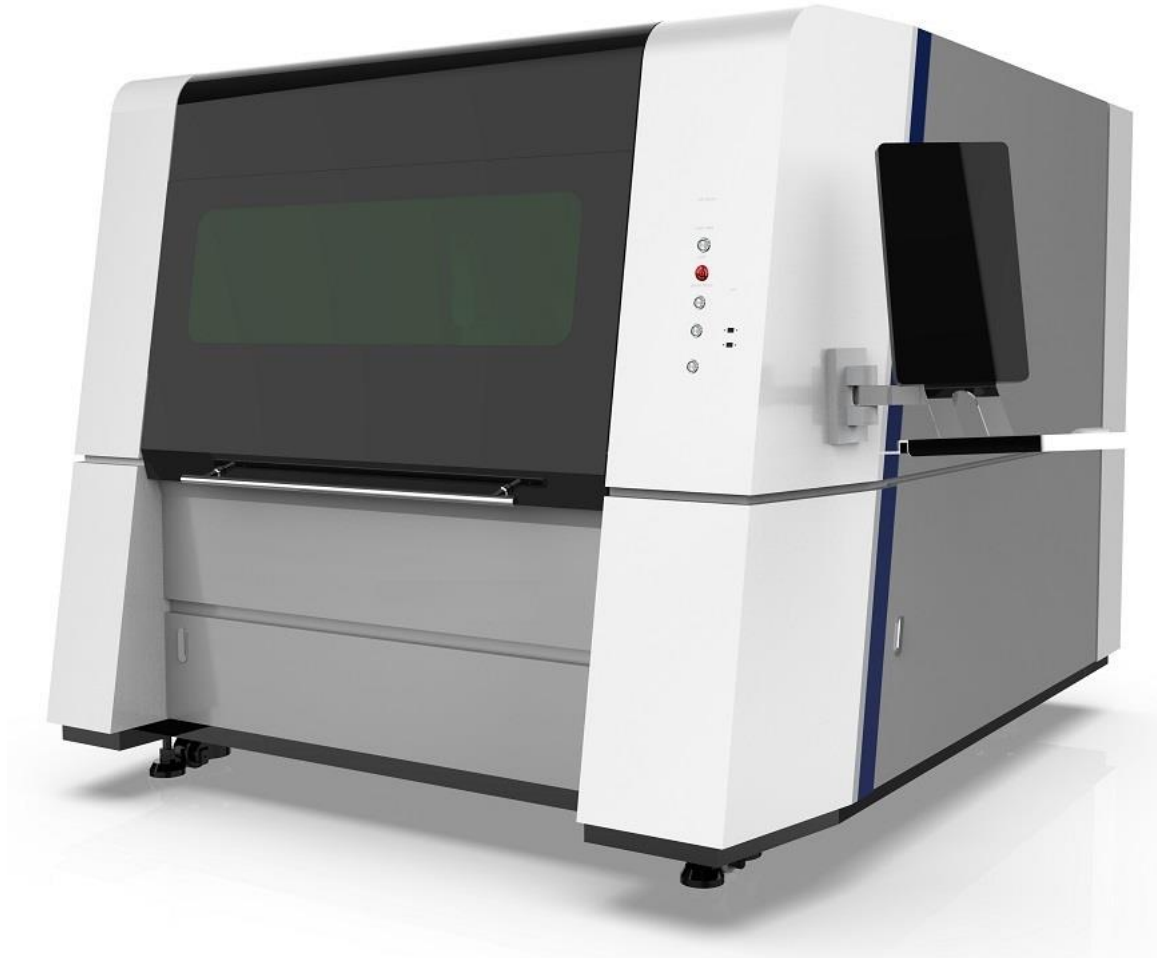
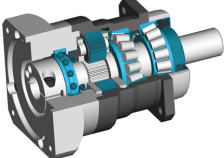


**FIBER LASER CUTTING MACHINE
MODEL : LF1390-1000W – RAYCUS**

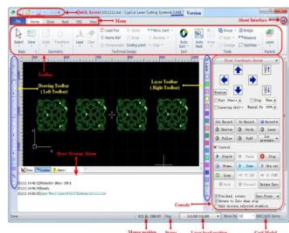


TECHNICAL CONFIGURATIONS:

	COMPONENT	DESCRIPTION	BRAND/ORIGIN
	1000W RAYCUS LASER SOURCE	100,000 hours life time more stable and cost-efficient maintenance free	 Raycus
	RAYTOOLS AUTOFOCUS LASER HEAD	World Leader in Laser Tools. Auto-Focus Laser Cutting Technology. High Speed, High Thickness, Lower Cost of Consumables. Anti-collision design, height adjustment high sensitivity.	 SWITZERLAND
	MOTOREDUCE REDUCER	More Powerful, High Efficiency, High Rigidity, Output Diversification. 100,000 hours life time cost-efficient and maintenance free.	 GERMANY
	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 GERMANY
	INOVANCE SERVO DRIVER	Servo Signal, high Transmission through the position, torque, speed, fast response.	INOVANCE GERMANY
	SQUARE RAIL LAPPING	Linear guide design, carrying capacity. Long-life high-speed, high precision and smooth linear motion.	 G-WEIKE
	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.	 G-WEIKE



NAREX INDUSTRIAL MACHINERY L.L.C.



CYPCUT LASER CUTTING CONTROL SYSTEM

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

CypCut



APEX HELICAL GEAR & RACK

High precision, long life can provide rigorous support for quenching helical gears and grinding helical gears.

**APEX DYNAMICS
TAIWAN**



SCHNEIDER ELECTRIC COMPONENTS

Highly stable Electrical Control Components.

**Schneider
Electric
FRANCE**



SMC PNEUMATIC COMPONENTS

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

**SVC
JAPAN**



3rd 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

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.

**G·WEIKE[®]
LASER 金威刻
G-WEIKE**



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.: +971 6-5439350, |E-mail: narex@emirates.net.ae; narexind@eim.ae; www.narexuae.com

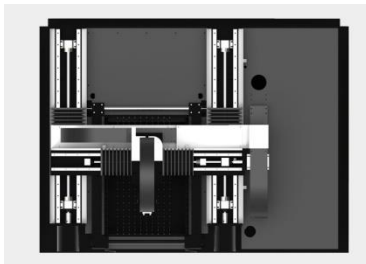


CE STANDARD PROTECTIVE GLASS

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;

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G-WEIKE



DUAL RAIL & DUAL DRIVER DESIGN

To prevent the cutting line deformation caused by the Y-axis on both sides have been equipped two rails guide and double ball drive screw design to ensure the straightness and arc degree when with high speed cutting is in operation.

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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

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FUME EXTRACTOR

To properly exhaust fumes and smoke from the laser cutting process

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VOLTAGE STABILIZER

Voltage deviation
380V +-10%

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G-WEIKE



SEGMENTED RECTANGULAR TUBE WELDED BED

High strength, stability, tensile strength, ensuring 20 years of use without distortion. Thickness of rectangular pipe wall is 10mm and weights 4500 kg.

G·WEIKE
LASER 金威刻
G-WEIKE

1000W CUTTING THICKNESS CHART :

MATERIAL	THICKNESS
CARBON STEEL	: 12 mm
STAINLESS STEEL	: 6 mm
ALUMINUM	: 3 mm
BRASS	: 2 mm
COPPER	: 2 mm

1000W CUTTING SPEED CHART :

MATERIAL	THICKNESS	ASSISTED GAS	(M/MIN) MAX SPEED
CARBON STEEL	0.8	NITROGEN	18.0-24.0
	1.2		12.0-15.0
	0.5	OXYGEN	9.0-10.5
	1.2		7.0-8.0
	2.0		5.0-6.0
	3.0		2.5-3.5
	4.0		2.0-3.0
	5.0		1.4-1.8
	6.0		1.2-1.5
	8.0		0.9-1.2
	10.0		0.6-0.8
	12.0		0.4-0.6
STAINLESS STEEL	0.5	NITROGEN	30.0-40.0
	0.8		20.0-30.0
	1.2		12.0-15.0
	2.0		4.5-6.0
	3.0		2.0-3.0
	4.0		1.0-1.5
	5.0		0.4-0.6
	6.0		0.2-0.4
BRASS	1.0		12.0-14.0
	1.5		5.0-7.0
	2.0		2.5-4.0
	3.0		1.0-1.5
COPPER	1.0	OXYGEN	7.0-8.0
	2.0		1.2-1.5
ALUMI NUM	1.0	NITROGEN	12.0-14.0
	2.0		3.0-4.0
	3.0		1.0-2.0

MODEL		SINGLE – LAYER NOZZLE									
POWER	CUTTING THICKNESS	1.0	1.2	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
500W	3mm	0.5-2mm	0.5-2mm	0.5-2mm	0.5-3mm						
700W	4mm	0.5-2mm	0.5-2mm	0.5-2mm	0.5-4mm	3-4mm					
1000W	6mm	0.5-2mm	0.5-2mm	0.5-2mm	0.5-4mm	4-5mm	4-5mm				
1500W	8mm	0.5-2mm	0.5-2mm	0.5-2mm	0.5-4mm	4-5mm	4-8mm	6-8mm	6-8mm	8mm	
2000W	8mm	0.5-2mm	0.5-2mm	0.5-2mm	0.5-4mm	4-5mm	4-8mm	6-8mm	6-8mm	8mm	
3000W	10mm	0.5-2mm	0.5-2mm	0.5-2mm	0.5-4mm	4-5mm	4-8mm	6-8mm	6-10mm	8-10mm	8-10mm
4000W	12mm	0.5-2mm	0.5-2mm	0.5-2mm	0.5-4mm	4-5mm	4-8mm	6-8mm	6-10mm	8-10mm	8-12mm

MODEL		DOUBLE – LAYER NOZZLE									
POWER	CUTTING THICKNESS	1.0	1.2	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
500W	6mm	1-4mm	1-4mm	1-6mm	5-6mm						
700W	8mm	1-4mm	1-4mm	3-6mm	5-6mm	6-8mm					
1000W	12mm	1-6mm	1-6mm	3-6mm	5-8mm	8-10mm	10-12mm				
1500W	14mm	1-6mm	1-6mm	6-8mm	8-10mm	8-10mm	8-12mm	10-14mm	14-16mm		
2000W	16mm	1-6mm	1-6mm	6-8mm	8-10mm	8-10mm	8-12mm	10-14mm	14-16mm		
3000W	20mm	1-8mm	1-8mm	8-10mm	8-10mm	8-12mm	8-14mm	10-16mm	14-20mm	16-20mm	18-20mm
4000W	22mm	1-10mm	1-10mm	8-100mm	8-10mm	8-12mm	8-14mm	10-16mm	14-20mm	16-20mm	18-20mm

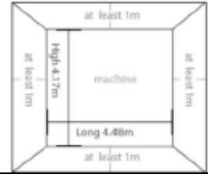
COMSUMABLE PARTS FOR ONE YEAR (1000W)

NAME	SUGGESTED BUY QTY	LIFE TIME	FUNCTION
Focus lens	2 Piece	One year	Focus the beam
Collimating lens	1 Piece	One year	Collimating the beam
Protective lens	5 Piece	600 hours	Protect focus lens and collimating lens
Nozzles	10 Piece	600 hours	Control gas shape and flow rate
Ceramic ring	1 Piece	One year	As the transmission medium

RELATED PARAMETERS :

Maximum processing range	: 900 x 1300
X axis travel	: 920 mm
Y axis travel	: 1320 mm
Z axis travel	: 80 mm
X/Y axis Positioning accuracy	: ±0.03mm
X/Y axis Repeatable positioning accuracy	: ±0.02mm
X/Y axis Max moving speed	: 40m/min
X/Y axis Max Acceleration	: 0.5 G
Working exchange platform	: No
Working platform load	: 250 kg.
Enclosed Laser Protection	: Yes
Lubrication Type	: Automatic Oiling
Machine size (mm)	: 2100 x 2700 x 1650 mm
Specified voltage and frequency	: 220V/380V 50Hz/60Hz
Weight	: 1500kg
Laser Power	: 1000W
Brand New	: China

PREPARATION BEFORE ORDER:

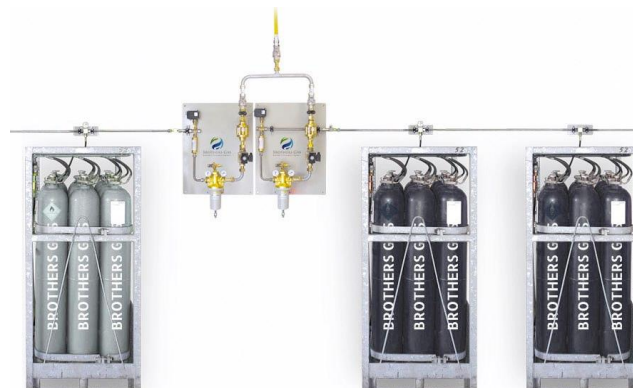
Power Supply	 Industrial Electricity 380V 50HZ	(1) Rated output voltage : 380V (2) Voltage Frequency : 50Hz (3) Three-phase voltage stability: +5% (4) Output voltage regulation
Position to Show Machine		Put machine evenly on ground. Position follows 6 "No rules-no inflammable, no explosive, no volatile 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



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

Machine Video:

<https://www.gweikecnc.com/template/pc/skin/1f1390/video1.mp4>

<https://www.youtube.com/watch?v=ntiHtnKjRQ4>

