

# HOG TIE® MILLHOG®

Boiler Tube Weld  
Alignment Clamp

## Aligns boiler tube ends for welding

### Key Features

- Aligns tube ends quickly for tube joint tack welding
- Ideal for waterwall, economizer, header, crossover, superheat, reheat, and generating tubes
- Speeds boiler tube waterwall welding process
- Reduces the risk of costly tube joint failure due to misalignment
- Made of high strength precision machined steel for long service
- For tube sizes 1.75" O.D. to 3.25" O.D.
- Threaded inserts are replaceable
- Available kits come with everything needed
- Set-up is easy and fast
- Saves time and money
- For Sale and Rent

### Simplifies tube alignment and improves tube joint welds

The HOG TIE® boiler tube joint alignment tool speeds the welding process for boiler tube waterwall panel replacement by quickly and accurately aligning new boiler tube ends with existing tubes in preparation for creating welded tube joints.

The HOG TIE® two piece design is simple and easy to use. One piece has two through holes and the other has two threaded replaceable inserts. Two bolts draw the assembly together. Each bolt passes through the through hole and threads into the piece with the threaded insert. With the two tube ends between the HOG TIE® assembly, the tack weld window on each HOG TIE® piece is centered. When the bolts are tightened, it draws the tube ends into alignment.

During this process, adjustments can be made to ensure a proper gap is maintained between the tube ends before tack welding them. After the HOG TIE® is removed, the tack weld holds the tube ends in alignment, allowing for full access to the tube joint in order to complete the tube joint weld.

Accurate tube end alignment helps to make a better welded tube joint and reduces the risk of tube joint failure due to inaccurate alignment which saves time and money on costly boiler shut-down and re-work.

The HOG TIE® alignment tool can also be used in other applications requiring accurate alignment of tube and pipe for welding. It is made of precision machined high strength steel for long service and is available for tube sizes from 1.75" to 3.25" O.D.



HOG TIE® tube alignment tools speed waterwall boiler tube fit-up and helps reduce tube joint failure due to misalignment.



Available impact wrench draws the HOG TIE® assembly together for fast tube end alignment.

### Specifications: HOG-TIE® Boiler Tube Joint Weld Alignment Tool

Product #	Tube Size OD		Dimensions		Weight		Gr B7 Bolt Length
	in	mm	in	mm	lbs	kgs	
HT-134	1.75	44.5	6 x 4	152.4 x 101.6	7.5	3.4	3in (76.2mm)
HT-200	2	50.8	6 x 4	152.4 x 101.6	7.5	3.4	3.5in (88.9mm)
HT-214	2.25	57.2	6 x 4	152.4 x 101.6	8	3.63	3.5in (88.9mm)
HT-238	2.375	60.3	6 x 4.375	152.4 x 111.1	8	3.63	4in (101.6mm)
HT-212	2.5	63.5	6 x 4.375	152.4 x 111.1	8	3.63	4in (101.6mm)
HT-300	3	76.2	6 x 4.75	152.4 x 12.07	10	4.54	4.5in (114.3mm)
HT-325	3.25	82.6	6 x 4.75	152.4 x 12.07	10	4.54	4.5in (114.3mm)

HOG-TIE® assemblies are designed for use on boiler tube waterwall panels with 0.5" (12.7mm) wide membrane. For other pipe applications, please consult factory.

Available HOG TIE® kits include an impact wrench and socket, four B7 0.5" bolts, two spare threaded inserts and a carrying case.



HOG TIE® assemblies use replaceable threaded inserts.



HOG TIE® alignment tools also align single tubes and pipe ends for tack welding.

esco tool • 75 October Hill Road • Holliston, MA 01746 USA • 1.508.429.4441 • fax 1.508.429.2811 • email: millhog@escotool.com

Available for Sale or Rent • [www.escotool.com](http://www.escotool.com)