

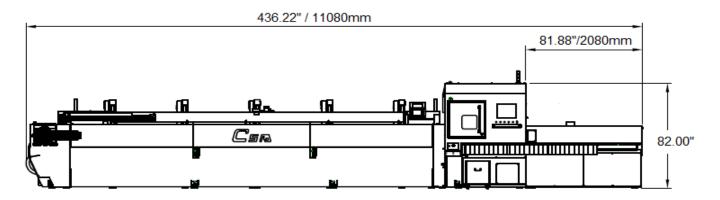
MADE IN USA TUBE BENDERS | METRIC SERIES TUBE BENDERS | LASER TUBE CUTTERS

| Horn Metric LS150-4C Specifications |
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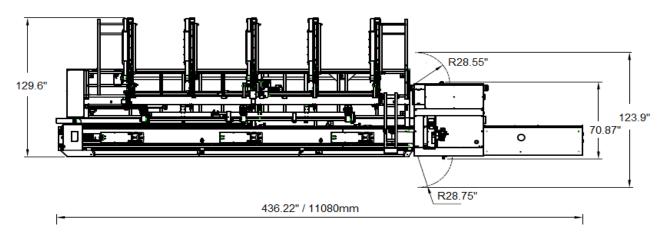
| Fiorit Metric Lo 130-40 Specifications                                       |  |  |                |                |  |
|--|--|--|----------------|----------------|--|
|  | Min  |  | Max            |                |  |
| Tube / Pipe Range  | Imperial   | Metric                                 | Imperial       | Metric         |  |
| Round Tube (Minimum & Maximum)   | 0.630"   | 16.0 mm                                | 6.00"          | 152.4 mm       |  |
| Square Tube (Minimum & Maximum)  | 0.630"   | 16.0 mm                                | 4.00"          | 101.6 mm       |  |
| Diagonal of Square Tube (Minimum & Maximum)                                  | .885 "   | 22.5 mm                                | 6.00"          | 152.4 mm       |  |
| Rectangular Tube (Minimum & Maximum)   | .630" x 4.00" / 16 mm x 101.6 mm (EW or HW)                  |  |                |                |  |
| Pipe (IPS)   | 5" IPS Schedule 80   |  |                |                |  |
| Material types   | Carbon & stainless steel, AL, & Alloys                       |  |                |                |  |
|  | Steel Steel Stainless Steel                                  |  |                |                |  |
| Wall Thickness   | $O^2$  | $O^2$ $N^2$ $N^2$                      |                | J <sup>2</sup> |  |
| Maximum wall thickness (2 kW)  | .315" / 8mm  | .236" / 6mm                            | .236"          | / 6mm          |  |
| Maximum wall thickness (3 kW)  | .472" / 12mm   .315" / 8mm                                   |  | .315" / 8mm    |                |  |
| Maximum wall thickness (4 kW)  |  | .393" / 10mm                           |                | ′ 10mm         |  |
| Note: If laser cutting speeds are reduced than thicker wall tubes may be cut |  |  |                |                |  |
|  |  | in                                     |                | ах             |  |
| Loading / Unloading  | Imperial   | Metric                                 | Imperial       | Metric         |  |
| Tube Loading Options (Standard = 240" / 6096 mm)                             | 120.00"  | 3048.0 mm                              | 326.7"         | 8300.0 mm      |  |
| Tube Unloading Options (Standard = 120" / 3048.0 mm)                         | 120.00"  | 3048.0 mm                              | 360.00"        | 9144.0 mm      |  |
| Minimum Length of remaining tube (2 chuck system)                            | 25.5" / 650mm  |  |                |                |  |
| Maximum Bundle Weight  | 4,4000 lbs / 2,000 Kg  |  |                |                |  |
| Average raw material weight  | 12 lbs / ft or 18 Kg / M                                     |  |                |                |  |
|  | (Stroke) (Speed)   |  |                |                |  |
| Axis Stroke / Speed  | Imperial   | Metric                                 | Imperial       | Metric         |  |
| X-Axis (Laser head horizontal)   | 6.30"  | 160 mm                                 | 9.85 In / sec  | 250 mm / sec   |  |
| Z-Axis (Laser head vertical)   | 12.20"   | 310 mm                                 | 13.86 In / sec | 352 mm / sec   |  |
| A-Axis (Laser head tilt)   | Not available on 4-Axis Not available on 4-Axis              |  |                |                |  |
| B1, B2 & B3 Axes (Tube rotation)   | +/- 360 Deg  |  | 600 De         | 600 Deg / sec  |  |
| Y-Axes (Stroke will vary based upon loader length)                           | N/A  |  | 30.60 In / sec | 777 mm / sec   |  |
| Maximum Machine feeding rate   | 1,835 in/min 46,620 mm / min                                 |  |                |                |  |
| Positioning Accuracy (Travel)  | +/- 0.001" / 0.03 mm   |  |                |                |  |
| Rotational Accuracy (degrees)  | +/- 0.01 Deg   |  |                |                |  |
| General Specifications   |  | Description                            |                |                |  |
| Laser Power, IPG Fiber Optic   | 2 kW, 3 kW & 4 kW (Standard = 2 kW)                          |  |                |                |  |
| Chiller system dual loop for laser power & cutting head                      |  | Included as standard with laser cutter |                |                |  |
| Scrap take-away conveyor   | Incline conveyor for loading of scrap bin (.37 kW, 0.6 Amps) |  |                |                |  |
| Tube length measurement system (servo driven)                                | Included as s  | Included as standard with laser cutter |                |                |  |
| Power Requirement  |  |  |                |                |  |
| 2 kW Laser (Assumes PF of .80)   | 480V, 3-Ph, 60 Hz, 18.5 kW, 24 Amps                          |  |                |                |  |
| 3 kW Laser (Assumes PF of .80)   | 480V, 3-Ph, 60 Hz, 26 kW, 32 Amps                            |  |                |                |  |
| 4 kW Laser (Assumes PF of .80)   | 480V, 3-Ph, 60 Hz, 29 kW, 35 Amps                            |  |                |                |  |
| Dual output air compressor (Assumpes PF of .80)                              | Screw compressor with air dryer (15 kW, 23 Amps )            |  |                |                |  |
| Air Requirement  |  |  | _              |                |  |
| Loading, Chucks & Unloading  | 85 PSI (6 Kg / cm <sup>2</sup> )                             |  |                |                |  |
| Laser Cutting  | 213 PSI (15 Kg / cm <sup>2)</sup>                            |  |                |                |  |
| Fume collector and filtration  | Vacuumn system for fume collection (3.73 kW, 6 Amps)         |  |                |                |  |

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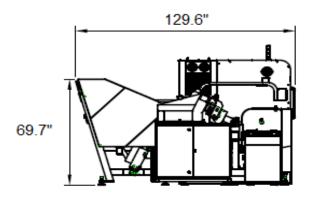
## Horn Metric LS150-4C Automatic Floor Plan



Front View 150LS-4C, Auto-Loader = 20' (240"), Un-loader = 10' (120")



Top View 150LS-4C, Auto-Loader = 20' (240"), Un-loader = 10' (120")



Side View 150LS-4C Auto

## Notes:

- 1) Dimensions and weights will vary based upon lengths of the loading and unloading systems.
- 2) For lasers in stock, if a voltage system other than 480V, 3-ph is required, a transformer will need to be provided.

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