ODATALOGIC



AREX is the ultra compact Pulsed Fiber Laser System addressed to Automotive and Electronics industry for Direct Part Marking and Label Marking on metal parts, plastic parts and components.

Available with 10W and 20W high performance fiber laser source, improved scan head, new rack design and advanced LIGHTER Software features, the new AREX increases performance in term of power, reliability, quick installation and setup, flexible programming and

High performance and reliability

- Warranty 10/20 W power after scan head & focal lens increase speed marking for enhanced productivity.
- Zero bleed-through power ensure no ghost lines even on sensitive materials.
- Up to 50°C operative temperature guarantees high reliability and best performance also on extreme operative condition
- Improved Scan Head with IP54 protection class ensures maximum protection and reliability even in harsh environments
- Rack cooling air channel with the removable dust filter easy to access for maintenance

Quick installation and setup

AREX drastically simplifies system design and machine integration.

- Rack with all connection on back panel included: double and redundancy safety interlock inputs and double channel ENABLE Input
- Embedded Red Laser Spot for focus position in the small head foot-print (112x298x90 mm) allows fast focusing of the laser beam during setup.
- Installation, laser marker setup and operation are most easy with the Embedded Marker Controller platform (EMC) and LIGHTER Suite
- 4 independent axis controls (X,Y,Z, Rotative axis) to implement multi-layers and rotating marking and to change marking head position.

Flexible programming and control

AREX and LIGHTER Suite allows OEMs and Machine builders to develop a complete, cost effective, Laser Marking Station, based on embedded hardware and software resources, (STAND ALONE mode) or to design an advanced Laser Marking Solutions able to control a complete machinery over a simple Ethernet connection with supervisor computer (MASTER-SLAVE mode).

- Advanced Graphical Layout
- Local and Remote laser diagnostic
- Local and Remote I/O & axis control
- Local and Remote laser test & setup
- Local and Remote ActiveX
- Ethernet protocol for easy integration with PLC and industrial environments
- Marking On Fly capability



APPLICATIONS

This product has been developed to satisfy to requirements of the following reference applications:

- Excellent contrast on metal surfaces
- Optimum for plastic and electronic PCB









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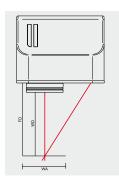
Email us: sales@inopakinc.com



AREX 10-20W

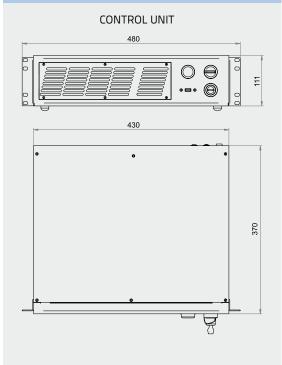
	AREX 10W	AREX 10W	
Nominal power	10W	20W	
Peak power (max)	5 kW	10 kW	
Head cable Lenght	3 m standard		
Wavelength	1060 – 1080 nm		
Laser source	Pulsed Fiber Laser		
Modulation	10 kHz ÷ 100 kHz		
Pulsewidth	100 nsec		
Working area	100x100 mm with F-Theta 160S 140x140 mm with F-Theta 254S		
Working distance	181 mm (fixing distance 196 mm) with F-Theta 160S 290 mm (fixing distance 309 mm) with F-Theta 254S		
Marking capabilities	Standing, Rotary axis, On the fly (marking in motion)		
Integration	Up to 4 mechanical axis driving capabilities (stepper motor)		
	program 1 dedicated connector for dua	nd 10 digital output fully nmable al line high resolution encoder inector for photocell	
Interface	Ethernet, F	RS 232, USB	
Aiming Beam	Class 2M red diode laser 635nm		
Focus Beam	Class 2M red diode laser 635nm		
Protection degree	Head: IP54		
Temperature Range	■ 5°C to 50°C (50 ■ 5°C to 42°C (10	rative 0% emission time) 0% emission time) °C to 50°C	
Cooling	Air cooled		
Power Supply	100/240 VAC – 50/60 Hz		
Head Dimension & Weight	mm 90x112	x298 kg 2	
Rack Dimension & Weight	mm 106x430	x370 kg 16	

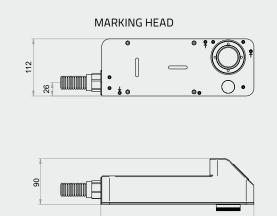
All laser sources described in this product guide are Class 4 laser sources. Laser interaction with organic or inorganic material can cause TOXIC FUMES/PARTICLES. The OEM laser components described in this product guide is for sale solely to qualified manufacturers, who shall provide interlocks, indicators and other appropriate safety features in full compliance with applicable national and local regulations.



Objective F-Theta mm	1605	2545
Working distance (WD) mm	181	290
Fixing distance (FD) mm	196	309
Working area (mm x mm)	100X100	140X140

DIMENSIONS





300

MODEL SELECTION AND ORDER INFORMATION

MODEL	DESCRIPTION	ORDER N°
AREX 1100-1341-000 Fiber IR System	10W IR Fiber Laser Marker F-THETA 160S	985180001
AREX 1100-1641-000 Fiber IR System	10W IR Fiber Laser Marker F-THETA 254S	985180004
AREX 1200-1341-000 Fiber IR System	20W IR Fiber Laser Marker F-THETA 160S	985180002
AREX 1200-1641-000 Fiber IR System	20W IR Fiber Laser Marker F-THETA 254S	95A151360

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Rev. 06, 04/2013