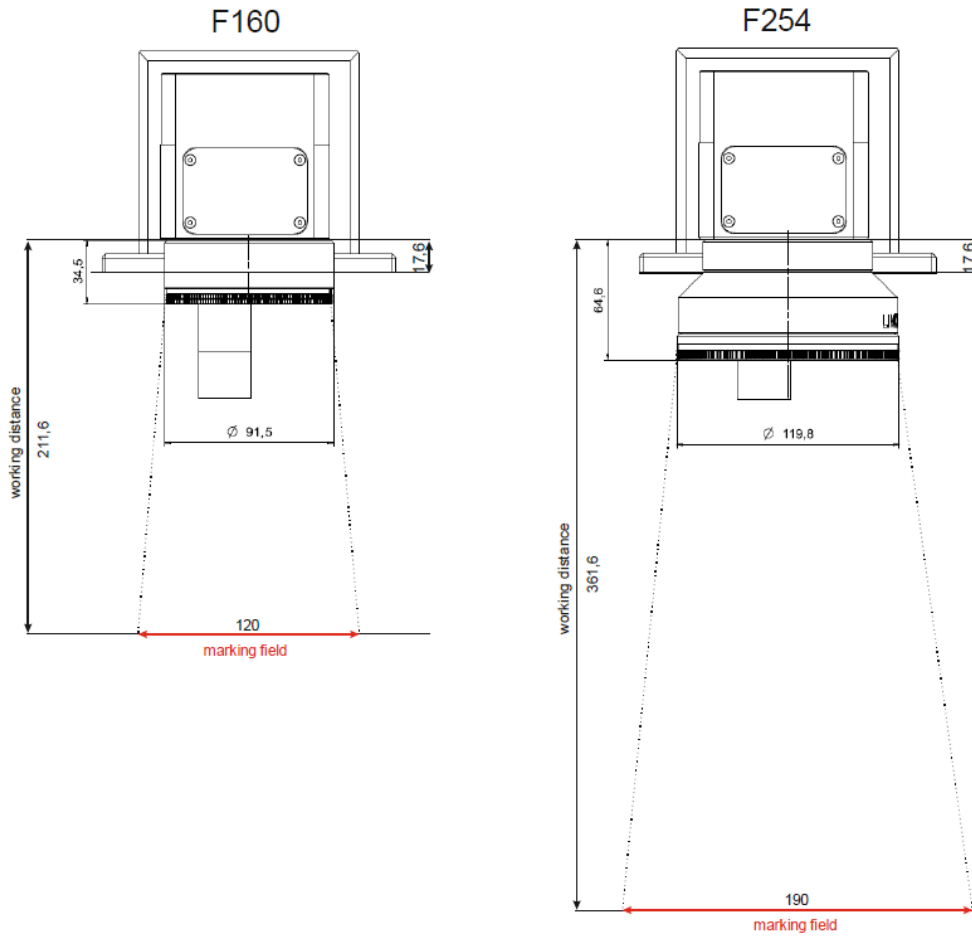


U300

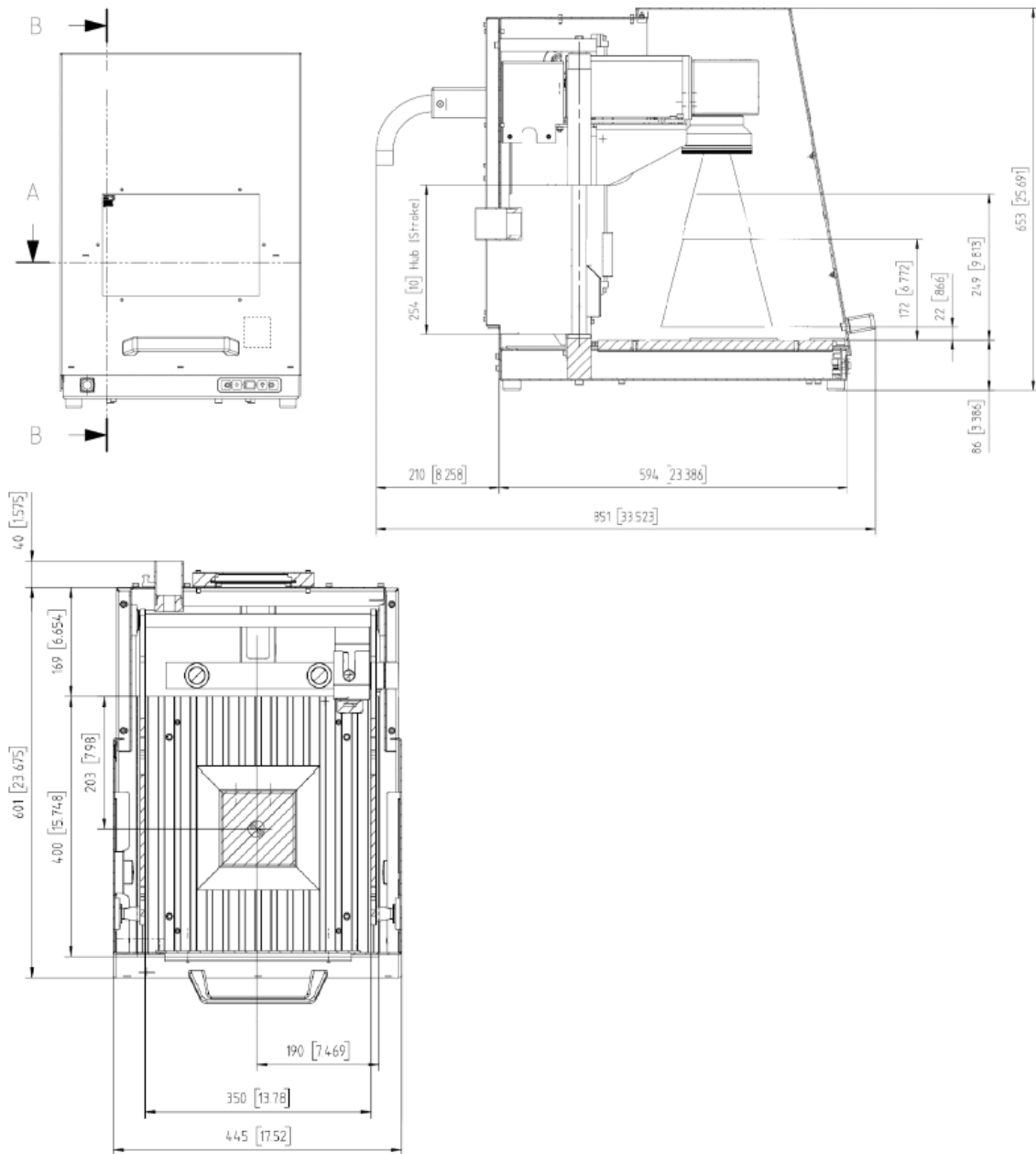
## Technical Data U300

Technical Data U300 Fiber (8040)		
Laser Marker	UM 0300 02F F160	UM 0300 02F F254
Max. workpiece size (mm)	350x400	
Max. workpiece height (mm)	171	22
Max. loading weight	25 kg	
Z-axis	Software controlled servo axis	
Marking field XxY(mm)	120x120	190x190
Working distance (mm)	211,6	361,6
Spot diameter at working distance(mm)	0,045	0,068
Marking resolution (mm)	0,002	0,003
Max. marking speed (m/sec)	6	9,5
Max. positioning speed (m/sec)	12	19
Norm	CDRH Lasersafety; Laserclass 2; CE [EN 60825-1 (2015)]	
Software	UMark; Directmark Printerdriver	
Supported mono fonts	ISOCT, RomanS,SOKOL	
Supported fonts	all installed TrueTypeFonts	
Supported 1D barcodes	Australian Post; Codebar; Code 11; Code 128; Code 39; Code 93; DAFT; Deutsche Post; DPD; EAN-13; EAN-14; EAN-8; GS1; HIBC; ISBN; GS1; Pharmacode	
Supported 2D codes	Datamatrix; QR-Code; Aztec; Codeblock-F; GS1 Databar; HIBC; Maxi Code; PDF 417	
Supported image formats	BMP; JPG; DXF; PDF; EPS; PS; TSF; DWG;	
Laser source	Pulsed Yb-fiberlaser	
Beam quality	M <sup>2</sup> < 2	
Power stability	better ± 5 %	
Maximum pulse energy	1 mJ	
Maximum laser power	20W	
Wavelength (nm)	1064	
Pulse frequency (kHz)	20-60	
Pulse length (ns)	~100	
Focus and pilot laser	Diode laser λ = 650nm, Laser class 2; 1mW	
Cooling	passiv air cooled	
Cable length to rack	~ 2,5m	
Protection level	IP 54	
Weight	56 kg	
<b>Laser Rack</b>		
Interfaces	Ethernet, Laser-Interlock, Marking-Start (24 VDC), Marking-Stop (24 VDC), E-Stop, Error-Reset, Laser-Busy	
Weight	20 kg	
Dimensions LxBxH	449x559x177	
Power supply	115 - 230V AC, 50/60Hz, 1/N/PE	
Maximum power consumption	Max. 500W	
Cooling	active air cooled	
Protection level	IP 20	
Mini. recommended exhaust	Atmos Nano	
<b>System requirements</b>	Windows compatible PC at least 1GHz and Windows 7 with ethernet interface	
<b>Ambient conditions</b>		
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 – laser marking head with lens configuration



## U300 - Dimensions



## Laser Rack

