locking jaws open and move inward until the spacer snaps onto the cage with a powerful locking tension. The generous radius on the lower locking jaw allows hand installation without lever assistance on light and medium cages.

## Simple Installation



For fast installation, E-Z Klip spacers are prealigned and packaged on convenient handling strips. The E-Z Klip snaps on by hand. No tools, cutting, or welding is required.



During cage twist, uneven packerhead jacket splices often snag and dislodge conventional spacers. The E-Z Klip's two-leg design and rounded edges permit each leg to ride over the splice in its turn while the other leg continues to space the reinforcement.



## Economically spaces reinforcement in pipe, manholes, and other products

The E-Z Klip is a low cost reinforcement spacer for small and medium diameter concrete pipe, manholes, and other reinforced concrete products. It's simple to use. Locks tightly to a variety of reinforcement sizes. And it's especially designed for use with the vibration, packerhead, and wetcast production methods.

## Fast and easy installation

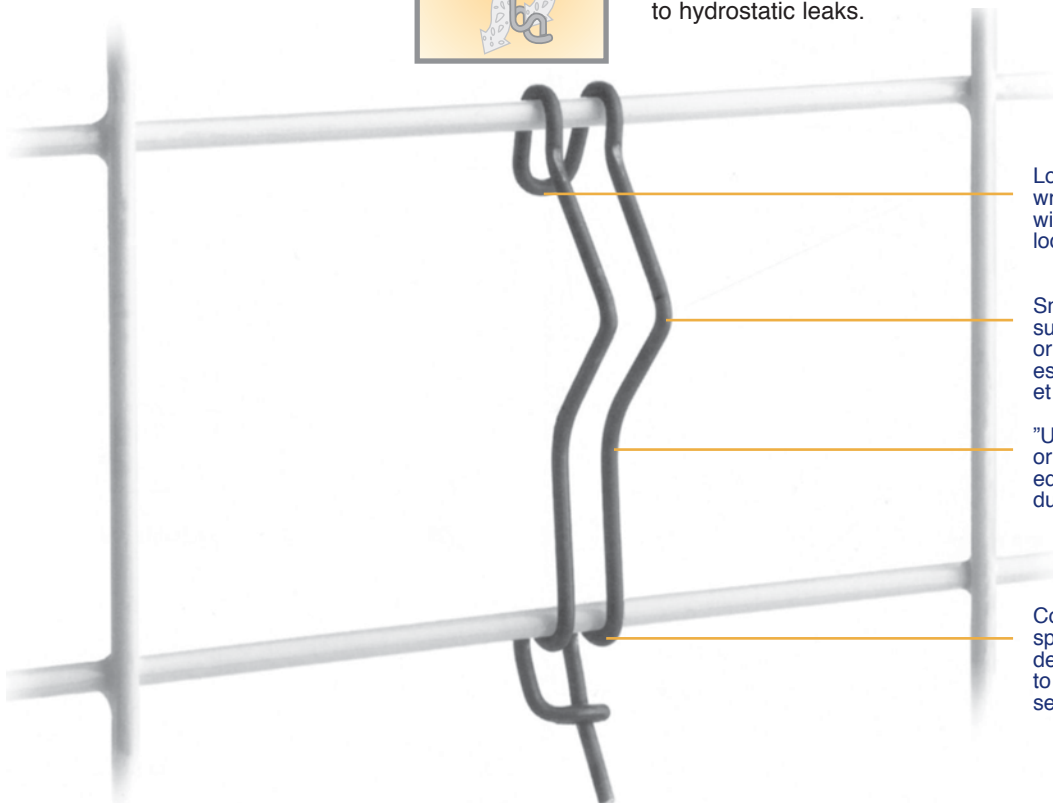
To space reinforcement, simply snap the E-Z Klip onto the cage. No welding, cutting, or bending is required. Unskilled personnel can easily do an accurate and reliable spacing job. Sizes are available for spacing to a variety of concrete covers.

## Resists twisting and pop-off

Constructed of high-strength spring steel wire, the E-Z Klip tightly locks to reinforcement with a constant spring-tensioned grip. Additionally, the Klip's smooth, rounded dual bearing surfaces glide over form surfaces and uneven jacket splices.

## Better hydrostatics and surface appearance

The E-Z Klip's spring steel configuration resists inward deflection and distortion. There's no wide band to popout after stripping and cause surface bulges or cracks. The E-Z Klip's slim profile permits virtually unrestricted concrete movement. There's no wide band to block flow and create voids that lead to hydrostatic leaks.



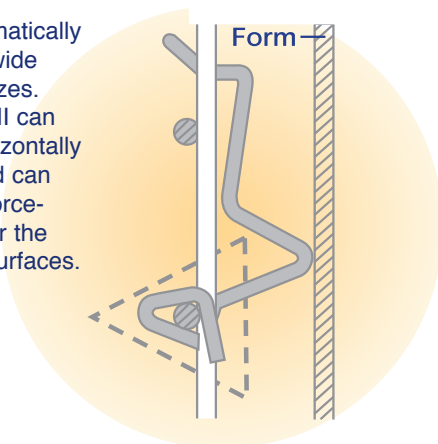
Long hooked ends securely wrap around circumferential wires. Resists pop-off or dislodgement of spacer if twisted.

Smooth, rounded spacing surfaces. Prevents gouging or scarring of inner form surfaces and glides over uneven jacket splices.

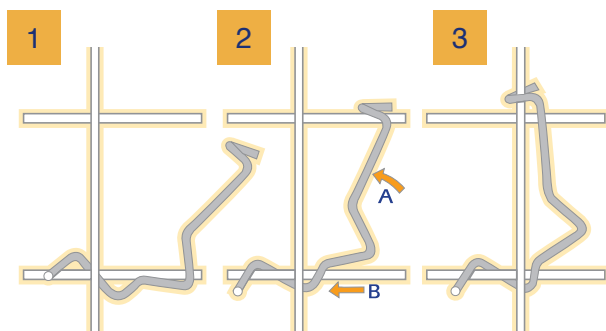
"U-Shaped" configuration guides or "shoehorns" cages past form equipment to prevent snagging during form assembly.

Constructed of high strength spring steel wire. Resists inward deflection and tightly clamps to circumferential wire for a secure fit.

Delta grip automatically adjusts to fit a wide range of wire sizes. The SpeedKlip II can be installed horizontally or vertically, and can space the reinforcement from either the core or jacket surfaces.



## Simple Installation



## Spaces reinforcement in pipe, manholes, and other products

The SpeedKlip II is used to position reinforcing cages and mesh in concrete pipe, manholes, and other precast products. The SpeedKlip II quickly attaches to the reinforcement with a simple twist lock and spaces the reinforcement from the form surface to the desired concrete cover.

## Fits all spacings and gauges

The SpeedKlip II's unique circumferential wire to longitudinal wire locking principle allows just one size of SpeedKlip II to fit all mesh spacings...2", 3", 4", 6", even spiral cages and the SpeedKlip II automatically adjusts to different wire diameters for a tight secure fit. With the SpeedKlip II, there's no need to inventory spacers for different mesh spacings and wire gauges.

1. Place the SpeedKlip II in firm contact with the cage at the intersection of the circumferential wire and the longitudinal wire. The spacing "V" points toward the form surface.
2. Pivot lever (A) and slide against longitudinal wire (B). The SpeedKlip II will now be firmly gripping circumferential wire.
3. Lock lever to the longitudinal wire. SpeedKlip II is now firmly locked into position.



Longitudinal wire to circumferential wire lock fits any wire spacing, including spiral cages.

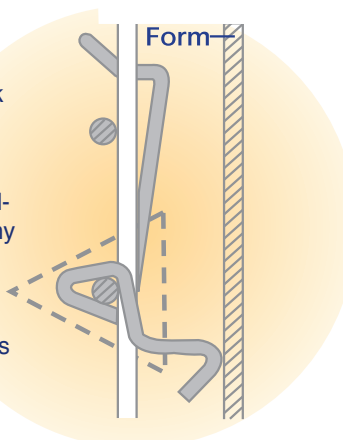
High strength spring steel plus long locking lever gives a counter force bracing principle to assure positive lock-on...virtually impossible to dislodge.

"V-shaped" spacing jack provides accurate spacing from surface. Smooth, rounded shape insures a smooth contact point at the form surface and helps prevent jacket scratches. Spacing jack lengths are available for different covers.

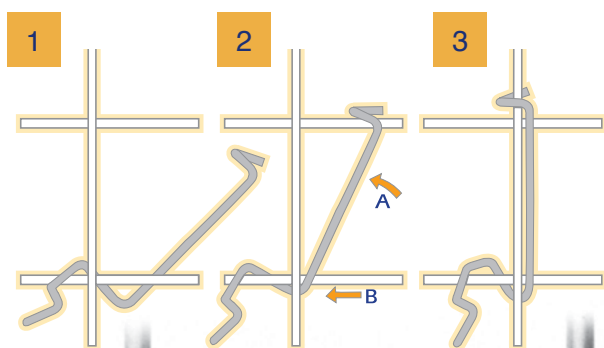
Delta shape, plus spring steel provides spacing jack with a "roll-with-the-punch" feature — absorbs the shock when accidentally struck by form equipment and springs back into spacing position.

The Ca-Jax II attaches with a fast, easy twist lock — no welding, tying, cutting, or bending.

The delta grip automatically adjusts to tightly grip any wire size. The rounded spacing jack insures a smooth contact point at the form surface, improves hydrostatics, and helps prevent jacket scratches.



## Simple Installation



## Available for regular or heavy duty

The Ca-Jax II is available in two styles to cover a wide range of job applications. The Ca-Jax II regular duty Ca-Jax fits wire diameters up to 3/8" and is used in such applications as small and medium diameter concrete pipe and manhole products. The Series M heavy-duty Ca-Jax fits wire diameters up to 1/2" and is used in heavier applications such as large diameter concrete pipe and large reinforced-concrete products.

## Spaces reinforcement in pipe, manholes, and other products

The Ca-Jax II is used to position reinforcing cages and mesh in concrete pipe, manholes, and other precast products. The Ca-Jax II quickly attaches to the reinforcement with a simple twist lock and spaces the reinforcement from the form surface to the desired concrete cover.

The small diameter, high strength spacing jack is offset to clear both the circumferential wire and the longitudinal permitting unrestricted compaction of concrete around the jack. This compaction is necessary to prevent voids which can cause leakage.

## Fits all spacings and gauges

The Ca-Jax II's unique circumferential wire to longitudinal wire locking principle allows just one size of Ca-Jax II to fit all mesh spacings...2", 3", 4", 6", even spiral cages and the Ca-Jax II automatically adjusts to different wire diameters for a tight secure fit. With the Ca-Jax II. There's no need to inventory spacers for different mesh spacings and wire gauges.

1. Place the Ca-Jax II in firm contact with the cage at the intersection of the circumferential wire and the longitudinal wire. The spacing jack points toward the form surface.
2. Pivot lever (A) and slide against longitudinal wire (B). The Ca-Jax II will now be firmly gripping the circumferential wire.
3. Lock lever to the longitudinal wire. The Ca-Jax II is now firmly locked into position.

Longitudinal wire to circumferential wire lock fits any wire spacing, including spiral cages.

High strength spring steel plus long locking lever gives a counter force bracing principle to assure positive lock-on...virtually impossible to dislodge.

Delta shape, plus spring steel provides spacing jack with a "roll-with-the-punch" feature — absorbs the shock when accidentally struck by form equipment and springs back into spacing position.

Direct force bracing of the jack assures accurate spacing from the outside surface of all diameter wires. Spacing jack lengths are available for most concrete covers, standard or special.

Small diameter, high strength jack is offset to clear both the circumferential wire and wire permitting unrestricted compaction necessary to prevent voids which can cause leakage.

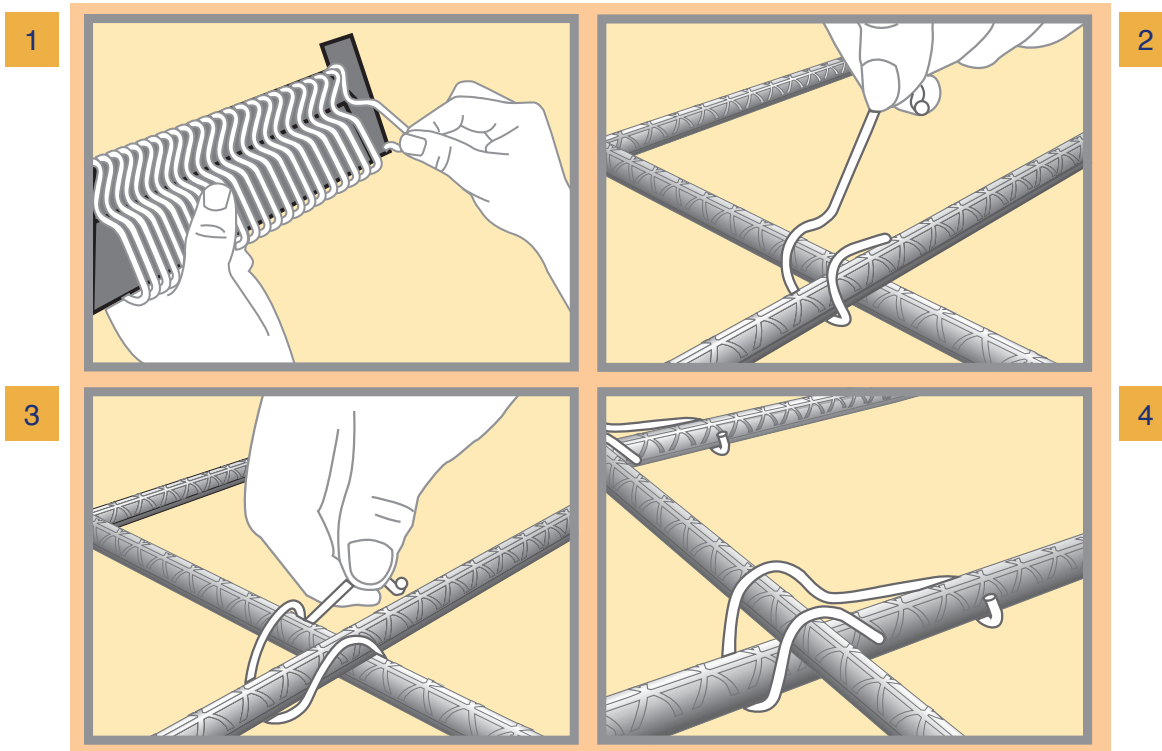
## Tying re-bar is a snap

The Snap-Lok permits re-bar to be fastened quickly and efficiently...just snap it on. Its spring steel construction tightly binds the re-bars together. With Snap-Lok, unskilled labor can simply and effectively tie re-bars and construct stable re-bar assemblies.

## In-stock availability

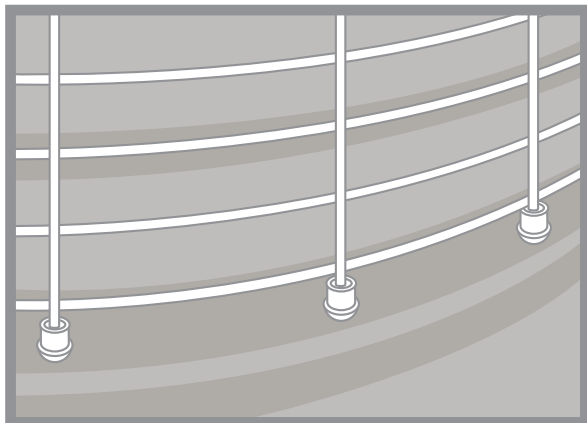
The Snap-Lok is available in different sizes for tying any combination of #3, #4, #5 and #6 re-bar. Sizes are in stock for immediate shipment.

### Simple Installation



Snap-Lok quickly wraps around crossed re-bars and snaps into place.

Snap-Lok's spring steel construction leverages bottom re-bar against top rebar with constant pressure — no matter what stresses are being applied to overall re-bar assembly.



## Prevents exposed steel

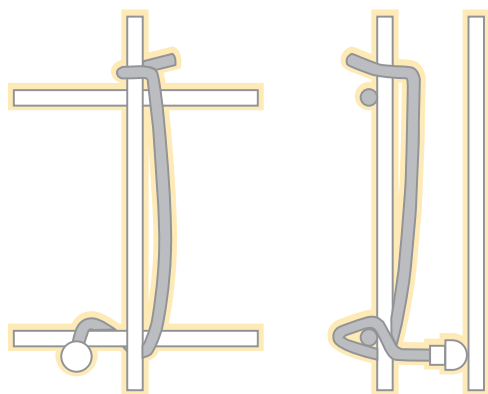
HawkeyePedershaab Plas-Tips are polyethylene tips that quickly press-fit over the ends of vertical reinforcement wires or spacers to prevent the exposure of steel in concrete products. Plas-Tips are used when specifications do not permit the exposure of any steel ends; or in applications such as architectural products where surface rust stains caused by exposed steel would not be desirable.

## Use on vertical reinforcement wires

Plas-Tips are often used in concrete products to cap the ends of the circumferential wires on reinforcement cages. The Plas-Tips are used where the circumferential wires contact the bottom pallet. Various sizes of Plas-Tips are available to fit different wire gauges.

## Use on Spacers

When specifications require it, Plas-Tips can be used to cap the end of M-Series HawkeyePedershaab Ca-Jax reinforcement spacers. This prevents the exposure of any steel contact at the product surface. Plas-Tips can also be used to cap wires that are welded to the cage for spacing purposes.



### Style B

Fits wire sizes from .177",  
.192", .207", .225", .262",  
and .2306"

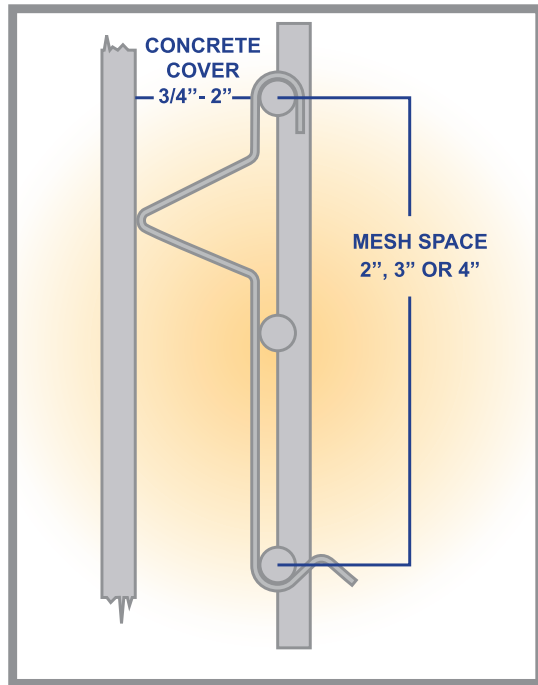
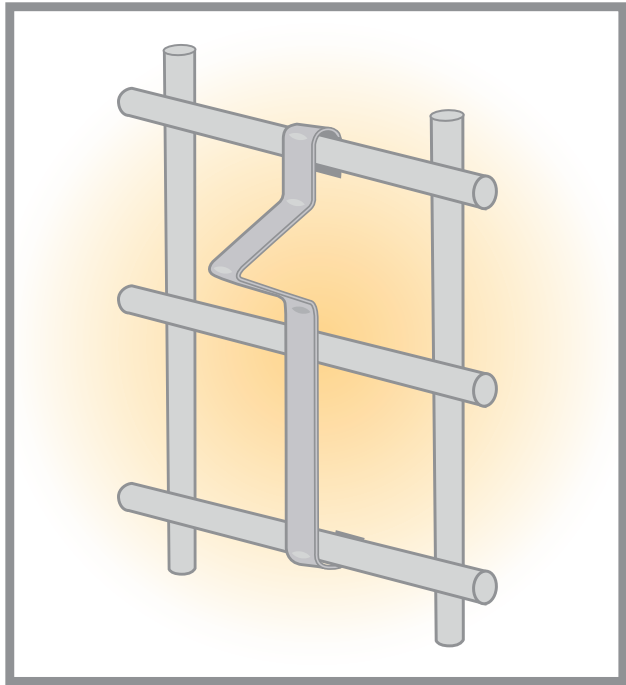
### Style C

Fits .225", wire sizes  
.375", .438" and .500"

### Style A

Fits wire sizes .188",  
and .250",





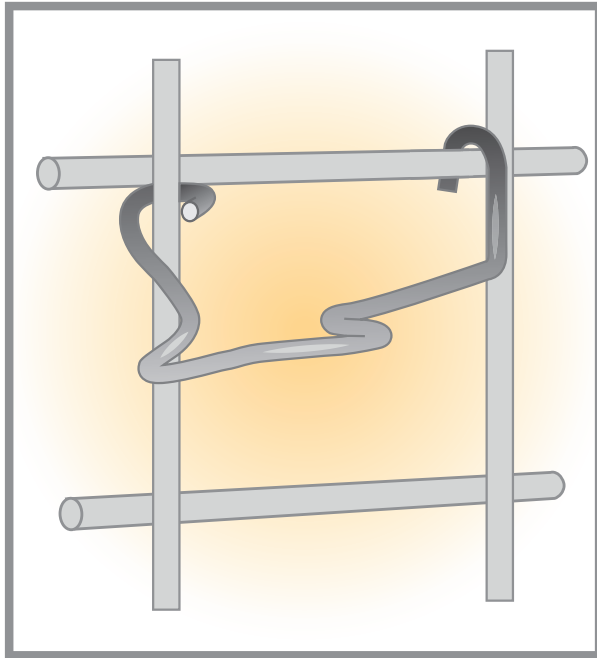
### Proven Steel Press Lock Spacer

2" Mesh Size Available Cover Sizes to 2"

Product Features:

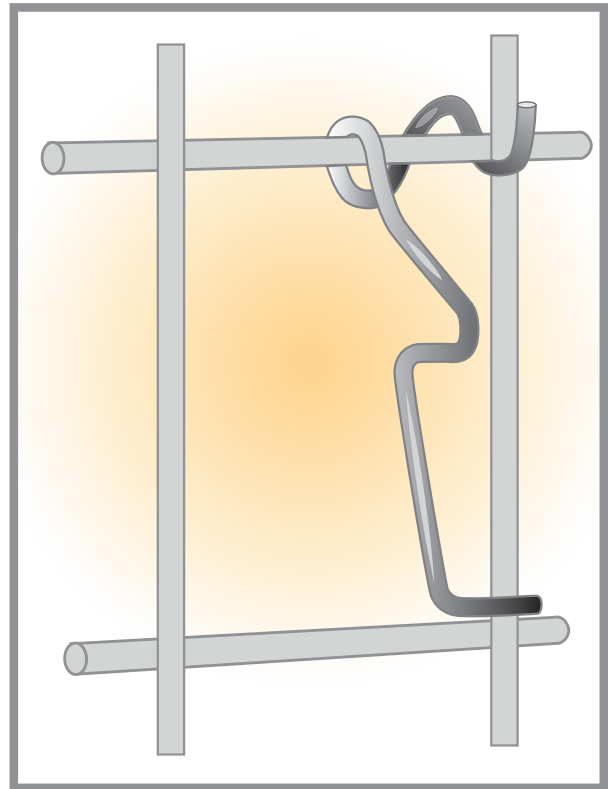
Product Part: SP

- For 2", 3" & 4" Mesh
- Cover 3/4" to 2"
- 2" mesh size!
- Reliable standard for spacing
- Will not vibrate off
- 3/8" spring steel
- No special installation tools required
- In stock for immediate delivery



Ideal for Spiral Cages and Manholes

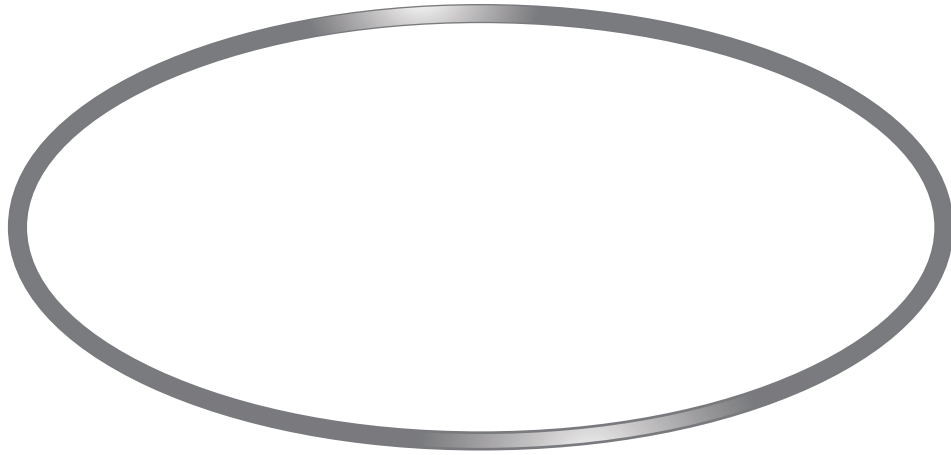
*Versatile Single Cage  
Any Size Mesh*



Product Features:

Product Part:

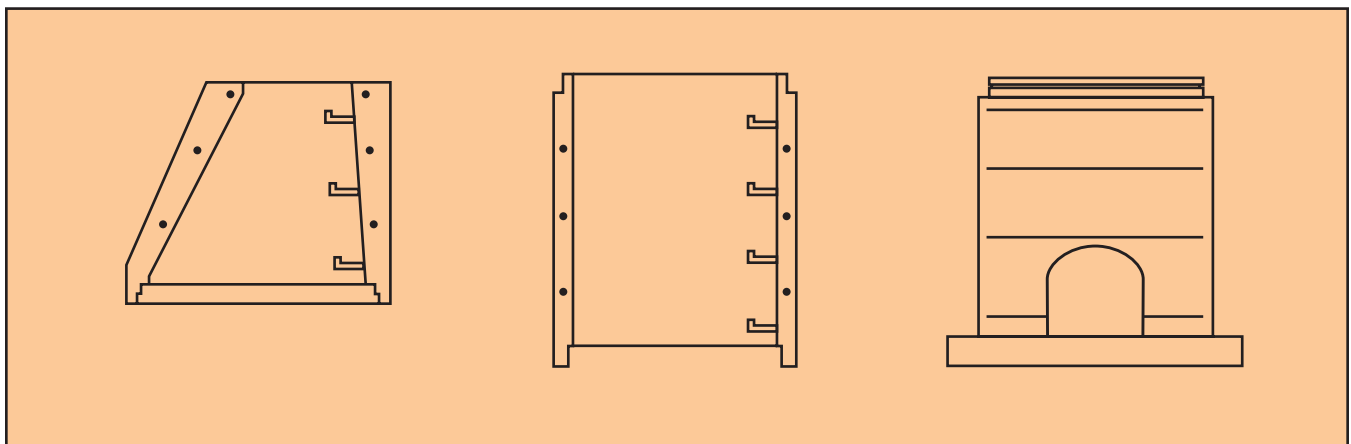
- Regular Duty 9 Gage Wire: TLRD
- Heavy Duty 6 Gage Wire: TLHD
- Cover 1/2" to 4"
- Extremely Versatile
- Can be used on all wire spacing
- No special installation tools required
- Reduce inventory requirements as not mesh spacing dependent
- Available Galvanized and Epoxy Coated
- Installs horizontally or vertically
- Will not vibrate off

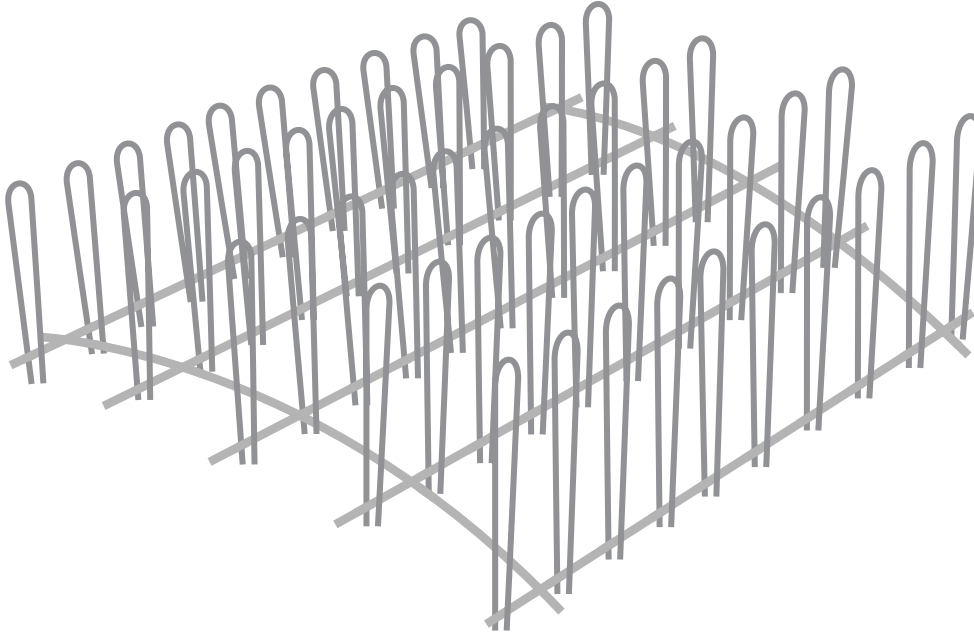


### Next Generation Reinforcing for Manhole Components

Product Features:

- Heavy Duty ASTM A-82 Brite Basic Wire
- Precision high quality manufacturing to exact tolerances for automatic process
- Shipped in convenient storage crates
- Cost Effective! Time and labor Saver!
- Many sizes in stock ready to ship
- Exceeds all form specifications
- Strong precision weld





### Shear Steel Stirrup Mats

*Ideal for Spiral Cages, Cost Effective and Time & Labor Saver*

**Product Features:**

Available For: Pipe, Box Culverts, Elliptical

- 200% Mechanical Bond Increase
- Easy Installation Pre-Fabricated Mats
- Design assistance available for pipe and box culverts at No Charge
- Helical mats will match any cage design or spacing, including spiral cages
- Versatile—Adapts to any cage configuration for concrete pipe or boxes
- Positive placement of shear members
- Great resistance to pull out
- Lock Rods Available

Engineered for each concrete pipe, box culvert, or precast structure application.

The CAM Stirrup Mat is the shear steel solution for cage machine cages, manufactured with a helical pitch to match your spiral cage.



Part of the Afinitas family

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