

StarCut Tube

Flexible and Versatile Tube Cutting Machine

StarCut Tube cutting systems are ideal for high precision tube and flat sheet cutting, as well as for very simple tube “cut to length” applications. They can process a large variety of materials.

The tube is held via a 3-jaw-chuck. Blank tubes of any length are inserted manually or via tube loader and the machine processes them automatically. The machine produces fine, accurate cuts with minimized edge dross. The high accuracy is achieved by high end motion systems mounted on granite or mineral cast machine structure.



FEATURES

- High precision cutting system for medical implants (e.g., stents) and instruments
- Can cut struts smaller than a human hair
- Wet cut operation with integrated water pump
- Automatic tube feeder for dry cutting
- Viewing via camera for exact monitoring of the cutting process
- HMI-Pro with security user access levels, diagnostic and data logging
- Sorter module adaptable

APPLICATIONS

- Coronary and Venous Medical Stents
- Peripheral Medical Stents
- Heart Valves
- Guide Wires/Hypotubes
- Surgical Instruments
- Micro Flat Cutting
- Surface Modification
- Polymer Tubing
- Bioresorbable Scaffolds
- Thrombectomy
- Endoscopes
- Marker Bands

Specifications	StarCut Tube SL	
Axis Travel (mm) (x, z)	300 x 40	
Axis Speed (rotary) (rev/min)	600 to 1500	
Z-Axis Options	Motorized or Manual	
Tube Diameter (mm)	up to 30	
Dimensions (mm) (L x W x H)	700 x 1340 x 1410	
Weight (kg)	1300	
Laser Class	1	
Laser Source	Monaco	PowerLine FL 200
Type	Solid-State Laser	Fiber Laser
Wavelength (nm)	1035 ±5	1070
Pulse Duration/Pulse Width	<350 fs	10 µs to cw
Pulse Frequency	up to 1 MHz	Single-Shot up to 50 KHz
Beam Quality (M ²)	<1.2	<1.1

Specifications	StarCut Tube ML	
Axis Travel (mm) (x, y, z)	300 / 600 x 75 x 40	
Axis Speed (rotary) (rev/min)	600 to 1500	
Tube Diameter (mm)	up to 30	
Dimensions (mm) (L x W x H)	760 x 2200 x 1430	
Weight (kg)	1200	
Laser Class	1	
Laser Source	Monaco	PowerLine FL 200
Type	Solid-State Laser	Fiber Laser
Wavelength (nm)	1035 ±5	1070
Pulse Duration/Pulse Width	<350 fs	0.5 µs to cw
Pulse Frequency	up to 1 MHz	Single Pulse up to 50 KHz
Beam Quality (M ²)	<1.2	<1.1
Configuration	Available as hybrid machine	

StarCut Tube SL

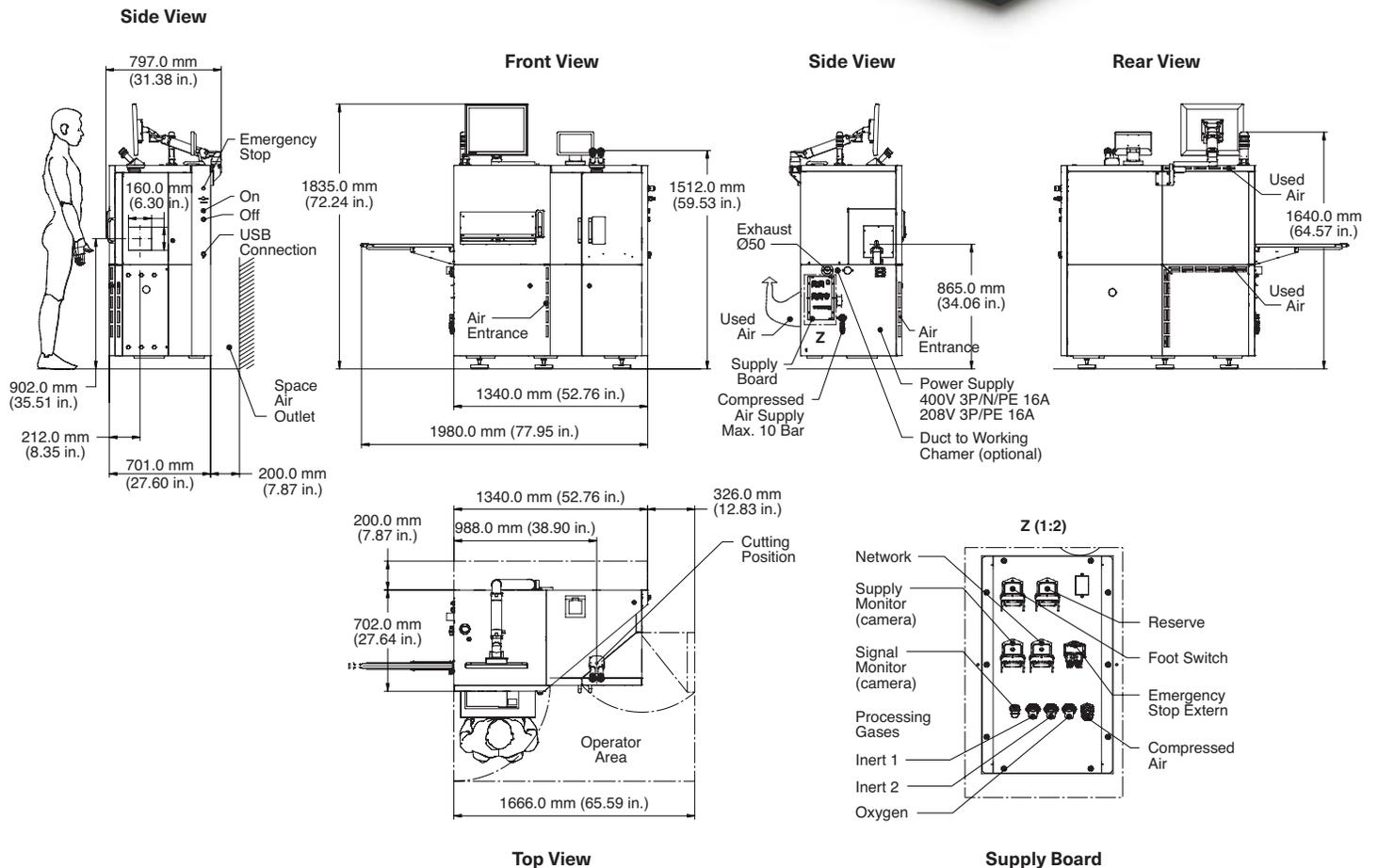
BENEFITS

- Smallest footprint in the market
- Tube diameters up to 30 mm
- Massive and proven mineral cast set up
- Only three side accessibility necessary (minimizes production floor and allows high density operation)



Mechanical Specifications

StarCut Tube SL



StarCut Tube ML

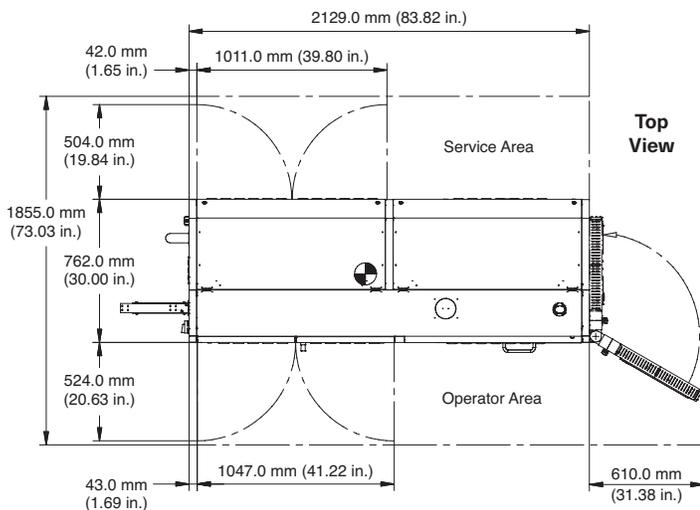
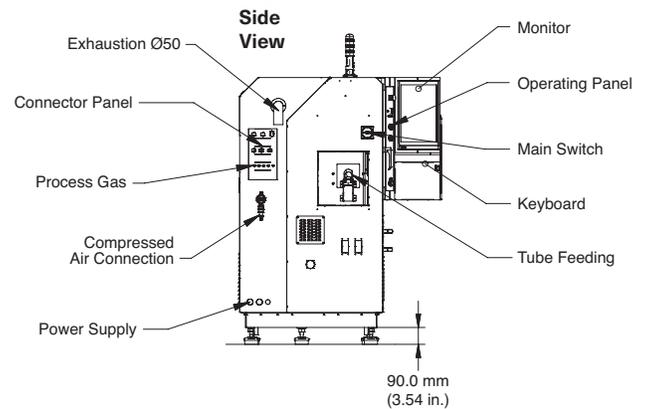
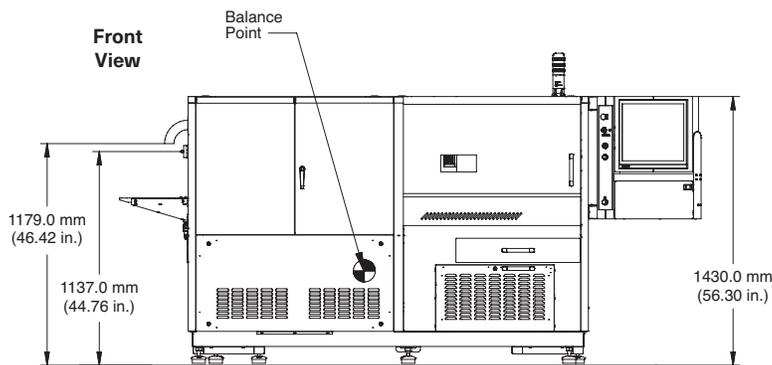
BENEFITS

- Massive and proven granite set up
- Flat cutting option
- Tube diameters up to 30 mm
- Available with two, three, or four axes
- Available as hybrid version



Mechanical Specifications

StarCut Tube ML



StarFeed L

BENEFITS

- Automatic tube feeder for dry cutting
- Tube length max 3 or 4.2 m
- Storage for 48 tubes
- Tube diameter from 1 to 20 mm
- Cutting of oval tubes possible
- Increased productivity
- Unmanned production

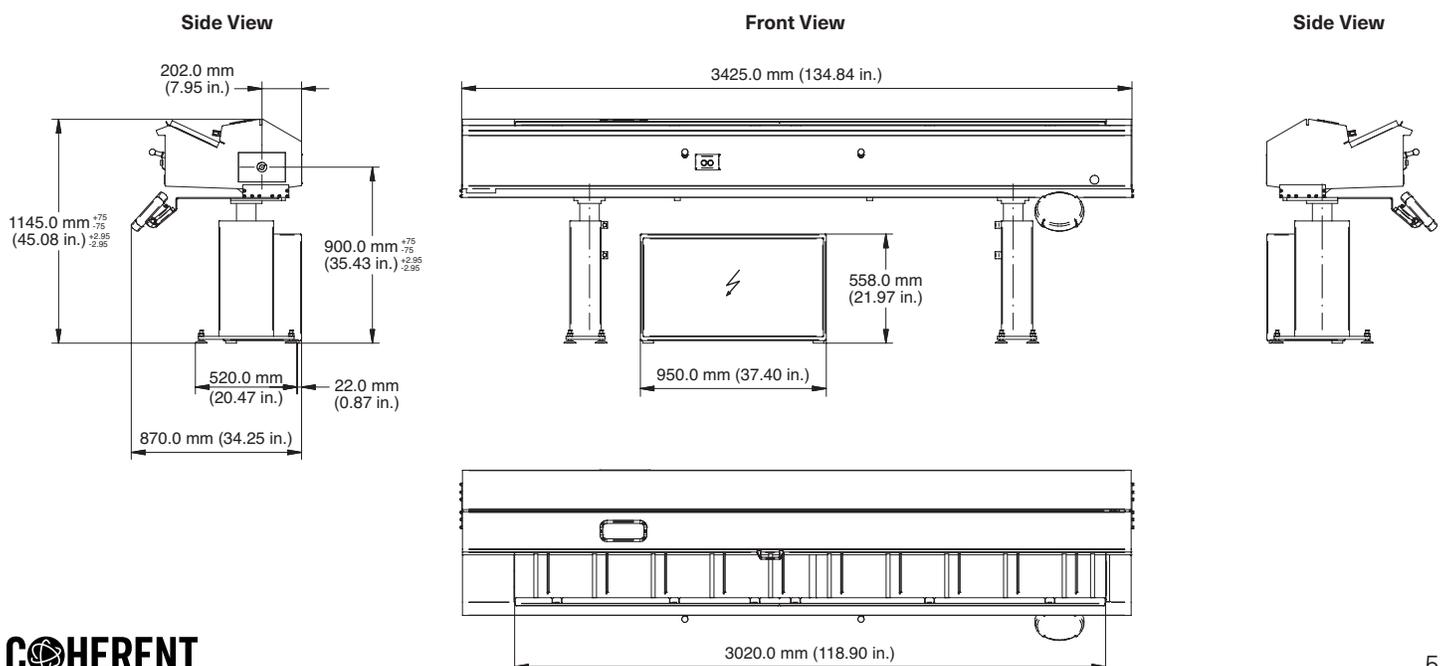
OPTIONS

- Interchangeable with StarFeed S
- Unloading units in different sizes



Mechanical Specifications

StarFeed L



StarFeed S

BENEFITS

- Tube diameter 0.3 mm to 3 mm
- Extendable to 3 m tube length
- Can store up to several hundred tubes
- Precise and fast feeding
- No damage thanks to innovative and sensor controlled gripping unit
- Increased productivity
- Unmanned production

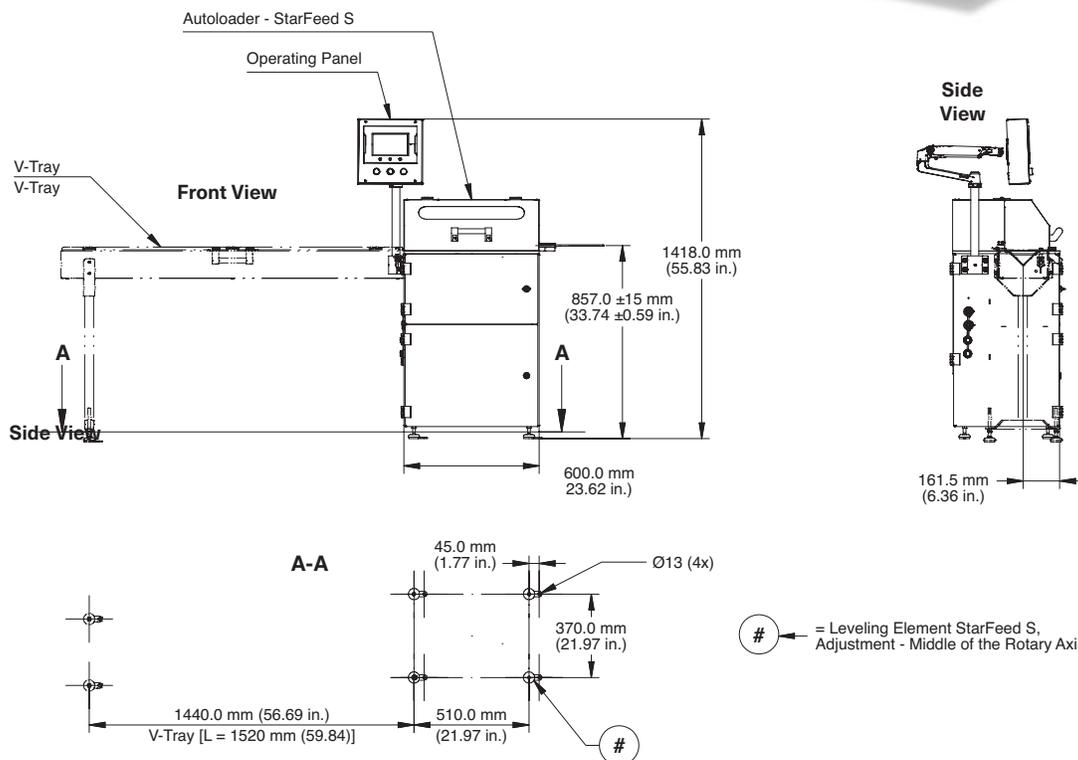
OPTIONS

- Interchangeable with StarFeed L
- Unloading units in different sizes



Mechanical Specifications

StarFeed S



Applications Images

