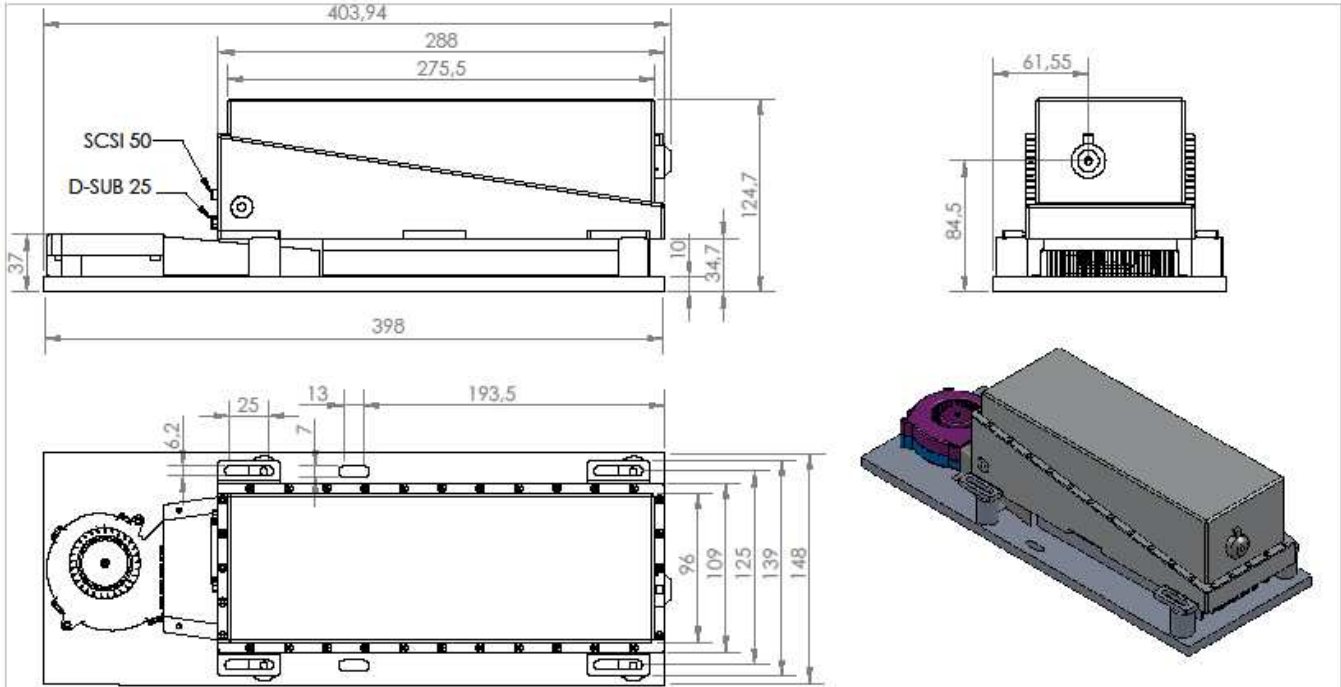


<b>Specification for the Concerto<sup>®</sup> 442nm Laser</b>	
<b>Output beam parameters:</b>	
Output wavelength	442 nm + / - 0.5
Rated output power (CW)	25, 50, 75, 100 & 150 mW
Output beam diameter	1.2 mm (+/-0.2) @ 10mm 1/e <sup>2</sup>
Transverse mode structure	TEM <sub>00</sub> , M <sup>2</sup> < 1.1
Divergence	<1 mrad ½ angle
Beam pointing stability	≤ 10 µrad / °C
Longitudinal mode structure	SLM (Single frequency)
Polarisation	Vertical
Polarisation ratio	≥ 100: 1
Output power noise (p-p)	≤ 3 % (10 Hz - 2 MHz)
Output power noise (rms)	≤ 0.5 % (10 Hz - 2 MHz)
Output power stability	≤ 2 % (4 hours)
<b>Design 01_02_0114</b>	
Thermal management	TEC conductive cooling through customer's metal heat sink plate
Operating temperatures (base plate)	15 - 35 °C
Storage temperatures	10 - 50 °C
Laser head size (L x W x H)	400 x 150 x 125 mm
Laser head weight including cooler plate	5720 g
<b>Controller 04_01_01</b>	
Dimensions (LxWxH)	175 x 104 x 45 mm
Weight	740 g
<b>Accessories</b>	
Power adapter	Standard AC/DC converter, 12VDC, 140W max with Mini-DIN 4 power connector
Cables	Included
Weight	1200 g

CW operation, turnkey system, output power fixed, completely aligned and sealed at production, no further alignment needed by user. Specification may be subject to some change without notice



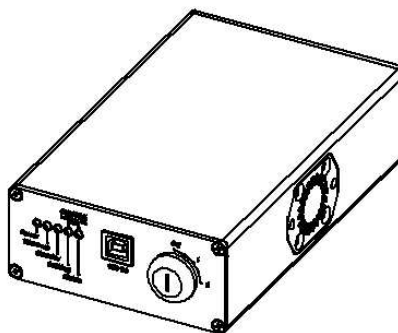
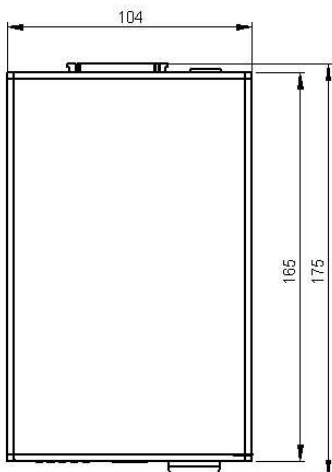
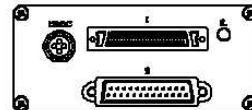
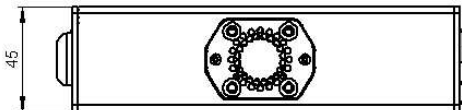
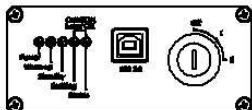
ALLE ANGABEN IN [mm]		<b>KLASTECH Laser Technologies GmbH</b>	
$\sqrt{Ra\ 6.3}$ $\sqrt{Rz\ 0.1}$ $\sqrt{Rz\ 0.1}$		FRIEDENSTRASSE 41-43, D-44139, DORTMUND	
ALLGEMEINTOLERANZEN ISO 2768 - TH		WERKSTOFF:	BENENNUNG:
BEAR:	CW	FINISH:	<b>Concerto</b>
GEPR:			ZEICHNUNGSNUMMER:
PRÜF:			<b>01_02_0114</b>
DATUM:	NAMEN:	MABSTAB: 1 : 3	BLATT 1 von 1
			<b>A4</b>

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<b>KLASTECH GmbH</b> Friedenstr. 41-43, 44139 Dortmund, Germany www.klastech.com		
GENERAL TOLERANCES ISO 2768 - FH	DESCRIPTION Controller_4A	
ALL DETAILS IN (mm) $\sqrt{Rz 6.3}$ $\sqrt{Ra 0.1}$ $\sqrt{L 0.1}$	DRAWING NUMBER 04_01_01_v01	A4
	SCALE: 1:2	PAGE 1 of 1