

Specifications

LASER
MARKING SYSTEMS

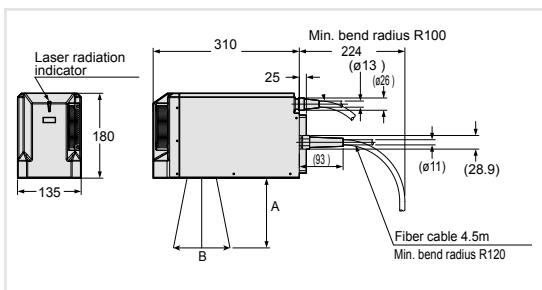
LP-Z

Item	Model		Standard	Standard	Large marking field
	LP-Z130-LS1-C	LP-Z250-LS1-C	LP-Z256-LS1-C		
Work distance		190mm ($\pm 25\text{mm}$)		330mm ($\pm 25\text{mm}$)	
Marking field		120mm x 120mm		330mm x 330mm	
Max. scan speed		12000mm/s		8000mm/s	
Max. line speed		170m/min		120m/min	
Output class	13W		25W		
Marking laser		FAYb $\lambda = 1.06\mu\text{m}$, laser class 4			
Guide laser		Semiconductor $\lambda = 650\text{nm}$, laser class 2, 1mW			
Scanning method		Galvano scanner			
Operating voltage		90 to 132V AC or 180 to 264V AC (auto switching) 50/60Hz			
Power consumption		Max. 390W (100V AC)/max. 420W (200V AC)			
Communication interfaces		RS232C, digital I/O, Ethernet			
Inputs	Remote, trigger, encoder (A), encoder (B), shutter control, laser pumping, alarm reset, emergency stop, laser stop, etc.				
Outputs	Operating voltage (+24V), Remote (RS232C, I/O), marking ready, marking, marking end, laser pumping, warning, alarm, confirmation end, counter end				
Fiber cable length		4.5m			
Ambient temperature	0 to +40°C, storage: -10 to +60°C		0 to +35°C, storage: -10 to +60°C		
Ambient humidity		35% to 85%			
Cooling method		Forced air cooling			
Workpiece positioning		Stationary and on-the-fly marking			
Text orientation		Horizontal, proportional/monospaced fonts, arced, tilted			
Character types	Upper- and lowercase letters, numerals, symbols, user-defined characters (up to 50), Japanese characters katakana, hiragana, kanji (JIS level 1 and level 2)				
Bar codes/2D codes	CODE39, CODE128, ITF2/5, NW-7, JAN/UPC/EAN, RSS 14, RSS Limited, RSS Expanded (GS1 DataBar), GS1 Data Matrix, QR, Micro QR, Data Matrix (ECC200), etc.				
Logos/graphics	VEC, DXF, BMP, HPGL, JPEG, AI*, EPS*				
Software and hardware features	<ul style="list-style-type: none"> ➤ Marking order optimizing ➤ Correction of intersection ➤ Counter function ➤ Current date/time ➤ Expiry date ➤ Lot function ➤ Logos/graphics ➤ Bold marking ➤ I/O monitor ➤ Font selection ➤ Marking field indication ➤ Control of user access ➤ Error code display ➤ Marking image monitor ➤ Individual output and speed settings per object ➤ Step & repeat ➤ Marking order optimizing ➤ Multilayered marking ➤ Backup ➤ Work distance indication ➤ Marking time measurement ➤ On-the-fly marking ➤ Power check/correction ➤ On-the-fly marking ➤ 3D marking ➤ VGA, USB 				
Net weight	Laser head		9.5kg		
	Controller		24kg		

* Adobe Illustrator® required

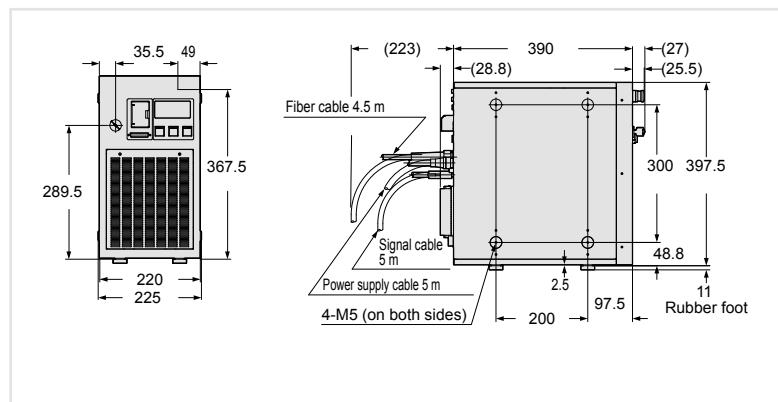
Dimensions

LP-Z laser head



Type	Work distance A (mm)	Marking field B (mm 2)
LP-ZXX0-LS1-C	190 (± 25)	120x120
LP-Z256-LS1-C	330 (± 25)	330x330

LP-Z controller



* All measurements in mm