# Specs For Standard
# LDR Motion Systems
# Flat Plasma Table

## Structure

- Completely welded, not bolted
- easily hand removable slats, installed in a wave pattern
- air operated water table. Uses compressed air to adjust water level, changeable in seconds, no moving parts
- Gantry travels completely out of the way of cutting deck, to allow overhead loading of sheet stock
- Min 1" over travel on x axis of purchased machine (61" on a 60x120 for example) useful as many hot rolled sheets are actually wider than the nominal named size
- Torch can manually be tilted left or right

## Drive System

- 620 oz/in motors on all axis (2 motors slaved on Y axis)
- 3:1 belt reduction on x and y axis
- 5TPI ballscrew on z axis
- 20pitch 20PD gear rack and 1" pinion on x and y axis
- pinion gears spring loaded in to gear rack to eliminate backlash
- bishop wisecarver vee groove roller bearing system for x and y axis, these are designed for dirty environments
- recirculating linear ball bushings on z axis

## Electronics

- over temp control electronics
- digital torch height control, set via gcode
- simple 120volt ac 15 amp power requirements
- ethernet cable communication for all components
- modular electronics, no "single" high dollar board
- able to operate 24/7
- computer with loaded licensed software included
- simple single circular plug interface to hypertherm unit

## Software

- All software included
- uses separate cad, cam and control software, allows for much more flexibility than proprietary software
- can import dxf from any cad, included or customer provided
- cam software allows for detailed cutting rules, features usually found only on high dollar systems, such as corner slow down and auto dthc on/off depending on entity length

American made!