

## SpeedMarker 300 (8037)



### Laser

Wavelength	1.064 nm
Laser source	Pulsed Yb-fiberlaser
Power stability	better ± 5 %
Cooling	active fan cooled

Laser type	20W Fiber	20W MOPA	30W Fiber	50W Fiber	100W MOPA
Maximum laser power	20W	20W	30W	50W	100W
Pulse frequency (kHz)	1-600	1-4000	1-600	2-200	1-4000
Pulse length(ns)	200	2-500	200	200	2-500
Beam quality	M <sup>2</sup> < 1.5	M <sup>2</sup> < 1.4	M <sup>2</sup> < 1.8	M <sup>2</sup> < 1.4	M <sup>2</sup> < 1.6
Maximum pulse energy [mJ]	0.8	0.8	0.8	1.25	1.5

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

Lens	F100	F160	F210	F254
Maximum part height (mm)	229	168	111	61
Marking field XxY(mm)	70x70	120x120	150x150	190x190
Spotdiameter @ working dist.(mm)	0.027	0.045	0.059	0.068
Marking resolution (mm)	0.001	0.002	0.002	0.003
Max. marking speed (m/sec)	7	12	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] (with pass through option: CDRH Lasersafety; Laserclass 4 with EC- Declaration of Incorporation According to Machine Directive 2006/42/EC, Annex II 1. B)
Software	Speedmark; 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
Focus and pilot laser	Diode laser λ = 655nm, 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 938 x 851
Weight including lense	65kg

## Laser Rack

Interfaces	Ethernet, RS232, Laser-Interlock, Marking-Start (24 VDC), Marking-Stop (24 VDC), E-Stop, Error-Reset, Laser-Busy, assignable digital I/O's (4/4;24 VDC),
Weight	20kg (100W 25 kg)
Dimensions LxBxH	449x619x177
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

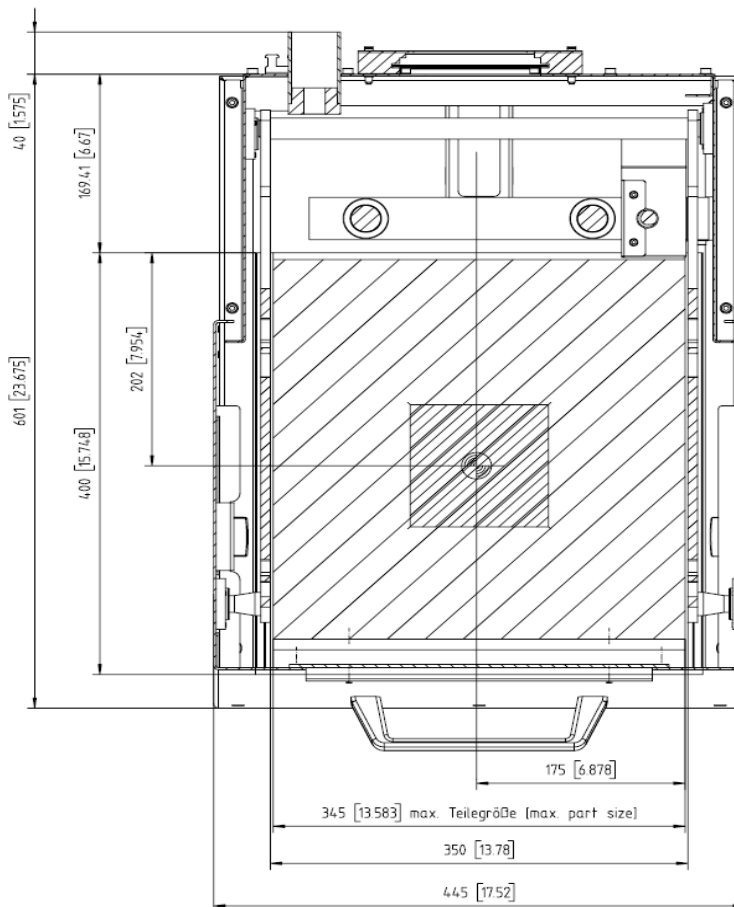
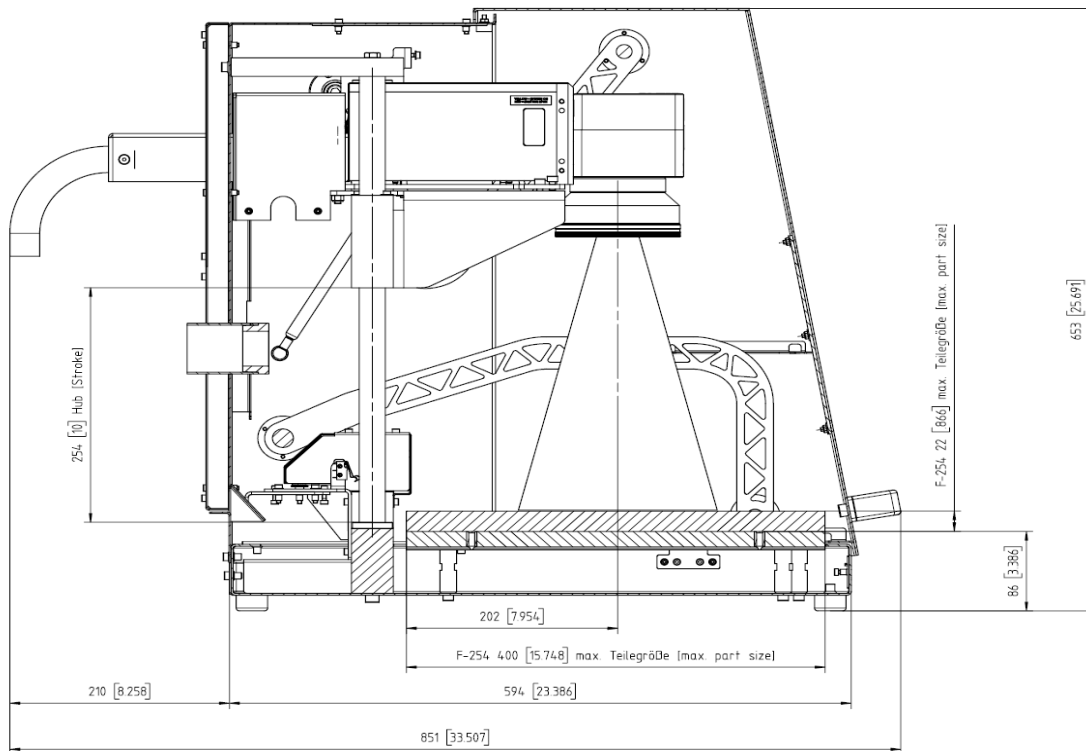
## Laser Controller IPC

Weight	9 KG
Dimensions LxBxH	428x400x88.5
Power supply	115 - 230V AC, 50/60Hz, 1/N/PE
Maximum power consumption	Max. 500W
Cooling	active fan cooled
Protection level	IP 20

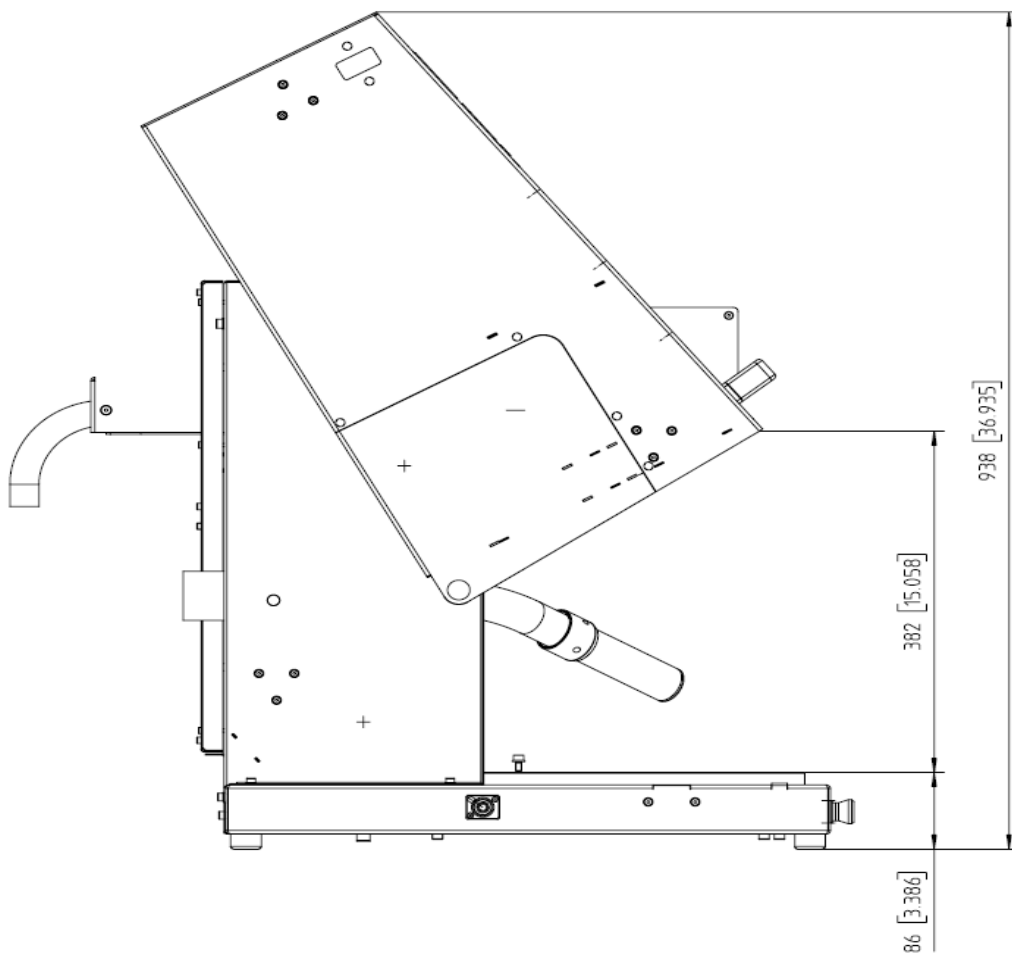
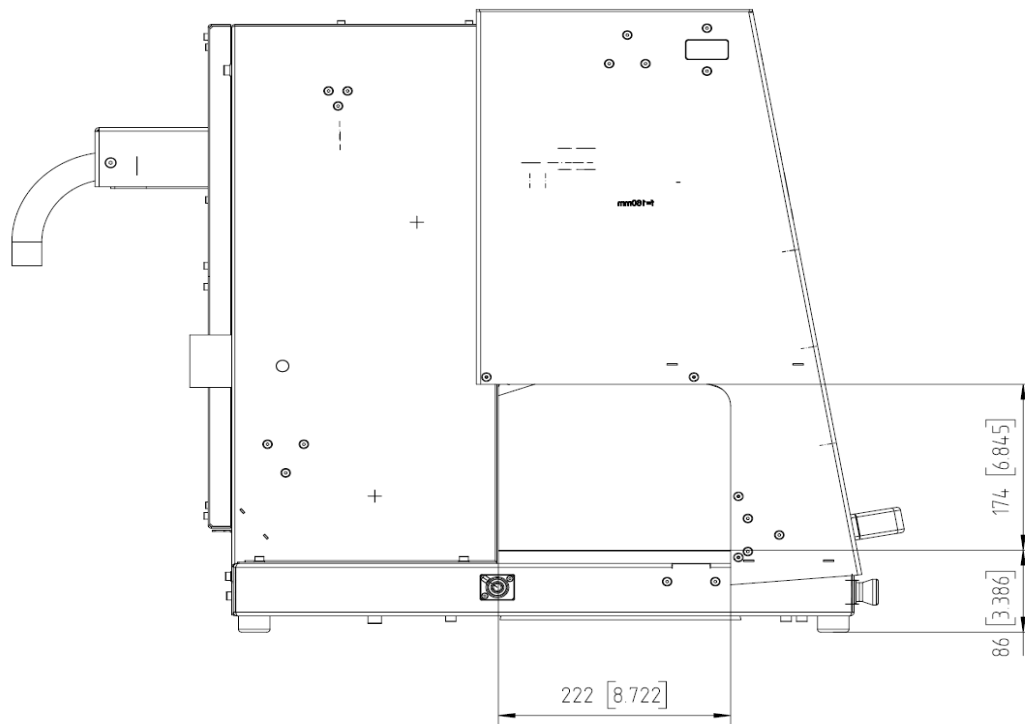
## Ambient conditions

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

## SpeedMarker 300



## SpeedMarker 300 - Pass Through Option



Tolerances on Dimensions: 1%

Content subject to change without prior notice.

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