

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

Horn Metric LS220-4E Specifications

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	Min		Max	
Tube / Pipe Range	Imperial	Metric	Imperial	Metric
Round Tube (Minimum & Maximum)	0.709"	18.0 mm	8.66"	220.0 mm
Square Tube (Minimum & Maximum)	0.709"	18.0 mm	6.00"	152.4 mm
Diagonal of Square Tube (Minimum & Maximum)	1.000" 25.4 mm 8.50" 2 ⁻			
Rectangular Tube (Minimum & Maximum)	1.000" x 6.00" / 25 mm x 152.4 mm (EW or HW)			
Pipe (IPS)	6" IPS Schedule 80			
Material types	Carbon & stainless steel, AL, & Alloys			
	Steel	Steel	Stainless Steel	
Wall Thickness	O ²	N ²	N ²	
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)	.630" / 16mm	.393" / 10mm	n .393" / 10mm	

Note: If laser cutting speeds are reduced than thicker wall tubes may be cut

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 (3 chuck system)	3.15" / 80mm			
Maximum Bundle Weight	5,5000 lbs / 2,500 Kg			
Average raw material weight	20.5 lbs / ft or 45 Kg / M			
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	(Stroke)		(Speed)	
Axis Stroke / Speed	Imperial	Metric	Imperial	Metric
X-Axis (Laser head horizontal)	10.63"	270 mm	9.85 ln / sec	250 mm / sec
Z-Axis (Laser head vertical)	15.12" 384 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		450 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			

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	Laser Power, IPG Fiber Optic
(Chiller system dual loop for laser power & cutting head
	Scrap take-away conveyor
•	Tube length measurement system (servo driven)
	Power Requirement
	2 kW Laser (Assumes PF of .80)
	3 kW Laser (Assumes PF of .80)
	4 kW Laser (Assumes PF of .80)
	Dual output air compressor (Assumpes PF of .80)
	Air Requirement
	Loading, Chucks & Unloading
	Laser Cutting

Fume collector and filtration

2 kW, 3 kW & 4 kW (Standard = 2 kW)
Included as standard with laser cutter

Incline conveyor for loading of scrap bin (.37 kW, 0.6 Amps) Included as standard with laser cutter

Description

480V, 3-Ph, 60 Hz, 18.5 kW, 32 Amps 480V, 3-Ph, 60 Hz, 26 kW, 35 Amps 480V, 3-Ph, 60 Hz, 29 kW, 37 Amps

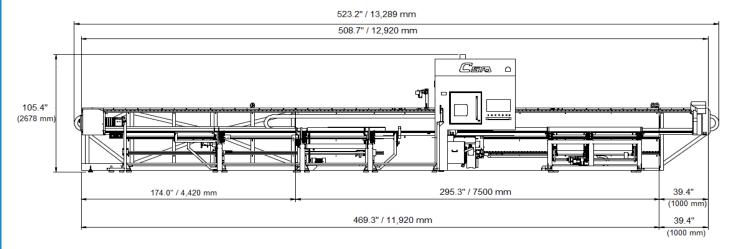
Screw compressor with air dryer (15 kW, 23 Amps)

85 PSI (6 Kg / cm²) 213 PSI (15 Kg / cm²) Vacuumn system for fume collection (3.73 kW, 6 Amps)

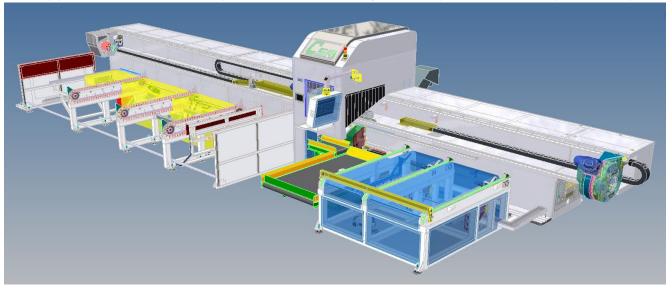


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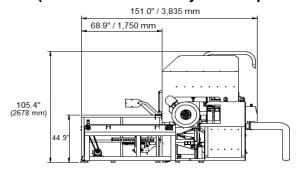
Horn Metric LS220-4E Floor Plan



Approximate Dimensions (Laser cutters will vary based upon end-user requirements)



Approximate Front View (Laser cutters will vary based upon end-user requirements)



End / Side View (Laser cutters will vary based upon end-user requirements)

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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