Industrial Laser Systems

Technical Guide - Europe







Introducing the LaseNGo our first Class 1 certified mobile handheld laser marking machine. The unique patented design allows this to be a fully secure Class 1 portable laser marking machine. This patented design guarantees the safety of the user and surrounding employees without the use of protective goggles or shields. It's a MOPA laser engraver on wheels. It offers the flexibility for marking large objects like pipes, large containers, vehicles, and more without extra handling. Simply roll it up to where you need it, lase it, and go!

Designed for mobility, the unit includes a 7.8-foot umbilical cord for flexible reach, a compact dolly-style frame, and multiple interchangeable lens nozzles to accommodate class 1 part requirements. With a USB connection for easy integration with laser control software, and air-cooled, low-maintenance operation, this rugged mobile laser engraver is ideal for manufacturing, aerospace, automotive, and field service applications requiring portable and reliable laser marking capabilities.

System Features

- 20W MOPA Fiber Laser Class 1 Operation
- Rugged Handheld Scanhead Design
- Interchangeable Lens Nozzles for Class 1 Compliance
- USB Connection for Laser Control PC
- Air-Cooled and Low Maintenance
- Mobile Dolly design





System Specifications	
Dimensions	Varies based on options
System Weight	23kg / 50lbs
Laser Umbilical	2.4m / 7.87ft
Max Part Size	Unlimited
Software	Minilase Pro SE

LASENGO





USA Manufactured Galvos & Mechanical Safety Shutter



Private Label, Custom Spec MOPA Fiber Laser Source



Manual Fixture Stage

MINILASE™ LBL

Introducing our most compact laser engraving machine built for marking logos, barcodes, text, graphics and more! This new unit is designed to be portable and comes with an optional travel case. Ideal for retail and on the spot customization or can stay tucked away in the corner of your shop, providing a marking solution for all types of businesses.

The compact Minilase LBL is a 20-watt MOPA fiber laser capable of marking and engraving a wide range of materials. From metals to most plastics, our fiber laser engines are tuned specifically by our engineers to be versatile across a wide range of applications.

Featuring a 20W MOPA based fiber engine, it delivers high peak power, swift processing, and exceptional application adaptability. Leveraging Minilase LBL enhances marking capabilities compared to basic pulsed fiber laser systems, thanks to selectable pulse durations enabling processing of a wider range of materials and substrates.

System Features

- MOPA Fiber Laser Class 1 Operation
- 20W MOPA Fiber Laser
- 4" x 4" marking field
- USB Connection for Laser Control PC
- · Air-Cooled and Low Maintenance
- Compact mobile design
- Manual Fixture Stage

FULL DETAILS



Dimensions (WxLxH)	224mm x 399mm x 589mm
	8.8" x 15.7" x 23.2"
System Weight	23kg / 50lbs
Max Part Size	150mm x 209mm x 82.5mm
	5 7/8" x 8.25" x 3.25"
Software	Minilase Pro 3 64-Bit
Optional	Travel Case & Fume Extractor

System Specifications



VIRTUSTM Defense (NEW) (tool post sold as option)



VIRTUS Models

	Model	Part #
	VIRTUS 30W	VIRTUS 30
	VIRTUS 60W	VIRTUS 60
Lens Options		

Item	Part #
254mm Lens Upgrade	254 Lens Upgrade
254mm Lens Add-On	254 Lens Add-On
330mm Lens Upgrade	330 Lens Upgrade
330mm Lens Add-On	330 Lens Add-On
420mm Lens Upgrade	420 Lens Upgrade
420mm Lens Add-On	420 Lens Add-On

Accessories

ltem	Part #
VIRTUS Programmable Tool Post	VIRTUS Prog. Tool Post
Laser Safety Glasses	Laser Safety Glasses
See fume extraction and rotary products for complete options	

Technical Specifications

Laser Specifications VIRTUS™ Laser Type Ytterbium Fiber Wavelength 1062nm +/- 3nm Wattage Ratings 30W 60W 1 - 4,000kHz, CW Mode 1 - 4,000kHz, CW Mode Frequency Range Pulse Duration 16 Available, 2-350ns 16 Available, 2-500ns Operative Ambient Air Temp. 7° - 40° C / 45° - 104° F Cooling Type Forced Air Red Alignment Laser (RAL) Class II Red Diode (635nm) Red Focusing Laser (RFL) Class II Red Diode (635nm) Power Requirement Power Sensing 110-240 VAC 50/60 Hz

System Specifications	VIRTUS™
Head Dimensions (LxWxH)	429mm x 99mm x 127mm / 16.9" x 3.9" x 4.99"
Rack Dimensions (LxWxH)	673mm x 432mm x 146mm / 26.5" x 17" x 5.75"
Weight (approx.)	Head - 4.9kg / 11lbs / Rack - 22.7kg / 50lbs
Standard Software Package	Minilase Pro 3 64-Bit
PC	Windows 10 / 11 PC Required for Operation
External Connectors	USB / Diagnostic / Digital IO / Hardware Interlock / Stepper Motor Output (4)
Included Accessories	Laser Enable Keys (2) / Power & USB Cable / USB Drive with Software
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials
Warranty	24 Months

Focal Lens Specifications

Standard F-Theta Focal Lens

Lens Size	163L M85
Marking Field	100mm x 100mm / 3.93" x 3.93"
Working Distance	189mm / 7.44"

Lens Size	254L M85
Marking Field	165mm x 165mm / 6.5" x 6.5"
Working Distance	297mm / 11.7"
Lens Size	330L M85
Marking Field	200mm x 200mm / 7.87" x 7.87"
Working Distance	389mm / 15.3"
Lens Size	420L M85
Lens Size / Marking Field	260mm x 260mm / 10.2" x 10.2"
Working Distance	494mm / 19.4"

Minilase™ Manual



MLM Models

	Model	Part #
	Minilase Manual 30W	MLM30
Lens Options		
	Item	Part #
	254mm Lens Upgrade	254 Lens Upgrade
	254mm Lens Add-On	254 Lens Add-On
Accessories		
	ltem	Part #

Programmable Z Upgrade Prog. Z Upgrade
Class 4 Pass Through Pass Through

See fume extraction and rotary products for complete options

Technical Specifications

Laser Specifications	Minilase™ Manual
Laser Type	MOPA Ytterbium Fiber
Wavelength	1062nm +/- 3nm
Wattage Ratings	30W
Frequency Range	1 - 4,000kHz, CW Mode
Pulse Duration	16 Available, 2-350ns
Operative Ambient Air Temp.	7° - 40° C / 45° - 104° F
Cooling Type	Forced Air
Red Alignment Laser (RAL)	Class II Red Diode (635nm)
Red Focusing Laser (RFL)	Class II Red Diode (635nm)
Power Requirement	Power Sensing 110-240 VAC 50/60 Hz

System Specifications	Minilase™ Manual
System Dimensions (LxWxH)	878mm x 427mm x 625mm / 34.6" x 16.8" x 24.6"
Weight (approx.)	59kg / 130lbs
Max Part Size (LxW)	228mm x 254mm / 12" x 9"
Laser Focus Control	Power (Programmable Upgrade Available)
Door Type	Manual
Work Surface	Anodized Tooling Plate with Mounting Hole Pattern
Standard Software Package	Minilase Pro 3 64-Bit
PC	Windows 10 / 11 PC Required for Operation
External Connectors	USB / Diagnostic / Basic IO
Included Accessories	Laser Enable Keys (2) / Power & USB Cable / USB Drive with Software
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials
Warranty	24 Months

Focal Lens Specifications

Standard F-Theta Focal Lens

Lens Size	163L M85
Marking Field	100mm x 100mm / 3.93" x 3.93"
Max Part Height	179mm / 6.9"

Lens Size	254L M85
Marking Field	165mm x 165mm / 6.5" x 6.5"
Max Part Height	52mm / 2"

Minilase™



MAD Models

Minilase 20W	MAD20	
Accessories		
ltem	Part #	
Programmable Z Upgrade	Prog. Z Upgrade	
Class 4 Pass Through	Pass Through	
	See fume extraction and rotary products for complete options	

Technical Specifications

Laser Specifications	Minilase™
Laser Type	MOPA Ytterbium Fiber
Wavelength	1062nm +/- 3nm
Wattage Ratings	20W
Frequency Range	1 - 4,000kHz, CW Mode
Pulse Duration	16 Available, 2-350ns
Operative Ambient Air Temp.	7° - 40° C / 45° - 104° F
Cooling Type	Forced Air
Red Alignment Laser (RAL)	Class II Red Diode (635nm)
Red Focusing Laser (RFL)	Class II Red Diode (635nm)
Power Requirement	Power Sensing 110-240 VAC 50/60 Hz

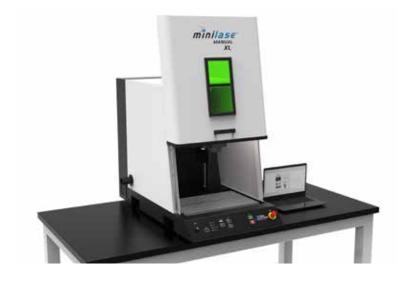
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System Specifications	Minilase™
System Dimensions (LxWxH)	878mm x 427mm x 625mm /34.6" x 16.8" x 24.6"
Weight (approx.)	59kg / 130lbs
Max Part Size (LxW)	228mm x 254mm / 12" x 9"
Laser Focus Control	Power (Programmable Upgrade Available)
Door Type	Pneumatic Vertical with Patented Safety (60-80 psi required)
Work Surface	T-slot Tooling Plate
Standard Software Package	Minilase Pro SE
PC	Windows 10 / 11 PC Required for Operation
External Connectors	USB / Diagnostic / Basic IO
Included Accessories	Laser Enable Keys (2) / Power & USB Cable / USB Drive with Software
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials
Warranty	24 Months

Focal Lens Specifications

Standard F-Theta Focal Lens

Lens Size	163L M85
Marking Field	100mm x 100mm / 3.93" x 3.93"
Max Part Height	89mm / 3.5"

Minilase™ XL Manual



MXLM Models

Model	Part #
Minilase XL Manual 20W	MXLM20
Minilase XL Manual 60W	MXLM60
Minilase XL Manual 100W	MXLM100

Lens Options

Item	Part #
254mm Lens Upgrade	254 Lens Upgrade
254mm Lens Add-On	254 Lens Add-On
330mm Lens Upgrade	330 Lens Upgrade
330mm Lens Add-On	330 Lens Add-On

Accessories

ltem	Part #
Programmable Z Upgrade	Prog. Z Upgrade
MXL Mobile Cart	MXL Cart
Class 4 Pass Through	Pass Through

See fume extraction and rotary products for complete options

Technical Specifications

Laser Specifications	Minilase™ XL Manual		
Laser Type	Ytterbium Fiber		
Wavelength	1062nm +/- 3nm		
Wattage Ratings	20W	60W	100W
Frequency Range	1 - 4,000kHz, CW Mode	1 - 4,000kHz, C	W Mode
Pulse Duration	16 Available, 2-350ns	16 Available, 2-5	00ns
Operative Ambient Air Temp.	7° - 40° C / 45° - 104° F		
Cooling Type	Forced Air		
Red Alignment Laser (RAL)	Class II Red Diode (635nm)		
Red Focusing Laser (RFL)	Class II Red Diode (635nm)		
Power Requirement	Power Sensing 110-240 VAC 50/60	Hz	

System Specifications	Minilase™ XL Manual
System Dimensions (LxWxH)	1,079mm x 610mm x 851mm / 42.5" x 24" x 33.5"
Weight (approx.)	91kg / 200lbs
Max Part Size (LxW)	317mm x 508mm / 12.5" x 20"
Laser Focus Control	Power (Programmable Upgrade Available)
Door Type	Manual
Work Surface	Breadboard Tooling Plate with Tapped Holes
Standard Software Package	Minilase Pro 3 64-Bit
PC	Windows 10 / 11 PC Required for Operation
External Connectors	USB (2) / Diagnostic
Included Accessories	Laser Enable Keys (2) / Power Cable / USB Drive with Software Backup
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials
Warranty	24 Months

Focal Lens Options:

Standard F-Theta Focal Lens

Lens Size	163L M85
Marking Field	100mm x 100mm / 3.93" x 3.93"
May Part Height	317mm / 12 5"

Lens Size	254L M85
Marking Field	165mm x 165mm / 6.5" x 6.5"
Max Part Height	209mm / 8.2"
Lens Size	330L M85
Marking Field	200mm x 200mm / 7.87" x 7.87"
Max Part Height	117mm / 4.6"

Minilase™ XL Manual UV



MXLM UV Models

Model	Part #
Minilase XL Manual 10W UV	MXLM10 UV

Lens Options

Item	Part #
254mm UV Lens Upgrade	254 UV Lens Upgrade
254mm UV Lens Add-On	254 UV Lens Add-On
330mm UV Lens Upgrade	330 UV Lens Upgrade
330mm UV Lens Add-On	330 UV Lens Add-On

Accessories

ltem	Part #
Programmable Z Upgrade	Prog. Z Upgrade
Class 4 Pass Through	PassThrough
See fume extraction and rotary products for con	nplete options

Technical Specifications

Laser Specifications Minilase™ XL UV Manual Laser Type Diode Pumped Solid State Ultraviolet Wavelength Wattage Ratings 10W Frequency Range 40 - 300kHz Pulse Duration 18ns @ 60kHz Operative Ambient Air Temp. 7° - 35° C / 45° - 95° F Cooling Type Closed Loop Chiller (Water/Propylene Glycol Mix) Red Alignment Laser (RAL) Class II Red Diode (635nm) Red Focusing Laser (RFL) Class II Red Diode (635nm) Power Requirement 220 VAC 50/60 Hz, 30A

System Specifications	Minilase™ XL UV Manual
Enclosure Dims (LxWxH)	1,079mm x 610mm x 851mm / 42.5" x 24" x 33.5"
Rack Dims (LxWxH)	912mm x 566mm x 627mm / 35.9" x 22.3" x 24.7"
Weight (approx.)	Enclosure - 91kg / 2001bs Rack - Available Upon Request
Max Part Size (LxW)	317mm x 508mm / 12.5" x 20"
Laser Focus Control	Power (Programmable Upgrade Available)
Door Type	Manual
Work Surface	Breadboard Tooling Plate with Tapped Holes
Standard Software Package	Minilase Pro 3 64-Bit
PC	Windows 10 / 11 PC Required for Operation
External Connectors	USB (2) / Diagnostic
Included Accessories	Laser Enable Keys (2) / Power Cable / USB Drive with Software Backup
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials
Warranty	Mechanical and Controls - 24 Months UV Source - 12 Months Chiller - 12 Months

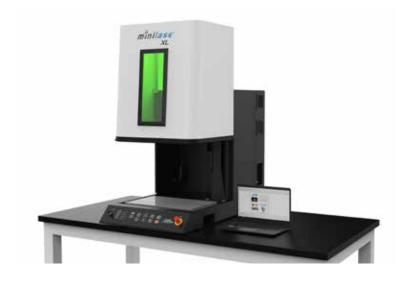
Focal Lens Options:

Standard F-Theta Focal Lens

Lens Size	163L UV M85
Marking Field	100mm x 100mm / 3.93" x 3.93"
Max Part Height	Consult TE
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Lens Size	254L UV M85
Marking Field	150mm x 150mm / 5.9" x 5.9"
Max Part Height	Consult TE
Lens Size	330L UV M85
	330L UV M85 200mm x 200mm / 7.87" x 7.87"

Minilase™ XL



MXL Models

Model	Part #
Minilase XL 20W	MXL20
Minilase XL 60W	MXL60
Minilase XL 100W	MXL100

Lens Options

ltem	Part #
254mm Lens Upgrade	254 Lens Upgrade
254mm Lens Add-On	254 Lens Add-On
330mm Lens Upgrade	330 Lens Upgrade
330mm Lens Add-On	330 Lens Add-On

Accessories

Part #
Prog. Z Upgrade
MXL Cart
PassThrough

See fume extraction and rotary products for complete options

Technical Specifications

Laser Specifications	Minilase™ XL		
Laser Type	MOPA Ytterbium Fiber		
Wavelength	1062nm +/- 3nm		
Wattage Ratings	20W	60W	100W
Frequency Range	1 - 4,000kHz, CW Mode	1 - 4,000kHz, CV	/ Mode
Pulse Duration	16 Available, 2-350ns	16 Available, 2-50	Ons
Operative Ambient Air Temp.	7° - 40° C / 45° - 104° F		
Cooling Type	Forced Air		
Red Alignment Laser (RAL)	Class II Red Diode (635nm)		
Red Focusing Laser (RFL)	Class II Red Diode (635nm)		
Power Requirement	Power Sensing 110-240 VAC	50/60 Hz	

System Specifications	Minilase™ XL
System Dimensions (LxWxH)	1,079mm x 610mm x 851mm 42.5" x 24" x 33.5"
Weight (approx.)	91kg / 200lbs
Max Part Size (LxW)	317mm x 508mm / 12.5" x 20"
Laser Focus Control	Power (Programmable Upgrade Available)
Door Type	Pneumatic Vertical with Patented Safety (60-80 psi required)
Work Surface	Breadboard Tooling Plate with Tapped Holes
Standard Software Package	Minilase Pro 3 64-Bit
PC	Windows 10 / 11 PC Required for Operation
External Connectors	USB (2) / Diagnostic / Ethernet / Automation Mode Connector
Included Accessories	Laser Enable Keys (2) / Power Cable / USB Drive with Software Backup / Class 4 Service Override Key
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials
W/a	24 Mantha

Warranty 24 Months

Focal Lens Specifications

Standard F-Theta Focal Lens

Lens Size	163L M85
Marking Field	100mm x 100mm / 3.93" x 3.93"
Max Part Height	317mm / 12.5"

Lens Size	254L M85
Marking Field	165mm x 165mm / 6.5" x 6.5"
Mark Part Height	209mm / 8.2"
Lens Size	330L M85
Marking Field	200mm x 200mm / 7.87" x 7.87"
Max Part Height	117mm / 4.6"

Zetalase™ XL



ZXL Models

Model	Part #
Zetalase XL 20W	ZXL20
Zetalase XL 60W	ZXL60
Zetalase XL 100W	ZXL100

Lens Options

ltem	Part #
254mm Lens Upgrade	254 Lens Upgrade
254mm Lens Add-On	254 Lens Add-On
330mm Lens Upgrade	330 Lens Upgrade
330mm Lens Add-On	330 Lens Add-On
420mm Lens Upgrade	420 Lens Upgrade
420mm Lens Add-On	420 Lens Add-On

Accessories

Part #
ZXLYA
ZXL Casters
ZXL Auto Mode

See fume extraction and rotary products for complete options

Technical Specifications

Laser Specifications	Zetalase™ XL		
Laser Type	MOPA Ytterbium Fiber		
Wavelength	1062nm +/- 3nm		
Wattage Ratings	20W	60W	100W
Frequency Range	1 - 4,000kHz, CW Mode	1 - 4,000kHz, CV	/ Mode
Pulse Duration	16 Available, 2-350ns	16 Available, 2-50	Ons
Operative Ambient Air Temp.	7° - 40° C / 45° - 104° F		
Cooling Type	Forced Air		
Red Alignment Laser (RAL)	Class II Red Diode (635nm)		
Red Focusing Laser (RFL)	Class II Red Diode (635nm)		
Power Requirement	Power Sensing 110-240 VAC	50/60 Hz	

System Specifications	Zetalase™ XL
System Dimensions (LxWxH)	1,321mm x 813mm x 1,880mm / 52" x 32" x 74" (not including monitor arm)
Weight (approx.)	227kg / 500lbs
Max Part Size (LxW)	609mm x 762mm / 24" x 30" 1,066mm x 382mm / 42" x 15" (Using Divider Wall Opening)
Laser Focus Control	Programmable
Door Type	Pneumatic Vertical with Patented Safety (60-80 psi required)
Work Surface	T-slot Tooling Plate
Standard Software Package	Minilase Pro 3 64-Bit
PC	Integrated Windows 10 PC w/Monitor, Keyboard, and Mouse
External Connectors	VGA / USB (3) / Diagnostic / Ethernet
Included Accessories	Laser Enable Keys (2) / Power Cable / USB Drive with Software Backup / Class 4 Service Override Key
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials

Warranty 24 Months

Focal Lens Specifications

Standard F-Theta Focal Lens

Lens Size	163L M85
Marking Field	100mm x 100mm / 3.93" x 3.93"
Max Part Height	495mm / 19.5"

Lens Size	254L M85
Marking Field	165mm x 165mm / 6.5" x 6.5"
Max Part Height	384mm / 15.1"
Lens Size	330L M85
Marking Field	200mm x 200mm / 7.87" x 7.87"
Max Part Height	300mm / 11.8"
Lens Size	420L M85
Lens Size / Marking Field	260mm x 260mm / 10.2" x 10.2"
Max Part Height	224mm / 8.8"

Zetalase™ XL CO2



ZXL CO2 Models

	Model	Part #
	Zetalase XL CO2 60W	ZXL CO2 60
	Zetalase XL CO2 100W	ZXL CO2 100
Lens Options (No Standard Lens Included)		
	' '	<u> </u>

Item	Part #
F150 CO2 Lens	F150 CO2 Lens
F200 CO2 Lens	F200 CO2 Lens
F250 CO2 Lens	F250 CO2 Lens
F300 CO2 Lens	F300 CO2 Lens

Accessories

ltem	Part #
Mobile Casters	ZXL Casters
Automation Mode	ZXL Auto Mode
See fume extraction and rotary products for complete options	

Technical Specifications

System Specifications	Zetalase™ XL CO2
System Dimensions (LxWxH)	1,321mm × 813mm × 1,880mm / 52" × 32" × 74" (not including monitor arm)
Weight (approx.)	227kg / 500lbs
Max Part Size (LxW)	609mm x 762mm / 24" x 30" 1,066mm x 382mm / 42" x 15" (Using Divider Wall Opening)
Laser Focus Control	Programmable
Door Type	Pneumatic Vertical with Patented Safety (60-80 psi required)
Work Surface	T-slot Tooling Plate
Standard Software Package	Minilase Pro 3 64-Bit
PC	Integrated Windows 10 PC w/Monitor, Keyboard, and Mouse
External Connectors	VGA / USB (3) / Diagnostic / Ethernet
Included Accessories	Laser Enable Keys (2) / Power Cable / USB Drive with Software Backup / Class 4 Service Override Key
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials
Warranty	Mechanical and Controls - 24 Months CO2 Source - 24 Months

Focal Lens Specifications

F-Theta Focal Lens Options

Lens Size	F150
Marking Field	110mm x 110mm / 4.3" x 4.3"
Max Part Height	558mm / 21.9"
Lens Size	F200
Marking Field	140mm x 140mm / 5.5" x 5.5"
Max Part Height	Consult TE
Lens Size	F250
Marking Field	175mm x 175mm / 6.88" x 6.88"
Max Part Height	462mm / 18.1"
Lens Size	F300
Lens Size / Marking Field	210mm x 210mm / 8.2" x 8.2"
Max Part Height	336mm / 13.2"

Zetalase™ XL UV



ZXL UV Models

Model	Part #
Zetalase XL UV 10W	ZXLUV10

Lens Options

Item	Part #
254mm UV Lens Upgrade	254 UV Upgrade
254mm UV Lens Add-On	254 UV Add-On
330mm UV Lens Upgrade	330 UV Upgrade
330mm UV Lens Add-On	330 UV Add-On
420mm UV Lens Upgrade	420 UV Upgrade
420mm UV Lens Add-On	420 UV Add-On

Accessories

ltem	Part #
Gantry Linear Y Axis	ZXLYA
Automation Mode ZXL Auto Mode	
See fume extraction and rotary products for complete options	

Technical Specifications

System Specifications	Zetalase™ XL UV
System Dimensions (LxWxH)	1,321mm × 813mm × 1,880mm / 52" × 32" × 74" (not including monitor arm)
Weight (approx.)	227kg / 500lbs
Max Part Size (LxW)	609mm x 762mm / 24" x 30" 1,066mm x 382mm / 42" x 15" (Using Divider Wall Opening)
Laser Focus Control	Programmable
Door Type	Pneumatic Vertical with Patented Safety (60-80 psi required)
Work Surface	T-slot Tooling Plate
Standard Software Package	Minilase Pro 3 64-Bit
PC	Integrated Windows 10 PC w/Monitor, Keyboard, and Mouse
External Connectors	VGA / USB (3) / Diagnostic / Ethernet
Included Accessories	Laser Enable Keys (2) / Power Cable / USB Drive with Software Backup / Class 4 Service Override Key
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials
Warranty	Mechanical and Controls - 24 Months UV Source - 12 Months Chiller - 12 Months

Focal Lens Specifications

Standard F-Theta Focal Lens

Lens Size	163L UV M85
Marking Field	100mm x 100mm / 3.93" x 3.93"
Max Part Height	438mm / 17.2"

Lens Size	254L UV M85
Marking Field	150mm x 150mm / 5.9" x 5.9"
Max Part Height	330mm / 13"
Lens Size	330L UV M85
Marking Field	200mm x 200mm / 7.87" x 7.87"
Max Part Height	243mm / 9.6"
Lens Size	420L UV M85
Lens Size / Marking Field	260mm x 260mm / 10.2" x 10.2"
Max Part Height	167mm / 6.5"

Zetalase™ XL UV 3D



ZXL UV 3D Models Model Zetalase XL UV 3D 10W ZXL3DUV10 Lens Options Item Part # 330mm UV Lens Upgrade 330 UV Upgrade 330 UV Add-On Accessories Item Part # Gantry Linear Y Axis ZXLYA

Automation Mode ZXL Auto Mode

Technical Specifications

Laser Specifications	Zetalase™ XL UV 3D
Laser Type	Diode Pumped Solid State Ultraviolet
Wavelength	355nm
Wattage Ratings	10W
Frequency Range	40 - 300kHz
Pulse Duration	18ns @ 60kHz
Operative Ambient Air Temp.	7° - 35° C / 45° - 95° F
Cooling Type	Closed Loop Chiller (Water/Propylene Glycol Mix)
Red Alignment Laser (RAL)	Class II Red Diode (635nm)
Red Focusing Laser (RFL)	Class II Red Diode (635nm)
Power Requirement	220 VAC 50/60 Hz, 30A
System Specifications	Zetalase™ XL UV 3D
System Dimensions (LxWxH)	1,321mm x 813mm x 1,880mm / 52" x 32" x 74" (not including monitor arm)
Weight (approx.)	227kg / 500lbs
Max Part Size (LxW)	609mm x 762mm / 24" x 30" 1,066mm x 382mm / 42" x 15" (Using Divider Wall Opening)
Laser Focus Control	Programmable
Door Type	Pneumatic Vertical with Patented Safety (60-80 psi required)
Work Surface	T-slot Tooling Plate
Standard Software Package	Minilase Pro 3 64-Bit
PC	Integrated Windows 10 PC w/Monitor, Keyboard, and Mouse
External Connectors	VGA / USB (3) / Diagnostic / Ethernet
Included Accessories	Laser Enable Keys (2) / Power Cable / USB Drive with Software Backup / Class 4 Service Override Key
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials
Warranty	Mechanical and Controls - 24 Months UV Source - 12 Months Chiller - 12 Months

Focal Lens & 3D Specifications

See fume extraction and rotary products for complete options

Standard F-Theta Focal Lens

Lens Size	254L M85
Marking Field	150mm x 150mm / 5.9" x 5.9"
Max Part Height	384mm / 15.1"
3D Dynamic Focus Range	40mm / 1.57"

Lens Size	330L M85
Marking Field	200mm x 200mm / 7.87" x 7.87"
Max Part Height	300mm / 11.8"
3D Dynamic Focus Range	40mm / 1.57"

Zetalase™ XL 3D



ZXL 3D Models

Model	Part #
Zetalase XL 3D 20W	ZXL20 3D
Zetalase XL 3D 50W	ZXL50 3D
Zetalase XL 3D 100W	ZXL100 3D

Lens Options

Item	Part #
330mm Lens Upgrade	330 Lens Upgrade
330mm Lens Add-On	330 Lens Add-On

Accessories

Item	Part #
Gantry Linear Y Axis	ZXLYA
Mobile Casters	ZXL Casters
Automation Mode ZXL Auto Mode	
See fume extraction and rotary products for complete options	

Technical Specifications

Laser Specifications Laser Type Wavelength Wattage Ratings Pulse Duration Operative Ambient Air Temp. Cooling Type Red Alignment Laser (RAL) Red Focusing Laser (RFL) Power Requirement NOPA Ytterbium Fiber 1062nm +/- 3nm 20W 50W 100W 1 - 2,000kHz 2 + 49 Available, 6-2,020ns 7° - 40° C / 45° - 104° F Forced Air Class II Red Diode (635nm) Power Sensing 110-240 VAC 50/60 Hz

System Specifications	Zetalase™ XL 3D
System Dimensions (LxWxH)	1,321mm × 813mm × 1,880mm / 52" × 32" × 74" (not including monitor arm)
Weight (approx.)	227kg / 500lbs
Max Part Size (LxW)	609mm x 762mm / 24" x 30" 1,066mm x 382mm / 42" x 15" (Using Divider Wall Opening)
Laser Focus Control	Programmable
Door Type	Pneumatic Vertical with Patented Safety (60-80 psi required)
Work Surface	T-slot Tooling Plate
Standard Software Package	Minilase Pro 3 64-Bit
PC	Integrated Windows 10 PC w/Monitor, Keyboard, and Mouse
External Connectors	VGA / USB (3) / Diagnostic / Ethernet
Included Accessories	Laser Enable Keys (2) / Power Cable / USB Drive with Software Backup / Class 4 Service Override Key
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials
Warranty	24 Months

Focal Lens & 3D Specifications

Standard F-Theta Focal Lens

Lens Size	254L M85
Marking Field	165mm x 165mm / 6.5" x 6.5"
Max Part Height	384mm / 15.1"
3D Dynamic Focus Range	40mm / 1.57"

Lens Size	330L M85
Marking Field	200mm x 200mm / 7.87" x 7.87"
Max Part Height	300mm / 11.8"
3D Dynamic Focus Range	40mm / 1.57"

Zetalase™ XL LFSS 3D



ZXL LFSS 3D Models

Model	Part #
Zetalase XL LFSS 3D 20W	ZXL20 LFSS 3D
Zetalase XL LFSS 3D 50W	ZXL50 LFSS 3D
Zetalase XL LFSS 3D 100W	ZXL100 LFSS 3D

Accessories

Item	Part #
Gantry Linear Y Axis	ZXLYA
Mobile Casters	ZXL Casters
Automation Mode	ZXL Auto Mode
See fume outraction and retary products for complete entires	

Technical Specifications

Laser Specifications	Zetalase™	XL LFSS 3D	
Laser Type	MOPA Ytterl	MOPA Ytterbium Fiber	
Wavelength	1062nm +/-	1062nm +/- 3nm	
Wattage Ratings	20W	50W	100W
Frequency Range	1 - 500kHz		1 - 2,000kHz
Pulse Duration	2 Available, 4	40 or 260ns	49 Available, 6-2,020ns
Operative Ambient Air Temp.	7° - 40° C / 45° - 104° F		
Cooling Type	Forced Air		
Red Alignment Laser (RAL)	Class II Red Diode (635nm)		
Power Requirement	Power Sensing 110-240 VAC 50/60 Hz		

System Specifications	Zetalase™ XL LFSS 3D
System Dimensions (LxWxH)	1,321mm x 813mm x 1,880mm / 52" x 32" x 74" (not including monitor arm)
Weight (approx.)	227kg / 500lbs
Max Part Size (LxW)	609mm x 762mm / 24" x 30" 1,066mm x 382mm / 42" x 15" (Using Divider Wall Opening)
Laser Focus Control	Programmable
Door Type	Pneumatic Vertical with Patented Safety (60-80 psi required)
Work Surface	T-slot Tooling Plate
Standard Software Package	Minilase Pro 3 64-Bit
PC	Integrated Windows 10 PC w/Monitor, Keyboard, and Mouse
External Connectors	VGA / USB (3) / Diagnostic / Ethernet
Included Accessories	Laser Enable Keys (2) / Power Cable / USB Drive with Software Backup / Class 4 Service Override Key
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials
Warranty	24 Months

Marking Field & 3D Specifications

Marking Field Specifications	Zetalase XL LFSS 3D
Marking Field	457mm x 457mm / 18" x 18"
Max Part Height	254mm / 10"
3D Dynamic Focus Range	100mm / 3.93"
-	

EMS400 XYZ



EMS400 Models

Model	Part #
EMS400 20W	EMS400 20
EMS400 60W	EMS400 60
EMS400 100W	EMS400 100

Lens Options

ltem	Part #
254mm Lens Upgrade	254 Lens Upgrade
254mm Lens Add-On	254 Lens Add-On
330mm Lens Upgrade	330 Lens Upgrade
330mm Lens Add-On	330 Lens Add-On
420mm Lens Upgrade	420 Lens Upgrade
420mm Lens Add-On	420 Lens Add-On

Accessories

ltem	Part #
Footswitch for Start Marking	Footswitch

See fume extraction and rotary products for complete options

Technical Specifications

Laser Specifications	EMS400		
Laser Type	MOPA Ytterbium Fiber		
Wavelength	1062nm +/- 3nm		
Wattage Ratings	20W	60W	100W
Frequency Range	1 - 4,000kHz, CW Mode	1 - 4,000kHz, CV	/ Mode
Pulse Duration	16 Available, 2-350ns	16 Available, 2-50	Ons
Operative Ambient Air Temp.	7° - 40° C / 45° - 104° F		
Cooling Type	Forced Air		
Red Alignment Laser (RAL)	Class II Red Diode (635nm)		
Red Focusing Laser (RFL)	Class II Red Diode (635nm)		
Power Requirement	Power Sensing 110-240 VAC 50/60 Hz		

System Specifications	EMS400
System Dimensions (LxWxH)	1,672mm x 1,504mm x 2,235mm / 66" x 59" x 88" (not including monitor arm)
Weight (approx.)	817kg / 1,800lbs
Max Part Size (LxW)	610m x 610mm / 24" x 24"
Laser Focus Control	Programmable
Door Type	Pneumatic Vertical with Patented Safety (60-80 psi required)
XY Stage Work Surface	Custom Tooling Plate with Tapped Holes (Imperial or Metric Available)
Standard Software Package	Minilase Pro 3 64-Bit
PC	Integrated Windows 10 PC w/Monitor, Keyboard, and Mouse
External Connectors	VGA / USB (3) / Diagnostic / Ethernet
Included Accessories	Laser Enable Keys (2) / Power Cable / USB Drive with Software Backup / Class 4 Service Override Key
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials
Warranty	24 Months

XY Field & Focal Lens Specifications

XY Stage

XY Stage	EMS400
Marking Field	24" x 24"

Standard F-Theta Focal Lens

Lens Size	163L M85
Marking Field	100mm x 100mm / 3.93" x 3.93"
Max Part Height	454mm / 17.8"

Lens Size	254L M85
Marking Field	165mm x 165mm / 6.5" x 6.5"
Max Part Height	343mm / 13.5"
Lens Size	330L M85
Marking Field	200mm x 200mm / 7.87" x 7.87"
Max Part Height	259mm / 10"
Lens Size	420L M85
Lens Size / Marking Field	260mm x 260mm / 10.2" x 10.2"
Max Part Height	183mm / 7.2"

EMS400 XYZ 3D



EMS400 3D Models

Model	Part #
EMS400 3D 20W	EMS400 3D 20
EMS400 3D 50W	EMS400 3D 50
EMS400 3D 100W	EMS400 3D 100
Lens Options	
Item	Part #
330mm Lens Upgrade	Lens 330mm 9283
330mm Lens Add-On	660330
Accessories	
Item	Part #
Footswitch for Start Marking	Footswitch
Toolomicon of other marking	

Technical Specifications

Laser Specifications	EMS400 3	D	
Laser Type	MOPA Ytterbium Fiber		
Wavelength	1062nm +/- 3nm		
Wattage Ratings	20W	50W	100W
Frequency Range	1 - 500kHz		1 - 2,000kHz
Pulse Duration	2 Available, 4	Ons & 260ns	49 Available, 6-2,020ns
Operative Ambient Air Temp.	7° - 40° C / 45° - 104° F		
Cooling Type	Forced Air		
Red Alignment Laser (RAL)	Class II Red Diode (635nm)		
Red Focusing Laser (RFL)	Class II Red Diode (635nm)		
Power Requirement	Power Sensing 110-240 VAC 50/60 Hz		

System Specifications	EMS400 3D
System Dimensions (LxWxH)	1,672mm x 1,504mm x 2,235mm / 66" x 59" x 88" (not including monitor arm)
Weight (approx.)	817kg / 1,800lbs
Max Part Size (LxW)	610m x 610mm / 24" x 24"
Laser Focus Control	Programmable
Door Type	Pneumatic Vertical with Patented Safety (60-80 psi required)
XY Stage Work Surface	Custom Tooling Plate with Tapped Holes (Imperial or Metric Available)
Standard Software Package	Minilase Pro 3 64-Bit
PC	Integrated Windows 10 PC w/Monitor, Keyboard, and Mouse
External Connectors	VGA / USB (3) / Diagnostic / Ethernet
Included Accessories	Laser Enable Keys (2) / Power Cable / USB Drive with Software Backup / Class 4 Service Override Key
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials
Warranty	24 Months

XY Field, 3D, & Focal Lens Specifications

XY Stage

Marking Field	24" x 24"		
Standard F-Theta Focal Lens			
Standard i incta i ocal Ecris			
Lens Size	254L M85		
Lens Size Marking Field	254L M85 165mm x 165mm / 6.5" x 6.5"		

Lens Size	330L M85
Marking Field	200mm x 200mm / 7.87" x 7.87"
Max Part Height	259mm / 10"
3D Dynamic Focus Range	40mm / 1.57"

ATLAS™ XYZ



ATLAS Models

Part #
ATLAS 20
ATLAS 60
ATLAS 100

Lens Options

ltem	Part #	Distributor Price
254mm Lens Upgrade	254 Lens Upgrade	
254mm Lens Add-On	254 Lens Add-On	
330mm Lens Upgrade	330 Lens Upgrade	
330mm Lens Add-On	330 Lens Add-On	
420mm Lens Upgrade	420 Lens Upgrade	
420mm Lens Add-On	420 Lens Add-On	

Accessories

ltem	Part #
Footswitch for Start Marking	Footswitch
See fume extraction and rotary products for complete options	

Technical Specifications

Laser Specifications ATLAS Laser Type MOPA Ytterbium Fiber Wavelength 1062nm +/- 3nm Wattage Ratings 20W 60W 1 - 4,000kHz, CW Mode 1 - 4,000kHz, CW Mode Frequency Range 16 Available, 2-500ns Pulse Duration 16 Available, 2-350ns Operative Ambient Air Temp. 7° - 40° C / 45° - 104° F Cooling Type Forced Air Red Alignment Laser (RAL) Class II Red Diode (635nm) Red Focusing Laser (RFL) Class II Red Diode (635nm) Power Requirement Power Sensing 110-240 VAC 50/60 Hz

System Specifications	ATLAS	
System Dimensions (LxWxH)	1,449mm x 1,975mm x 2,334mm / 57" x 77.8" x 92" (not including stack light)	
Weight (approx.)	1,134kg / 2,500lbs	
Max Part Size (LxW)	610m x 1,219mm / 24" x 48"	
Laser Focus Control	Programmable	
Door Type	Pneumatic Vertical with Patented Safety (60-80 psi required)	
Work Surface	Breadboard Tooling Plate with Tapped Holes	
Standard Software Package	Minilase Pro 3 64-Bit	
PC	Integrated Windows 10 PC w/Monitor, Keyboard, and Mouse	
External Connectors	USB / Diagnostic / Ethernet	
Included Accessories	Laser Enable Keys (2) / Power Cable / USB Drive with Software Backup	
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials	
Warranty	24 Months	

XY Field & Focal Lens Specifications

XY Gantry/Stage

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XY	ATLAS
Total Marking Field	24" x 48"

Standard F-Theta Focal Lens

Lens Size	163L M85
Marking Field	100mm x 100mm / 3.93" x 3.93"
Max Part Height	339mm / 13.375"

Lens Size	254L M85
Marking Field	165mm x 165mm / 6.5" x 6.5"
Max Part Height	228mm / 8.9"
Lens Size	330L M85
Marking Field	200mm x 200mm / 7.87" x 7.87"
Max Part Height	144mm / 5.66"
Lens Size	420L M85
Lens Size / Marking Field	260mm x 260mm / 10.2" x 10.2"
Max Part Height	68mm / 2.7"

ATLAS™ XYZ 3D



ATLAS 3D Models

Model	Part #
ATLAS 3D 20W	ATLAS20 3D
ATLAS 3D 50W	ATLAS50 3D
ATLAS 3D 100W	ATLAS100 3D
Lens Options	
ltem	Part #
330mm Lens Upgrade	330 Lens Upgrade
330mm Lens Add-On	330 Lens Add-On
Accessories	
Item	Part #
Footswitch for Start Marking	Footswitch
See fume extraction and rotary products for cor	The state of the s

Technical Specifications

Laser Specifications	ATLAS		
Laser Type	MOPA Ytterbium Fiber		
Wavelength	1062nm +/- 3nm		
Wattage Ratings	20W	50W	100W
Frequency Range	1 - 500kHz		1 - 2,000kHz
Pulse Duration	2 Available, 4	0 or 260ns	49 Available, 6-2,020ns
Operative Ambient Air Temp.	7° - 40° C / 45° - 104° F		
Cooling Type	Forced Air		
Red Alignment Laser (RAL)	Class II Red Diode (635nm)		
Red Focusing Laser (RFL)	Class II Red Diode (635nm)		
Power Requirement	Power Sensing 110-240 VAC 50/60 Hz		

System Specifications	ATLAS	
System Dimensions (LxWxH)	1,449mm x 1,975mm x 2,334mm / 57" x 77.8" x 92" (not including stack light)	
Weight (approx.)	1,134kg / 2,500lbs	
Max Part Size (LxW)	610m x 1,219mm / 24" x 48"	
Laser Focus Control	Programmable	
Door Type	Pneumatic Vertical with Patented Safety (60-80 psi required)	
Work Surface	Breadboard Tooling Plate with Tapped Holes	
Standard Software Package	Minilase Pro 3 64-Bit	
PC	Integrated Windows 10 PC w/Monitor, Keyboard, and Mouse	
External Connectors	USB / Diagnostic / Ethernet	
Included Accessories	Laser Enable Keys (2) / Power Cable / USB Drive with Software Backup	
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials	
Warranty	24 Months	

XY Field, 3D, & Focal Lens Specifications

XY Gantry/Stage

05 (1 1405		
Standard F-Theta Focal Lens		
XY Field	24" x 48"	

Lens Size

Marking Field

Max Part Height

3D Dynamic Focus Range

254L M85

165mm x 165mm / 6.5" x 6.5"

228mm / 8.9"

40mm / 1.57"

Lens Size	330L M85
Marking Field	200mm x 200mm / 7.87" x 7.87"
Working Distance	144mm / 5.66"
3D Dynamic Focus Range	40mm / 1.57"

ATLAS™ XYZ LFSS 3D



ATLAS LFSS 3D Models

Model	Part #
ATLAS LFSS 3D 20W	ATLAS30 LFSS 3D
ATLAS LFSS 3D 50W	ATLAS50 LFSS 3D
ATLAS LFSS 3D 100W	ATLAS100 LFSS 3D

Accessories

ltem	Part #
Footswitch for Start Marking	Footswitch
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Technical Specifications

Laser Specifications	ATLAS LFSS 3D		
Laser Type	MOPA Ytterbium Fiber		
Wavelength	1062nm +/- 3nm		
Wattage Ratings	20W	50W	100W
Frequency Range	1 - 500kHz		1 - 2,000kHz
Pulse Duration	2 Available, 40 or 260ns		49 Available, 6-2,020ns
Operative Ambient Air Temp.	7° - 40° C / 45° - 104° F		
Cooling Type	Forced Air		
Red Alignment Laser (RAL)	Class II Red Diode (635nm)		
Power Requirement	Power Sensing 110-240 VAC 50/60 Hz		

System Specifications	ATLAS LFSS 3D	
System Dimensions (LxWxH)	1,449mm x 1,975mm x 2,334mm / 57" x 77.8" x 92" (not including stack light)	
Weight (approx.)	1,134kg / 2,500lbs	
Max Part Size (LxW)	610m x 1,219mm / 24" x 48"	
Laser Focus Control	Programmable	
Door Type	Pneumatic Vertical with Patented Safety (60-80 psi required)	
Work Surface	Breadboard Tooling Plate with Tapped Holes	
Standard Software Package	Minilase Pro 3 64-Bit	
PC	Integrated Windows 10 PC w/Monitor, Keyboard, and Mouse	
External Connectors	USB / Diagnostic / Ethernet	
Included Accessories	Laser Enable Keys (2) / Power Cable / USB Drive with Software Backup	
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials	
Warranty	24 Months	

XY Field & 3D Specifications

XY Gantry/Stage

XY Stage	ATLAS
Marking Field	24" x 48"
Marking Field Specifications	ATLAS LFSS 3D
Marking Field	457mm x 457mm / 18" x 18"
Max Part Height	Consult TE
3D Dynamic Focus Range	100mm / 3.93"

Zetalase™ Duo (Dial Index)



Zetalase Duo Models

Model	Part #
Zetalase Duo 20W	DISE20
Zetalase Duo 60W	DISE60
Zetalase Duo 100W	DISE100

Lens Options

ltem	Part #
254mm Lens Upgrade	254 Lens Upgrade
254mm Lens Add-On	254 Lens Add-On
330mm Lens Upgrade	330 Lens Upgrade
330mm Lens Add-On	330 Lens Add-On
420mm Lens Upgrade	420 Lens Upgrade
420mm Lens Add-On	420 Lens Add-On

Accessories

Item	Part #	
See fume extraction and rotary products for complete options		

Technical Specifications

Laser Specifications Laser Type Wavelength Wattage Ratings Frequency Range Pulse Duration Operative Ambient Air Temp. Red Alignment Laser (RAL) Red Focusing Laser (RFL) Power Requirement Laser Type MOPA Ytterbium Fiber 1062nm +/- 3nm 20W 60W 100W 1 - 4,000kHz, CW Mode 1 - 4,000kHz, CW Mod

System Specifications	Zetalase Duo	
System Dimensions (LxWxH)	1,260mm x 880mm x 1,751mm / 49.6" x 34.6" x 69" (not including monitor arm)	
Weight (approx.)	362kg / 800lbs	
Max Part Size (LxW)	240mm x 240mm / 9.45" x 9.45"	
Laser Focus Control	Programmable	
Door Type	Front Rotary Indexing Table / Side Service Access Door	
Work Surface	e Aluminum Index Plate with Mounting Hole Pattern	
Standard Software Package	Minilase Pro 3 64-Bit	
PC	Integrated Windows 10 PC w/Monitor, Keyboard, and Mouse	
External Connectors	USB / Diagnostic / Ethernet	
Included Accessories	Laser Enable Keys (2) / Power Cable / USB Drive with Software Backup	
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials	
Warranty	24 Months	

Focal Lens Specifications

Standard F-Theta Focal Lens

Lens Size	163L M85	
Marking Field	100mm x 100mm / 3.93" x 3.93"	
Max Part Height	227mm / 9" (Limited by index divider wall, fixture must raise component 37mm / 1.45")	
Optional F-Theta Focal Lens Upgrades		

Lens Size	254L M85	
Marking Field	165mm x 165mm / 6.5" x 6.5"	
Max Part Height	227mm / 9" (Limited by index divider wall)	
Lens Size	330L M85	
Marking Field	200mm x 200mm / 7.87" x 7.87"	
Max Part Height	183mm / 7.2"	
Lens Size	420L M85	
Lens Size / Marking Field	260mm x 260mm / 10.2" x 10.2"	
Max Part Height	78mm / 3"	

Zetalase™ Duo 3D (Dial Index)



Zetalase Duo 3D Models

	Model	Part #
	Zetalase Duo 3D 20W	DISE20 3D
	Zetalase Duo 3D 50W	DISE50 3D
	Zetalase Duo 3D 100W	DISE100 3D
Lens Options		

ltem	Part #
330mm Lens Upgrade	330 Lens Upgrade
330mm Lens Add-On	330 Lens Add-On

Accessories

Item	Part #
See fume extraction and rotary products for con	nplete options

Technical Specifications

Laser Specifications	Zetalase D	uo 3D	
Laser Type	MOPA Ytterk	oium Fiber	
Wavelength	1062nm +/- 3	Bnm	
Wattage Ratings	20W	50W	100W
Frequency Range	1 - 500kHz		1 - 2,000kHz
Pulse Duration	2 Available, 4	0 or 260ns	49 Available, 6-2,020ns
Operative Ambient Air Temp.	7° - 40° C / 4	45° - 104° F	
Cooling Type	Forced Air		
Red Alignment Laser (RAL)	Class II Red I	Diode (635nm)	
Red Focusing Laser (RFL)	Class II Red I	Diode (635nm)	
Power Requirement	Power Sensir	ng 110-240 VAC	C 50/60 Hz

System Specifications	Zetalase Duo 3D
System Dimensions (LxWxH)	1,260mm x 880mm x 1,751mm / 49.6" x 34.6" x 69" (not including monitor arm)
Weight (approx.)	362kg / 800lbs
Max Part Size (LxW)	240mm x 240mm / 9.45" x 9.45"
Laser Focus Control	Programmable
Door Type	Front Rotary Indexing Table / Side Service Access Door
Work Surface	Aluminum Index Plate with Mounting Hole Pattern
Standard Software Package	Minilase Pro 3 64-Bit
PC	Integrated Windows 10 PC w/Monitor, Keyboard, and Mouse
External Connectors	USB / Diagnostic / Ethernet
Included Accessories	Laser Enable Keys (2) / Power Cable / USB Drive with Software Backup
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials
Warranty	24 Months

Focal Lens & 3D Specifications

Standard F-Theta Focal Lens

Lens Size	254L M85
Marking Field	165mm x 165mm / 6.5" x 6.5"
Max Part Height	227mm / 9" (Limited by index divider wall, fixture must raise component 37mm / 1.45")
3D Dynamic Focus Range	40mm / 1.57"

Lens Size	330L M85
Marking Field	200mm x 200mm / 7.87" x 7.87"
Max Part Height	183mm / 7.2"
3D Dynamic Focus Range	40mm / 1.57"

SCORPIONTM LMRC (Standard Variant)

Scorpion LMRC is now available in place of the Scorpion G2 product, which faces extended lead times and increasing costs. As we transition to this product, please ensure you review the application requirements with your sales manager. This version will be shipped with Scriba and TYKMA Electrox will conduct a runoff test of the customer's existing .elc marking files for compabitility prior to shipment. In addition, this product is only available to existing Scorpion G2 users and is not recommended for sale to new clients until our new motion board, pendant, and Sparq software are ready to ship.



SCORPION LMRC Models

Model	Part #
SCORPION LMRC 20W	SCORPION LMRC 20
SCORPION LMRC 60W	SCORPION LMRC 60
SCORPION LMRC 100W	SCORPION LMRC 100

Lens Options

Item	Part #
254mm Lens Upgrade	254 Lens Upgrade
254mm Lens Add-On	254 Lens Add-On
330mm Lens Upgrade	330 Lens Upgrade
330mm Lens Add-On	330 Lens Add-On
420mm Lens Upgrade	420 Lens Upgrade
420mm Lens Add-On	420 Lens Add-On

Accessories

ltem	Part #
Laser Safety Glasses	Laser Safety Glasses
See fume extraction and rotary products for complete options	

Technical Specifications

Laser Specifications **SCORPION LMRC** Laser Type MOPA Ytterbium Fiber Wavelength 1062nm +/- 3nm Wattage Ratings 20W 60W 1 - 4,000kHz, CW Mode Frequency Range Pulse Duration 16 Available, 2-350ns 16 Available, 2-500ns Operative Ambient Air Temp. 7° - 40° C / 45° - 104° F Cooling Type Forced Air Red Alignment Laser (RAL) Class II Red Diode (635nm) Red Focusing Laser (RFL) Class II Red Diode (635nm) Power Requirement Power Sensing 110-240 VAC 50/60 Hz

System Specifications Head Dimensions (LxWxH) Rack Dimensions (LxWxH) Weight (approx.) Standard Software Package SCORPION LMRC S14mm x 102mm x 134mm / 20.2" x 4" x 5.3" 656mm x 419mm x 142mm / 25.8" x 16.6" x 5.6" Head - 6.3kg / 14lbs / Rack - 22.7kg / 50lbs
Rack Dimensions (LxWxH) 656mm x 419mm x 142mm / 25.8" x 16.6" x 5.6" Weight (approx.) Head - 6.3kg / 14lbs / Rack - 22.7kg / 50lbs
Weight (approx.) Head - 6.3kg / 14lbs / Rack - 22.7kg / 50lbs
Standard Software Package Scriba
PC Windows 10 / 11 PC Required for Programming Only
External Connectors USB / Diagnostic / Digital IO / Hardware Interlock / Stepper Motor Output (4)
Included Accessories Basic 3 Button Handheld Pendant / Laser Enable Keys (2) / Power & USB Cable / USB Drive with Software
Documentation Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide
Warranty 24 Months

Focal Lens Specifications

Standard F-Theta Focal Lens

Lens Size	163L M85
Marking Field	100mm x 100mm / 3.93" x 3.93"
Working Distance	189mm / 7.44"

Lens Size	254L M85
Marking Field	165mm x 165mm / 6.5" x 6.5"
Working Distance	297mm / 11.7"
Lens Size	330L M85
Marking Field	200mm x 200mm / 7.87" x 7.87"
Working Distance	389mm / 15.3"
Lens Size	420L M85
Lens Size / Marking Field	260mm x 260mm / 10.2" x 10.2"
Working Distance	494mm / 19.4"

SCORPIONTM RAPIDE LMRC (SPI EPZ Variant)

Scorpion LMRC is now available in place of the Scorpion G2 product, which faces extended lead times and increasing costs. As we transition to this product, please ensure you review the application requirements with your sales manager. This version will be shipped with Scriba and TYKMA Electrox will conduct a runoff test of the customer's existing .elc marking files for compabitility prior to shipment. In addition, this product is only available to existing Scorpion G2 users and is not recommended for sale to new clients until our new motion board, pendant, and Sparq software are ready to ship.



SCORPION RAPIDE LMRC Models

Model	Part #
SCORPION RAPIDE LMRC 20W	SCORPION RAPIDE LMRC 20
SCORPION RAPIDE LMRC 50W	SCORPION RAPIDE LMRC 50
SCORPION RAPIDE LMRC 70W	SCORPION RAPIDE LMRC 70

Lens Options

Item	Part #
254mm Lens Upgrade	254 Lens Upgrade
254mm Lens Add-On	254 Lens Add-On
330mm Lens Upgrade	330 Lens Upgrade
330mm Lens Add-On	330 Lens Add-On
420mm Lens Upgrade	420 Lens Upgrade
420mm Lens Add-On	420 Lens Add-On

Accessories

Item	Part #
Laser Safety Glasses	Laser Safety Glasses
See fume extraction and rotary products for complete options	

Technical Specifications

Laser Type Wavelength Wattage Ratings Frequency Range Pulse Duration Operative Ambient Air Temp. Cooling Type Red Alignment Laser (RAL) Power Requirement SCORPION RAPIDE LMRC MOPA Ytterbium Fiber 1062nm +/- 3nm 20W 50W 100W 1- 1,000kHz 1- 1,000kHz 38 Avail., 6-500ns 37 Avail., 10-500ns 7° - 40° C / 45° - 104° F Forced Air Red Diode (635nm) Power Requirement Power Sensing 110-240 VAC 50/60 Hz

System Specifications	SCORPION RAPIDE LMRC
Head Dimensions (LxWxH)	514mm x 102mm x 134mm / 20.2" x 4" x 5.3"
Rack Dimensions (LxWxH)	656mm x 419mm x 142mm / 25.8" x 16.6" x 5.6"
Weight (approx.)	Head - 6.3kg / 14lbs / Rack - 22.7kg / 50lbs
Standard Software Package	Scriba
PC	Windows 10 / 11 PC Required for Programming Only
External Connectors	USB / Diagnostic / Digital IO / Hardware Interlock / Stepper Motor Output (4)
Included Accessories	Basic 3 Button Handheld Pendant / Laser Enable Keys (2) / Power & USB Cable / USB Drive with Software
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide
Warranty	24 Months

Focal Lens Specifications

Standard F-Theta Focal Lens

Lens Size	163L M85	
Marking Field	100mm x 100mm / 3.93" x 3.93"	
Working Distance	189mm / 7.44"	
Optional F-Theta Focal Lens Upgrades		
Lens Size	254L M85	
Marking Field	165mm x 165mm / 6.5" x 6.5"	
Working Distance	297mm / 11.7"	

Marking Field Working Distance	165mm x 165mm / 6.5" x 6.5" 297mm / 11.7"
Lens Size	330L M85
Marking Field	200mm x 200mm / 7.87" x 7.87"
Working Distance	389mm / 15.3"
Lens Size	420L M85
Lens Size / Marking Field	260mm x 260mm / 10.2" x 10.2"
Working Distance	494mm / 19.4"

VEREOTM



VEREO Models

Model	Part #
VEREO 20W	VSE 20
VEREO 60W	VSE 60
VEREO 100W	VSE 100

Lens Options

Item	Part #
254mm Lens Upgrade	254 Lens Upgrade
254mm Lens Add-On	254 Lens Add-On
330mm Lens Upgrade	330 Lens Upgrade
330mm Lens Add-On	330 Lens Add-On
420mm Lens Upgrade	420 Lens Upgrade
420mm Lens Add-On	420 Lens Add-On

Accessories

ltem	Part #
Rack Mount Accessory	VSE Rack Mount
Laser Safety Glasses	Laser Safety Glasses
See fume extraction and rotary products for complete options	

Technical Specifications

Laser Specifications Laser Type Wavelength Wattage Ratings Frequency Range Pulse Duration Operative Ambient Air Temp. Cooling Type Red Alignment Laser (RAL) Red Focusing Laser (RFL) Power Requirement VEREO MOPA Ytterbium Fiber 060W 100W 1-4,000kHz, CW Mode 1 - 4,000kHz, CW Mode 16 Available, 2-350ns 16 Available, 2-350ns 179 Forced Air Class II Red Diode (635nm) Power Requirement Power Sensing 110-240 VAC 50/60 Hz

System Specifications	VEREO
Head Dimensions (LxWxH)	429mm x 97mm x 127mm / 16.9" x 3.8" x 4.9"
Rack Dimensions (LxWxH)	483mm x 432mm x 146mm / 19" x 17" x 5.76" (100W Rack Drawing Available Upon Request)
Weight (approx.)	Head - 4.9kg / 11lbs / Rack - 22.7kg / 50lbs
Standard Software Package	Minilase Pro SE
PC	Windows 10 / 11 PC Required for Operation
External Connectors	USB / Diagnostic / Digital IO / Hardware Interlock / Stepper Motor Output (4)
Included Accessories	Laser Enable Keys (2) / Power & USB Cable / USB Drive with Software
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials
Warranty	24 Months

Focal Lens Specifications

Standard F-Theta Focal Lens

Lens Size	163L M85	
Marking Field	100mm x 100mm / 3.93" x 3.93"	
Working Distance	189mm / 7.44"	

Lens Size	254L M85
Marking Field	165mm x 165mm / 6.5" x 6.5"
Working Distance	297mm / 11.7"
Lens Size	330L M85
Marking Field	200mm x 200mm / 7.87" x 7.87"
Working Distance	389mm / 15.3"
Lens Size	420L M85
Lens Size / Marking Field	260mm x 260mm / 10.2" x 10.2"
Working Distance	494mm / 19.4"

VEREO™ Smart Integration Laser



VEREO Smart Models

Model	Part #
VEREO Smart 20W	VSM 20
VEREO Smart 60W	VSM 60
VEREO Smart 100W	VSM100

Lens Options

Item	Part #
254mm Lens Upgrade	254 Lens Upgrade
254mm Lens Add-On	254 Lens Add-On
330mm Lens Upgrade	330 Lens Upgrade
330mm Lens Add-On	330 Lens Add-On
420mm Lens Upgrade	420 Lens Upgrade
420mm Lens Add-On	420 Lens Add-On

Accessories

Item	Part #	
Rack Mount Accessory	VSE Rack Mount	
Laser Safety Glasses	Laser Safety Glasses	
See fume extraction and rotary products for complete options		

Technical Specifications

Laser Specifications Laser Type Wavelength Wavelength Wattage Ratings Frequency Range Pulse Duration Operative Ambient Air Temp. Cooling Type Red Alignment Laser (RAL) Red Focusing Laser (RFL) Power Requirement MOPA Ytterbium Fiber 060W 100W 1 - 4,000kHz, CW Mode 1 - 4,000kHz, CW Mo

System Specifications	VEREO Smart	
Head Dimensions (LxWxH)	429mm x 97mm x 127mm / 16.9" x 3.8" x 4.9"	
Rack Dimensions (LxWxH)	483mm x 432mm x 146mm / 19" x 17" x 5.76" (100W Rack Drawing Available Upon Request)	
Weight (approx.)	Head - 4.9kg / 11lbs / Rack - 22.7kg / 50lbs	
Standard Software Package	Minilase Pro SE	
PC	Required for Programming Only, Onboard Controller for Standalone Operation Included	
External Connectors	USB / Diagnostic / Digital IO / Hardware Interlock / Stepper Motor Output (4)	
Included Accessories	Laser Enable Keys (2) / Power & USB Cable / USB Drive with Software	
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials	
Warranty	24 Months	

Focal Lens Specifications

Standard F-Theta Focal Lens

Lens Size	163L M85
Marking Field	100mm x 100mm / 3.93" x 3.93"
Working Distance	189mm / 7.44"

Lens Size	254L M85
Marking Field	165mm x 165mm / 6.5" x 6.5"
Working Distance	297mm / 11.7"
Lens Size	330L M85
Marking Field	200mm x 200mm / 7.87" x 7.87"
Working Distance	389mm / 15.3"
Lens Size	420L M85
Lens Size / Marking Field	260mm x 260mm / 10.2" x 10.2"
Working Distance	494mm / 19.4"

VEREO™ 3D



VEREO 3D Models

Model	Part #
VEREO 3D 20W	VSE 3D 20
VEREO 3D 50W	VSE 3D 50
VEREO 3D 100W	VSE 3D 100

Lens Options

ltem	Part #
330mm Lens Upgrade	330 Lens Upgrade
330mm Lens Add-On	330 Lens Add-On

Accessories

Item Part	#	
Rack Mount Accessory VSE	Rack Mount	
Laser Safety Glasses Laser	- Safety Glasses	
See fume extraction and rotary products for complete options		

Technical Specifications

VEREO 3D Laser Specifications Laser Type Ytterbium Fiber Wavelength 1062nm +/- 3nm Wattage Ratings 20W 50W 100W 1 - 2,000kHz Frequency Range 1 - 500kHz Pulse Duration 2 Available, 40 or 260ns 49 Available, 6-2,020ns Operative Ambient Air Temp. 7° - 40° C / 45° - 104° F Cooling Type Forced Air Red Alignment Laser (RAL) Class II Red Diode (635nm) Red Focusing Laser (RFL) Class II Red Diode (635nm) Power Requirement Power Sensing 110-240 VAC 50/60 Hz

System Specifications	VEREO 3D		
Head Dimensions (LxWxH)	617mm x 99.7mm x 128.5mm / 24.3" x 3.9" x 5"		
Rack Dimensions (LxWxH)	483mm x 432mm x 146mm / 19" x 17" x 5.76" (100W Rack Drawing Available Upon Request)		
Weight (approx.)	Head - 4.9kg / 11lbs / Rack - 22.7kg / 50lbs		
Standard Software Package	Minilase Pro 3 64-Bit		
PC	Windows 10 / 11 PC Required for Operation		
External Connectors	USB / Diagnostic / Digital IO / Hardware Interlock / Stepper Motor Output (4)		
Included Accessories	Laser Enable Keys (2) / Power & USB Cable / USB Drive with Software		
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials		
Warranty	24 Months		

Focal Lens & 3D Specifications

Standard F-Theta Focal Lens

Lens Size	254L M85
Marking Field	165mm x 165mm / 6.5" x 6.5"
Working Distance	297mm / 11.7"
3D Dynamic Focus Range	40mm / 1.57"

Lens Size	330L M85
Marking Field	200mm x 200mm / 7.87" x 7.87"
Working Distance	389mm / 15.3"
3D Dynamic Focus Range	40mm / 1.57"

VEREO™ LFSS 3D



VEREO LFSS 3D Models

	Model	Part #
	VEREO LFSS 3D 20W	VSE LFSS 3D 20
	VEREO LFSS 3D 50W	VSE LFSS 3D 50
	VEREO LFSS 3D 100W	VSE LFSS 3D 100
Accessories		_
	ltem	Part #
	Rack Mount Accessory	VSE Rack Mount
Laser Safety Glasses		Laser Safety Glasses

See fume extraction and rotary products for complete options

Technical Specifications

Laser Specifications	VEREO LFSS 3D		
Laser Type	Ytterbium Fiber		
Wavelength	1062nm +/- 3nm		
Wattage Ratings	20W	50W	100W
Frequency Range	1 - 500kHz		1 - 2,000kHz
Pulse Duration	2 Available, 40 or 260ns		49 Available, 6-2,020ns
Operative Ambient Air Temp.	7° - 40° C / 45° - 104° F		
Cooling Type	Forced Air		
Red Alignment Laser (RAL)	Class II Red Diode (635nm)		
Red Focusing Laser (RFL)	Class II Red Diode (635nm)		
Power Requirement	Power Sensing 110-240 VAC 50/60 Hz		

System Specifications	VEREO LFSS 3D
Head Dimensions (LxWxH)	Available Upon Request
Rack Dimensions (LxWxH)	483mm x 432mm x 146mm / 19" x 17" x 5.76" (100W Rack Drawing Available Upon Request)
Weight (approx.)	Head - Upon Request / Rack - 22.7kg / 50lbs
Standard Software Package	Minilase Pro 3 64-Bit
PC	Windows 10 / 11 PC Required for Operation
External Connectors	USB / Diagnostic / Digital IO / Hardware Interlock / Stepper Motor Output (4)
Included Accessories	Laser Enable Keys (2) / Power & USB Cable / USB Drive with Software
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials
Warranty	24 Months

Marking Field & 3D Specifications

Marking Field Specifications	Vereo LFSS 3D
Marking Field	Up to 610mm x 610mm / 24" x 24" Dependent on Application Requirements
3D Dynamic Focus Range	100mm / 3.93"

VEREO™ UV



VEREO UV Models

	Model	Part #
	VEREO UV 10W	VSE UV 10
Lens Options		

Item	Part #
254mm UV Lens Upgrade	254 UV Upgrade
254mm UV Lens Add-On	254 UV Add-On
330mm UV Lens Upgrade	330 UV Upgrade
330mm UV Lens Add-On	330 UV Add-On
420mm UV Lens Upgrade	420 UV Upgrade
420mm UV Lens Add-On	420 UV Add-On

Accessories

Item	Part #
Laser Safety Glasses	Laser Safety Glasses

See fume extraction and rotary products for complete options

Technical Specifications

VEREO UV Laser Specifications Laser Type Diode Pumped Solid State Ultraviolet Wavelength 355nm Wattage Ratings 10W Frequency Range 40 - 300kHz Pulse Duration 18ns @ 60kHz Operative Ambient Air Temp. 7° - 35° C / 45° - 95° F Cooling Type Closed Loop Chiller (Water/Propylene Glycol Mix) Red Alignment Laser (RAL) Class II Red Diode (635nm) Red Focusing Laser (RFL) Class II Red Diode (635nm) Power Requirement 220 VAC 50/60 Hz, 30A

System Specifications	VEREO UV
Head Dimensions (LxWxH)	719mm x 151mm x 246mm / 28.3" x 5.9" x 9.7"
Rack Dimensions (LxWxH)	912mm x 566mm x 627mm / 35.9" x 22.3" x 24.7"
Weight (approx.)	Available Upon Request
Standard Software Package	Minilase Pro 3 64-Bit
PC	Windows 10 / 11 PC Required for Operation
External Connectors	USB / Diagnostic / Digital IO / Hardware Interlock / Stepper Motor Output (4)
Included Accessories	Laser Enable Keys (2) / Power & USB Cable / USB Drive with Software
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials
Warranty	Mechanical and Controls - 24 Months UV Source - 12 Months Chiller - 12 Months

Focal Lens Specifications

Standard F-Theta Focal Lens

Lens Size	163L UV M85
Marking Field	100mm x 100mm / 3.93" x 3.93"
Working Distance	189mm / 7.44"

Lens Size	254L UV M85
Marking Field	150mm x 150mm / 5.9" x 5.9"
Working Distance	330mm / 13"
Lens Size	330L UV M85
Marking Field	200mm x 200mm / 7.87" x 7.87"
Working Distance	389mm / 15.3"
Lens Size	420L UV M85
Lens Size / Marking Field	260mm x 260mm / 10.2" x 10.2"
Working Distance	494mm / 19.4"

VEREO™ 3D UV



VEREO 3D UV Models

Model	Part #
VEREO 3D UV 10W	VSE 3D UV 10
Lens Options	
Item	Part #
330mm UV Lens Upgrade	330 UV Upgrade
330mm UV Lens Add-On	330 UV Add-On
Accessories	
Item	Part #
Laser Safety Glasses	Laser Safety Glasses
See fume extraction and rotary products for co	omplete options

Technical Specifications

Laser Specifications	VEREO 3D UV
Laser Type	Diode Pumped Solid State Ultraviolet
Wavelength	355nm
Wattage Ratings	10W
Frequency Range	40 - 300kHz
Pulse Duration	18ns @ 60kHz
Operative Ambient Air Temp.	7° - 35° C / 45° - 95° F
Cooling Type	Closed Loop Chiller (Water/Propylene Glycol Mix)
Red Alignment Laser (RAL)	Class II Red Diode (635nm)
Red Focusing Laser (RFL)	Class II Red Diode (635nm)
Power Requirement	220 VAC 50/60 Hz, 30A

System Specifications	VEREO 3D UV
Head Dimensions (LxWxH)	719mm x 151mm x 246mm / 28.3" x 5.9" x 9.7"
Rack Dimensions (LxWxH)	912mm x 566mm x 627mm / 35.9" x 22.3" x 24.7"
Weight (approx.)	Available Upon Request
Standard Software Package	Minilase Pro 3 64-Bit
PC	Windows 10 / 11 PC Required for Operation
External Connectors	USB / Diagnostic / Digital IO / Hardware Interlock / Stepper Motor Output (4)
Included Accessories	Laser Enable Keys (2) / Power & USB Cable / USB Drive with Software
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials
Warranty	Mechanical and Controls - 24 Months UV Source - 12 Months Chiller - 12 Months

Focal Lens & 3D Specifications

Standard F-Theta Focal Lens

Lens Size	254L M85
Marking Field	150mm x 150mm / 5.9" x 5.9"
Working Distance	297mm / 11.7"
3D Dynamic Focus Range	40mm / 1.57"

Lens Size	330L M85
Marking Field	200mm x 200mm / 7.87" x 7.87"
Working Distance	389mm / 15.3"
3D Dynamic Focus Range	40mm / 1.57"

VEREO™ CO2



VEREO CO2 Models

Model	Part #
VEREO CO2 60W	VEREO CO2 60
VEREO CO2 100W	VEREO CO2 100

Lens Options (No Standard Lens Included)

ltem	Part #
F150 CO2 Lens	F150 CO2 Lens
F200 CO2 Lens	F200 CO2 Lens
F250 CO2 Lens	F250 CO2 Lens
F300 CO2 Lens	F300 CO2 Lens

Accessories

ltem	Part #
Rack Mount Accessory	VSE Rack Mount
See fume extraction and rotary products for co	omplete options

Technical Specifications

Laser Specifications	VEREO CO2	
Laser Type	CO2	
Wavelength	10,600nm	
Wattage Ratings	60W	100W
Operative Ambient Air Temp.	10° - 35° C / 50° - 95° F	
Cooling Type	Forced Air	
Red Alignment Laser (RAL)	Class II Red Diode (635nm)	
Red Focusing Laser (RFL)	Class II Red Diode (635nm)	
Power Requirement	220-240 VAC 50/60 Hz	

System Specifications	VEREO CO2
System Specifications	VLINEO GOZ
Head Dimensions (LxWxH)	1,013mm x 206mm x 180mm / 39.9" x 8.1" x 7.1"
Rack Dimensions (LxWxH)	483mm x 432mm x 146mm / 19" x 17" x 5.76"
Weight (approx.)	Avaialbe Upon Request
Standard Software Package	Minilase Pro 3 64-Bit
PC	Windows 10 / 11 PC Required for Operation
External Connectors	USB / Diagnostic / Digital IO / Hardware Interlock / Stepper Motor Output (4)
Included Accessories	Laser Enable Keys (2) / Power & USB Cable / USB Drive with Software
Documentation	Digital on USB - System, Software, & Safety Manual / Laser Parameter Guide / Software Video Tutorials
Warranty	Mechanical and Controls - 24 Months CO2 Source - 24 Months

Focal Lens Specifications

F-Theta Focal Lens Options

Lens Size	F150
Marking Field	110mm x 110mm / 4.3" x 4.3"
Working Distance	136mm / 5.35"
Lens Size	F200
Marking Field	140mm x 140mm / 5.5" x 5.5"
Working Distance	Consult TE
Lens Size	F250
Marking Field	175mm x 175mm / 6.88" x 6.88"
Working Distance	232mm / 9.1"
Lens Size	F300
Lens Size / Marking Field	210mm x 210mm / 8.2" x 8.2"
Lond Size / Marking Field	
Working Distance	288mm / 11.3"
Lens Size / Marking Field	210mm x 210mm / 8.2" x 8.2"

Additional Product Configurations











Scorpion and Raptor G2

Raptor is only available with the G2 control system and will be discontinued. Scorpion G2 currently has fluctuating cost and extended lead times. Scorpion LMRC should be quoted in place or clients should be moved to Pro SE based systems.

Zetalase XLT

Zetalase XLT is available to quote per request. We are evaluating options for an equivalent product.

ATLAS UV and CO2

ATLAS pricing models are under evaluation due to changes in the BOM and delivery delays. An updated price sheet will be released with additional ATLAS models soon. In the short term, these products are available to quote per request.

Dial Index UV

This system requires a redesign of the base to properly house the UV controls. This product is available to quote per request.

EMS300

EMS300 is utilized as a custom cabinet solution and is available to quote per request.

Rotary Devices

Rotary devices are priced for the rotary device only in some workstations, while in other configurations they are priced with additional accessories as needed, including expansion boxes for class 4 laser use or breadboard tooling plates when used with certain workstations. Note: ZD30 and ZD80 are available upon request but are not preferred rotary devices moving forward. R360 or SR380 are the equivalent replacements.

D65 Rotary



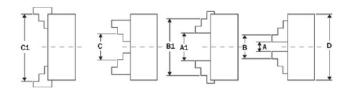
Europe Pricing:

Models
D65 MLM
D65 MXLM
D65 MXL
D65 VIRTUS
D65 VEREO/SCORPION LMRC
(with power/prog. tool post quoted)
D65 VEREO /SCORPION LMRC

(toolpost not quoted or w/manual tool post, inc. expansion controller)

Technical Specifications

Rotary Specifications	D65
Application Set	Compact, Light Duty
Chuck Type	65mm 3 Jaw Manual Chuck
Clamping Range	2mm - 25mm
Jamming Range	22mm - 60mm
External Jaw Clamping Range	20mm - 58mm
Max Load	1lb / 0.45kg
Special Feature	Tilt
Mounting Hardware	Included
Optional Accessories	Ring Chuck (for Marking Jewelry Rings)
	MLM - Left Side with Chuck Facing Right
Mounting Orientation	MXLM, MXL - Chuck Facing Operator
	VIRTUS/VEREO - Mounted with Chuck Facing Operator if Tool Post is Included



65mm Chuck Clamping range A1 2mm-25mm Jamming Range B-B1 22mm-60mm External law Clamping Range 20mm-58mm

R360 Rotary



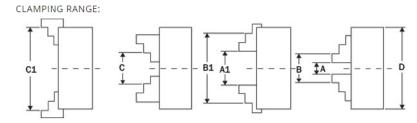
Models
R360 65mm or 100mm MXLM
R360 65mm or 100mm MXL
R360 65mm or 100mm EMS400
RR360 65mm or 100mm ATLAS
R360 65mm or 100mm VIRTUS/VEREO/SCORPION LMRC (with power/prog. tool post quoted)
R360 65mm or 100mm VEREO/SCORPION LMRC (toolpost not quoted or w/manual tool post, inc. expansion controller)
R360 65mm or 100mm with LaserGear ToolPost (includes breadboard tool plate add-on)
R360 65mm or 100mm ZXL (includes breadboard tool plate add-on)

Please note size for quote, example: R360 100mm MXL or R360 65mm MXL

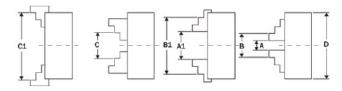
Technical Specifications

Rotary Specifications	R360
Application Set	Midsize, Light to General Duty
Chuck Type	65mm or 100mm 3 Jaw Manual Chuck
Clamping Ranges 65/100mm	See Drawing Below
Max Load	5lb / 2.2kg
Through Hole	14mm / .562"
Mounting Orientation (included in description for each system configuration)	MXLM/MXL - Chuck Facing Operator ZXL - Chuck Facing Operator EMS400/ATLAS - Left Side with Chuck Facing Right VIRTUS/VEREO - Chuck Facing Operator w/Manual/Power/Programmable Tool Post LaserGear ToolPost - Left Side w/Chuck Facing Right Using Breadboard Adapter Plate

4 Inch Chuck

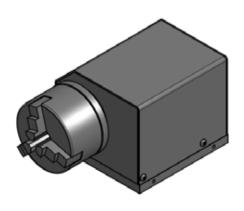


- Internal Jaw:
- Clamping Range A-A1: 0.078-1.181" Jamming Range B-B1: 1.181-3.543"
- External Jaw
- -Clamping Range C-C1: 1.181-3.150"



65mm Chuck Clamping range A1 2mm-25mm Jamming Range B-B1 22mm-60mm External Jaw Clamping Range 20mm-58mm

SR380 Rotary

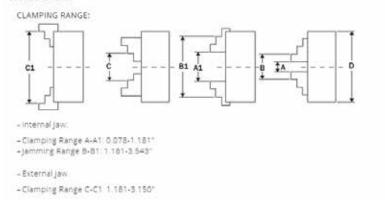


	Models
	SR380 100mm or 125mm MXLM
	SR380 100mm or 125mm MXL
	SR380 100mm or 125mm EMS400
	SR380 100mm or 125mm ATLAS
	SR380 100mm or 125mm VIRTUS/VEREO/SCORPION LMRC
	(with power/prog. tool post quoted)
	SR380 100mm or 125mm VEREO/SCORPION LMRC
	(toolpost not quoted or w/manual tool post, inc. expansion controller)
	SR380 100mm or 125mm with LaserGear ToolPost
	(includes breadboard tool plate add-on)
	SR380 100mm or 125mm ZXL
	(includes breadboard tool plate add-on)
25mm MXL	Please note size for auote, example: SR380 100mm MXL or SR380 12

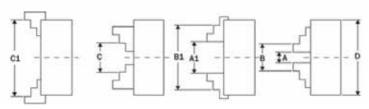
Technical Specifications

Rotary Specifications	SR380	
Application Set	Midsize, Heavy Duty	
Chuck Type	100mm or 125mm 3 Jaw Manual Chuck	
Clamping Ranges 100/125mm	See Drawing Below	
Max Load	20lb / 9kg	
Optional Accessory	Pneumatic 5C Collet Closer Upgrade	
Mounting Orientation (included in description for each system configuration)	MXLM/MXL - Chuck Facing Operator ZXL - Chuck Facing Operator	
	EMS400/ATLAS - Left Side with Chuck Facing Right	
	VIRTUS/VEREO - Chuck Facing Operator w/Manual/Power/Programmable Tool Post LaserGear ToolPost - Left Side w/Chuck Facing Right Using Breadboard Adapter Plate	

4 Inch Chuck



CLAMPING RANGE: 5 Inch 3 Jaw Chuck



- -Internal Jaw:
 - -Clamping Range A-A1: 0.098-1.574" -Jamming Range B-B1: 1.496-4.921"
- -External Jaw
 - -Clamping Range C-C1: 1.496-4.331"

Tool Posts for CLASS 4 Laser Use

Please mark sure to review the compatibility listing prior to requesting or quoting a tool post. In example, a CO2, UV, or 3D laser should never be mounted to a low cost LaserGear tool post. In addition, some lasers require programmable for focusing purposes.



Tool Post	Compatible Products
Manual Tool Post 500mm (Low Cost)	VIRTUS, VEREO, SCORPION LMRC
Manual Tool Post 800mm (Low Cost)	VIRTUS, VEREO, SCORPION LMRC
Manual Tool Post w/Breadboard Plate (High Quality)	VEREO, SCORPION LMRC
Power Tool Post w/Breadboard Plate (High Quality)	VEREO, UV, CO2, SCORPION LMRC
Programmable Tool Post w/Breadboard Plate (High Quality)	VEREO, 3D, LFSS 3D, UV, CO2, SCORPION LMRC
LaserGear Product Tool Posts	See LaserGear QUBE Page for Pricing
VIRTUS Tool Post	See VIRTUS Page for Pricing, Only Sold with Virtus

Global Presence

With facilities and distributors in more than 25 countries, TYKMA™ Electrox is dedicated to providing exceptional service and support to our clients around the world. To learn more about our products and services, visit us online at www.permanentmarking.com.





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