BEIJING JCZ TECHNOLOGY CO., LTD.

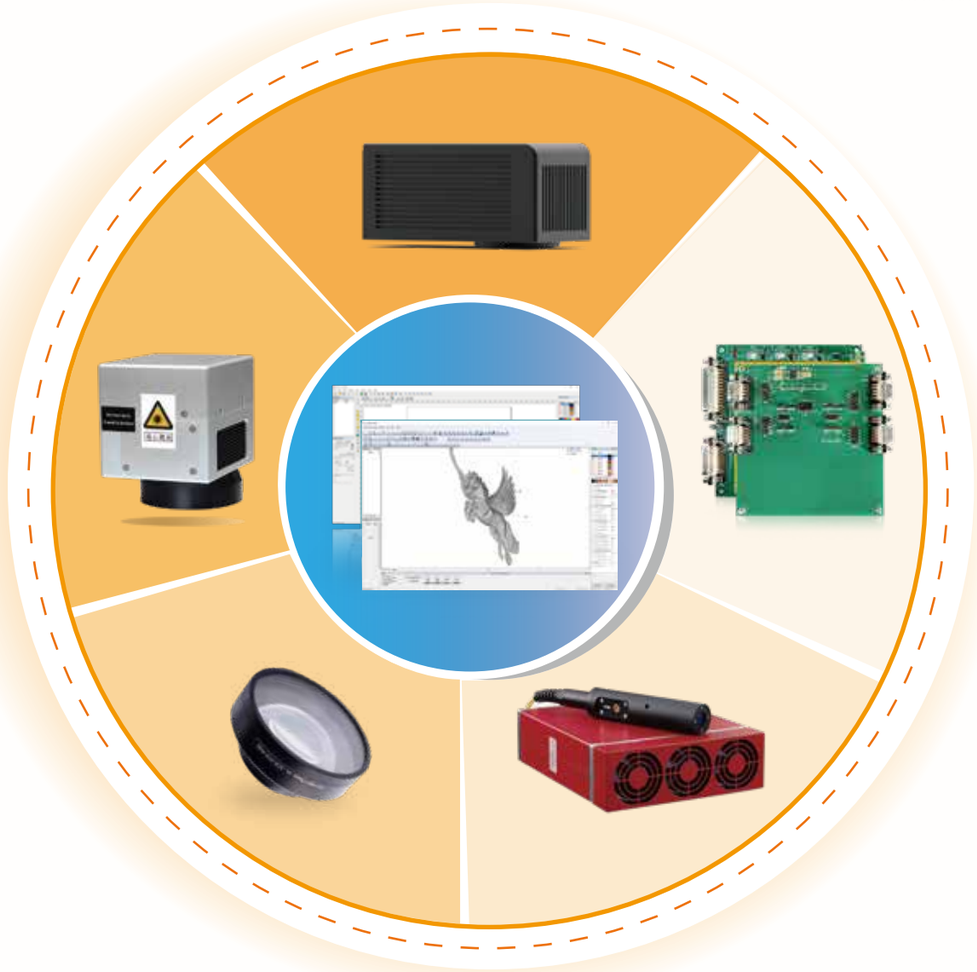
Add: #22 Building, #13 Mintai Road, Shunyi District, Beijing City, China,101300.

Website: en.bjjcz.com www.chineselaser.com

Tel:86-10-64426995

Email: sales@bjjcz.com

SH688291
Stock code



BEIJING JCZ TECHNOLOGY CO., LTD.

ABOUT US

JCZ (SSE STOCK CODE: 688291), established in 2004, is one of the leading companies providing core laser parts, machines, and solutions, and persistently committing to advanced automation and intelligent manufacturing with laser.

Our main products are composed of EZCAD software, key laser hardware, and laser processing equipment. Meanwhile, we provide total solutions and technical services for different laser scenarios. After years of experience, our products are widely used in many fields including laser marking, laser engravings, laser cutting, laser welding, laser cleaning, micro processing, and 3D printing.

With the comprehensive advantages of advanced techniques, international brand awareness, and product quality, JCZ has a high-quality customer base and has established good cooperation with thousands of enterprises in China and abroad.

In the future, we will continue research and development in the laser field, further enhance market position, and promote the development of laser processing with a higher level of automation, intelligence, and flexibility.

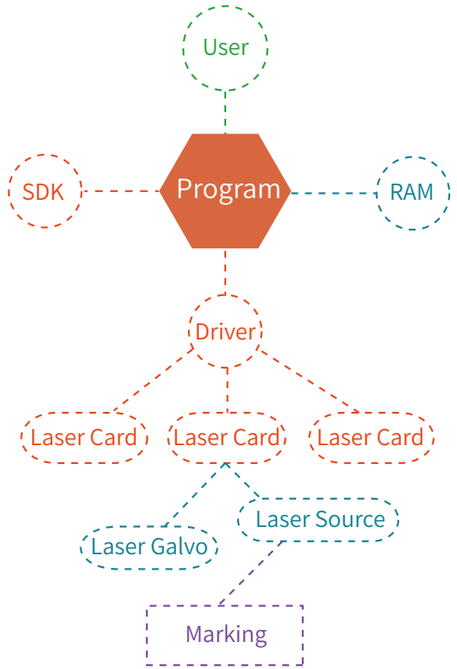
CATALOGUE

EZCAD Laser Software
Laser Software

Software	EZCAD2	EZCAD3
Software Kernel	32 bits	64 Bits *
Operation System	Windows 32 and 64 bits	Windows 64 bits /(Coming Soon)
Communication	USB2.0/PCI Express	USB2.0 / PCI Express / Ethernet (Coming Soon)
Compatible Controller	LMC Series	DLC Series
Laser Control	Pulsed, CW, QCW Fiber, UV, CO2, Green Laser...	Pulsed, CW, QCW Fiber, UV, CO2, Green Laser...
Galvo Control	2 Axis Galvo	2/3 Axis Galvo *
Compatible Galvo	With XY2-100 Protocol	With XY2-100/SL2-100 Protocol *
Motion Control	2 Axis	4 Axis *
Font	True-Type, Single-Line, Dot-Matrix, SHX font	True-Type, Single-Line, Dot-Matrix, SHX font
Code	1D and 2D Code	1D and 2D Code
Image File	Vector and Bitmap File	Vector and Bitmap File
3D File	⊗	STL, DXF File *
STL Slicing	⊗	✓
Stand-Alone	⊗	✓
Large Field Marking	⊗	✓
3D Laser Processing	⊗	✓
Marking On The Fly	✓ OPTIONAL	✓
Multi-File Processing	✓	✓
Real Time Camera Display	✓ OPTIONAL	✓ OPTIONAL
Industrial 4.0 Laser Cloud	⊗	✓
Software Development Kit	✓ OPTIONAL	✓ OPTIONAL
TCP IP Control	⊗	✓
Multi Head & Laser Control	✓ OPTIONAL	✓ OPTIONAL
Note: Functions mentioned above can only be implemented with proper hardwares.		

*All of the information above are theoretical value. And they are subject to change without notice.

Software Development Kit



	EZCAD2	EZCAD3-2D	EZCAD3-3D
Operation System	Windows 32/64 Bits	Windows 64 Bits	
Programming Platform	X86	X64	
Programming Language	C#,C++		
3D Library	⊗	⊗	✓
Custom API	✓ OPTIONAL		
Multi Head Library	✓ OPTIONAL	✓	
High Precision Calibration Library	⊗	✓ OPTIONAL	
Demo Code	✓	✓	
User Manual	✓	✓	
Free Trial	✓	✓	
Note:EZCAD SDK can only be used with controller directly purchased from JCZ.			

	Application	SLA	SLS/SLM/DMLS
Hardware	Communication	USB2.0 / PCI Express	USB2.0/PCI Express
	Laser Control	UV/Green Laser	CO2/Fiber Laser
	Galvo Control	2 Axis Galvo Scanner With XY2-100/SL2-100 Protocol	
	I/O	16 Input/16 Output	
	Motion Control	6 Axis	
	Power Supply	24V 5A	
Software	Software	JCZ-SLA	JCZ-SLM
	File Format	SLC/CLI	Software development kit is available for developing customized software for SLS/SLM/DMLS.
	Resume Function	✓	
	Variable Spot Size	✓	
	System Alarm	✓	
	Multi Laser & Head Control	✓	
	Software Customization	✓ OPTIONAL	
	Software Source Code	✓ OPTIONAL	
	Software Development Kit	✓ OPTIONAL	
	Industrial 4.0 Laser Cloud	✓	

*All of the information above are theoretical value. And they are subject to change without notice.

LMCV4 Series Controller

LMCV4-FIBER

LMCV4-DIGIT

LMCV4-SPI

Model	LMCV4-FIBER	LMCV4-DIGIT	LMCV4-SPI
Compatible Software	EZCAD2.14.11		
Communication	USB2.0		
Compatible Laser	Fiber	CO2, UV, Green...	SPI
	Some laser model may need special control signals, and a manual is required to confirm the compatible controller.		
Compatible Galvo	With XY2-100 Protocol		
Motion Control	Standard: 1 Axis Control (Pul/Dir Signals)		
I/O	12 General TTL Inputs, 8 General TTL(4 OC Outputs)		
Dimension	167*125*23mm		
Power Supply	5V 3A		
Optional Function	2 Axis Control		
	Marking On The Fly		
	Multi Head & Laser Control		
	Real-Time Camera Display		
	Software Development Kit		

LMC PCIE Series Controller

PCIE-FIBER

PCIE-DIGIT

Model	PCIE-FIBER	PCIE-DIGIT
Compatible Software	EZCAD2.14.11	
Communication	PCI Express	
Compatible Laser	Fiber	CO2, UV, Green...
	Some laser model may need special control signals, and a manual is required to confirm the compatible controller.	
Compatible Galvo	With XY2-100 Protocol	
Motion Control	Standard: 1 Axis Control (Pul/Dir Signals)	
I/O	6 General TTL Inputs, 2 General TTL Outputs	10 General TTL Inputs, 8 General TTL Outputs
Dimension	139mm*106mm	
Optional Function	2 Axis Control	
	Marking On The Fly	
	Multi Head & Laser Control	
	Real-Time Camera Display	
	Software Development Kit	

*All of the information above are theoretical value. And they are subject to change without notice.

DLC2-M4 Board

Optional Interface Board:

DLC-STD
For CO2, UV, Green Laser...

DLC-FIBER-E
For IPG Type E Laser

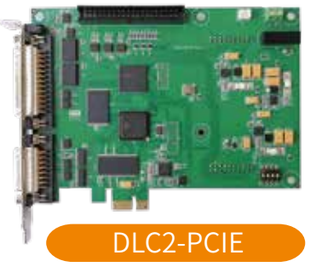
DLC-SPI
For SPI Laser

DLC-QCW 5V
For QCW/CW Laser
With 5V Control Signal

DLC-QCW 24V
For QCW/CW Laser
With 24V Control Signal

JSL-100
For SL2-100 Protocol
Galvo Scanhead

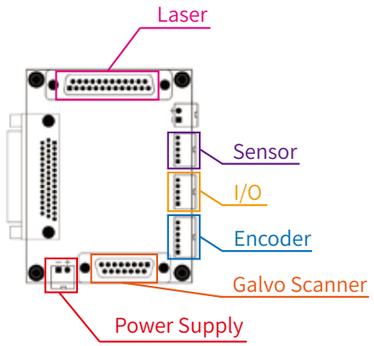
Model	DLC2-M4-2D	DLC2-M4-3D
Compatible Software	EZCAD3	
Communication	USB2.0	
Compatible Laser	Fiber Laser	
	CO2/UV/YAG/Green laser can be controlled with proper interface board	
	Some laser model may need special control signals, and a manual is required to confirm the compatible controller	
Compatible Galvo	2 Axis Galvo Scanner With XY2-100 Protocol	2 Axis / 3 Axis Galvo Scanner With XY2-100 Protocol
Motion Control	4 Axis Control(Pul/Dir Signals)	
I/O	10 General TTL Inputs, 8 General TTL/OC Outputs	
Power Supply	12V 5A-24V 5A	
STL Slicing	✓	✓
Stand-Alone	✓	✓
Marking On The Fly	✓	✓
Large Field Processing With 3 Axis Galvo Scanner	✓ OPTIONAL	✓
3D Laser Processing	✗	✓
Multi-File Processing	✓	✓
Real Time Camera Display	✓ OPTIONAL	✓ OPTIONAL
Industrial 4.0 Laser Cloud	✓	✓
Software Development Kit	✓ OPTIONAL	✓ OPTIONAL
TCP IP Remote Control	✓	✓



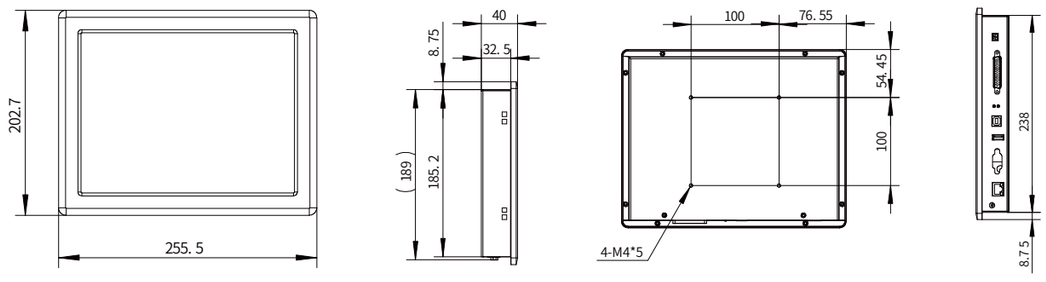
DLC2-PCIE

Model	DLC2-PCIE-2D	DLC2-PCIE-3D
Compatible Software	EZCAD3	
Communication	PCI Express	
Compatible Laser	Fiber Laser	
	CO2/UV/YAG/Green laser can be controlled with proper interface board	
	Some laser model may need special control signals, and a manual is required to confirm the compatible controller	
Compatible Galvo	2 Axis Galvo Scanner With XY2-100 Protocol	2 Axis / 3 Axis Galvo Scanner With XY2-100 Protocol
Motion Control	-	
I/O	10 General TTL Inputs, 8 General TTL/OC Outputs	
STL Slicing	✓	✓
Stand-Alone	✓	✓
Marking On The Fly	✓	✓
Large Field Processing With 3 Axis Galvo Scanner	✓ OPTIONAL	✓
3D Laser Processing	✗	✓
Multi-File Processing	✓	✓
Real Time Camera Display	✓ OPTIONAL	✓ OPTIONAL
Industrial 4.0 Laser Cloud	✓	✓
Software Development Kit	✓ OPTIONAL	✓ OPTIONAL
TCP IP Remote Control	✓	✓

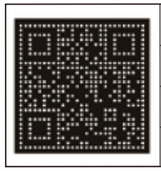
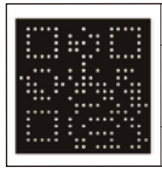
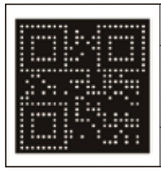
*All of the information above are theoretical value. And they are subject to change without notice.



Operation System	Linux
CPU	4 Cores, 1.2GHz
RAM	1G
ROM	8G
Screen Size	10.4 Inch
I/O	2 General TTL Inputs, 3 General TTL
Resolution	800*600 px
Ethernet	One
RS232	One
USB	One
Power	15V 4A-24V 4A



With Fiber Laser

	Code Type	Negative Code	Code Dimension(mm)	5.8X5.8	
	Row & Column	25X25	Marking Speed(mm/s)	8000	
	Correction Level	M	Frequency(KHz)	50	
	Mode	Point	Processing Time(ms)	23	
	Code Type	Customized Code	Code Dimension(mm)	5.8X5.8	
	Row & Column	19X19	Marking Speed(mm/s)	8000	
			Frequency(KHz)	50	
	Mode	Point	Processing Time(ms)	12	
	Code Type	Customized Code	Code Dimension(mm)	5.8X5.8	
	Row & Column	23X23	Marking Speed(mm/s)	8000	
			Frequency(KHz)	50	
	Mode	Point	Processing Time(ms)	17	

With UV Laser

	Code Type	Positive Code	Code Dimension(mm)	10X10	
	Row & Column	25X25	Marking Speed(mm/s)	11000	
	Correction Level	L	Frequency(KHz)	50	
	Mode	Double Point	Processing Time(ms)	60	
	Code Type	Negative Code	Code Dimension(mm)	10X10	
	Row & Column	Minimum Size	Marking Speed(mm/s)	3000	
	Correction Level	L	Frequency(KHz)	50	
	Mode	0.1mm Inside Hatch	Processing Time(ms)	228	







GO7 Series Galvo Scanner

Series	GO7-10	GO7-10A	GO7-12	GO7-14
Input Aperture	10mm	10mm	12mm	14mm
Optional Wavelength	355nm/532nm/1064nm/10.6μm			
Galvo Protocol	XY2-100 Interface			
Dynamic Performance				
Repeatability	<22μrad	<8μrad	<22μrad	<22μrad
1% Of Full Scale	0.3ms	0.21ms	0.4ms	0.65ms
10% Of Full Scale	0.7ms	0.71ms	1.2ms	1.6ms
Non-Linearity	<0.4%	<0.2%	<0.4%	<0.4%
Drift Over 8 Hours	<0.3mrad	<0.5mrad	<0.3mrad	<0.3mrad
Typical Speeds				
Maximum Marking Speed	6000mm/s	12000mm/s	2000mm/s	1500mm/s
Positioning Speed	15m/s	23m/s	10m/s	7m/s
Optical Performance				
Gain Error	<5mrad	<5mrad	<5mrad	<5mrad
Zero Offset	<5mrad	<5mrad	<5mrad	<5mrad
Signal Protocol	XY2-100	XY2-100	XY2-100	XY2-100
Operating Temperature	10-40°C	0-45°C	10-40°C	10-40°C
Storage Temperature	-20-60°C	-10-60°C	-20-60°C	-20-60°C
Power Requirements	±15V 3A	±15V 2A	±15V 3A	±15V 3A
Weight	1.9kg	1.95kg	2.0kg	2.4kg

Galvo Scanner

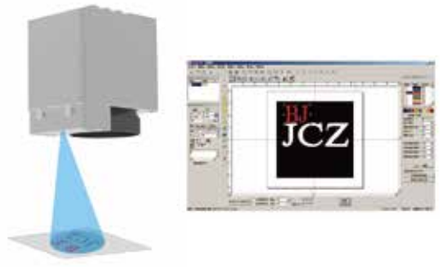
Dual Focusing Beam

Auto Focusing Module

Sensing Distance	120-280mm Standard
	200-600mm Optional
Note: A motorized Z axis is required.	

Camera Display Module

Camera Type	Web Camera
Resolution	5 Million Pixel
Imaging	Colour
Zoom In	Support
Zoom Out	Support

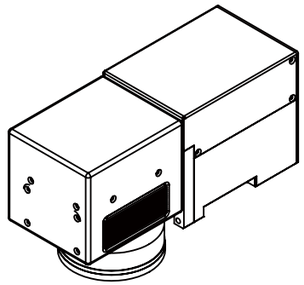


F-theta Lens

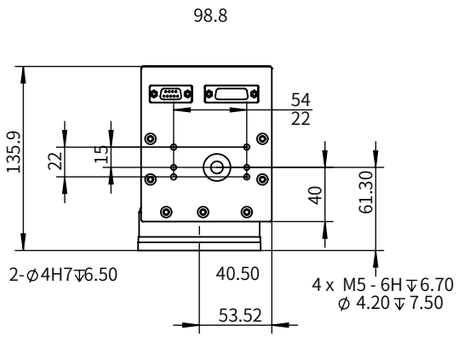
Wavelength	Model	Scan Field	Focal Length	Working Distance
1064nm	SL-1064-70-100	70x70mm	100mm	98.8mm
	SL-1064-112-163	112x112mm	163mm	190.4mm
	SL-1064-174-254	174x174mm	254mm	298.2mm
	SL-1064-220-330	220x220mm	330mm	385.2mm
	SL-1064-300-420	300x300mm	420mm	463.2mm
355nm	SL-355-70-180	70x70mm	180mm	141.9mm
	SL-355-110-160	110x110mm	160mm	189mm
	SL-355-175-254	175x175mm	254mm	304.92mm
	SL-355-220-330	220x220mm	330mm	392.07mm
	SL-355-300-420	300x300mm	420mm	483.1mm
10.6μm	SL-10.6-70-100	70x70mm	100mm	86.7mm
	SL-10.6-110-150	110x110mm	150mm	131.5mm
	SL-10.6-175-250	175x175mm	250mm	228.1mm
	SL-10.6-250-360	250x250mm	360mm	346.8mm
	SL-10.6-300-430	300x300mm	430mm	414.48mm
Models mentioned above are mostly used. there are other options available.				

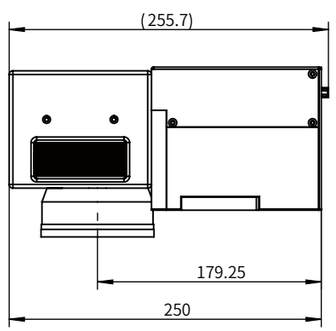
All of the information above are theoretical value. And they are subject to change without notice.

GO3D-T Series Galvo Scanner

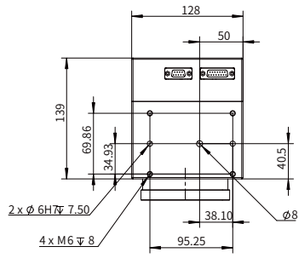


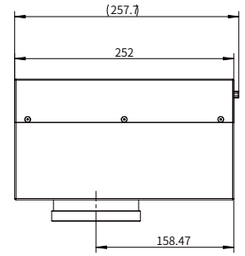
Z Specifications									
Beam Expansion Factor	2.0X			1.67X			1.85X		
Input Aperture	5.00mm	6.00mm	7.00mm	5.98mm	7.18mm	8.4mm	5.40mm	6.48mm	7.5mm
Wavelength	355nm			532/1064nm			10600nm		
2D Galvo Aperture	10mm	12mm	14mm	10mm	12mm	14mm	10mm	12mm	14mm
Marking Field	150*150mm ±35mm With F=254 Lens								
Power Requirements	±15VDC,3A								
XY Specifications（2D Galvo Reference To GO7 Series）									
Marking Speed (mm/s)	3000	2500	1500	3000	2500	1500	3000	2500	1500
Positioning Speed (m/s)	12	10	7	12	10	7	12	10	7





INVISCAN Series Galvo Scanner





	A1064-10	A1064-14	A355-10	A355-14
Beam Aperture	10mm	14mm	10mm	14mm
Wavelength	1030-1070nm		355nm	
Max Marking Speed	450cps/s	700cps/s	450cps/s	700cps/s
Positioning Speed	7m/s	10m/s	7m/s	10m/s
Tracking Error	0.3ms	0.18ms	0.3ms	0.18ms
Repeated Marking Accuracy	<2μrad	<2μrad	<2μrad	<2μrad
Temperature Drift(>8h)	<5urad	<5urad	<5urad	<5urad
Operating Deflection Angle	±20°		±20°	±20°
Beam Expansion Ratio	1.6		2.8	1.6
Scanner Type	XY2-100			
Max Affordable Power	250W		10W	25W
Incident System Spot	7mm	6mm	3.5mm	7mm
Operating Temperature	25±10°C			
Marking Area	70*70、100*100、150*150、200*200、300*300			
Current&Voltage	±15VDC,⩾3A; 24V 3A			

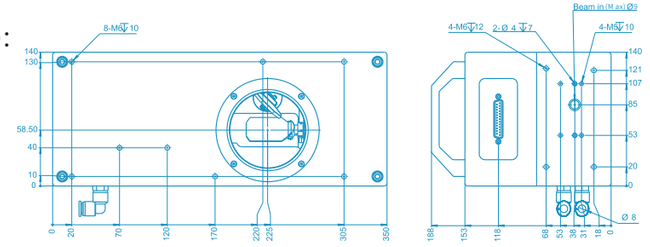
*All of the information above are theoretical value. And they are subject to change without notice.

Model	DTJJ-20	DTJJ-30	DTJJ-50
Input Aperture	9mm	9mm	16mm
Beam Displacement	26.5mm	36.5mm	58mm
Marking Speed	1m/s	0.7m/s	0.7m/s
Positioning Speed	6m/s	3m/s	1.2m/s
Interface	XY2-100	XY2-100	XY2-100
Maximum Lens Travel	±1.5mm		±1.5mm
Tracking Error Time	1ms		1ms
Typical Travel Speed	140mm/s		140mm/s
Power Requirements	±15VDC,Max 10A		±15VDC,Max 10A
Operating Temperature	25±10°C		25±10°C
Cooling Method	Air/Water Cooling		

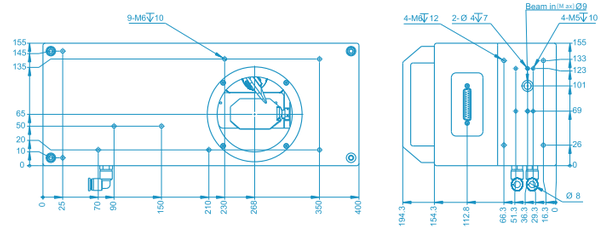
Working Filed & Spot Size							
		CO2			Fiber		
	Working Field (mm)	Spot Size (um)	Working Distance (mm)	Resolution (um)	Spot Size (um)	Working Distance (mm)	Resolution (um)
DTJJ-20	200x200	214	228	3	20	228	3
	400X400	402	502	6	39	502	6
	600X600	589	777	9	59	777	9
	800X800	683	915	12	-	-	12
	1000X1000	-	-	15	-	-	15
	1200X1200	-	-	18	-	-	18
	1400X1400	-	-	21	-	-	21
DTJJ-30	200x200	-	-	3	-	-	3
	400X400	247	502	6	26	502	6
	600X600	367	777	9	38	777	9
	800X800	428	915	12	45	915	12
	1000X1000	607	1327	15	-	-	15
	1200X1200	-	-	18	-	-	18
	1400X1400	-	-	21	-	-	21
DTJJ-50	200x200	-	-	3	-	-	3
	400X400	-	-	6	-	-	6
	600X600	225	737	9	23	737	9
	800X800	295	1012	12	30	1012	12
	1000X1000	367	1287	15	38	1287	15
	1200X1200	431	1561	18	45	1561	18
	1400X1400	498	1836	21	53	1836	21

*All of the information above are theoretical value. And they are subject to change without notice.

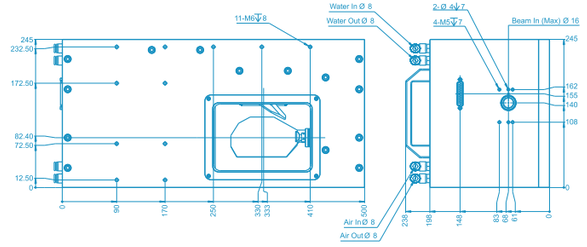
DTJJ-20:



DTJJ-30:



DTJJ-50:



Fiber Laser

Brand	Model	Laser Power	Pulsed Width	Frequency Range	Fiber Cable Length	Power Supply	Dimension	Net Weight
JPT	YDFLP-E-20-LP-S-R	20W	200ns	1-600kHz	2M	24V	245*200*65mm	3.75KG
	YDFLP-E-30-LP-S-R	30W	200ns	1-600kHz	2M	24V	245*200*65mm	4.25KG
	YDFLP-E-50-LP-L-R	50W	200ns	1-600kHz	3M	24V	325*260*75mm	8.2KG
	YDFLP-20-E-M7-S-R	20W	2-350ns	1-2000kHz	2M	24V	245*200*65mm	4.4KG
	YDFLP-30-E-M7-S-R	30W	2-350ns	1-2000kHz	2M	24V	245*200*65mm	4.5KG
	YDFLP-60-M7-M-R	60W	2-500ns	1-4000kHz	3M	48V	325*260*75mm	8.5KG
	YDFLP-100-M7+-L1-R	100W	2-500ns	1-4000kHz	3M	48V	350*280*112mm	13.2KG
Raycus	RFL-P20QB	20W	<120ns@20kHz	20-60kHz	3M	24V	215*286*95mm	3.5KG
	RFL-P30QB	30W	<120ns@30kHz	30-60kHz	3M	24V	215*286*95mm	4.25KG
	RFL-P50QB	50W	<130ns@50kHz	50-100kHz	3M	24V	260*391*120mm	6KG

JPT

Raycus

UV Laser

Brand	Model	Laser Power	Pulsed Width	Frequency Range	Cooling Method	Power Supply	Dimension	Net Weight
JPT	Lark-355-3A	3W	<18ns@40kHz	20-200kHz	Air Cooling	12V	313*144*126mm	6.8KG
	Seal-355-5C	5W	<15ns@40kHz	20-150kHz	Water Cooling	12V	302*180*114mm	9.26KG
	Seal-355-10S	10W	18ns@60kHz	40-300kHz	Water Cooling	36V	337*180*114mm	13.2KG
	Seal-355-15S	15W	18ns@60kHz	40-300kHz	Water Cooling	36V	337*180*114mm	13.2KG
INNGU	Grace X 355-3	3W	⩽16ns@30kHz	10-150kHz	Air Cooling	/	375*175*125mm	7.7KG
	Grace X 355-5	5W	⩽18ns@30kHz	10-150kHz	Air Cooling	/	375*175*125mm	7.7KG
Huaray	Cypress 5W	5W	<10ns@50kHz	20-200kHz	Water Cooling	/	/	/
	Cypress 10W	10W	⩽15ns@50kHz	50-200kHz	Water Cooling	/	/	/
	Cypress 15W	15W	⩽15ns@50kHz	50-200kHz	Water Cooling	/	/	/

INNGU

JPT

Huaray

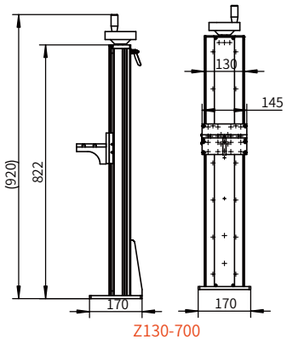
CO2 Laser

Brand	Model	Laser Power	Frequency Range	Cooling Method	Power Supply	Dimension	Net Weight
Davi	D30L	20W	0-25kHz	Air Cooling	36V	357*92.5*142mm	6.8KG
	D30	30W	0-25kHz	Air Cooling	48V	357*92.5*142mm	9.26KG
	D60	50W	0-25kHz	Air Cooling	48V	538*92.5*142mm	13.2KG

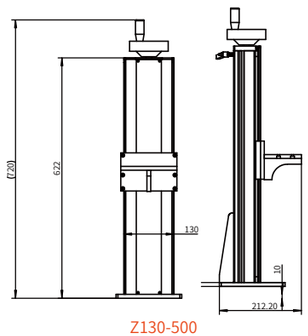
*All of the information above are theoretical value. And they are subject to change without notice.

Z Lift Column

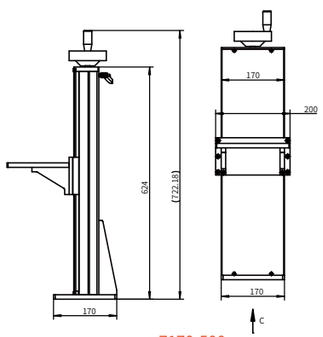
Model	Z130-500	Z130-700	Z170-500	Z170-700
Total Height	722mm	922mm	720mm	922mm
Travel	500mm	700mm	500mm	700mm
Maximum Load	For Fiber Laser	For Fiber Laser	For CO2/UV Laser	For CO2/UV Laser
Adjusting Method	Manual Adjust			
Net Weight	/	/	/	/
Dimension	150*211*722mm	170*212.2*922mm	170*212*720mm	180*311*922mm
Optional	Motorized (Motor on the Top)			



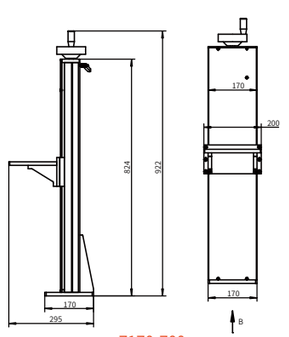
Z130-700



Z130-500



Z170-500



Z170-700

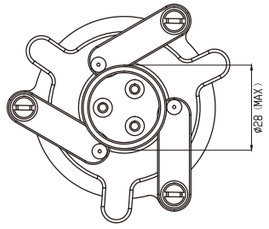
Rotary Device

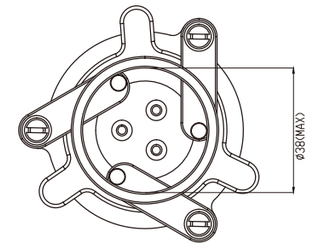
D65

D80/100

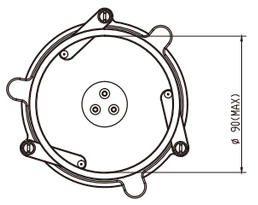
XZZ-3D

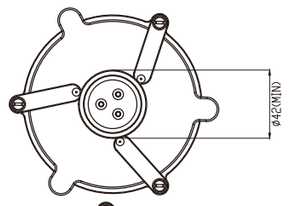
Model	D65	D80	D100	XZZ-3D-Ring	XZZ-3D-Bracelet
Motor Type	Stepping Motor	Stepping Motor	Stepping Motor	Stepping Motor	Stepping Motor
Fixing Diameter	ϕ65mm	ϕ80mm	ϕ100mm	See Drawing A	See Drawing B
Net Weight	/	/	/	/	/

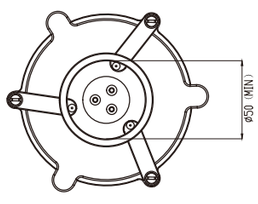


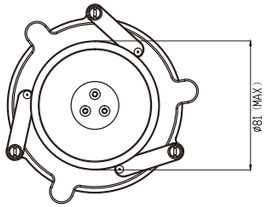


Drawing A









Drawing B

*All of the information above are theoretical value. And they are subject to change without notice.