

WHERE THERE'S PIPE, THERE'S MATHEY

CAGE CLAMP

HAND LEVEL TACK & NO TACK

Parts and Operating Manual



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Hand Lever Tack and No Tack Cage Clamps

1. Description and function

The Ratchet Tack and No Tack Cage Clamp is used for the alignment pipes for welding. The Tack Type Clamp is available for 2" – 60" pipes. The No Tack Clamp is available for 3 ½" – 60" pipes. 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 Ratchet Type Cage Clamp consist of a Right Frame, Left Frame and Ratchet Mechanism.

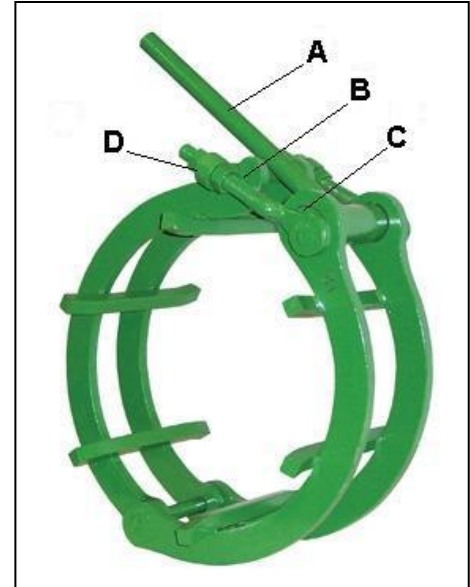
4. Operating Instructions

Tack Type Cage Clamp

- A. Release all pressure on the clamp by rotating the Handle (A) on the Cam Mechanism (C) until enough pressure has been release from the Tensioning Bar (D) to open the clamp
- B. Lift the Tensioning Bar (D) from hook (B) 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 if applicable and close the clamp on the pipe
- G. Engage Tensioning Bar (D) on the hook (B) on the clamp end.
- H. Rotate the Handle (A) on the Cam Mechanism (C) until the cam mechanism is over center and locked in position.
- I. Tack weld the pipe ends together at points between the cross bars.
- J. Release the clamp from the pipe by rotating the Handle (A) on the Cam Mechanism (C) until it contacts the cross bar of the clamp.
- K. Lift the Tensioning Bar (D) from hook (B) on the clamp end.
- L. Open the clamp.
- M. Remove the clamp from the pipe.
- N. Weld per the established procedure.

No Tack Type Cage Clamp

- A. Release all pressure on the clamp by rotating the Handle (A) on the Cam Mechanism (C) until enough pressure has been release from the Tensioning Bar (D) to open the clamp
- B. Lift the Tensioning Bar (D) from hook (B) 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 if applicable and close the clamp on the pipe
- G. Engage Tensioning Bar (D) on the hook (B) on the clamp end.



Hand Lever Tack and No Tack Cage Clamps

- H. Rotate the Handle (A) on the Cam Mechanism (C) until the cam mechanism is over center and locked in position.
- I. Weld per the established procedure.

- A. Release the clamp from the pipe by rotating the Handle (A) on the Cam Mechanism (C) until it contacts the cross bar of the clamp.
- L. Lift the Tensioning Bar (D) from hook (B) on the clamp end.
- M. Open the clamp.
- N. 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 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. If any cracks or deformation of the clamp are present, the clamp should be replaced. No other maintenance

7. Storage

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