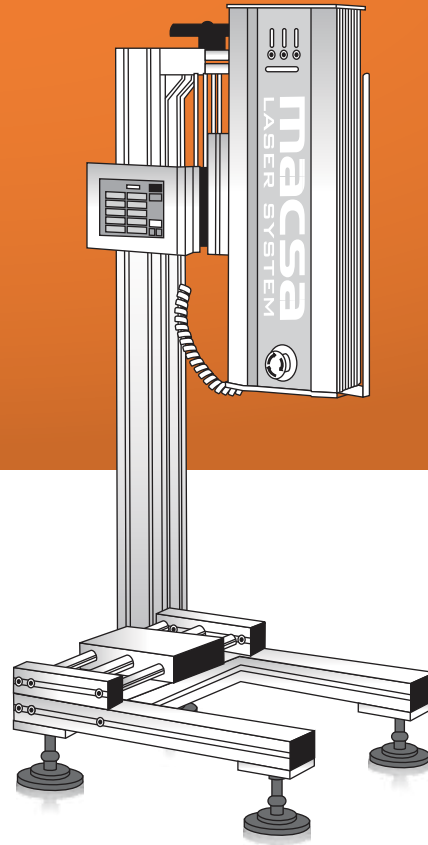# K1000

Laser Marking & Coding System

Key K1000 features include:

- Complete laser range encompassing all key technologies – CO2, Fiber, and YAG
- Comprehensive range of power and lens options to ensure maximum performance and flexibility
- Only company to offer Fiber Film Lasers for marking upon flexible packaging films
- Internal ScanLinux software ensures consistent marking at the highest speeds
- 3 user interfaces – handheld, touchscreen, and PC through Marca software

- Crystal Font Option for dot-matrix printing ensures a different look and better contrast on certain substrates and applications
- Reliability and very low cost of maintenance

Print Samples

Technical Specification

Technical Data	K 1000				
Nominal Power	10W		30W		
Mains Supply	110/220V 50/60Hz 1 Phase + N 600 W		110/230V 50/60Hz 1 Phase + N 1000 W		
Weight	Net Weight: 19Kg Gross Weight: 24Kg		Net Weight: 32Kg Gross Weight: 40Kg		
System Cabinet	Laser, Control Electronics, Computer and Scanners built into the laser system				

Focal Specifications	Working Distance	Focal Distance	Marking Area	Beam Diameter Plus	SP
	85mm	95mm	60x60mm	<160µm OPT	<310µm STD
	115mm	125mm	75x75mm	<220µm STD	<790µm OPT
	190mm	200mm	100mm	<350µm OPT	
	320mm	240mm	150mm	<420µm OPT	
	310mm	320mm	200mm	<560µm OPT	
	400mm	410mm	250mm	<720µm OPT	

µm=microns / STD:Standard / OPT:Optional / Built in 90° marking as standard leasily convertible in 0° marking.

Software	PLUS	SP
	● Scan NUX from V. 1.8b ● Marca Software form V. 4.9 ● Marca Lite Software ● 21 CFR Part 11 Software	● ScanL NUX
User Interface	● Hand Held Terminal / Touch Screen / PC	● Hand Held Terminal / Touch Screen
Control By	● Hand Held Terminal with ScanLinux software ● Touch Screen with ScanLinux software ● Full Graphics interface: includes Marca™ software, ptotection key and Ethernet cable (TCP/P) ● Marca Lite: includes Marca Lite™ software, protection key and Ethernet cable (TCP/P)	● Hand Held Terminal with ScanLinux software ● Touch Screen with ScanLinux software ● Fonts: Crystal Font 7x5 Newpal Crystal Font 5x5 Newpal 2

Speed	Scanner Speed	Marking Type	Characters Per Second
	1500 mm/s	Static	231 c/s
		Dynamic	207 c/s
	2500 mm/s	Static	297 c/s
		Dynamic	255 c/s
	3500 mm/s	Static	333 c/s
		Dynamic	300 c/s
	8000 mm/s	Static	640 c/s
		Dynamic	600 c/s

mm/s:millimeters per second, c/s:characters per seconds. Speeds calculated with 2 text lines of 7 characters of 2.5mm of height

Example1: Dynamci marking with K-1030 PLUS with 100x100 lens./Aprox. speed of 71m/min, which means at least 35,000 bottles per hour.
Example2: Dynamic marking with K-1060 PLUS with 60x60 lens./Apox. results: Crystal Font 5*5 with Line Speed of 71m/min: at least 75,000 bottles/hour./Aprox. results: Vector Font: with Line Speed of 71m/mim:at least 90,000 bottles/hour.

Marking Head	KS-1000-9,3m: CO$_2$ sealed laser tube/R.F. technology/Wavelength: 9,3 microns K-1000 -10,6m: CO$_2$ sealed laser tube/R.F.technology/Wavelength: 10,6 microns
Accesories	Diode marking area indicator /Encoder kit/Mounting support/Photocell kit
Ambient Conditions	10°C(50°F) to 35°C(95°F) external temperature/Humidity<95% non-condensating / No vibrations
	Subject to technical modification.