

Hydraulic Tack Type and No Tack Cage Clamps

1. Description and function

The Tack and No Tack Hydraulic Cage Clamp is used for the alignment pipes 16" to 60" in diameter. The clamp is designed to align only one diameter of pipe.

2. Working environment up 50 degree to - 25 degree Celsius

The clamp is not design to be used at a temperature below -25 degrees.

3. Cage Clamp Nomenclature

The Hydraulic Cage Clamp consist of a right and left frame, latching mechanism and hydraulic bottle jack. The Hydraulic bottle jack consists of a reservoir, pump, on and off valve, machined piston and cylinder with adjustable extension screw. The hydraulic jack is rated at 12 tons.

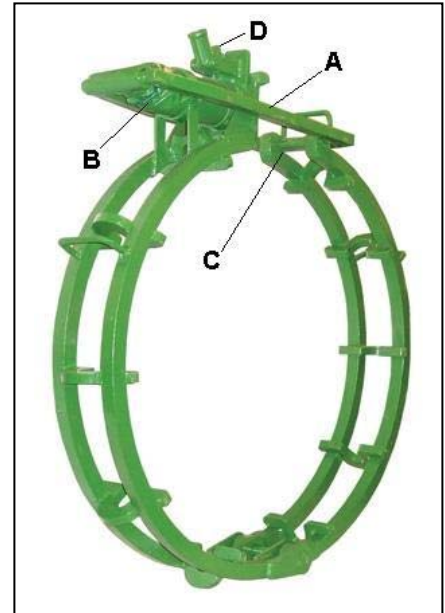
4. Operating Instructions

- Tack Type Cage Clamp -

- A. Release all hydraulic pressure on the Tensioning Mechanism (A) by opening Valve (D) on the Hydraulic Jack (B).
- B. Lift Tensioning Mechanism (B) from hook (C) on the clamp end.
- C. Open the clamp
- D. Place the clamp on pipe
- E. Center the cross bar on the pipe end.
- F. Grasp the clamp handles and close the clamp on the pipe
- G. Engage Tensioning Mechanism on the hook (C) on the clamp end.
- H. Close valve (D)
- J. Pump the Hydraulic Jack until the both pipes are aligned in the clamp.
- K. Tack weld the pipe ends together at points between the cross bars.
- L. Release all hydraulic pressure on Hydraulic Jack (A) by opening Valve (D).
- M. Lift Tensioning Mechanism (B) from hook (C) on the clamp end.
- N. Open the clamp.
- O. Remove the clamp from the pipe.
- P. Weld per the established procedure.

- No Tack Type Cage Clamp -

- A. Release all hydraulic pressure on the Tensioning Mechanism (A) by opening Valve (D) on the Hydraulic Jack (B).
- B. Lift Tensioning Mechanism (B) from hook (C) on the clamp end.
- C. Open the clamp
- D. Place the clamp on pipe
- E. Center the opening in the cross bar on the weld joint.
- F. Grasp the clamp handles and close the clamp on the pipe
- G. Engage Tensioning Mechanism on the hook (C) on the clamp end.
- H. Close valve (D)



Hydraulic Tack Type and No Tack Cage Clamps

- I. Pump the Hydraulic Jack until the both pipes are aligned in the clamp.
- J. Weld the pipe ends together per the established procedure
- K. Release all hydraulic pressure on Hydraulic Jack (A) by opening Valve (D).
- L. Lift Tensioning Mechanism (B) from hook (C) on the clamp end.
- L. Open the clamp.
- M. Remove the clamp from the pipe.

5. ATTENTION! Don't use the Cage Clamp

- Should not be used as the sole support of the pipe.
- A lift mechanism should not be attached to the clamp to lift the pipe.
- Wedges should not be driven under the frame of the clamp in an attempt to reform the pipe as it will damage the clamp and void the warranty.
- The clamp is not designed for the alignment of the Tees, elbows, valves and other fittings.
- The clamp should not be used with any type of device that is used to preheat the pipe prior to welding as this may result in failure of the clamp.

6. Maintenance

After each use the clamp should be cleaned and sprayed with a light film of oil to avoid rusting. Prior to use the clamp should be inspected for cracks and deformation of the clamp. The clamp should be replaced if there are any cracks or deformed areas of the clamp present. No other maintenance is required.

7. Storage

The clamp should be kept in a dry environment when not in use.