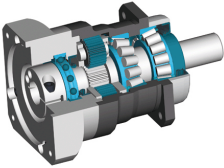


**FIBER LASER CUTTING MACHINE  
MODEL : LF6025LNR-6000W RAYCUS/ MAX**

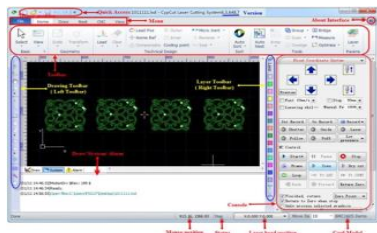


## TECHNICAL CONFIGURATIONS:

|                                                                                     | COMPONENT                                        | DESCRIPTION                                                                                                                                                                                                                                                 | BRAND/ORIGIN                                                                                                                                                                   |
|-------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>6000W RAYCUS/<br/>MAX LASER<br/>SOURCE</b>    | <b>High-Power Multimode Continuous Fiber Laser Series</b> 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. | <br><br> |
|   | <b>BLT421 BOCI<br/>AUTOFOCUS<br/>LASER HEAD</b>  | Cost-effective smart cutter that focuses on 2D, 3D and bevel cutting machine, delivers a great performance with stable cutting, simple installation and setup.                                                                                              |                                                                                             |
|  | <b>MOTOREDUCE<br/>REDUCER</b>                    | More Powerful, High Efficiency, High Rigidity, Output Diversification. 100,000 hours life time cost-efficient and maintenance free.                                                                                                                         |                                                                                           |
|  | <b>INOVANCE<br/>SERVO MOTOR<br/>ON X, Y axis</b> | Built with a compact footprint, yet provide a higher torque while maintaining an inertia rating well within the medium range.                                                                                                                               |                                                                                           |
|  | <b>INOVANCE<br/>SERVO DRIVER</b>                 | Servo Signal, high Transmission through the position, torque, speed, fast response.                                                                                                                                                                         |                                                                                           |
|  | <b>GUIDE RAIL</b>                                | Linear guide design, carrying capacity. Long-life high-speed, high precision and smooth linear motion.                                                                                                                                                      |                                                                                           |



# NAREX INDUSTRIAL MACHINERY L.L.C.



## CYPCUT 4000E BUS 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.



TAIWAN



## SCHNEIDER ELECTRIC COMPONENTS

Highly stable Electrical Control Components.



FRANCE



## SMC PNEUMATIC COMPONENTS

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



JAPAN



## 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



## 5TH GENERATION AVIATION ALUMINUM GANTRY

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

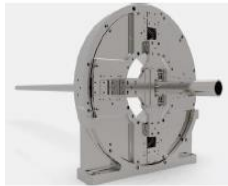


G-WEIKE



CHOOSE WISELY

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Branch Tel No.: +971 6-5439350, | E-mail: [narex@emirates.net.ae](mailto:narex@emirates.net.ae); [narexind@eim.ae](mailto:narexind@eim.ae); [www.narexuae.com](http://www.narexuae.com)



## ROTARY PART

Dual Use and Cost-saving  
Fiber laser cutting machine can not only cut metal plates, but also metal pipes. It has many uses and can save the space of more than 50%, which effectively improve productivity.



## AUTO / HIGHER

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



## 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.



## WORKING TABLE

The Table is made by hard steel. Highly precise CNC milled to best cutting accuracy.



## 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%

**G·WEIKE®**  
LASER 金威刻  
**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**

### 6000W CUTTING THICKNESS CHART :

| MATERIAL        | THICKNESS |
|-----------------|-----------|
| CARBON STEEL    | : 25 mm   |
| STAINLESS STEEL | : 16 mm   |
| ALUMINUM        | : 16 mm   |
| BRASS           | : 10 mm   |
| COPPER          | : 6 mm    |

### 6000W CUTTING SPEED CHART

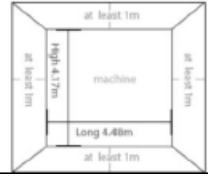
| Material           | Thickness | Assisted Gas    | (M/MIN) Max Speed |
|--------------------|-----------|-----------------|-------------------|
| <b>CARBON STEE</b> | 0.5       | <b>Nitrogen</b> | 80.0-100.0        |
|                    | 1.0       |                 | 35.0-48.0         |
|                    | 2.0       | <b>Oxygen</b>   | 6.0-7.5           |
|                    | 3.0       |                 | 4.0-5.0           |
|                    | 4.0       |                 | 3.5-4.5           |
|                    | 5.0       |                 | 3.0-3.8           |
|                    | 6.0       |                 | 2.6-3.2           |
|                    | 8.0       |                 | 2.0-2.5           |
|                    | 10.0      |                 | 1.8-2.1           |
|                    | 12.0      |                 | 1.6-1.9           |
|                    | 14.0      |                 | 0.8-1.1           |
|                    | 16.0      |                 | 0.7-0.9           |

|                 |      |          |            |
|-----------------|------|----------|------------|
| STAINLESS STEEL | 20.0 |          | 0.65-0.85  |
|                 | 25.0 |          | 0.4-0.6    |
|                 | 0.5  | Nitrogen | 80.0-100.0 |
|                 | 1.0  |          | 50.0-65.0  |
|                 | 2.0  |          | 30.0-40.0  |
|                 | 3.0  |          | 18.0-22.0  |
|                 | 4.0  |          | 10.0-14.0  |
|                 | 5.0  |          | 8.0-12.0   |
|                 | 6.0  |          | 6.0-8.0    |
|                 | 8.0  |          | 4.0-5.0    |
|                 | 10.0 |          | 1.8-2.5    |
|                 | 12.0 |          | 1.2-1.5    |
|                 | 16.0 |          | 0.6-0.8    |
| BRASS           | 1.0  | Nitrogen | 45.0-55.0  |
|                 | 2.0  |          | 25.0-30.0  |
|                 | 3.0  |          | 12.0-18.0  |
|                 | 4.0  |          | 8.0-10.0   |
|                 | 5.0  |          | 6.0-7.0    |
|                 | 6.0  |          | 3.5-4.5    |
|                 | 8.0  |          | 1.6-2.2    |
|                 | 10.0 |          | 0.8-1.2    |
| 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    |
| ALUMINIUM       | 1.0  | Nitrogen | 55.0-60.0  |
|                 | 2.0  |          | 25.0-35.0  |
|                 | 3.0  |          | 13.0-18.0  |
|                 | 4.0  |          | 10.2-12.0  |
|                 | 5.0  |          | 5.0-8.0    |
|                 | 6.0  |          | 4.0-6.0    |
|                 | 8.0  |          | 2.0-3.0    |
|                 | 10.0 |          | 1.0-2.1    |
|                 | 12.0 |          | 0.8-1.4    |
|                 | 16.0 |          | 0.6-0.9    |

## RELATED PARAMETERS :

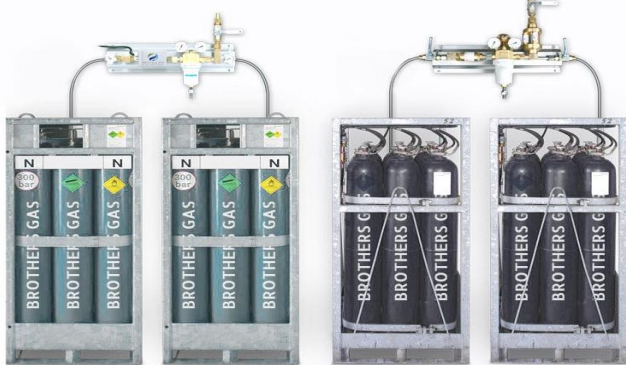
|                                            |                        |
|--------------------------------------------|------------------------|
| X axis travel                              | : <b>2500mm</b>        |
| Y axis travel                              | : <b>6000mm</b>        |
| Z axis travel                              | : 290mm                |
| <b>Pipe Cutting Length</b>                 | : <b>6000mm</b>        |
| W axis rotation angle                      | : N*360                |
| W axis maximum speed                       | : 80rpm                |
| X, Y, U axis positioning accuracy          | : ±0.03mm              |
| X, Y, U axis repeat positioning accuracy   | : ±0.02mm              |
| <b>X, Y axis max moving speed</b>          | : <b>160 m/min</b>     |
| U- axis max. speed                         | : 30m/min              |
| X, Y, U axis max acceleration              | : 1.5G                 |
| X axis Motor Power                         | : 850w                 |
| <b>Y axis Motor Power</b>                  | : <b>1800w</b>         |
| Z axis Motor Power                         | : 400w                 |
| <b>Diameter of Pipe</b>                    | : <b>20-240 mm</b>     |
| <b>Max. Loading of Chuck</b>               | : <b>300kg</b>         |
| <b>Max working capacity of sheet table</b> | : <b>3,900 kg.</b>     |
| Lubrication                                | : Automatic Oiling     |
| Machine size (mm)                          | : 7800 x 3512 x 2250mm |
| <b>Laser Power</b>                         | : <b>6000W</b>         |
| Specified voltage and frequency            | : 380V/50Hz/60Hz/60A   |
| Weight                                     | : 7,100 kg.            |
| <b>Brand New</b>                           | : <b>China</b>         |

## PREPARATION BEFORE ORDER:

|                                 |                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Power Supply</b>             | <br><b>Industrial Electricity</b><br><b>380V 50HZ</b> | <p>(1 ) Rated output voltage : 380V<br/>         (2) Voltage Frequency : 50Hz<br/>         (3) Three-phase voltage stability: +5% (4)<br/>         Output voltage regulation</p>                                                                                                                                                                                                                                                                                                                                                         |
| <b>Position to Show Machine</b> |                                                       | <p>Put machine evenly on ground. Position follows 6 "No rules-no inflammable, no explosive, no volatile solvent, no dust, no corrosion, no fumes.</p>                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Cutting Assisted Gas</b>     | <br><b>Oxygen</b>                                    | <p>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.</p>                                                                                                                                                                                                                                                                                                |
|                                 | <br><b>Nitrogen</b>                                 | <p>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.<br/>         When using with small cylinder of N2 for cutting, a high pressure nitrogen meter is a must with range from 0 to 6MPa.</p>                                                                                                                                                                                                                                 |
|                                 |                                                     | <p>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. )</p> |

## 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              |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|    | <b>Air Compressor</b><br>Up to <b>10 Bar Pressure</b> can be used so save cost up to 35% of your thickness capacity.<br><br><b>(Save Nitrogen/Oxygen Cost)</b>                                                                                                                                                                                                                                                                            | <b>ATLAS COPCO</b> |
|   | <b>16-Bar Screw Compressor</b><br>60-70% of the thickness capacity can be easily cut by the <b>16 Bar Pressure</b> Compressor, providing you a great saving on Cost per cut.<br><br><b>(Save Nitrogen/Oxygen Cost)</b>                                                                                                                                                                                                                    | <b>PIONEERAIR</b>  |
|  | <b>18-Bar Screw Compressor</b><br>75- 85% of the thickness capacity can be easily cut by the <b>18 Bar Pressure</b> Compressor, providing you a great saving on Cost per cut.                                                                                                                                                                                                                                                             | <b>PIONEERAIR</b>  |
|  | <b>COMPRESSED AIR SYSTEM FOR LASER</b><br><b>30-Bar Booster Compressor</b><br>Cut 95% of the thickness capacity by the <b>30 Bar Pressure</b> 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.<br><br><b>(Save Nitrogen/Oxygen Cost)</b> | <b>PIONEERAIR</b>  |

## 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 & 2<sup>nd</sup> 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.

## Industry Applications

Since sheet and pipe integrated design, Industry adaptability of LF6020LNR has been greatly enhanced, including petroleum and pipe material, fitness equipment and other pipe material mainly mechanical processing, automotive manufacturing, machine cabinet and other board materials mainly mechanical processing, etc.

## CUTTING SAMPLES

