



PIVOT BOOM SYSTEM

MECHANIZED IRRIGATION

Lower Application Intensity, Reduce Wheel Tracking,
Minimize Runoff and Surface Soil Compaction

Boom System Pivot



Constructed primarily of light-weight aluminum channel and tubing, the Senninger boom provides a corrosive-resistant system ideal for lowering application intensity on overhangs (above) and towers (below) by widening the wetted area.



The Senninger Double Barb Gooseneck attaches to the 3/4" x 4" galvanized nipple through a pre-drilled hole in the aluminum channel into an existing outlet.



The Senninger Hinged Hose Holder clasps around the flexible hose and snaps into the aluminum tubing to protect it from kinking and wear.

Lower Application Intensity

The Senninger Boom System lowers the application intensity by providing a large area of instantaneous coverage. Water applied to a larger area allows the soil to absorb it at a slower rate. This preserves the soil structure, reduces soil compaction, soil sealing and runoff.

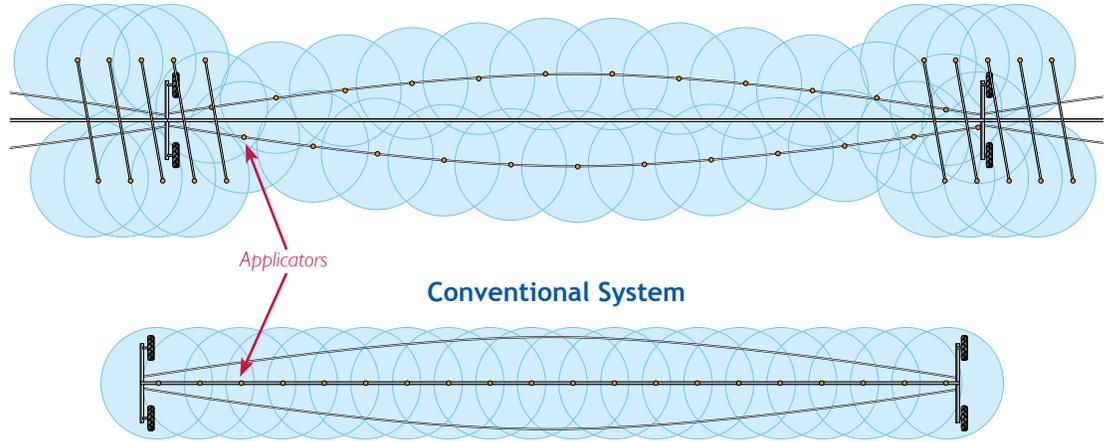
FEATURES AND BENEFITS

- **Simple, Effective Design:** The 24 ft. (7.3m) overall boom length utilizes existing outlets to apply the same amount of water over a wider application area.
- **High Profile Clearance:** Complete boom is level with the top of the mainline, keeping the structure clear of high profile crops like corn and sugar cane.
- **Strength & Durability:** Constructed of strong structural aluminum extruded channel coupled with 1.5" diameter aluminum tubing, cast aluminum saddle with galvanized and stainless steel hardware.
- **Light-weight Design:** Heavy duty construction in a light-weight package, weighs 23 lbs. (10.43 Kg) - boom and hardware.
- **Quick and Easy Installation:** Components are pre-cut, pre-drilled and packaged with step-by-step instructions. Installs using readily available tools.
- **Mounting Options:** Boom system is compatible with various diameter mainlines. Locking pins allow versatility of adjusting boom angle. Designed specifically for use on overhangs and towers.
- **Uniquely Designed Components:** Specifically for this application. Patented thermoplastic double gooseneck and hinged hose holder are warranted for two years. Channel and tubular suspension arms provide lightweight strength and durability. Galvanized, stainless steel and aluminum hardware and components combat corrosion.

Pivot Lower Application Intensity

System Comparison

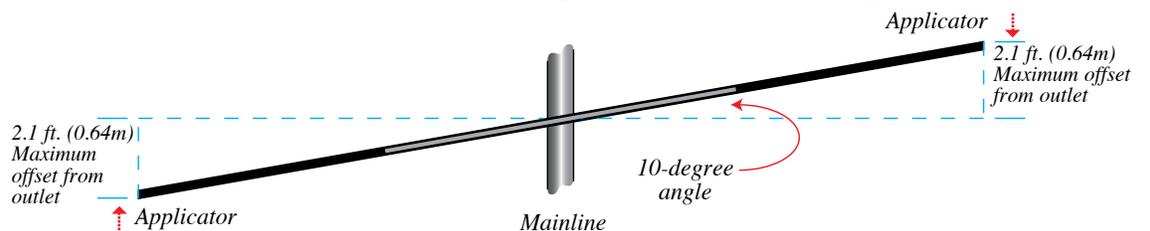
Senninger Boom System (With Truss Rod Hose Slings)



The number of Boom Systems needed on the overhang and at towers will vary based on overhang length, system design and management practice. Booms installed at the towers and on overhangs help reduce rutting.

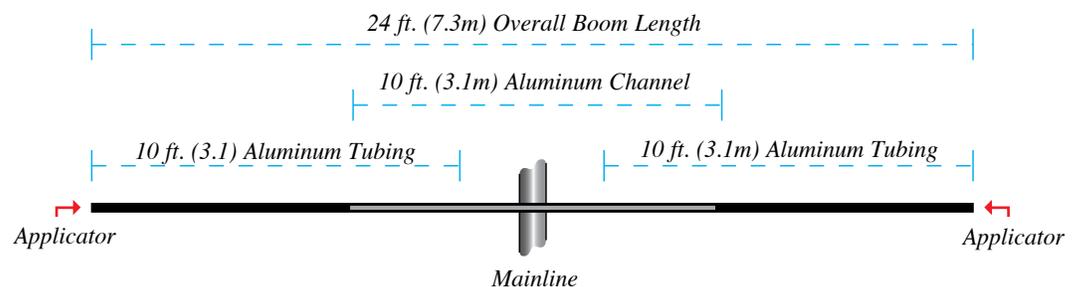
Illustrations above indicate use of Senninger Truss Rod Hose Slings to widen wetted area along the length of the pivot.

Overhead View: Angled Boom Mounting

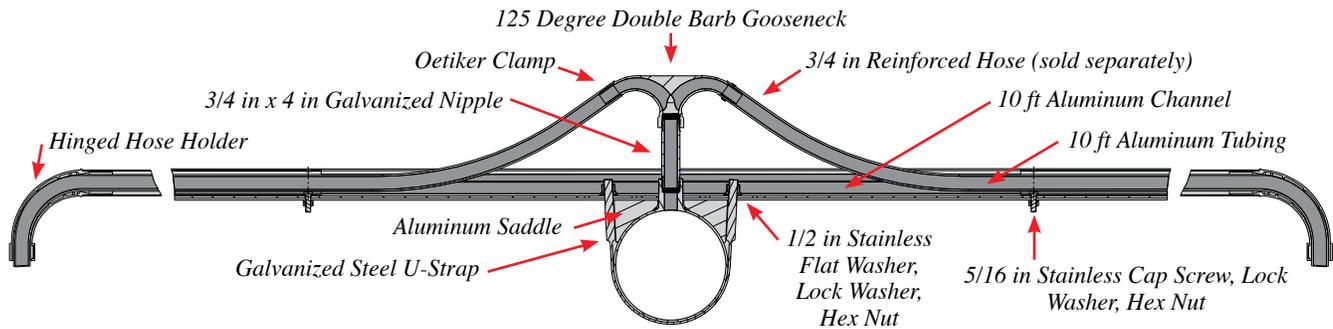


Angled mounting provides maximum total of 4.2 ft. (1.28m) offset of applicators to further lower application intensity.

Overhead View: Perpendicular Boom Mounting



Components & Installation Pivot



Aluminum Channel and Tubing Kit

10 ft. (3.1m) Aluminum Channel	(1)
10 ft. (3.1m) Section 1.5" Aluminum Tubing	(2)

Hardware Kit

Aluminum Saddle, choice of 4", 5", 5-9/16", 6", 6-5/8", 8" or 8-5/8"	(1)
Galvanized Steel U-Strap, choice of 4", 5", 5-9/16", 6", 6-5/8", 8" or 8-5/8"	(1)
3/4" x 4" Nipple, galvanized	(1)
125-Degree Double Barb Gooseneck, thermoplastic	(1)
Hinged Hose Holder	(2)
5/16" x 1" Stainless Hex Head Cap Screw	(2)
5/16" Stainless Lock Washer	(2)
5/16" Stainless Hex Nut	(2)
1/2" Stainless Flat Washer	(2)
1/2" Stainless Lock Washer	(2)
1/2" Stainless Hex Nut	(2)
1/8" Alignment Pin	(2)
Oetiker Hose Clamp	(2)

Installation Guidelines

- 1 Place aluminum channel on supports with open side up. Slide aluminum tubes inside channel and align hole on each tube with holes in the channel.
- 2 Insert one 5/16" x 1" stainless steel cap screw from inside tube through channel. Add lock washer and nut. Repeat on other tube. Tighten both nuts securely with 1/2" wrench.
- 3 Slide 3/4" flexible hose through tube, leaving one end about 6 ft. (1.83m) past the middle and the other end hanging out the far end about 10 ft. (3.1m) - depending on desired height of applicator. Repeat hose insertion on other side.
- 4 At the far end of aluminum tube, lock plastic 90-degree hinged hose holder around flexible hose. Insert larger end into the tube, rotating until buttons lock in place, being sure the hose hangs down. Repeat at other end of the metal tube.
- 5 Up on the pivot mainline, remove anything from the outlet selected for boom placement. Assure 3/4" pipe threads are clean.
- 6 Place the proper size aluminum pipe saddle over the outlet.
- 7 Place pipe strap under mainline and up around the saddle.
- 8 Raise the prepared boom assembly up over the mainline and set onto the saddle, with the center hole directly over outlet in the mainline.
- 9 Place 1/2" flat washer, lock washer and nut onto each leg of the pipe strap. Snug down nuts, but do not tighten.
- 10 Install threaded pipe nipple into outlet on mainline and tighten.
- 11 If boom alignment is to be other than perpendicular to the mainline, angle the boom as desired and drive both 1/8" locking pins into place, forcing knurled end into saddle.
- 12 When the boom is level, tighten the pipe strap nuts very snugly with 3/4" deep socket and ratchet wrench.
- 13 Attach Senninger 125-degree Double Barb Gooseneck onto pipe nipple. Tighten snugly.
- 14 Attach drop hoses to gooseneck. Secure with hose clamps.
- 15 Attach applicators to flexible hose ends at uniform desired height from the ground.

Boom System does not include: 3/4" reinforced hose, applicators, pressure regulators or drop fittings.

Tools needed (not provided): 1/2" Wrench; 3/4" Deep Socket & Ratchet Wrench; Hose Cutter; Hammer; Channel Locks; Hose Clamp Crimping Tool; Level

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