RAYTOOLS

	D wif 5 w man on man on man	Because of the section of the sectio	the major, fallow or region towards.
	Nest Result		3000
	2000		1 100 100 100 100 100 100 100 100 100 1
ı	_1900		
ı		- EX	
ı	to the part of the	a a	SEAM SMART BEAM SMART BEAM SMART
	Mark Constant According to the latest Constant	The control of the co	With the second
			MATROLS

RAYTO	OLS — Product Fu	nction List			
				StandardTube Cutting	O Optional - Nonapplicab
Product	Dotailed Fo	Detailed Features		XC4000P	V0/0000
Category	Detailed Features		XC4000T2 2-chuck	Cut-off	XC4000C 1-chuck
Axis Number	Axis Number		5+	4	5+
NC- Axis	CNC- Axis		X/Y/U/U2	-	X/Y/U
Motion Control Algorithm	Z-Axis		•	•	•
	Focus Control		•	-	•
Motion Control Algorithm	Acceleration-Max(g)		Unlimited	Unlimited	Unlimited
	Idle Speed(m/min)		Unlimited	Unlimited	Unlimited
	Cutting Speed(m/min)		Unlimited	Unlimited	Unlimited
Control Method	Non-Busfield-Pulse Control		•	•	•
	EtherCAT		•	•	•
		e Calibration	•	-	•
		Compensation	•	•	•
	Non-Height Controller Mode		•	•	•
	Fixed Height Cutting Mode		•	•	•
	LeapFrog		•	•	•
		short travel	•	•	•
Piercing Method	Calibratio	on Monitoring	•	-	•
	Multi Invol Diovoina	1 Level	•	•	•
referring metrica		2 Level	•	•	•
	Spood & Dower	3 Level & Frequency Curve	•	-	•
Energy Control	Tube Corner Pro		•		
		pe Cutting Traceless		•	•
		Square Tube			
Positioning Method	Cutting	Round Tube	•	•	•
	Calibration	Horizontal		-	•
		Beam Center	•	-	•
		Single-side	•	-	•
	Zero Detect	Double-side	•	-	•
Function		Two-point	•	-	•
		Four-side	•	-	•
		Four-point	•		•
		Five-point	•		•
	Tube Modification	Tube Modification	•	-	•
	Welding Seam Recognition	Round Tube			•
		Square Tube	-	-	•
Nesting	Graphics Making	Graphics Making	•	-	•
	Neating	Nesting Function	•	-	•
		Nesting files export	•		•
	Island Type Co-edge	Round Tube	•		•
	Manual Nest		•		•
	Leadline		•	•	•
	Start Point	Start Point	•		•
		Manual Setting of Start Point	•		•
	MicroJoint	Over/ Gap	•		•
		Micropoint	•		•
	Toolpath Planning	Auto Pos/neg Cutting	•	-	•
	,	Toolpath Reverse	•	-	•

Auto Loading Table

Floating-Axis

Floating-Axis

Custom Alarm

Platform Config Tool

rive Monitoring (Busfield) Drive Monitoring (Busfield) rd-party CAM Software Third-party CAM Software

aintenance Reminder Maintenance Reminding

lignment Mechanism Control Cylinder

External Loading Table

Axis Number CNC- Axis X/Y/Z/A/B Acceleration-Max Unlimited Idle Speed Unlimited Welding Speed Unlimited Non-Busfield-Pulse Control EtherCAT Basic Drawing and Transform Processing, Spot Weld DO point Pre Spot Weld Leadline Direction Process Lalyers & 1 Non-process Layer Starting&Ending power ascent and descent POS Function Basic Process Raytools Galvo Welding Head Axis Control Basic Process Control Air Knife Floating Coordinate Speed Rate Processing Number 1 Point Tool Setting 4 Points Start Monitoring Slave device Connection(OI Following Error State Machine Pitch Compensation Accuracy Control Low-power Laser Pallets Welding Custom Function Button config Custom Alarm Platform Config Tool Chinese, Traditional Chinese, English Backup CCD Visual Positioning

Europe

North/South America Asia Pacific/ South&Middle Asia/ |RayTools Inc.

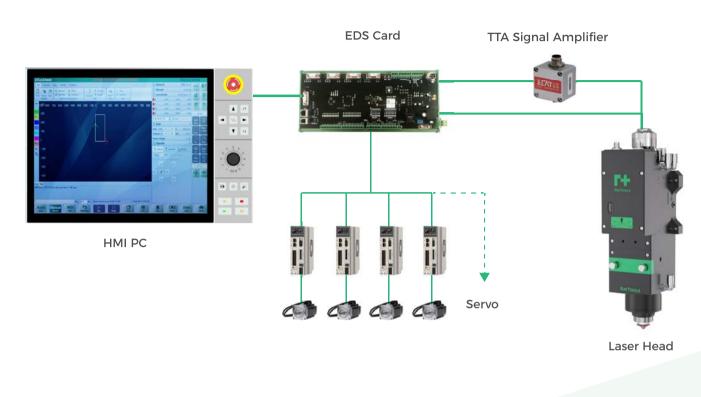
United States

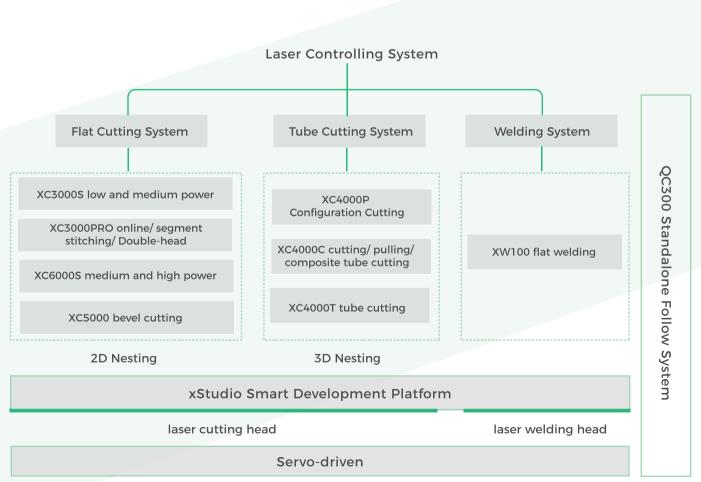
Middle East/Africa RayTools Automation(shanghai) Co.,Ltd. Winchester MA 01890, 8 Dongbao Road, Shanghai 201613, China China sales@raytools.com sales@empower.cn

China

Shanghai Empower Technologies Co.,Ltd





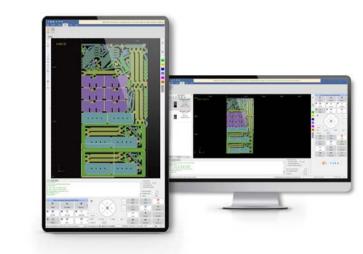


RAYTOOLS RAYTOOLS

Profile

XC-Series Laser Flat Cutting System

X-series flat laser cutting system, developed from xStudio platform, covers XC3000S/XC3000PRO/XC6000S models. Such systems enable EtherCAT busfield servo and pulse servo with various unique features such as noninductive piercing. piercing slag removal, co-edge overcutting, vibration suppression, sharp corner starting, traceless microJoint, etc., mainly used in general flat cutting machines, micro machines, coil stock segmentation, online cutting machine, etc. For example, XC3000PRO system supports double-head cutting, segment feeding stitching, processing large parts in small



Application Field





Mechanical Processing





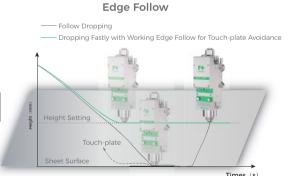


Metal Product

Auto Electronic Industry

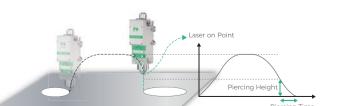
Control Features

Vibration Suppression



Smart Collision Avoidance

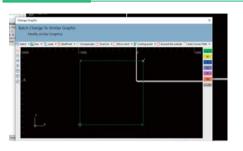




Noninductive Piercing

Function

Batch Modify



Support batch modification of some graphic process in the drawing including MicroJoint, to make editing more convenient.

Smart Head Monitoring



The system monitors working data of key components of the Smart head in real time, with alarms for stoppage in time in abnormal conditions, to avoid affecting the cutting effect, achieve safe and efficient production and improve the lifespan of the equipment.

Focus Lens Temp

Monitoring focus lens status for quick feedback when lens contamination occurs.

Cavity Temp

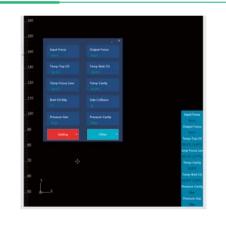
Monitoring the cavity temperature of the cutting head to avoid affecting optics and cutting effect from high temperature.

Auto Cleaning Nozzle



The nozzle will move to the specified place for auto cleaning after meeting the cleaning conditions, with auto calibration if cleaning is completed.

Laser Monitoring



Supporting various laser communication control methods, such as I/O, RS232, TCP/IP. Real-time monitoring of laser status, with alarms for stoppage in time in abnormal conditions, to improve safety and avoid affecting the processing effect. It's also applicable to set the power, frequency, duty cycle and achieve online control.

Process Samples





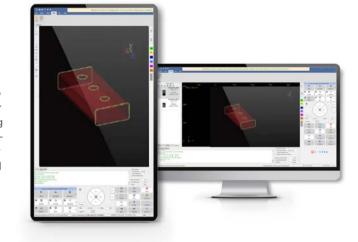




Profile

XC-Series Laser Tube Cutting System

X-series laser tube cutting system, developed from xStudio platform, covers XC4000P/XC4000C/XC4000T and other models. Such systems boast various functions including EtherCAT busfield servo, pulse servo, welding seam recognition, auto edge-alignment and island type co-edge, mainly used in configure screen tube cutting, composite pulling and standard 2-card and other machines.



Application Field





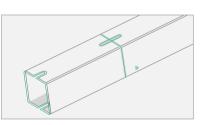




RAYTOOLS

Product Function List

Features





Supporting island type co-edge to improve material utilization, and applicable for island type co-edge after adding compensation to parts, to reserve compensation with island type co-edge



Profile

XW-series Laser Welding System

XW100 flat welding system can match various laser welding machines with functions like PSO and teaching, widely used in new energy and other industries



Features



CCD Visual Positioning

CD visual auxiliary positioning system upports to identify plenty of mark points, ositioning mark points through shooting and adjusting the processing coordinate hrough calculating.





Processing Samples

RAYTOOLS

Z-axis Height Adjustment lation Double heads Non-Busfield-Pulse Control EtherCAT Flexible Acceleration and Deceleration nterferometer Data Compensation Offset Detection Real-time Calibration Quick Calibration ight Capacitance Compensat troller LeapFrog Optimize Short Travel Gas Pressure DA Cutting Head Cooling Gas Graphic Auto Optimization Cutoff Line Function Advertising Words Making Graphics Making Nesting Function Nesting File Export Manual Setting of Start Point Over/ Gap Toolpath Reverse Noninductive Piercing Lightning Piercing Multi-level Piercing Auto Group Piercing Slag Removal Process after Piercing Leadline Process Cooling Point Film Covering Technology Fixed HeightFixed Height Vibration Suppression of Thin Sheet Traceless MicroToint Slow Start Process Slow Stop Process speed Power & Frequency Curve Process Import & Export Process Lib Line & Round Hole lm Hole Leadline & Flycut High-speed MicroJoint Capacitor Auto edge detection Edge detection with 6-point (thin sheet) oating Coordinate Parallel Exchange Hydraulic Exchange Notor Lifting Batch Processing (multi-files) Maintenance Module Segment Process Seament Stitching Cutting Online Nozzle Cleaning Jog Cutting Arc Detection Partition dust removal Processing Tasks Verticality correction Ouick Cutoff Production Report ravel Obstacle Avoidance Drive Monitoring(Busfield) CCD Vision Detection Simulation Processing Check rame Check hird-party CAM Software Multi -task Processing Custom Input / Output Custom Function Button Precitec Cutting Head