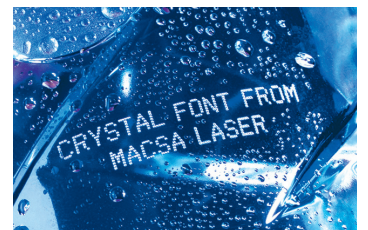


K - SERIES

A VERSATILE RANGE OF CO₂ LASER
PRODUCTS FOR HIGH QUALITY

CODING AND MARKING AT A VERY LOW COST



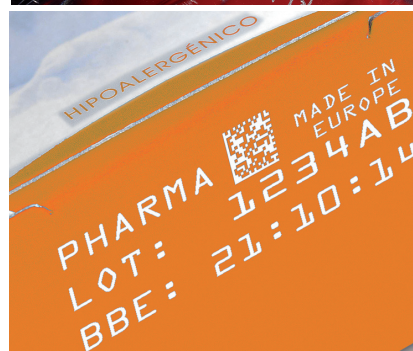
K-1000 by **MACSA**
Fast. Powerful. Reliable.

Macsa id
a code you can trust

A CODE YOU CAN TRUST

- **THE INCREDIBLY COMPACT DESIGN** along with an adjustable marking head ensures that you can install this system on even the most complicated production lines. The system can even be integrated with other manufacturer's equipment.
- **THIS EASY TO USE SYSTEM** works through a combination of extremely fast mirror tracking systems and the most modern software and hardware you can be assured of reliable high speed marking.
- **THE LATEST IN LASER TECHNOLOGY** along with the fact that you don't need expensive replacements results in a system that requires little maintenance, minimal operational costs and no headaches.
- **THE MARKING PROCESS** is unimpeded because you don't need an expensive and space consuming PC on the production line. Furthermore in Macsa lasers, with MACSA's software, you can link several K-1000 laser systems together for even greater control and increased production or to increase the graphic features of the K-1000 laser connecting a PC through the full graphic interface kit.

- **ALL OF THESE FEATURES** ensures that everyone of your products is marked with the same high degree of quality and permanence guaranteeing accurate identification for the lifetime of your products.
- **A DIVERSE RANGE OF MATERIALS** can be marked utilizing the K-1000 system including labels, cardboard, PET, glass, coating and wood.



USER INTERFACE FOR LASER SYSTEMS

HAND-HELD TERMINAL [1]

Connection via RS-232 with ScanLINUX software included in laser marking system • creation and editing of text messages • able to create up to 4 lines of text • 4 types of MFF fonts • modify message XY position • time marking in multiple formats • clock adjustment • sequential numbers • password protection system.

TOUCH SCREEN [2]

Connection via RS-232 with ScanLINUX software included on marking laser system • Handheld Terminal emulator • allows control of the laser marking system from a remote touch screen.

PERSONAL COMPUTER [3]

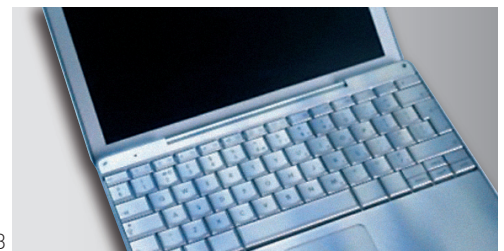
Connection via TCP/IP (Marca Lite™) or Ethernet TCP/IP (Marca™) • compatible with all kinds of operating systems Windows NT/Me/2000/XP/7/8 • able to control the laser marking system from a remote PC • confers powerful graphics capabilities • able to create messages in all of the marking area.



1



2



3

SOFTWARE FOR LASER SYSTEMS

SCANLINUX™ V 3.3 INTERNAL SOFTWARE CONTROLLING THE LASER MARKING SYSTEM [4]

ScanLINUX is the internal software running on LINUX managing the laser marking system • ScanLINUX allows the operation of the Handheld, Touchscreen, Marca Lite™ and Marca™ software • ScanLINUX includes Crystal Font™ dot matrix fonts • ScanLINUX software provides the option of changing the menu language of the Handheld terminal. It also allows the user to see the number of marks made during a printing session without going out of the printing menu.

MARCA LITE™ V 5.3 SOFTWARE FOR NETWORKING, STATIC AND DYNAMIC APPLICATIONS VIA TCP/IP [5]

Easily installed • Software compatible with Windows NT/2000/ XP/7/8 for networking, static and dynamic supplied with protection key • basic graphic interface able to build in text and graphic in all the marking area • create logos • capable of downloading MFF fonts and DXF vector files • alarm control.

MARCA™ V 5.3 SOFTWARE FOR HIGH RESOLUTION & STATIC/DYNAMIC APPLICATIONS VIA ETHERNET TCP/IP [6]

Easily installed • Software compatible with Windows NT/2000/XP/7/8 for high resolution & Marca™ software supplied with protection key • controls laser systems via Ethernet static/dynamic applications TCP/IP • powerful WYSWYG design editor in all the marking area • zoom • bar codes • 2D barcodes • MFF font editor • character filling • capable of downloading BMP, JPG, GIF, TIF, PCX and other graphic files • capable of downloading DXF vector files with multiple import options • ODBC (database) features • true type text fonts • messages activated by hourly, daily or monthly changes • networking capabilities of several systems via Ethernet TCP/IP • Unicode Enable. Allows UHS.



4



5



6

K-1000 LASERS ARE FAST

They are high powered and equipped with ultra high speed galvos enabling them to match the speeds of the fastest production lines.



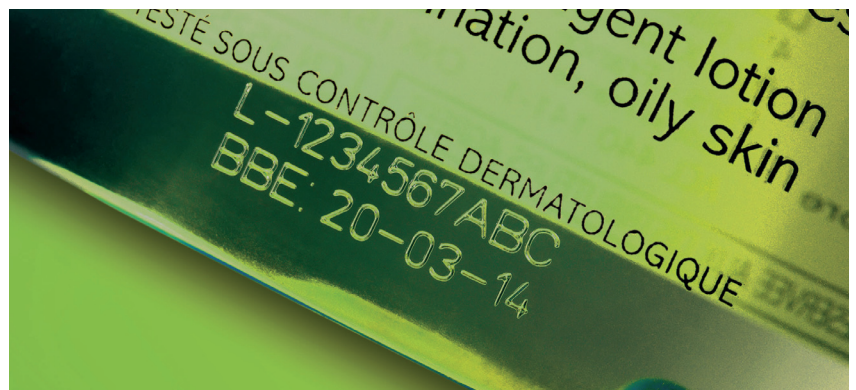
K-1000 LASERS ARE POWERFUL

They can mark large complex graphics and deliver quality laser marks even on difficult substrates and when time is limited.



K-1000 LASERS ARE RELIABLE

The KIP variant has a remote IP65 head enabling it to operate reliably at the level of the production line in the damp conditions of a hose down environment.



CONSISTENT LONG TERM HIGH QUALITY PRINTING

There are no printheads which need cleaning or which degrade over time and need replacing.



DELIVER A PERMANENT CODE

Ink based alternatives may be scratched or rubbed off the substrate.

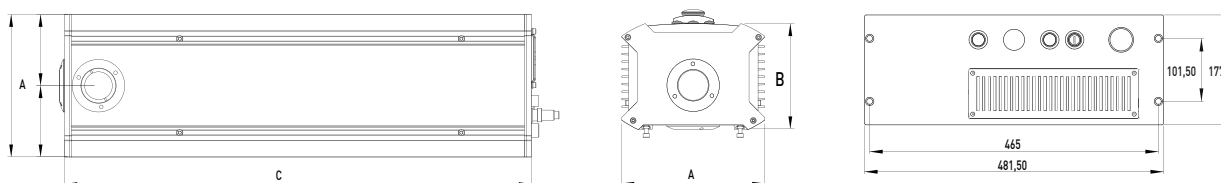


BETTER PRINTING IN DUSTY ENVIRONMENTS

Laser coders are not disadvantaged by dust whereas a thermal transfer printhead will need a regular cleaning and an inkjet printhead will need regular flushing to prevent blockages.



K-1000 PLUS UHS

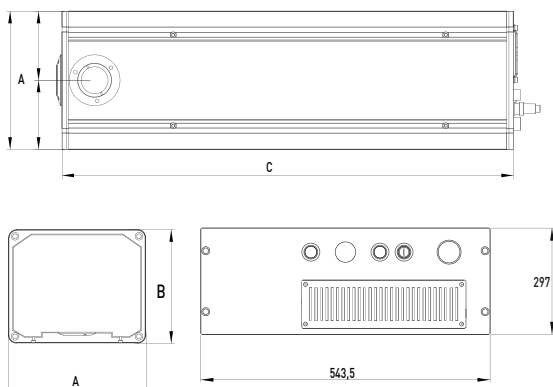


SYSTEM TYPE				K-1010 PLUS UHS	K-1030 PLUS UHS	K-1060 PLUS UHS	K-1080 PLUS UHS	
POWER				10W	30W	60W	80W	
WAVELENGTH				9.3µm /10.2µm / 10.6µm				
MAINS SUPPLY				125V / 230V 50/60 Hz (1 Fase + N) 330VA	125V / 230V 50/60 Hz (1 Fase + N) 660VA	125V / 230V 50/60 Hz (1 Fase + N) 1600VA	125V / 230V 50/60 Hz (1 Fase + N) 1900VA	
DIMENSIONS	Split Head (optional)			108x106,5x114 mm				
	Tube (A x B x C)			190x141x621 mm	235x193x656 mm	235x193x774 mm		
	Rack			-	-	482x177x454 mm (19"x4ux454 mm)		
WEIGHT				Net: 19kg Gross: 24kg	Net: 32kg Gross: 40kg	Net: 71kg Gross: 86kg		
SYSTEM				Laser source, control and power electronics, CPU and scanners built into the laser tube.		Laser source, scanners, control electronics and CPU built into the laser tube. Power electronics built into the control rack.		
OPTICS	Working distance (mm)	Focal length (mm)	Marking area (mm x mm)	Beam diameter MODELS PLUS UHS (µm)				
	85	95	60x60	<256µm -0				
	115	125	75x75	<337µm -0				
	150	160	100x100	<432µm -S				
	190	200	100x100	<540µm -0				
	230	240	150x150	<648µm -0				
	310	320	200x200	<864µm -0				
	400	410	250x250	<1107µm -0				
µm: microns		S: Standard O: Optional						
SOFTWARE				▪ ScanLinux V5.2.7 and higher. ▪ Software Marca V5.6.9.a and higher. ▪ Internal bar code. ▪ Software Marca Lite.				
USER INTERFACE				▪ Hand held terminal / Touch screen / PC				
CONTROL BY				▪ Hand held terminal with ScanLinux software. ▪ Touch screen with ScanLinux software. ▪ Full graphics interface: it includes Marca™ software, Hasp key and Ethernet cable (TCP/IP). ▪ Software Marca Lite: it includes Marca™ software, Hasp key and Ethernet cable (TCP/IP).				
MARKING HEAD				KS-1000 – 9,3 µm		KS2-1000 – 10,2 µm		K-1000 – 10,6 µm
				CO2 sealed laser tube R.F. technology Wavelength: 9,3 microns		CO2 sealed laser tube R.F. technology Wavelength: 10,2 microns		CO2 sealed laser tube R.F. technology Wavelength: 10,6 microns
ACCESSORIES				Beam pointer– Shaft encoder kit – Mounting support – Photocell kit				
ENVIROMENTAL CONDITIONS				10°C [50°F] to 40°C [104 °F] external temperature Humidity <95% non-condensation No vibrations				
K-1010 PLUS UHS (10.6 µm) SPEED	PAPER LABEL		Max. Speed line (m/min)		Cadence (mm)		Scanners speed (mm/s)	
	1 Line / 8 Charact.		140	156	122	120	1500	200
	2 Line / 8 Charact.		80	80	122	122	1500	200
	3 Line / 8 Charact.		53	54	118	120	1500	200
	4 Line / 8 Charact.		40	40	118	118	1500	200
	PET		Max. Speed line (m/min)		Cadence (mm)		Scanners speed (mm/s)	
	1 Line / 8 Charact.		116	106	127	125	1000	400
	2 Line / 8 Charact.		58	51	118	116	1000	400
	3 Line / 8 Charact.		38	35	116	117	1000	400
	4 Line / 8 Charact.		29	25	116	110	1000	400
	PAINTED ALUMINIUM		Max. Speed line (m/min)		Cadence (mm)		Scanners speed (mm/s)	
	1 Line / 8 Charact.		87	78	117	119	700	600
	2 Line / 8 Charact.		44	40	120	118	700	600
	3 Line / 8 Charact.		28	26	117	120	700	600
	4 Line / 8 Charact.		20	19	109	113	700	600

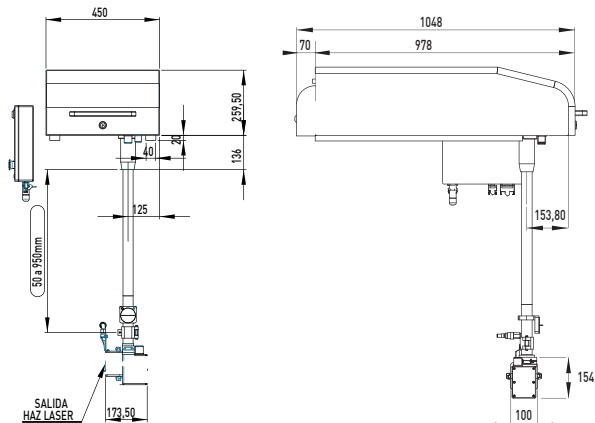
Normal → Newpal Font
Italic → Crystal Font

KIP-1000 PLUS IP65

KIP-1010/30

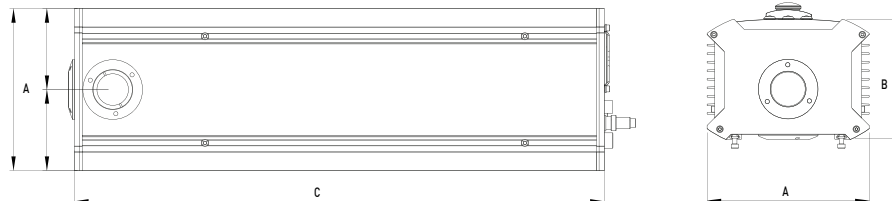


KIP-1080



SYSTEM TYPE				KIP-1010 SP net IP65	KIP-1010 PLUS IP65	KIP-1010 PLUS UHS IP65	KIP-1030 SP net IP65	KIP-1030 PLUS IP65	KIP-1030 PLUS UHS IP65	KIP-1080 PLUS UHS IP65
POWER				10W			30W			80W
WAVELENGTH				9.3µm / 10.2 µm / 10.6 µm						
MAINS SUPPLY				125V / 230V 50/60 Hz [1 Fase + N] 300VA			125V / 230V 50/60 Hz [1 Fase + N] 600VA			125V / 23 V 50/60 Hz [1 Fase + N] 1900VA
DIMENSIONS	Tube [A x B x C]			216.5x164 x621.5 mm			260x193x656 mm			-
	Rack			-			-			450x279.5x1048 mm
	Split Head			-			-			154x100x174 mm
WEIGHT				Net: 14kg Gross: 18kg			Net: 26kg Gross: 32kg			Net: 80 kg Gross:95kg
SYSTEM				Laser source, control and power electronics, CPU and scanners built into the laser tube.					Laser source, control and power electronics and CPU built into the rack. Scanners built into the external head. External control panel.	
				without beam expander	with beam expander		without beam expander	with beam expander		
OPTICS	Working distance (mm)	Focal length (mm)	Marking area (mmxmm)	Beam diameter MODELS SP net (µm)			Beam diameter MODELS PLUS (µm)		Beam diameter MODELS PLUS UHS (µm)	
	85	95	60x60	<385µm –S			<192µm -0		<256µm -0	
	115	125	75x75	<506µm –0			<253µm –0		<337µm –S	
	190	200	100x100	<810µm –0			<405µm -S		<432µm -0	
	230	240	150x150	<972µm –0			<486µm -0		<540µm -0	
	310	320	200x200	<1296µm –0			<648µm -0		<648µm -0	
	400	410	250x250	<1660µm –0			<830µm -0		<864µm -0	
µm: microns S: Standard 0: Optional										
SOFTWARE	▪ ScanLinux V5.2.7 and higher. ▪ Software Marca V5.6.9.a and higher. ▪ Internal bar code. ▪ Software Marca Lite.									
USER INTERFACE	▪ Hand held terminal / Touch screen / PC									
CONTROL BY	▪ Hand held terminal with ScanLinux software. ▪ Touch screen with ScanLinux software. ▪ Full graphics interface: includes Marca software™, dongle and Ethernet cable (TCP / IP). ▪ Marca Lite software: includes Marca™ software, dongle and Ethernet cable (TCP / IP)									
ACCESSORIES	Beam pointer– Shaft encoder kit – Mounting support – Photocell kit									
ENVIROMENTAL CONDITIONS	10°C [50°F] to 40°C [104 °F] external temperature Humidity <95% non-condensation No vibrations									

K-1000



SYSTEM TYPE				K-1010 SP net	K-1010 PLUS	K-1030 SP net	K-1030 PLUS	
POWER				10W		30W		
WAVELENGH				9,3µm /10.2µm /10.6µm				
MAINS SUPPLY				125V / 230V 50/60 Hz (1 Fase + N) 330VA		125V / 230V 50/60 Hz (1 Fase + N) 660VA		
DIMENSIONS	Split Head (optional)			108x106,5x114 mm				
	Tube (A x B x C)			190x141x621 mm		235x193x656 mm		
WEIGHT				Net: 19kg Gross: 24kg		Net: 32kg Gross: 40kg		
SYSTEM				Laser source, control and power electronics, CPU and scanners built into the laser tube				
OPTICS	Working distance (mm)	Focal length (mm)	Marking area (mmxmm)	Beam diameter MODELS SP (µm)		Beam diameter MODELS PLUS (µm)		
	85	95	60x60	<385µm –S		<192µm -O		
	115	125	75x75	<506µm –O		<253µm –O		
	150	160	100x100	<810µm –O		<405µm -S		
	190	200	100x100	<972µm –O		<486µm -O		
	230	240	150x150	<1296µm –O		<648µm -O		
	310	320	200x200	<1660µm –O		<830µm -O		
	400	410	250x250	<385µm –S		<192µm -O		
				µm: microns S: Standard O: Optional				
SOFTWARE	▪ ScanLinux V5.2.7 and higher. ▪ Software Marca V5.6.9.a and higher. ▪ Internal bar code. ▪ Software Marca Lite.							
USER INTERFACE	▪ Hand held terminal / Touch screen / PC							
CONTROL BY	▪ Hand held terminal with ScanLinux software. ▪ Touch screen with ScanLinux software. ▪ Full graphics interface: it includes Marca™ software, Hasp key and Ethernet cable (TCP/IP). ▪ Software Marca Lite: it includes Marca™ software, Hasp key and Ethernet cable (TCP/IP).							
MARKING HEAD	KS-1000 – 9,3 µm			KS2-1000 – 10,2 µm		KS-1000 – 10,6 µm		
	CO ₂ sealed laser tube R.F. technology Wavelength: 9,3 microns			CO ₂ sealed laser tube R.F. technology Wavelength: 10,2 microns		CO ₂ sealed laser tube R.F. technology Wavelength: 10,6 microns		
ACCESSORIES	Beam pointer– Shaft encoder kit – Mounting support – Photocell kit							
ENVIROMENTAL CONDITIONS	10°C (50°F) to 40°C (104 °F) external temperature Humidity <95% non-condensation No vibrations							
K-1010 PLUS SHS (10.6 µm) SPEED	PAPER LABEL		Max. Speed line (m/min)		Cadence (mm)		Scanners speed (mm/s)	
	1 Line / 8 Charact.		575		245000		20000	
	2 Line / 8 Charact.		310		130000		20000	
	3 Line / 8 Charact.		190		80000		20000	
	4 Line / 8 Charact.		145		60000		20000	
	PET		Max. Speed line(m/min)		Cadence (mm)		Scanners speed (mm/s)	
	1 Line / 8 Charact.		425		182000		10000	
	2 Line / 8 Charact.		215		92100		10000	
	3 Line / 8 Charact.		145		60000		10000	
	4 Line / 8 Charact.		105		45000		10000	
	GLASS		Max. Speed line(m/min)		Cadence (mm)		Scanners speed (mm/s)	
	1 Line / 8 Charact.		195		83500		2000	
	2 Line / 8 Charact.		105		45000		2000	
	3 Line / 8 Charact.		65		27800		2000	
	4 Line / 8 Charact.		50		21400		2000	
Normal → Newpal Font <i>Italic</i> → Crystal Font								

Normal → Newpal Font
Italic → Crystal Font

K-1000 by MACSA

Fast. Powerful. Reliable.



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