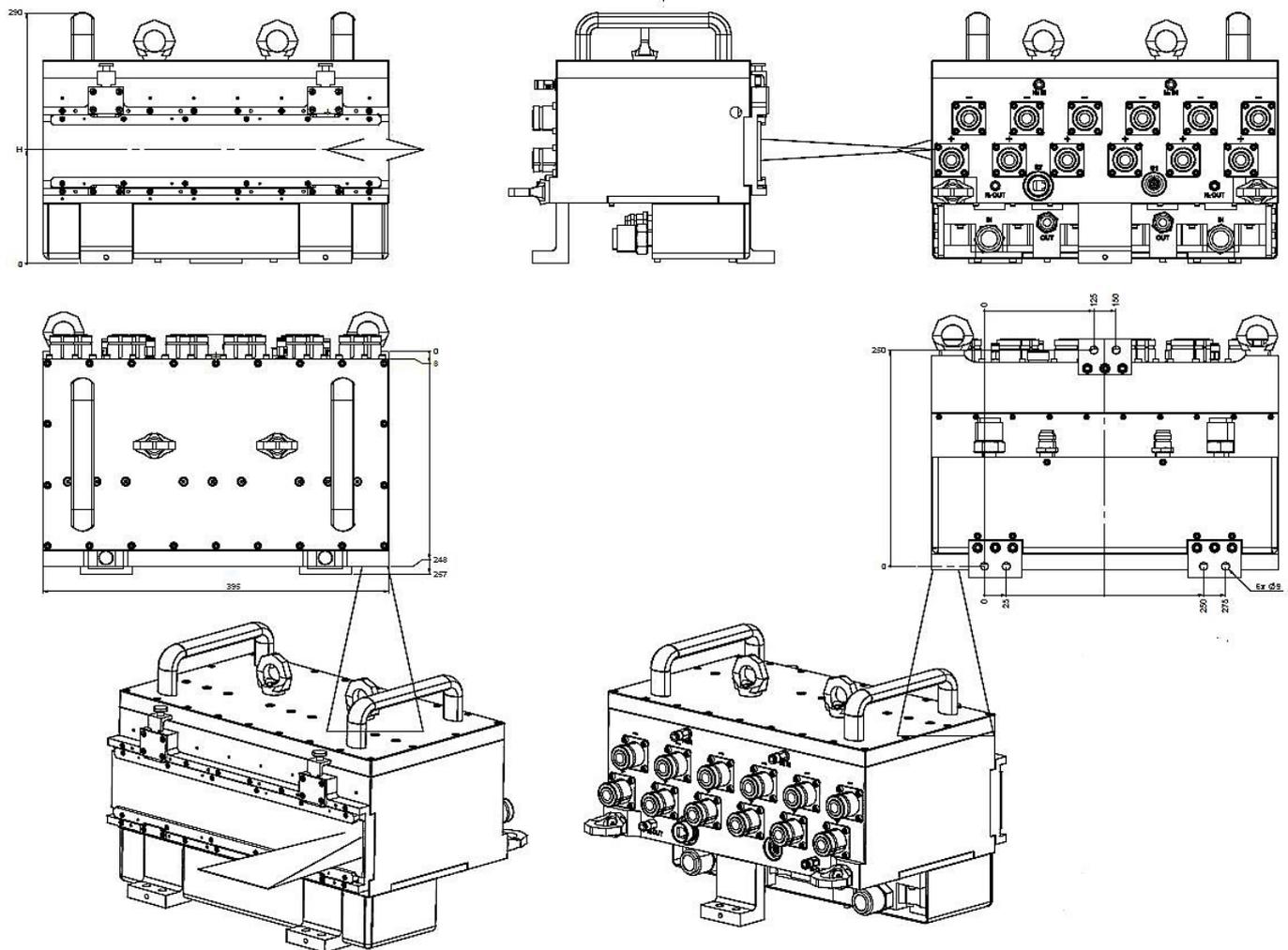


# Industrial Laser System for Material Processing

## Activation Series

	<p><b>Features</b></p>	<p><b>Applications</b></p>
	<ul style="list-style-type: none"> <li>• Turnkey laser system</li> <li>• High beam uniformity and power density</li> <li>• Reliable control and protection functions</li> <li>• Beam length expandable</li> </ul>	<ul style="list-style-type: none"> <li>• Material processing</li> <li>• Laser annealing</li> <li>• Laser reflow soldering</li> <li>• Laser bonding</li> <li>• Laser cleaning</li> </ul>

### Product Dimensions (mm)



**Remark:** The structure drawing is for reference only. Please feel free to contact us for any special requirements.

## Product Specifications

Product Code	ACT300159 <sup>1</sup>	ACT300161 <sup>1</sup>	ACT300162 <sup>1</sup>	ACT300163 <sup>1</sup>
Part No. <sup>2</sup>	LM-AIR5000- L155×0.4	LM-AIR9000- L155×0.4	LM-AIR10000- L350×0.4	LM-AIR18000- L350×0.4

General Data	Unit	Value			
Dimensions (H × W × D) <sup>3</sup>	mm	395 × 305 × 285	395 × 305 × 285	395 × 305 × 285	395 × 305 × 285
Max. Weight	kg	24	24	24	24

Optical Data	Unit	Value			
CW-nominal Output Power	W	5000	9000	10000	18000
Wavelength	nm	940	940	940	940
Wavelength Tolerance (±)	nm	10	10	10	10
Beam Length: Beam Size at Working Distance	mm	155	155	350	350
Beam Length: Line Tolerance (±)	mm	5	5	5	5
Beam Length: Beam Profile	-	TopHat	TopHat	TopHat	TopHat
Beam Length: Measured at Level	-	FW 85%	FW 85%	FW 85%	FW 85%
Beam Width: Beam Size at Working Distance	µm	400	400	400	400
Beam Width: Line Tolerance (±)	µm	50	50	50	50
Beam Width: Beam Profile	-	Gaussian	Gaussian	Gaussian	Gaussian
Beam Width: Measured at Level	-	FW1 / e <sup>2</sup>			
Uniformity [1 - (Imax - Imin) / (Imax + Imin)]	%	> 90	> 90	> 90	> 90
Working Distance	mm	> 180	> 180	> 180	> 180

Cooling Unit	Unit	Value			
Chiller Type	-	Air - Water	Air - Water	Air - Water	Air - Water
Cooling Capacity	W	> 6000	> 10000	> 12000	> 24000
Laser Circuit Water Pressure	bar	3.5	3.5	3.5	3.5
Laser Circuit Water Flow	L / min	15	27	30	45
Laser Circuit Water Type	-	DI Water	DI Water	DI Water	DI Water

Thermal Data	Unit	Value			
Operating Temperature	°C	15 ~ 35	15 ~ 35	15 ~ 35	15 ~ 35
Storage Temperature	°C	15 ~ 60	15 ~ 60	15 ~ 60	15 ~ 60

<sup>1</sup> Typical customization of products.

<sup>2</sup> Part No. = Brand Code - Series & Power - Line Length - Line Width.

<sup>3</sup> Height × Width × Depth.

