## **OIDOJATACO**

Sold Nationwide By: All-Marks, LLC 7513 Wystone Avenue Reseda, CA 91335-2530 818.704.9700 / 800.847.8076 www.all-marks.com

## **ODATALOGIC**

### AREX: LASER MARKING MADE EASY

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

The new AREX incorporates a high performance fiber laser source with power levels available from 10W to 50W.

The extended power range available together with improved scan head, new rack design and advanced LIGHTER Software features, allow for higher achievable performance in terms of flexibility, reliability, and ease of installation.

### **APPLICATIONS**

#### METAL MARKING

- Arex fiber laser marker series provides unmatched performance and functionality on metal.
- High resolution, excellent contrast with low thermal impact
- Quick and clear black laser annealing, without cracks damage
- High quality deep engraving

#### HIGH CONTRAST MARKING

- High contrast marking on additivated plastic materials
- High speed on PCB and electronic devices



# **AREX** Series

## **DATALOGIC**

#### High performance and reliability

- Zero laser-leakage to ensure no ghost lines or damage even on sensitive materials.
- Up to 50°C operative temperature (10W & 20W models) guarantees high reliability and performance even in complex installation and adverse environments
- Improved Scan Head with IP54 protection class

#### Quick installation and setup

AREX design and configuration dramatically simplifies and speeds up machine design and system integration.

- Embedded Marking Controller (EMC) with LIGHTER Suite ensures quick and easy installation, setup, control and system diagnostics even from remote.
- Reduced Scan-head footprint (112x298x90mm) saves space and costs during installation and setup in automatic production lines
- Embedded 4 independent step motors controller dramatically simplifies management of rotary indexers, x-y tables, z axis etc

#### Flexible programming and control

LIGHTER Suite, with its Intuitive and easy-to-learn interface, simplifies the development of a complete and cost effective Laser Marking Station for OEM and Machine builders.

AREX is thought to be used in both a STAND ALONE MODE with built-in control and software resources, and in a MASTER-SLAVE mode with a with supervising computer for advanced network-oriented Laser Marking Applications.

Main Arex features are:

- 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 in PLC and industrial environments
- Marking On Fly capabilities







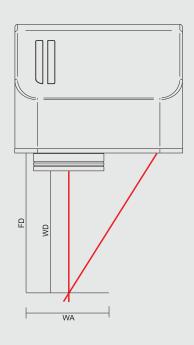


## DATALOGIC

## **AREX SERIES**

	AREX 10W	AREX 20W	AREX 30W	AREX 50W	
Nominal Power	10W	20W	30W	50W	
Peak power (max)	5 Kw 10 kW 10 kW			<w< td=""></w<>	
Pulse energy	0,5 mJ		1,0 mJ		
Head cable Lenght	3 m standard				
Wavelength	1060 – 1080 nm				
Laser source	Pulsed Fiber Laser				
Modulation	20 kHz ÷ 100 kHz		30kHz - 200 kHz	50Khz – 200 Khz	
Pulsewidth	100 nsec				
Marking capabilities	Standing, Rotary axis, On the fly (marking in motion)				
Integration	Up to 4 mechanical axis driving capabilities (stepper motor) Up to 10 digital inputs and 10 digital output fully programmable dedicated connectors Encoder and Photocell				
Interface	Ethernet, RS 232, USB				
Aiming & Focus Beam	Semiconductor Laser - 630 – 670 nm				
Temperature Range	5°C to 50°C		5°C to	40°C	
Protection degree	Head: IP54 - Controller IP21				
Cooling	Air cooled				
Power Supply	100/240 VAC – 50/60 Hz				
Head Dimension & Weight	mm 87x112x298 kg 2				
Rack Dimension & Weight	mm 111x430x370 kg 16				
Standard Marking configuration	F – Theta 160 S Marking AREA 100x100 mm² Working Distance 184 mm				
	F-Theta 254S Marking AREA 140x140 mm² Working Distance 294 mm				

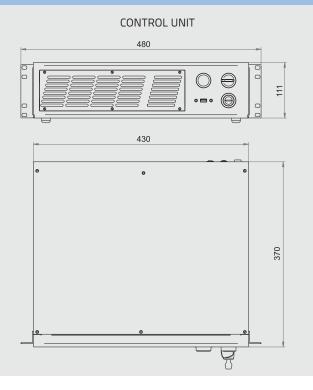
All laser sources described in this product guide are Class 4 laser sources. Refer to user manual for datailed tech. specification and test conditions. Laser interaction with organic or inorganic material can cause TOXIC FUMES/PARTICLES. The OEM laser components described in this product guide is for 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	160S	254S
Working distance (WD) mm	184	294
Fixing distance (FD) mm	197	329
Working area (mm x mm)	100X100	140X140

## DATALOGIC

### DIMENSIONS



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### **MODEL SELECTION AND ORDER INFORMATION**

ORDERING CODES	MODEL	FULL DESCRIPTION
985180023	AREX 1100-1042 Fiber IR System	AREX 10W IR Fiber w/out F-Lens
985180058	AREX 1100-1142 Fiber IR System	AREX 10W IR Fiber F100S-M39 lens
985180027	AREX 1100-1342 Fiber IR System	AREX 10W IR Fiber F160S-M39 lens
985180028	AREX 1100-1642 Fiber IR System	AREX 10W IR Fiber F254S-M39 lens
985180069	AREX 1100-1742 Fiber IR System	AREX 10W IR Fiber F254L-M39 lens
985180024	AREX 1200-1042 Fiber IR System	AREX 20W IR Fiber w/out F-Lens
985180059	AREX 1200-1142 Fiber IR System	AREX 20W IR Fiber F100S-M39 lens
985180029	AREX 1200-1342 Fiber IR System	AREX 20W IR Fiber F160S-M39 lens
985180030	AREX 1200-1642 Fiber IR System	AREX 20W IR Fiber F254S-M39 lens
985180051	AREX 1200-1742 Fiber IR System	AREX 20W IR Fiber F254L-M85 lens
985180060	AREX 1200-1A42 Fiber IR System	AREX 20W IR Fiber F330L-M85 lens
985180061	AREX 1200-1B42 Fiber IR System	AREX 20W IR Fiber F420L-M85 lens
985180063	AREX 1300-1442 Fiber IR System	AREX 30W IR Fiber F160L-M85 lens
985180052	AREX 1300-1742 Fiber IR System	AREX 30W IR Fiber F254L-M85 lens
985180053	AREX 1300-1A42 Fiber IR System	AREX 30W IR Fiber F330L-M85 lens
985180064	AREX 1500-1442 Fiber IR System	AREX 50W IR Fiber F160L-M85 lens
985180055	AREX 1500-1742 Fiber IR System	AREX 50W IR Fiber F254L-M85 lens
985180056	AREX 1500-1A42 Fiber IR System	AREX 50W IR Fiber F330L-M85 lens

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