MET DoForce

Direct Diode Laser Module

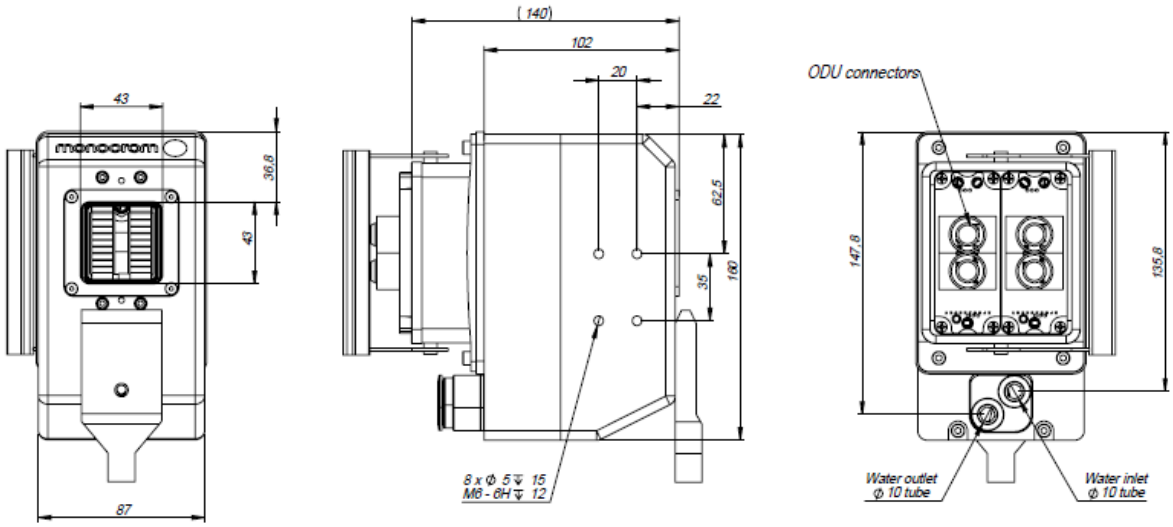
Features:

- Actively cooled laser bar stack
- Clamping™ Patented Technology (Solder free mounting of laser bars)
- Long lifetime
- High reliability
- Low thermal resistance
- Wide storage temperature - 40º C to + 85º C

Suitable for:

- Industrial
- Heat treatment

MET DoForce | outline



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A-Stack 1.8 I TECH SPECIFICATIONS

	MET DoForce	
Laser[1,2]	**LD 1**	**LD 2**
Type	direct diode laser	
Wavelength[3] [nm]	940	
Wavelength tolerance [nm]	± 10	
Working distance (WD) [mm]	165	
Spot size @WD (W×H) at FWHM [mm]	20 × 32	20 × 32
Spot size @WD (W×H) LD1&LD2 at FWHM [mm]	40 × 34	
Operating current [A]	up to 130	up to 130
Voltage @ connectors[4] [V]	up to 20	up to 20
Output power per stack [W][5]	1000	1000
Output power [W][5]	2000	
Electro-optical efficiency [%]	> 55	
Module		
Duty cycle	CW	
Coolant flow [l/min]	8	
Coolant pressure drop at nominal flow [bar]	5	
Coolant	90% distilled water + 10% ethylene glycol	
Coolant conductivity[6] [µS/cm]	5	
Coolant particle size filter [µm]	10	
Coolant temperature [°C]	20 ±1	
Water connections	2× D10	
Electrical connections	ODU Connector – see scheme	
Optional items	air knife	
Aiming beam	4 each module	
Laser class product (EN-60825)	4	
Expected lifetime [h][7]	10000	

1. Specifications at 20 °C, at the beginning of the lifetime.
2. If any other requirements are needed, please contact us.
3. Other wavelengths are also available.
4. Voltage from the power supply must be higher, as due to high current there will be a voltage drop in the cables.
5. Tolerance is ±5%.
6. Initial conductivity for the DI water should be <10 [µS/cm].
7. Reduced lifetime if use in conflict to the nominal operational conditions.

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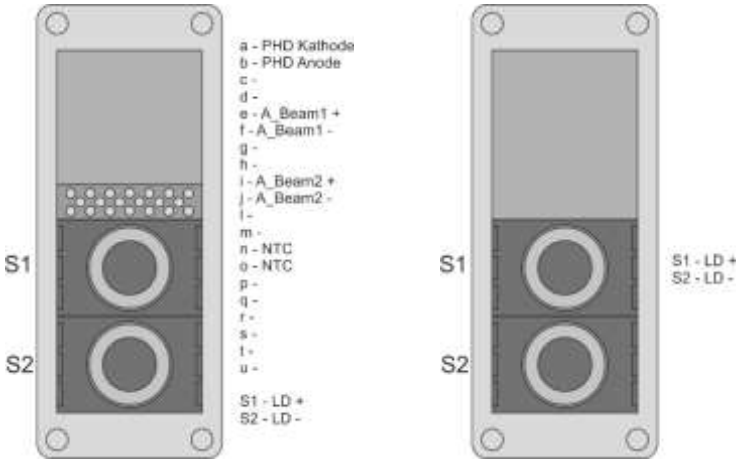
Electrical connectors



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