



The CL-350 hydraulically operated rotary head bending machine is designed for making precision bends in tube to 4" diameter. The machine shown is equipped with the following options; hydraulic mandrel extractor, wiper die bracket, carriage with 10 stops for plane of bend rotation and 10 stops for distance between bend, digital degree of bend control, drop away clamp die bolster, direct acting pressure die, pressure die boost, auto mandrel lubricator and auto lubricator slides and toggles.

CAPACITY	SPECIFICATIONS
Tube, stainless steel YP TO 60,000 psi 4" OD × .095 WT.	*Standard tube length over mandrel: 10 feet Bend angle: 180° + 15° Overbend
Tube, wild steel YP to 40,000 psi 4" OD × .125 WT.	*Standard center line radius: 20 inches maximum Motor: 20 HP
Tube, non-ferrous YP to 25,000 psi 4" OD × .250 WT.	Bend speed (ADJ.): 3.8 RPM max. Bend rotation: CW or CCW (specify)
Pipe, steel YP to 40,000 psi 3 IPS × SCH 40	Bend arm repeatability: ± ¼° Electrical: 220 / 440V, 3 phase, 60Hz.

*See Options

STANDARD FEATURES

1. Swinging arm safety plate.
2. Automatic lubricator slides and toggles.
3. Remote operators console.
4. Oil cooler.
5. Independent controls for clamp die, pressure die, mandrel and bend arm rotation.
6. Low noise hydraulics (less than 84db).
7. Automatic or independent function operation.
8. Hardened and ground slides.
9. Heat treated alloy spindle on taper roller bearings.
10. J.I.C. hydraulics, cushioned cylinders.
11. One degree of bend stop.

OPTIONS

1. CW or CCW bend arm rotation. (Specify with order).
2. Extended tube length over mandrel.
3. Extended center line radius.
4. Hydraulic mandrel extractor and rod support. (8" or 12" stroke)
5. Wiper die support bracket.
6. Direct acting pressure die.
7. Pressure die boost (assist).
8. Digital bend control with storage of 40 bend angles and switch input for over bend compensation.
9. Multiple bend degree stops under nose for setting bend angles (select either 8 or 9).
10. Manually operated carriage with 10 plane of bend (rotation) and 10 distance between bend stops.
11. Multiple mandrel rod stops for setting distance between bends (select either 10 or 11).
12. Drop away clamp die bolster (recommended with option 10).
13. Power operated carriage with scales for rotation and distances between bends.
14. Over arm tie from bend post to rear of stationary arm.
15. Hydraulic split die actuator for use with square and rectangular sections.
16. Automatic draw compound injector system for lubricating inside tubes over mandrel.
17. Heater package for bending of titanium.
18. Full CNC version with IBM/PC and parallel manually controlled function operation.
19. Tooling. Complete tool sets including round, square, rectangular, extrusion and heart shaped.
20. Special paint. Standard color blue.