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For reference only

GENERAL-PURPOSE
AWING I 3015 6KW

The information reserves the right to be modified without prior notice.

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MAIN CONFIGURATION:

MODEL: AWING 3015 6KW

Sn	Name	Quantity	Manufacturer Name
Article 1	Laser Source		
i	6000W Fiber Laser	1 unit	MAX
Article 2	Cutting head		
i	Laser cutting head	1 Set	BLT421
Article 3	Main Frame		
i	Mechanical Table and Parts	1 Set	Penta Laser Technology (Shandong) Co.,Ltd
ii	X,Y,W Axial Rack	1 Set	Penta Laser Technology
iii	X,Y Linear Guide	1 Set	Penta Laser Technology
iv	Accessories	1 Set	
Article 4	CNC system and software		
i	CNC System	1 Set	Bochu 4000E (not including separate nesting software)
ii	Servo Motors&Drivers	4 Sets	HCFA
iii	Reducer	3sets	Shimpo

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Sn	Name	Quantity	Manufacturer Name
Article 4	CNC system and software		
iv	Cutting Database	1 unit	Penta Laser
Article 5	Low Voltage Electrical System		
i	Circuit Breaker, Contact, Electric Relay	1 Set	Schneider
ii	Terminal	1 Set	Paike
iii	Switch Power Supply	1 Set	MEAN WELL
iv	drag chain cable	1 Set	SONKA
Article 6	Pneumatic system		
i	Proportional valve	1 Set	YANZTEK
ii	Filter	1 Set	AirTAC
iii	High-presser air tube	1 Set	Chinaust
Article 7	Standard Auxiliary Systems		
i	Chiller	1 Set	TFLW-6000WDR
ii	Table	1 Set	Penta Laser Technology

Article 7	Device Prepared by Demander		
i	Air Compressor	1 Set	Suggest not less than 1.3m³/min,1.6MPa
ii	Dust Collection	1 Set	Diameter 300mm, Suggest air volume not less than 4000 m³/h
iii	Stabilizer	1 Set	Suggest not less than 80kVA
iv	Power cable	1 Set	Distance between power cabinet and equipement to be confirmed

Note:

1. If the customers buy the above-mentioned system themselves, please do buy the appointed brands and series. If otherwise the customer changes to other brands and series (not appointed one or ones), the customer shall be responsible for the consequent effect to the overall performance of the equipment.

2. The warranty period for Standard Auxiliary Systems provided by us is 1 year.

3. The piping of the air compressor shall be installed by the customer.

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SPECIFICATIONS:

Name	Unit	AWING 2025 6KW
Travel	mm	X axis 1500 | Y axis 3000 | Z axis 140
Rapid Speed	m/min	100
Maximum Acceleration	G	1.0
Accuracy of positioning of axis X (GB/T 17421.2-2023)	mm/m	0.03
Accuracy of positioning of axis Y (GB/T 17421.2-2023)	mm/m	0.03
Repeatability of positioning of axis X (GB/T 17421.2-2023)	mm	0.03
Repeatability of positioning of axis Y (GB/T 17421.2-2023)	mm	0.03
Equipment weight and size		
Weight of the equipment	kg	2000
Equipment carrying capacity	kg	1000
Equipment dimensions (length× width× height)	mm	4980×2570×1760

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INSTALLATION AND TESTING CONDITIONS:

1. Cabinet-installing on-sight: three phase five wire 380V, 50Hz , Three-phase voltage unbalance<2.5% Line voltage fluctuations<5%□ capacity of no less than 80KVA
2. The equipment shall be earthed with especial earthing device, and the resistance should be no more than 4Ω.
3. Provide the necessary lifting equipment and personnel, including lifting and handling equipment: an overhead crane with a minimum lifting height of not less than 3 meters and a minimum lifting capacity of 15 tons, or a crane or forklift meeting the above conditions with a minimum lifting capacity greater than 15 tons, as well as two jacks.
4. Provide materials such as steel plates required for on-site debugging of the equipment. Starting from the day the equipment arrives at the site, the Buyer shall prepare the steel plates needed for equipment debugging.
5. Provide with temporary pass for testing staff
6. The Buyer shall prepare the following items prior to the arrival of the equipment: Cutting gases: high-purity nitrogen (purity ≥ 99.999%) and oxygen (purity ≥ 99.99%). Water for the laser chiller unit: distilled water, free from minerals and impurities.
7. Space and Foundation Requirements for Equipment: The ground bearing capacity must be at least 2000 kg/m², with a flatness tolerance of less than 5 mm. On the condition that the existing ground is solid and sturdy, a 350 mm thick concrete layer shall be poured. The cement grade shall be no lower than 425#, and vibration isolation trenches shall be installed around the equipment foundation.
8. Compressed Air Pipeline: The compressed air pipeline connected to the machine tool shall be made of stainless steel and capable of withstanding a maximum pressure of 15 bar. (The length of this pipeline will be determined based on the on-site equipment installation conditions.)