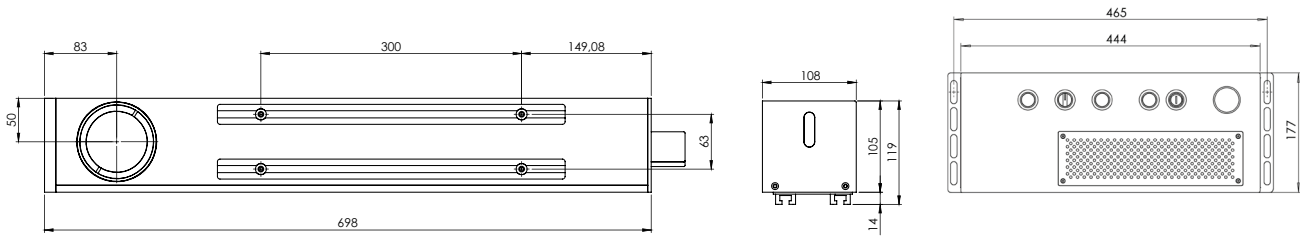


# AB2-F 3D SERIES

**METAL AND PLASTIC  
MARKING WITH  
INTERNAL Z AXIS**



# AB2-F 3D SERIES



## AB2-F 3D

MODEL	AB2-F 3D 20	AB2-F 3D 30	AB2-F 3D 50	AB2-F 3D 100	AB2-F 3D 200
POWER	20w	30w	50w	100w	200w
WAVELENGTH	1064nm				
FREQUENCY RANGE	20-200KHz	30-200KHz	50-200KHz	100-200KHz	2-4000KHz
PULSE WIDTH	100ns				20-500ns
MAINS SUPPLY	100/240v - 50/60Hz (1 Phase + N)				
	350 VA	400 VA	600 VA	750 VA	1000VA
DIMENSIONS (mm)	Head	698 x 106 x 105/119mm			
	Rack	20 / 30 / 50 : 444x548x177		100 / 200 : 453x481x222	
Weight (Kg)	Net	32Kg			
	Gross	36Kg			

### SYSTEM

Optical isolator and colimator of the laser source.  
Galvanometric scanners built into the marking head  
Control and power electronics. Drivers of the scanners  
Dual processor CPU with 4 axis control and optoisolated digital I/O  
Power supplies and laser source built into the control rack

TECHNOLOGY						PULSED										
FOCAL SPECIFICATIONS XQS	MA (mm)	WD (mm)	FL (mm)	Z-range (mm)	Fieldsize range (mm)	F-20		F-30		F-50		F-100		F-200		
						BD (μm)	PD (Kw/cm²)	BD (μm)	PD (Kw/cm²)	BD (μm)	PD (Kw/cm²)	BD (μm)	PD (Kw/cm²)	BD (μm)	PD (Kw/cm²)	
	80x80	93	150				54	867	54	1301	54	2168	54	4336	34	22200
	120x120	140	200	-50 / +50	85x85 / 150x150	72	488	72	732	72	1219	72	2439	45	12488	
	200x200	240	300	-100 / +100	110x110 / 270x270	108	217	108	325	108	542	108	1084	68	5550	
400x400	520	400	-280 / +210	200x200 / 500x500	145	122	145	183	145	305	145	610	90	3122		
SOFTWARE OPTIONS	Abmarca label design software (Requires MS Windows 7 or higher). AbOptima supervisory software Abvision control software for vision systems															
USER INTERFACE	Touch Screen - PC / Laptop															
ACCESSORIES	Touch Screen Terminal - Red pointer - Encoder Kit - Photocell kit - Alarm kit Fume Extractor - Mounting support - Mounting Bracket U-ARM Marking paper - Protection Goggles - Air Cooling Kit															

### ENVIRONMENTAL CONDITIONS

10-35°C non condensing  
vibration free

\*MA: Marking Area | FL: Focal Length (Distance between the lens and the surface to be marked)  
WD: Average Working Distance (Working distance of the machine at the average position of the 3D axis)  
BD: Spot beam diameter at the average focal position | PD: Power density at the average focal distance  
These values are an approximation, and because of the optical components may be different for each laser.

