

## **PRODUCT**

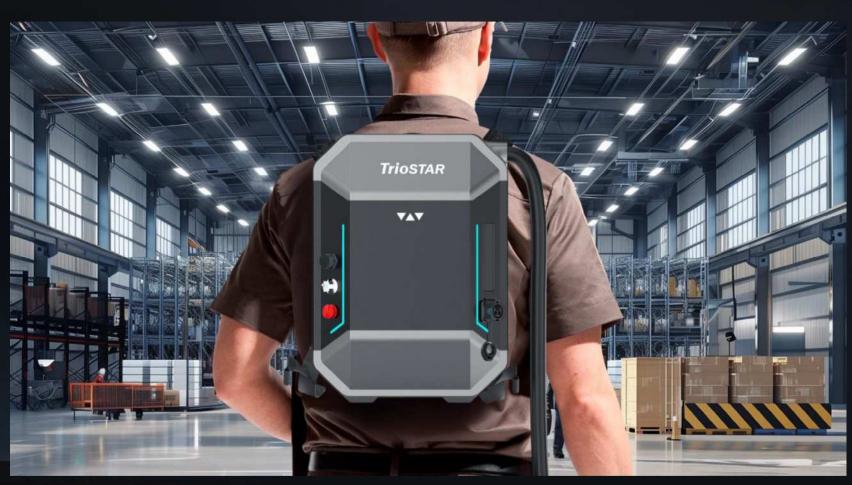
Laser Engraver and Cleaner
BROCHURE



More light brings more power

# **Backpack**

Laser Engraver And Cleaner



**TrioSTAR Pro120** 

# PRODUCT PARAMETERS TrioSTAR Pro120

Inc	dicator items	Parameter values		
Laser	Laser type	MOPA pulsed fiber laser		
	Average power	≥120W		
	Peak power	≥8kW		
	Frequency range	1kHz-4MHz		
	Pulse width	5ns-500ns		
Output head	Field mirror focal length	Standard F=254mm (can increase F=160mm, F=330mm)		
	Marking/deep carving/cleaning format	≤120mm × 120mm@F=254mm		
	Clean the spot pattern	Cross, rectangle, spiral, circle, ring, 0 ° straight line, 45 ° straight line, 90 ° straight line, 135 ° straight line, straight line rotation		
	Mark/deep sculpt linearity	99.9%		
	Marking/deep carving repeat positioning accuracy	8 μRad		
	Marking/Deep carving Long Time drift (8h)	0.5 mRad or less		
	Output armor length	Acuity 1.5 m		
	Communication control	Communication and control: the output head button and visual LCD screen real-time adjustment, or handheld tablet wireless control		
	Operation assistance	Dual red focus, LED lighting		
	Clean out light control	Double button interlock		
	Output head weight	600g (without marking bracket)		
	Marking/deep carving bracket weight	≤130g		
	Supply voltage	100VAC-240VAC		
	Power supply frequency	50Hz/60Hz		
Electric	Power supply	≥500W		
	Power cord length	≥5m		
	Lithium battery life	≥50min		
	Lithium battery full charge time	≤150min		
External communication of equipment	Control mode	IO/485		
Device language	Output head screen	English		
	APP terminal	Chinese, English, German, French, Japanese, Korean, Russian, Portuguese, Spanish, Arabic, Thai, Vietnamese 12 languages		
Whole machine structure	Status indicator	Red, Blue, Yellow, and Green Multi-Color Breathing Lights		
	Safety protection	External industrial control equipment security interlock interface		
	Equipment Dimensions	264 ×160×372mm		
	Equipment weight	< 10kg		
	Package size	860×515×265mm		
	Gross packaging weight	< 18kg		

**TrioSTAR Pro120** 

### **COMPACT AND LIGHTWEIGHT**

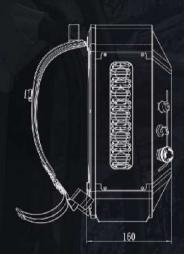














# **EASY TO OPERATE**

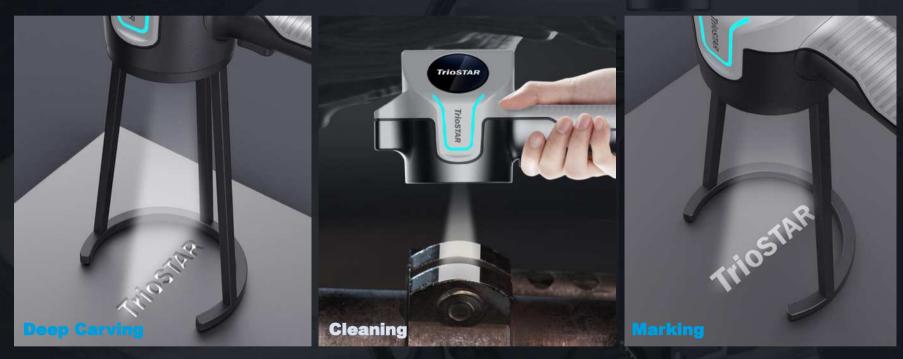
**TrioSTAR Pro120** 



It can adjust the laser power, pulse width, spot pattern and size, galvanometer speed in real time on the output head or mobile phone, control the focus of red light and LED lighting start and stop, and real-time monitoring equipment operating status information.

**TrioSTAR Pro120** 

# **MULTIPLE FUNCTIONS**



It is equipped with a fixed focus bracket that can be quickly installed and taken to achieve accurate marking and deep carving.





External industrial control equipment safety interlock interface, fully cooperate with the external system to ensure safety.



Ultra-hard and pressure-resistant, ultra-flexible and easy-to-bend corrugated tube, protecting optical fibers and cables to ensure their safety.

Press the red light button of the output head first, and then continuously hold down the enable switch to emit the laser. If no operation is performed within 2 minutes after the red light is turned on, the red light will automatically turn off and the device will enter the standby state.

## **VERSATILITY**

**TrioSTAR Pro120** 

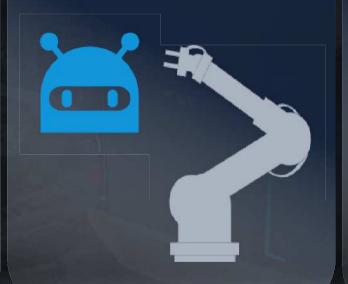
### Language

Supports 10+ globally recognized languages and flexible configuration across mobile and desktop platforms.



### **External Control Interface**

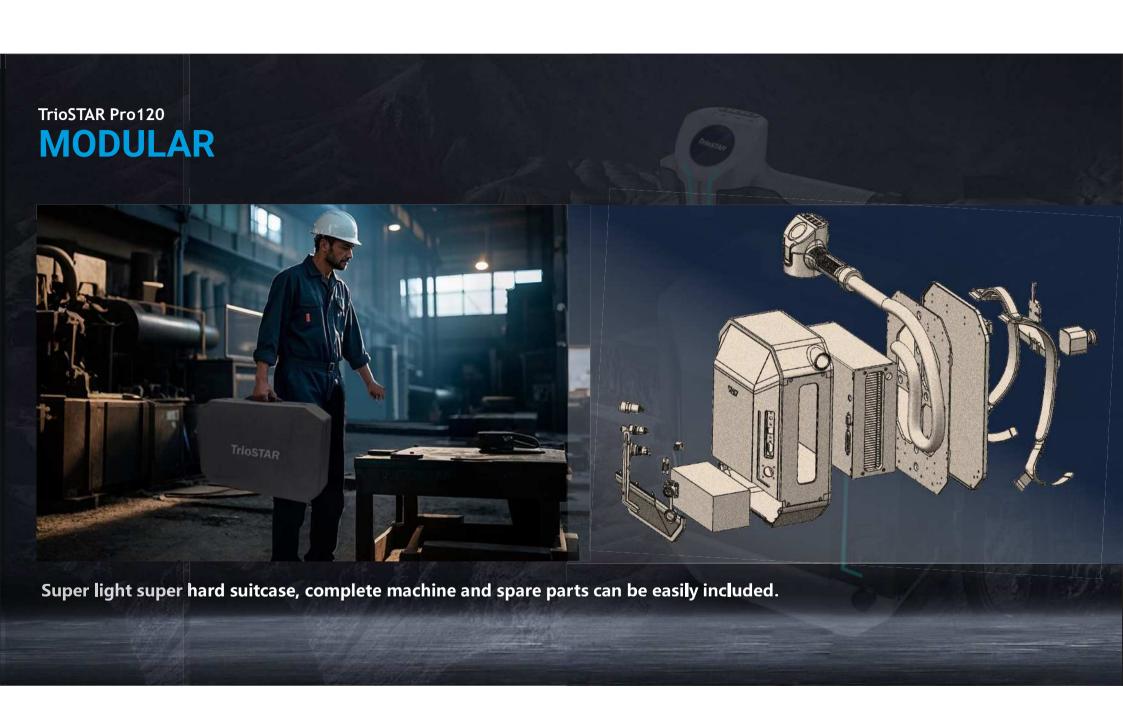
Supports rapid and simple integration with external industrial control systems via IO/RS-485 interfaces, enabling automated operations.



### Voltage

100-240V AC wide-range input, compatible with standard mains voltages worldwide.







TrioSTAR Pro220 Pro320

TrioSTAR



Indicator items		Parameter values				
	Product model number	Pro220	Pro220M	Pro320	Pro320M	
Laser	Laser type	MOPA pulsed fiber laser				
	Average power	≥220W	≥220W	≥320W	≥320W	
	Peak power	≥8kW	≥100kW	≥8kW	≥100kW	
	Frequency range	1kHz-4MHz				
	Pulse energy	≥2mJ	≥15mJ	≥2mJ	≥15mJ	
	Pulse width	5ns-500ns				
	Field lens focal length	Standard F=254mm (can increase F=160mm, F=330mm)				
	Marking/deep carving format	≤120mm × 120mm@F=254mm	/	≤120mm × 120mm@F=254mm	/	
	Wash format	≤120mm × 120mm@F=254mm				
	Clean the spot pattern	Cross, rectangle, spiral, circle, ring, 0 ° straight line, 45 ° straight line, 90 ° straight line, 135 ° straight line, straight line rotation				
	Mark/deep sculpt linearity	99.9%	/	99.9%	/	
	Marking/Deep carving repeat positioning accuracy	8 μRad	/	8 μRad	/	
Output head	Marking/Deep carving Long drift (8h)	0.5 mRad or less	/	0.5 mRad or less	/	
	Output armor length	≥5m				
	Communication control	Communication and control: the output head button and visual LCD screen real-time adjustment, or handheld tablet wireless control				
	Operation assistance	Dual red focus, LED lighting				
	Clean out light control			button interlock		
	Output head weight	600g (without marking bracket)				
	Marking/deep carving bracket weight	≤130g	/	≤130g	/	
	Supply voltage	100VAC-240VAC				
	Power supply frequency	50Hz/60Hz				
Electrical	Power supply	≥ <b>1200</b> W ≥1600W			V	
Electrical	Power cord length	≥5m				
	Lithium battery life	≥50min ≥30min		1		
	Lithium battery full charge time	≤6h				
External communication of equipment	Control mode	IO/485				
Device language	Output head screen	English				
	APP terminal	Chinese, English, German, French, Japanese, Korean, Russian, Portuguese, Spanish, Arabic, Thai, Vietnamese 12 languages				
Whole machine structure	Status indicator	Red, Blue, Yellow, and Green Multi-Color Breathing Lights				
	Bluetooth HiFi system	Surround, heavy bass				
	Safety protection	External industrial control equipment security interlock interface				
	Equipment Dimensions	384×265×710mm				
	Equipment weight	< 36kg				
	Package size	1000×650×480mm				
	Gross packaging weight	< 50kg				

# TrioSTAR Pro220 / Pro320 PORTABLE

Body
35kg

Output Head

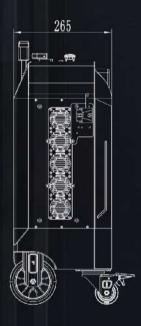
Wheel Diameter

0.6kg | 160<sub>mm</sub>











## **EASY TO OPERATE**

TrioSTAR Pro220/320

It can adjust the laser power,
pulse width, spot pattern and size,
galvanometer speed in real time on the
output head or mobile phone, control
the focus red light and LED lighting start
and stop, and monitor the equipment
running status information in real time.





#### TrioSTAR Pro220/320

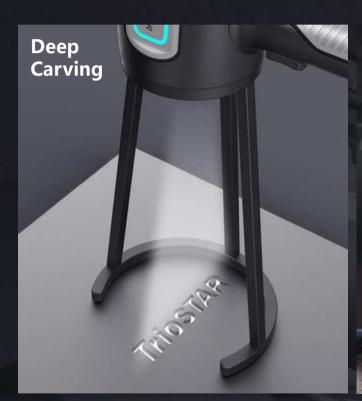
# **MULTIPLE FUNCTIONS**

Product built-in

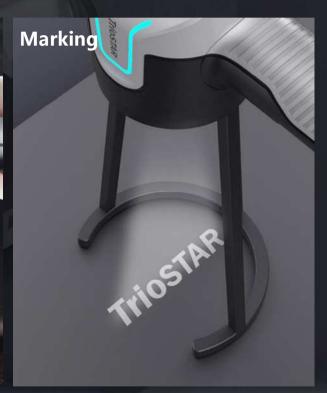
UPS module

Pro220 endurance 50min

Pro320 battery life 30min







It is equipped with a fixed focus bracket that can be quickly installed and taken to achieve accurate marking and deep carving.

Multi-mode laser is more suitable for scenes with high requirements on surface non-destructive (such as mold surface cleaning); Not suitable for marking, deep carving



# SAFETY TrioSTAR Pro220/320

External industrial control equipment safety interlock interface, and the external system fully cooperate to ensure safety.



Ultra-hard and pressure-resistant, ultra-flexible and easy-to-bend corrugated tube, protecting optical fibers and cables to ensure their safety.

First, press the red light button of the output head, and then keep holding down the enable switch to make the light emit. If there is no operation within 2 minutes after the red light is turned on, the red light will automatically turn off and the device will enter the standby state.

## VERSATILITY TrioSTAR Pro220/320

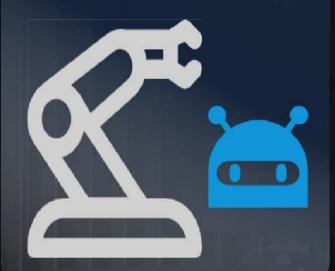
### Language

Supports 10+ globally recognized languages and flexible configuration across mobile and desktop platforms.



### **External Control Interface**

Supports rapid and simple integration with external industrial control systems via IO/RS-485 interfaces, enabling automated operations.



### Voltage

100-240V AC wide-range input, compatible with standard mains voltages worldwide.





# CARE

Work with the music, and turn the dullness into enjoyment.



### **COMPANY PROFILE**

Woofee focuses on environmentally friendly and highly efficient laser application technologies, and its business scope covers aviation and energy security assurance. The company provides solutions for numerous industrial service enterprises and maintains in-depth communication and close cooperation with multiple industries such as aerospace, equipment manufacturing, new energy manufacturing, transportation, energy transmission, environmental protection engineering, cleaning engineering, cultural relic protection, and agricultural production. According to the needs of different fields, Woofee has developed a series of products such as pulsed fiber lasers and laser cleaning and washing systems for marking and cleaning.

















### **PARTNERS AND USERS**



































































Precision and meticulousness,
Refers to the respect and commitment to every detail.
We are not merely producers of products,
Rather, we aspire to perfectly integrate technology and art,
Let every innovation become a classic.





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**TrioSTAR** 

**BeamAxe**