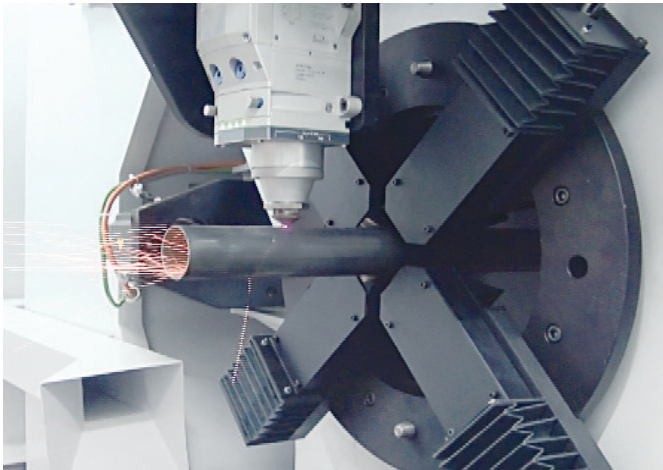


# FIBER 3D - Tube & Pipe profile cutting

Profile cutting solution for tube, pipe and beam (H,C,U,L profiles).



The Alpha Lazer® FIBER 3D is a tube and pipe cutting solution. It can cut round, square, rectangular, H-Beams, C-Beams, U-Beams and L-Beams with extremely precise details.

- State-of-the-art SIEMENS SINUMERIK 840D SL Controller
- PRECITEC ProCutter cutting head
- IPG Photonics YLS series high power fiber laser sources (1 W to 6kW)
- SigmaTube CAD/CAM software
- 2x light curtains for safety included, corresponds to the current local safety certification guidelines

## FIBER 3D SPECIFICATIONS

Equipped with 2kW laser source

Max. pipe diameter:	6.5"
Type of focus	Automatic
Available power	200-2000W
Mild steel max thickness	0.630"
Stainless steel max thickness	0.236"
Aluminium max thickness	0.197"
Brass max thickness	0.118"
Copper max thickness	0.118"
Power sources available	1, 2, 4, 6 kW



ALPHA  
LAZER™

# FIBER 3D - Tube & Pipe profile cutting

## SPECIFICATIONS:

<b>CONSTRUCTION:</b>	Unitized system Rigid stress-relieved welded steel frame construction The design guarantees accurate parts even when cutting at the fastest speeds and highest accelerations
<b>CUTTING DIMENSIONS:</b>	24' pipe length, up to 6.5" diameter
<b>CUTTING SPEED:</b>	Up to 1400 IPM, depending on laser source and material thickness
<b>MAXIMUM TRAVERSE SPEED:</b>	Up to 4500 IPM combined axis
<b>REPEATABILITY:</b>	0.002"
<b>POSITIONING ACCURACY:</b>	0.002"
<b>MATERIAL SUPPORT:</b>	Downdraft Dust collection system available
<b>GANTRY:</b>	N/A
<b>MOTORS:</b>	High performance A/C servo motors, with low moment of inertia and no maintenance required High precision two-way, hardened helical racks with low running clearance make it possible to achieve very high acceleration and speeds.
<b>CNC CONTROLLER:</b>	State-of-the-art <b>SIEMENS</b> numerical control unit, <b>SINUMERIK 840D SL</b> ; NCU 720.3PN The graphical user interface ensures easy operation and the on-board libraries reference cutting parameters for various materials and thicknesses USB ports for easy program loading; ethernet connection to your network 15" touch panel screen, TP 015A
<b>POWER SOURCE:</b>	<b>IPG Photonics YLS series</b> 1 kW / 2 kW / 4kW / 6 kW
<b>CUTTING HEAD:</b>	<b>PRECITEC ProCutter</b> intelligent auto focus, capacitance cutting head
<b>SCRAP REMOVAL:</b>	Easy maintenance and trouble-free operation Standard lateral scrap drawers allow the removal of scrap pieces from the working area without the need to interrupt the cutting process Motorized conveyors for easy removal of short pieces and scrap
<b>CAD / CAM SOFTWARE:</b>	CAD / CAM SigmaTube software has the tools to import or draw parts, prepare and automatically optimize the different geometries for the laser cutting process and make efficient nests.
<b>SUGGESTED NESTING SOFTWARE:</b>	SigmaTube CAD/CAM software
<b>SAFETY AND PROTECTIVE MEASURES:</b>	The laser cutting system, machine and CNC controller are all equipped with switches and sensors to protect the operator The working area of the laser cutting system is protected by light guards The machine's safety equipment corresponds to the current local guidelines



**ALPHA  
LAZER**

### Alpha Lazer

221 Boul. Bona Dussault  
Saint-Marc-des-Carrieres, Quebec  
Canada, G0A 4B0  
(581) 277-3474

Machine models and specifications  
are subject to change without notice.  
Copyright 2018 Alpha Lazer Inc. TM.  
All rights reserved. *Revision 1*

alphalazer.com  
info@alphalazer.com