

### 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

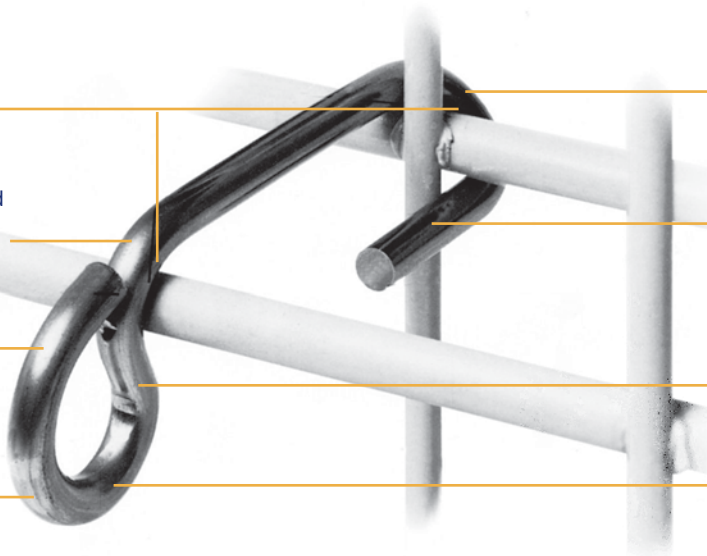
The Spa-Stir is easily used with most manufacturing processes... vibration, packerhead, wet cast, and others. In applications such as wet cast, elliptical cage in round pipe, and elliptical pipe production; the high strength of the Spa-Stir fits any circumferential wire spacing and all wire diameters 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.