Industrial Laser System for Material Processing

Activation Series

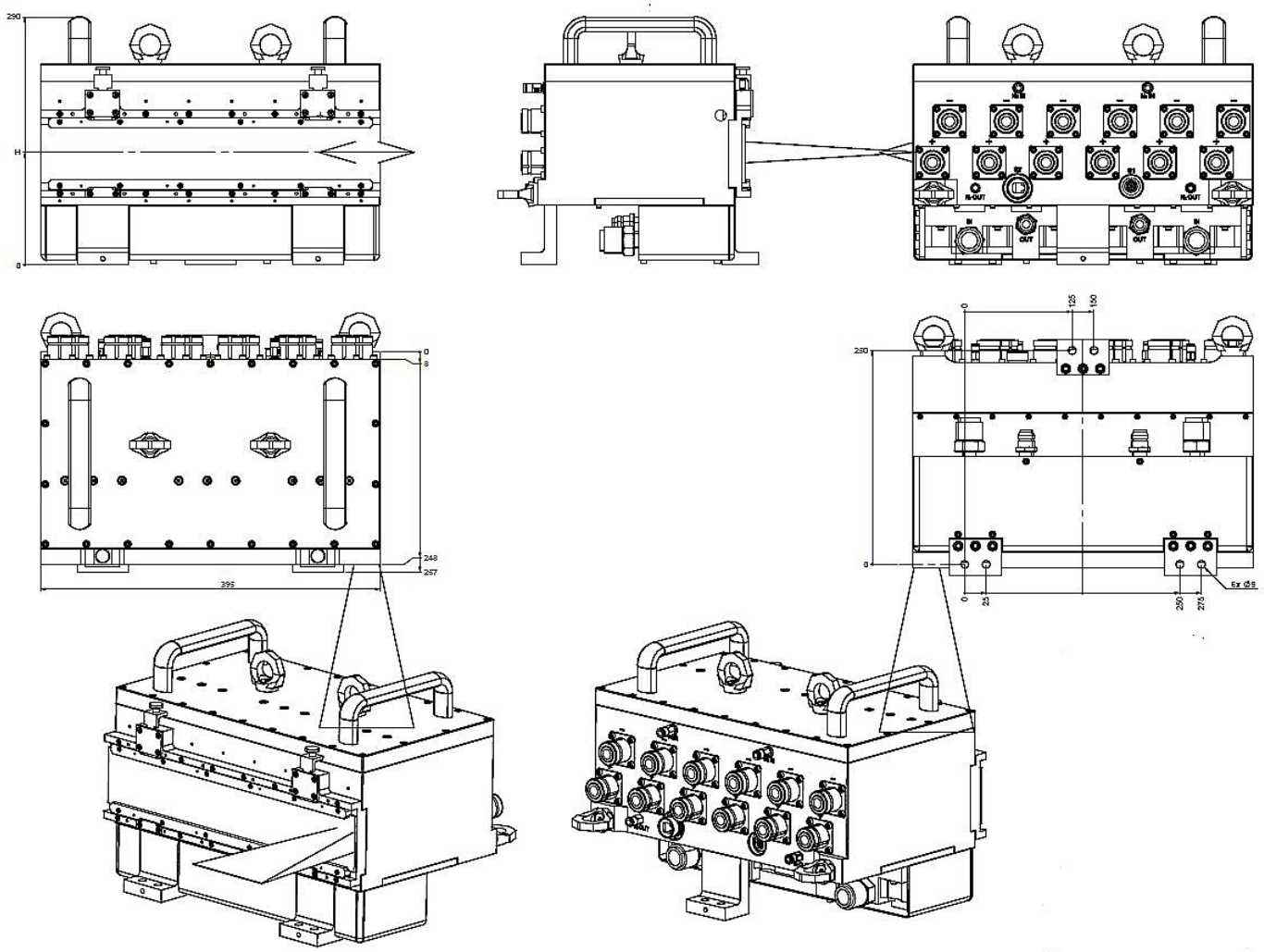
Features

- Turnkey laser system
- High beam uniformity and power density
- Reliable control and protection functions
- Beam length expandable

Applications

- Material processing
- Laser annealing
- Laser reflow soldering
- Laser bonding
- Laser cleaning

Product Dimensions (mm)



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

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Product Specifications

Product Code		ACT300159 [1]	ACT300161 [1]	ACT300162 [1]	ACT300163 [1]
Part No. [2]		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) [3]	mm	395 × 305 × 285	395 × 305 × 285	395 × 305 × 285	395 × 305 × 285
Max. Weight	kg	24	24	24	24
Optical Data					
CW-nominal Output Power	W	5000	9000	10000	18000
Wavelength	nm	940	940	940	940
Wavelength Tolerance (±)	nm	10	10	10	10
Line Length: Beam Size at Working Distance	mm	155	155	350	350
Line Length: Line Tolerance (±)	mm	5	5	5	5
Line Length: Beam Profile	-	TopHat	TopHat	TopHat	TopHat
Line Length: Measured at Level	-	FW 85%	FW 85%	FW 85%	FW 85%
Line Width: Beam Size at Working Distance	μm	400	400	400	400
Line Width: Line Tolerance (±)	μm	50	50	50	50
Line Width: Beam Profile	-	Gaussian	Gaussian	Gaussian	Gaussian
Line Width: Measured at Level	-	FW1 / e^2	FW1 / e^2	FW1 / e^2	FW1 / e^2
Uniformity [1 - (Imax - Imin) / (Imax + Imin)]	%	> 90	> 90	> 90	> 90
Working Distance	mm	> 180	> 180	> 180	> 180
Cooling Unit					
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					
Operating Temperature	°C	15 ~ 35	15 ~ 35	15 ~ 35	15 ~ 35
Storage Temperature	°C	15 ~ 60	15 ~ 60	15 ~ 60	15 ~ 60

[1] Typical customization of products.

[2] Part No. = Brand Code - Series & Power - Line Length - Line Width.

[3] Height × Width × Depth.

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