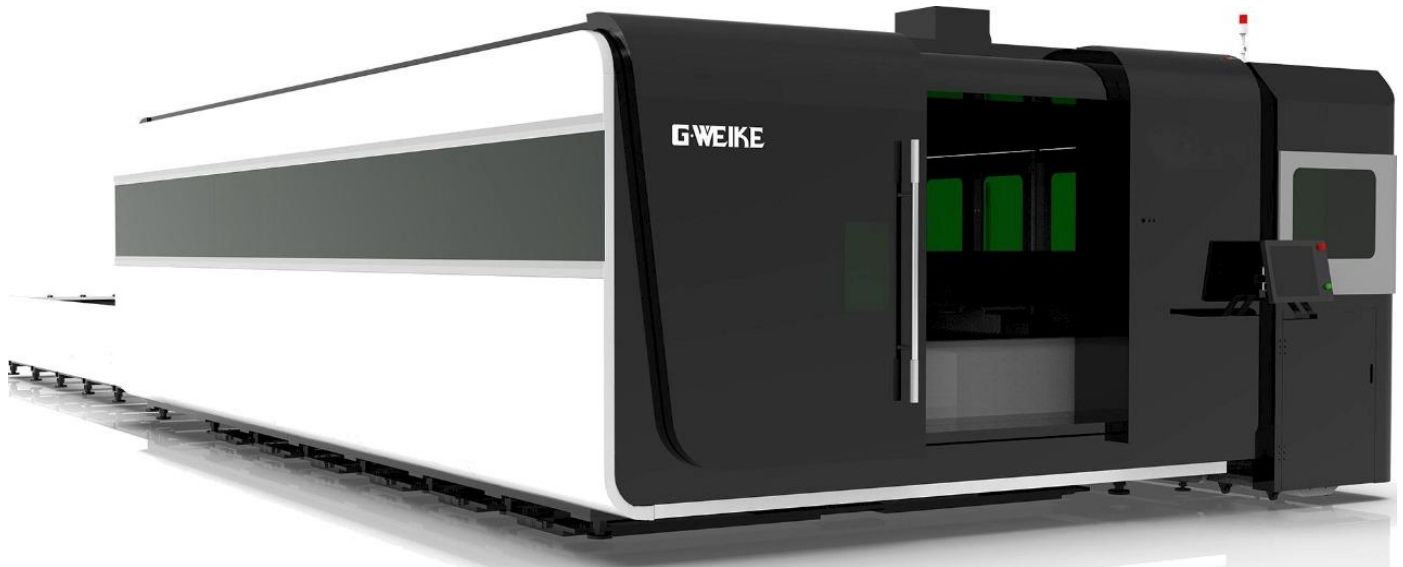




NAREX INDUSTRIAL MACHINERY L.L.C.

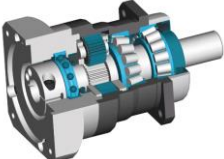
HIGH POWER FIBER LASER CUTTING MACHINE MODEL : LF6025GTR-20000W RAYCUS/MAX



CHOOSE WISELY

P. O. Box No.: 23097, Sharjah, U.A.E | Main Office Tel. No. +971-6-5338277, Fax No. : +971-6 -5332868
Branch Tel No.: +9716-5439350, | E-mail: narex@emirates.net.ae; narexind@eim.ae; www.narexuae.com

TECHNICAL CONFIGURATIONS:

	COMPONENT	DESCRIPTION	BRAND/ORIGIN
	20000W RAYCUS/MAX LASER SOURCE	High-Power Multimode Continuous Fiber Laser Series with high electro-optical conversion efficiency, high light beam quality, high energy density, wide modulation frequency 100,000 hours life time more stable and cost-efficient maintenance free.	
	BOCI LASERHEAD	Cost-effective smart cutter that focuses on 2D, 3D and bevel cutting machine, delivers a great performance with stable cutting, simple installation and setup.	
	MOTOREDUCE REDUCER	More Powerful, High Efficiency, High Rigidity, Output Diversification. 100,000 hours life time cost-efficient and maintenance free.	
	INOVANCE SERVO MOTOR ON X, Y axis	Built with a compact footprint, yet provide a higher torque while maintaining an inertia rating well within the medium range.	
	INOVANCE SERVO DRIVER	Servo Signal, high Transmission through the position, torque, speed, fast response.	



GUIDE RAIL

Linear guide design, carrying capacity. Long-life high-speed, high precision and smooth linear motion.



CYPCUT FSCUT8000 CONTROL SYSTEM

Integrated file read, design, processing and output control as a whole. Software provides extensive laser cutting process parameters.



HELICAL GEAR & RACK

High precision, long life Can provide rigorous support for quenching helical gears and grinding helical gears, so that the load drive structure is compact; can effectively reduce the driving torque.



SCHNEIDER ELECTRIC COMPONENTS

Highly stable Electrical Control Components.



SMC PNEUMATIC COMPONENTS

Steples control of air pressure proportional to an electrical signal. Serial communications specifications, Compact/ Lightweight (Integrated communications parts)



MONITORED CONTROL SYTEM

Night vision system day and night surveillance
Real-time observe the machine running through the panel. Monitored at any time, the process can be controlled.





INDEPENDENT CONTROL CABINET DUST-PROOF

All electrical components and laser are built-in to the independent control cabinet with a dust-proof design to prolong the lifespan of the electrical components

G·WEIKE
LASER 金威刻
G-WEIKE



5th GENERATION AVIATION ALUMINUM GANTRY

It is manufactured with aerospace standards and formed by 4300 tons press extrusion molding

G·WEIKE
LASER 金威刻
G-WEIKE



AUTO / HIGHER

Raise system adjust the focal length automatically according to the height of the plate

G·WEIKE
LASER 金威刻
G-WEIKE



Security/Stability IPAD DESIGN SCREEN

Lenovo computer licensed software. A vertical screen display, different from the traditional horizontal one with good response speed, higher contrast, wider view, lower consumption as well as high resolution.

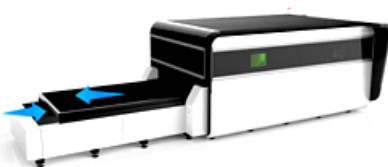
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G-WEIKE



CE STANDARD PROTECTIVE GLASS

SAFETY & NO POLLUTION
With fully enclosed design. The observation window adopts a European CE standard laser protective glass. The smoke produced by cutting can be filtrated inside, it's non-polluting and environmentally friendly;

G·WEIKE
LASER 金威刻
G-WEIKE



EXCHANGE TABLE (2 TABLES)

It adopts an up and down exchange platform; The converter is responsible for controlling the exchanging motor. The machine is able to finish the platform exchanging within 15s.

G·WEIKE
LASER 金威刻
G-WEIKE



WATER COOLING SYSTEM

Water chiller of Fiber cutting machine's water system adopts double temperature water chiller, one is cooling laser and the other is cooling cutting head



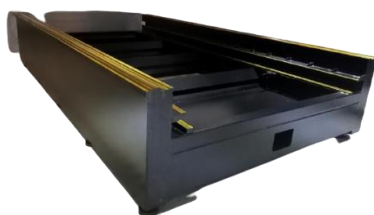
FUME EXTRACTOR

To properly exhaust fumes and smoke from the laser cutting process



VOLTAGE STABILIZER

Voltage deviation
380V +-10%



Z SHAPED PLATE WELDING BED

Z-shaped plate welding heavy work bed with High strength, stability. No deformation in 20 years, suitable for ultra-high power 10,000-watt laser.



With Pneumatic Loading

MACHINE ADVANTAGE :

SMOKE EXHAUST 4 AXIAL FAN SYSTEM:

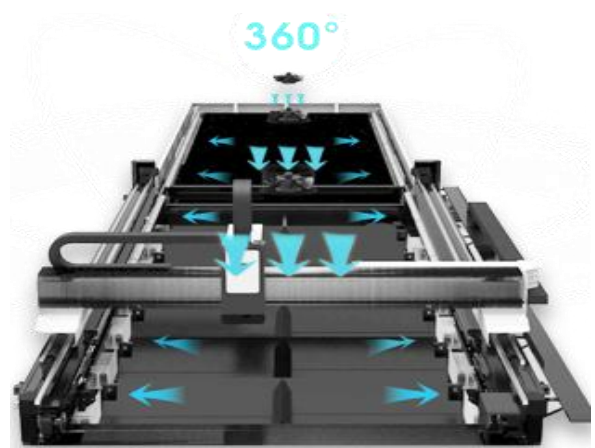
Powerful Negative Pressure 360° Adsorption. The bed adopts segmented smoke exhaust design to increase smoke local exhaust pressure, Axial Flow Fan, Negative Pressure Exhaust. Effective on clearing the smoke and the dust on the top of the enclosed cutting platform.

<https://youtu.be/cWJYNCugeBQ>

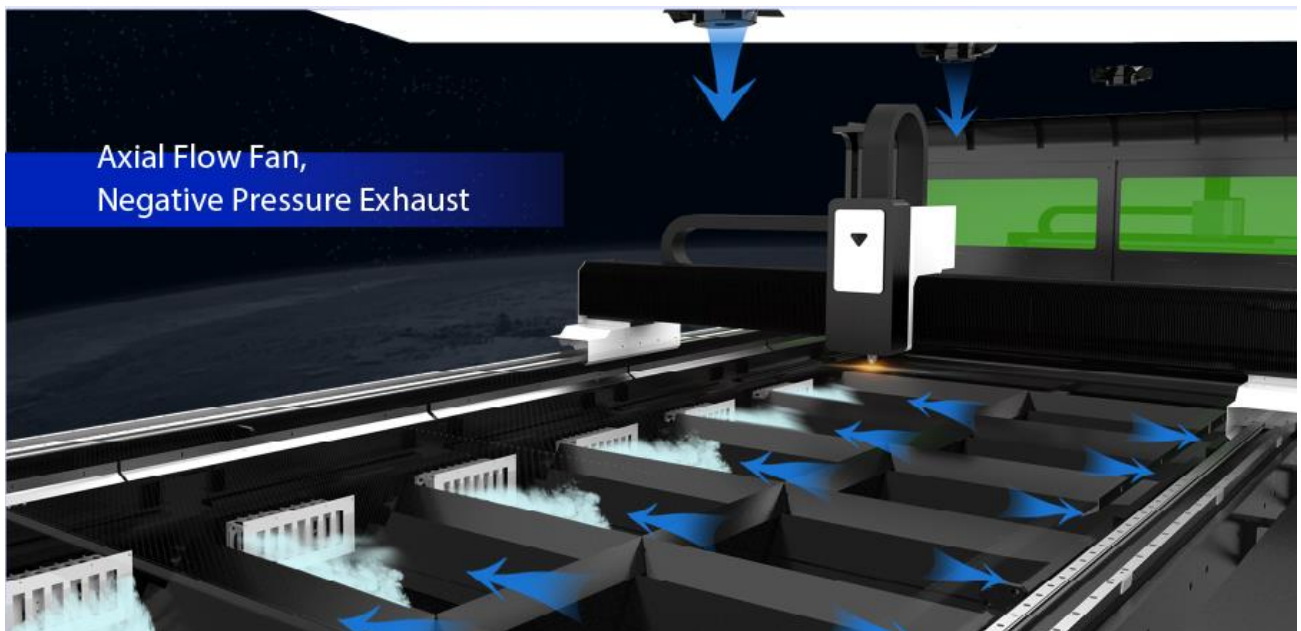


Axial Flow Fan. Negative Pressure Exhaust Mode

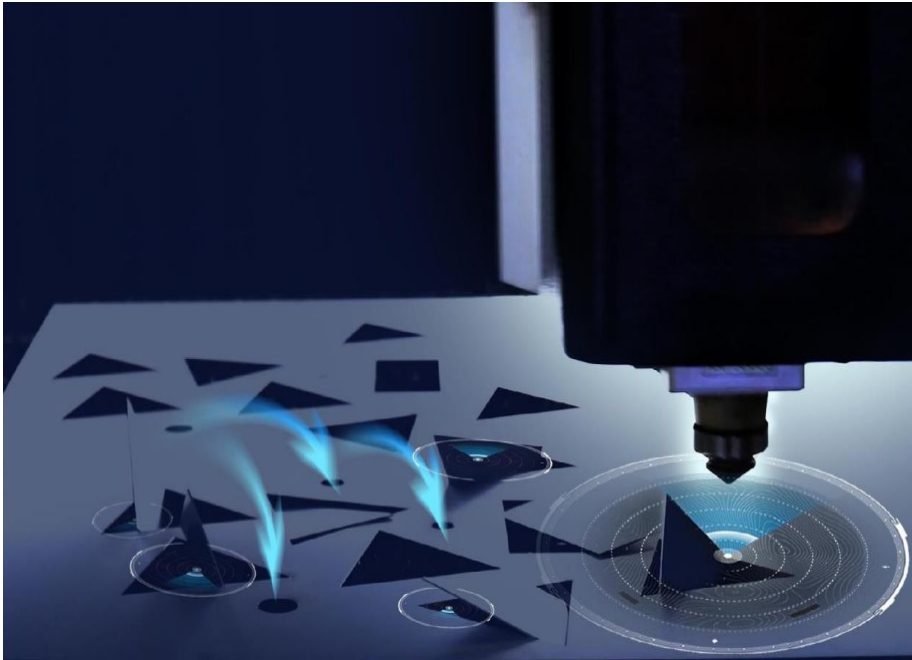
TOP COVER OF THE MACHINE IS EQUIPPED WITH 4 AXIAL FAN



SEGMENTED BED SMOKE EXTRACTION



AUTOMATIC OBSTACLE AVOIDANCE



INTELLEAGENT ANTI-COLLISION:

Through intelligent sorting, avoiding a part of raised part path and the layout and size.

IMPROVE WORK EFFICIENCY:

Minimize the chance of collision the board, reduce the failure rate of laser head, improve work efficiency.

PLATE WELDING HEAVY WORK BED



1. ANNEALED AND HEAT TREATED

Plate welding heavy work bed, no deformation in 20 years, suitable for ultra-high power 20000W Laser. The increase in weight is very beneficial to the Laser Cutting machine cutting speed

2. INNOVATIVE FOUR SLINGS WORKING BED

For reducing damage to the work bed during Laser Working, GWEIKE Innovated the new work bed by adding four slings and the life span of the Fiber Laser Cutting Machine work bed will be doubled.

20000W CUTTING THICKNESS CHART :

MATERIAL	THICKNESS
CARBON STEEL	: 60 mm
STAINLESS STEEL	: 60 mm
BRASS	: 30 mm
ALUMINUM	: 60 mm
COPPER	: 8 mm

20000W POINTS TO CONSIDER WHEN CUTTING :

MATERIAL	
CARBON STEEL	20KW Maximum thickness in mass production is 40 mm, Batch processing is 50 mm, high requirements for the plate. Limit thickness: 50 mm. 60mm, it's not easy to cut out, you can only make samples
STAINLESS STEEL	20KW Maximum thickness in mass production is 40 mm Limit thickness : 50 mm. 60mm, it's not easy to cut out, you can only make samples.
ALUMINUM	20KW Maximum thickness in mass production is 40 mm Limit thickness : 50 mm. 60mm, it's not easy to cut out, you can only make samples.

20000W CUTTING SPEED CHART

Material	Thickness	Assisted Gas	(M/MIN) Max Speed
CARBON STEEL	0.5	Nitrogen	130.-150.0
	1.0		96.0-100.0
	2.0	Oxygen	7.8-8.5
	3.0		5.8-6.3
	4.0		4.8-5.5
	5.0		4.3-4.8
	6.0		4.0-4.5
	8.0		3.0-3.6
	10.0		2.8-3.2
	12.0		2.7-3.2
	16.0		1.9-2.3
	20.0		1.5-1.7
	22.0		1.1-1.3
	25.0		1.2-1.5
	30.0		0.8-1.2
	40.0		0.7-0.9
	50.0		0.6-0.8
	60.0		0.2-0.5
STAINLESS STEEL	0.5	Nitrogen	80.0-100.0
	1.0		75.0-90.0
	2.0		46.0-50.0
	3.0		30.0-38.0
	4.0		22.0-28.0
	5.0		16.0-22.0
	6.0		12.0-15.0
	8.0		7.5-8.5

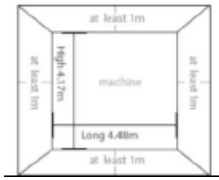
ALUMINUM	10.0		5.5-6.5
	12.0		3.3-4.0
	14.0		2.5-3.0
	16.0		2.3-2.8
	20.0		1.5-1.9
	25.0		0.9-1.2
	30.0		0.6-0.8
	35.0		0.5
	40.0		0.3
	50.0		0.3
	60.0		0.2
	1.0	Nitrogen	65.0-85.0
	2.0		38.0-50.0
	3.0		25.0-38.0
	4.0		20.0-26.0
	5.0		17.0-22.0
	6.0		14.0-18.0
	8.0		11.0-15.0
	10.0		4.0-5.0
	12.0		2.3-3.2
	14.0		1.7-2.1
	16.0		1.3-1.6
	20.0		1.1-1.4
	25.0		1.0-1.2
	30.0		0.6-0.8
	35.0		0.5-0.6
	40.0		0.4-0.5
	50.0		0.3
	55.0		0.3

	60.0		0.2
BRASS	1.0	Nitrogen	60.0-75.0
	2.0		35.0-45.0
	3.0		18.0-25.0
	4.0		14.0-18.0
	5.0		12.0-16.0
	6.0		10.0-13.0
	8.0		7.0-8.5
	10.0		5.0-6.5
	12.0		2.0-3.5
	15.0		1.5-2.2
	18.0		0.8-1.2
	20.0		0.5-0.8
	25.0		0.4-0.7
	30.0		0.3-0.6
COPPER	1.0	Oxygen	30.0-40.0
	2.0		9.0-11.0
	3.0		3.0-4.0
	4.0		1.2-2.0
	6.0		0.8-1.3
	8.0		0.6-1.0

RELATED PARAMETERS:

Maximum Processing Range	: 6000 x 2500 mm
X axis travel	: 2500 mm
Y axis travel	: 6000 mm
Z axis travel	: 290mm
W axis rotation angle	: n*360
W axis maximum speed	: 80RPM
X / Y axis Repeatable positioning accuracy	: ±0.02mm
X / Y axis Positioning accuracy	: ±0.03mm
X / Y axis Max Acceleration	: 1.5G
X / Y Max Moving Speed	: 200 m/ min
X / Y Max Cutting Speed	: 30 m/min
Transmission Type	: Dual Driverack
X axis Motor Power	: 1300w
Y axis Motor Power	: 2900w
Z axis Motor Power	: 850w
W1, W2, U axis Motor power	: 1800w
Working platform exchange time	: 15 s
Diameter of pipe	: 20-240mm
Guide Rail Width	: 35 mm
Maximum Loading of Chunk	: 550kg
Working Platform Load	: 3500 kg.
Enclosed Laser Protection	: Yes
Lubrication Type	: Automatic Oiling
Machine size (mm)	: 14750 x 4580 x 2310 mm
Specified voltage and frequency	: 380V /50Hz/60Hz/60A
Continuous working time	: 24h
Weight	: 22,000 kg.
Laser Power	: 12000W
Brand New	: China

PREPARATION BEFORE ORDER:

Power Supply	 Industrial Electricity 380V 50HZ	(1) Rated output voltage : 380V (2) Voltage Frequency : 50Hz (3) Three-phase voltage stability: +5% (4) Output voltage regulation
Position to Show Machine		Put machine evenly on ground. Position follows 6 "No rules-no inflammable, no explosive, no volatile solvent, no dust, no corrosion, no fumes.
Cutting Assisted Gas	 Oxygen	When using oxygen as assisted gas, the pressure is to be up to 1MPa and purity of 99.9%; when cutting iron, an additional small carburetor has to be added with vaporization capacity 30NM3/H or vaporization flow amount 50NM3/H.
	 Nitrogen	N2 cut for stainless steel, its pressure reaches 2MPa, in other name 20KG, purity of 99.999%; A capacity for Carburetor is 50N3/H with design pressure 2.5MPa. When using with small cylinder of N2 for cutting, a high pressure nitrogen meter is a must with range from 0 to 6MPa.
		Air cut mainly used in cutting for thin sheet steel: It is better to use the screw type air compressor (stable pressure of 1.2MPa, the displacement of 100 L /min). Prepare with you a 3- grade filtration device (Q.P.S) and that equipped with air dryer (treatment capacity 2.5Nm2/min), an air storage tank (0.6 cubic meters). Recommend to select the quality filter, the higher the configuration, the least possibility of being contaminated the protective lens by oil and water. Thus, the cutting effect is better.)

EXCLUSIVE OFFER IN COLLABORATION WITH BROTHER GAS

- ❖ Initial 2 racks will be provided FOC to customer upon purchase of Laser Cutting Machine for its commissioning upon dealing with Brother Gas.
- ❖ Brother Gas will support installation and commissioning of total bulk gas solution along with pipeline, FOC upon minimum volume commitment with Brother Gas.
- ❖ Special liquid price will be provided to customer with an additional 15% discount compare to market price along with tank and pipeline investment.
***tank investment and bulk installation is completely subject to minimum volume commitment from customers.*
- ❖ Complete AMC of gas supply system will be taken care by Brothers Gas to customers, FOC.



Nitrogen Rack - 1x16 Cylinder (160Nm3) - 99.999%



Oxygen Rack - 1x16 Cylinder (160Nm3) - 99.5%



Gas Dura Cylinder

CRITERIA FOR GAS SUPPLY SELECTION:

Supply Solutions	Purity (min.)	Pressure (Bar)	Civil Work	Min. Gas Consumption (m3/month)	Capital Investment
Loose Cylinders	4.6	200	No	<500	Low
Cylinder Rack	4.6	200	No	> 500 – 1500	Low
Bulk – Dura/Mini Bulk	5	17 - 32	No	> 500 – 1500	Low

NOTE: NAREX PROVIDES A UNIQUE DEAL TO ITS CUSTOMERS IN CORPORATION WITH BROTHER GAS. THE PRICE COMMITMENT WILL SOLELY BE BETWEEN BROTHER GAS AND CUSTOMER.

OPTIONAL CONFIGURATION:



Save your Gas Cost, Below is an Estimate of Cutting Capability by Compressor to Save Gas Cost. Contact our experts to know more about our Compressor.

OPTIONS :	DESCRIPTION	BRAND
	Air Compressor Up to 10 Bar Pressure can be used so save cost up to 35% of your thickness capacity. (Save Nitrogen/Oxygen Cost)	ATLAS COPCO
	16-Bar Screw Compressor 60-70% of the thickness capacity can be easily cut by the 16 Bar Pressure Compressor, providing you a great saving on Cost per cut. (Save Nitrogen/Oxygen Cost)	PIONEERAIR
	18-Bar Screw Compressor 75- 85% of the thickness capacity can be easily cut by the 18 Bar Pressure Compressor, providing you a great saving on Cost per cut.	PIONEERAIR
	COMPRESSED AIR SYSTEM FOR LASER 30-Bar Booster Compressor Cut 95% of the thickness capacity by the 30 Bar Pressure Booster 0.3Mpa reciprocation air compressors, directly get 30 bar compressed air Ø 300 liters vertical air storage tank integrated. No dust, No oil, No water for pure air source. Centralized automatic water drainage system, easy, convenient. (Save Nitrogen/Oxygen Cost)	PIONEERAIR



NAREX INDUSTRIAL MACHINERY L.L.C.

DELIVERY & INSTALLATION:

1. Delivery at your site within UAE.
2. Training & Installation by our skilled Engineers at your site.

AFTER SALES SERVICE:

1. Two years warranty (One year spare parts & 2nd year free Service).
Except for consumable items e.g Nozzle, Lens etc.
2. Complaint will be solved within 12 working hours, by our in-house skilled Engineers.

MACHINE TESTING & EVALUATION:

From the mechanical debugging aspects, our machine precision is better than other suppliers for:

- Using the following instruments to test the mechanical precisions, including:
- Collimation degree test
- Straightness accuracy test
- Parallelism test
- Mable measuring scale and dial indicator
- Laser interferometer instrument
- Gantry Milling Machine to guarantee machine cutting accuracy

Cutting Sample :

Used for cutting a variety of metal plates, mainly used in cutting stainless steel, carbon steel, galvanized sheet, electrolytic plate, brass, aluminum, various alloy plate, rare metal and other metal materials.



Machine Video:

<https://www.youtube.com/watch?v=REbjQF4Z2b4>

<https://www.youtube.com/watch?v=DWQr4mHxT2A>

<https://www.youtube.com/watch?v=AklaspRIHbc>



CHOOSE WISELY

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