

## U300 (8040)



### Laser

Wavelength	1.064 nm
Laser source	Pulsed Yb-fiberlaser
Power stability	better $\pm 5\%$
Cooling	active fan cooled
Laser type	20W Fiber
Maximum laser power	20W
Pulse frequency (kHz)	20-60
Pulse length(ns)	~100
Beam quality	$M^2 < 2$
Maximum pulse energy [mJ]	1

### Laser marker with software-controlled Z-axis

Lens	F160	F254	
Maximum part height (mm)	168	61	
Marking field XxY(mm)	120x120	190x190	
Spotdiameter @ working dist.(mm)	0,045	0,068	
Marking resolution (mm)	0,002	0,003	
Max. marking speed (m/sec)	12	12	
Maximum load	50 kg		
Working table	T-slot plate (Isel PT 25): 350 x 400 mm <sup>2</sup>		
Weight approx.	56 kg		

### System specification

Norm	CDRH Lasersafety; Laserclass 2; CE [EN 60825-1]
Software	Ruby; UMark; Directmark Printerdriver
Laser source	Pulsed Yb-fiberlaser
Focus and pilot laser	Diode laser $\lambda = 655\text{nm}$ , Laser class 2; 1mW
Cooling	passiv air cooled
Cable length to rack	~ 2,5m
Protection level	IP 54
Dimensions [W x H x D (mm)]	445 x 653 x 851
Weight including lense	~56kg

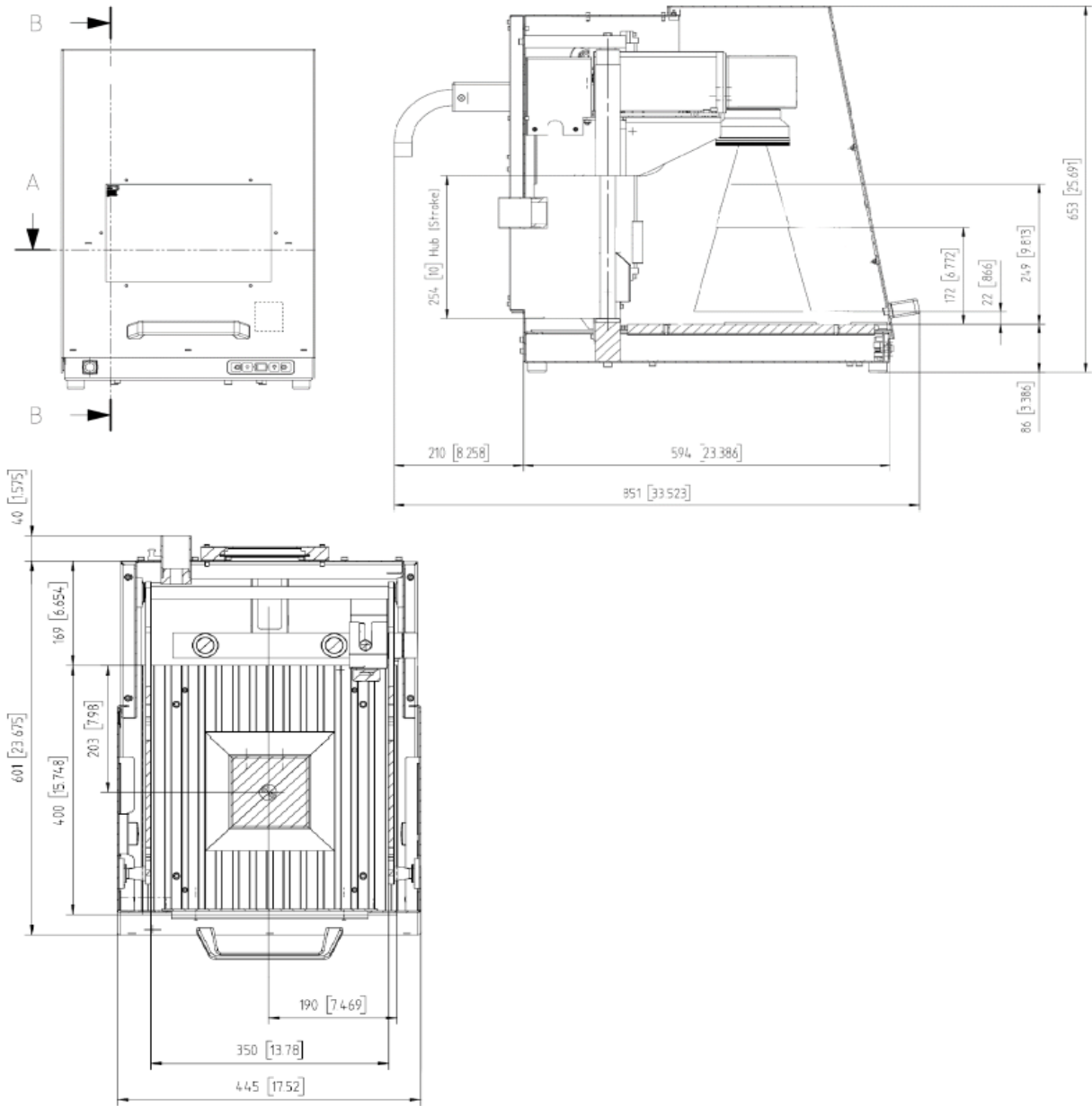
### Laser Rack

Interfaces	Ethernet, RS232, Laser-Interlock, Marking-Start (24 VDC), Marking-Stop (24 VDC), E-Stop, Error-Reset, Laser-Busy
Weight	20kg
Dimensions LxBxH	449x559x177
Power supply	115 - 230V AC, 50/60Hz, 1/N/PE
Maximum power consumption	Max. 500W
Cooling	active fan cooled
Protection level	IP 20
Mini. required exhaust	Atmos Nano

### Ambient conditions

Operation	Temperature range +15 to +35° C; Relative humidity max. 60 %. Non-condensing
Storage	Temperature range +0 to +30° C; Relative humidity max. 60 %. Non-condensing
Transport	Temperature range -10 to +40° C; Relative humidity max. 70 %. Non-condensing

## U300 Dimensions



Subject to change without notice. Errors and omissions excepted

## Laser Rack Dimensions

