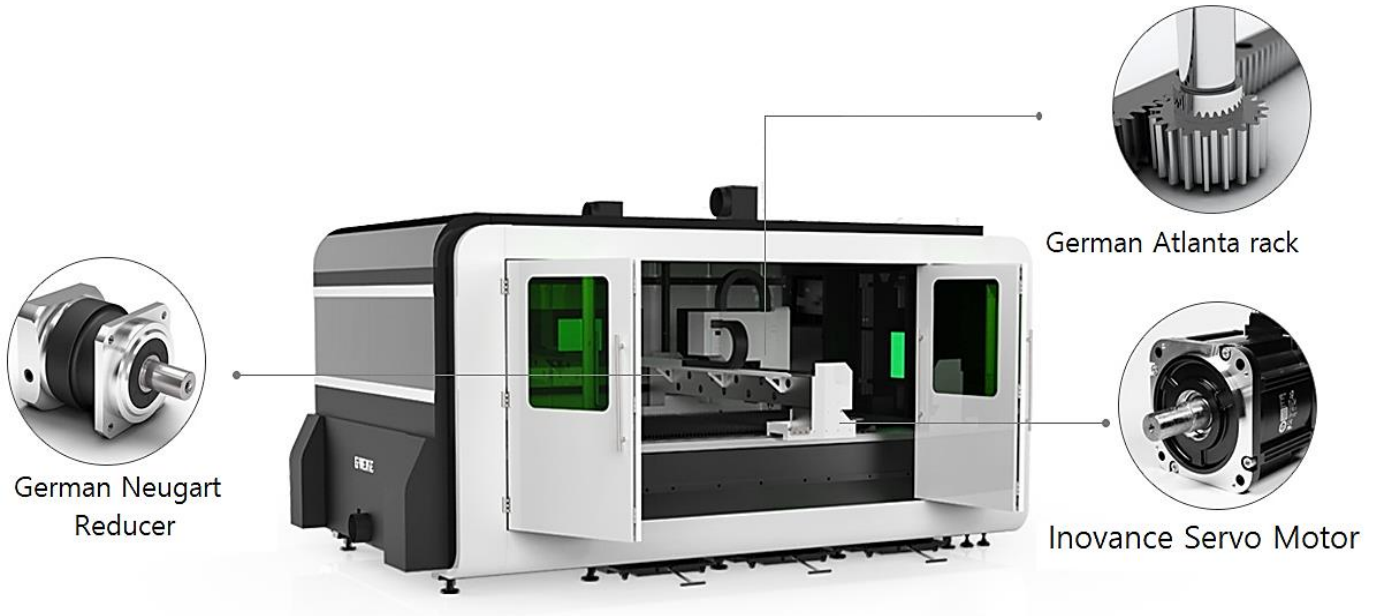
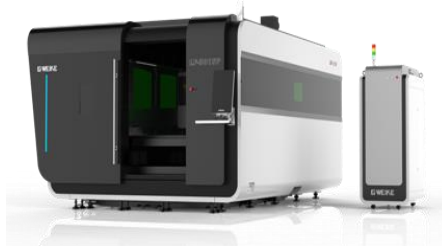
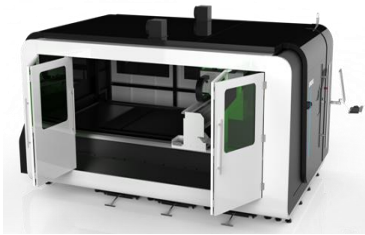
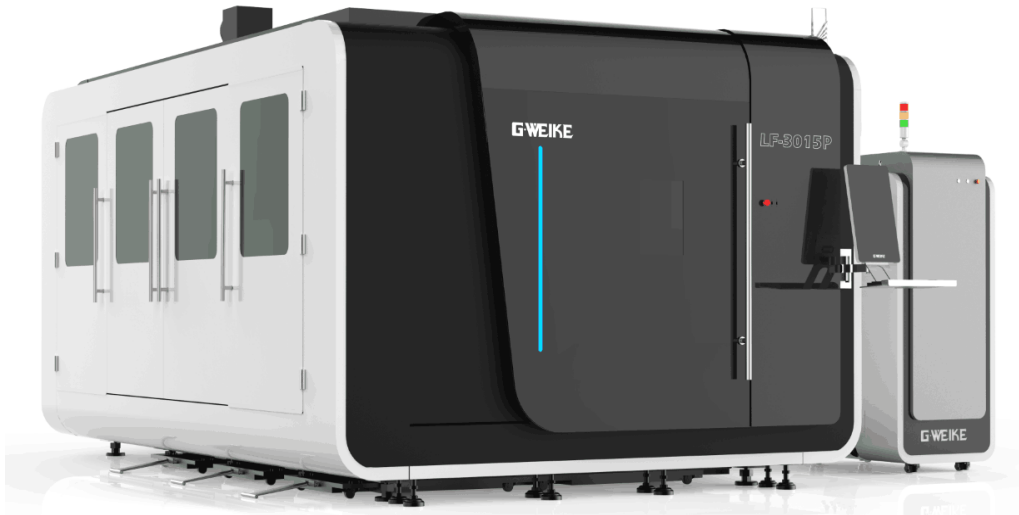
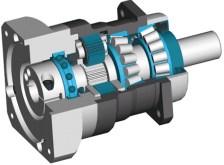


## FIBER LASER CUTTING MACHINE MODEL : LF3015P-3000W RAYCUS

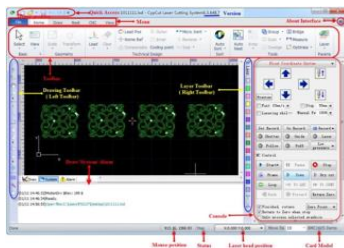


## TECHNICAL CONFIGURATIONS:

|                                                                                     | COMPONENT                                | DESCRIPTION                                                                                                                                                                         | BRAND / ORIGIN                                                                                                   |
|-------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
|     | <b>3000W RAYCUS LASER SOURCE</b>         | 100,000 hours life time more stable and cost-efficient maintenance free                                                                                                             | <br><b>Raycus</b>             |
|    | <b>RAYTOOLS AUTOFOCUS LASER HEAD</b>     | 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. | <br><b>SWITZERLAND</b>        |
|   | <b>MOTOREDUCE REDUCER</b>                | More Powerful, High Efficiency, High Rigidity, Output Diversification. 100,000 hours life time cost-efficient and maintenance free.                                                 | <br><b>GERMANY</b>           |
|  | <b>INOVANCE SERVO MOTOR 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.                                                       | <br><b>INOVANCE GERMANY</b> |
|  | <b>INOVANCE SERVO DRIVER</b>             | Servo Signal, high Transmission through the position, torque, speed, fast response.                                                                                                 | <br><b>INOVANCE GERMANY</b> |
|  | <b>GUIDE RAIL</b>                        | Linear guide design, carrying capacity. Long-life high-speed, high precision and smooth linear motion.                                                                              | <br><b>TAIWAN</b>           |



# 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.



## HELICAL GEAR & RACK

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



## 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





## 3<sup>rd</sup> 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

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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.

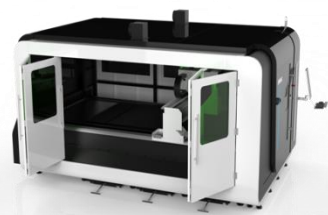
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LASER 金威刻  
**G-WEIKE**



## 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;

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**G-WEIKE**



## SINGLE TABLE

Easy to access Work Table.

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## WORKING TABLE

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

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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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**G-WEIKE**



## VOLTAGE STABILIZER

**Voltage deviation**  
380V +-10%

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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.

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LASER 金威刻  
**G-WEIKE**

## 3000W CUTTING THICKNESS CHART :

| MATERIAL        | THICKNESS |
|-----------------|-----------|
| CARBON STEEL    | : 20 mm   |
| STAINLESS STEEL | : 10 mm   |
| ALUMINUM        | : 8 mm    |
| BRASS           | : 8 mm    |
| COPPER          | : 5 mm    |

## 3000W CUTTING SPEED CHART:

| Material        | Thickness | Assisted Gas | (M/MIN) Max Speed |
|-----------------|-----------|--------------|-------------------|
| CARBON STEEL    | 1.0       | Nitrogen     | 40                |
|                 |           |              |                   |
|                 | 2.0       | Oxygen       | 5.0-6.2           |
|                 | 3.0       |              | 3.6-4.5           |
|                 | 4.0       |              | 3.0-4.0           |
|                 | 5.0       |              | 2.5-3.0           |
|                 | 6.0       |              | 2.3-2.6           |
|                 | 8.0       |              | 1.5-2.0           |
|                 | 10.0      |              | 1.2-1.5           |
|                 | 12.0      |              | 1.0-1.2           |
|                 | 14.0      |              | 0.7-1.1           |
|                 | 16.0      |              | 0.6-0.8           |
|                 | 20.0      |              | 0.5-0.7           |
| STAINLESS STEEL | 1.0       | Nitrogen     | 40                |
|                 | 2.0       |              | 10.0-15.0         |
|                 | 3.0       |              | 7.0-9.0           |
|                 | 4.0       |              | 5.0-6.5           |
|                 | 5.0       |              | 1.8-2.2           |
|                 | 6.0       |              | 1.0-1.5           |
|                 | 8.0       |              | 1.0-1.2           |
|                 | 10.0      |              | 0.7-0.9           |
| BRASS           | 1.0       |              | 20.0-28.0         |
|                 | 2.0       |              | 7.0-12.0          |
|                 | 3.0       |              | 5.0-6.5           |
|                 | 4.0       |              | 1.8-2.2           |
|                 | 5.0       |              | 1.0-1.5           |
|                 | 6.0       |              | 0.8-1.2           |
|                 | 8.0       |              | 0.3-0.4           |

|                 |      |                 |           |
|-----------------|------|-----------------|-----------|
| <b>COPPER</b>   | 1.0  | <b>Oxygen</b>   | 20.0-30.0 |
|                 | 2.0  |                 | 7.0-9.0   |
|                 | 3.0  |                 | 2.0-3.0   |
|                 | 4.0  |                 | 0.8-1.2   |
| <b>ALUMINUM</b> | 1.0  | <b>Nitrogen</b> | 25.0-36.0 |
|                 | 2.0  |                 | 10.0-18.0 |
|                 | 3.0  |                 | 5.0-6.0   |
|                 | 4.0  |                 | 3.0-3.6   |
|                 | 5.0  |                 | 2.0-2.4   |
|                 | 6.0  |                 | 1.0-1.5   |
|                 | 8.0  |                 | 0.5-0.7   |
|                 | 10.0 |                 | 0.3-0.4   |

| <b>MODEL</b> |                          | <b>SINGLE – LAYER NOZZLE</b> |            |            |            |            |            |            |            |            |            |
|--------------|--------------------------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>POWER</b> | <b>CUTTING THICKNESS</b> | <b>1.0</b>                   | <b>1.2</b> | <b>1.5</b> | <b>2.0</b> | <b>2.5</b> | <b>3.0</b> | <b>3.5</b> | <b>4.0</b> | <b>4.5</b> | <b>5.0</b> |
| 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     |

| <b>MODEL</b> |                          | <b>DOUBLE – LAYER NOZZLE</b> |            |            |            |            |            |            |            |            |            |
|--------------|--------------------------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>POWER</b> | <b>CUTTING THICKNESS</b> | <b>1.0</b>                   | <b>1.2</b> | <b>1.5</b> | <b>2.0</b> | <b>2.5</b> | <b>3.0</b> | <b>3.5</b> | <b>4.0</b> | <b>4.5</b> | <b>5.0</b> |
| 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     | 8-10mm     | 8-10mm     | 8-12mm     | 8-14mm     | 10-16mm    | 14-20mm    | 16-20mm    | 18-20mm    |



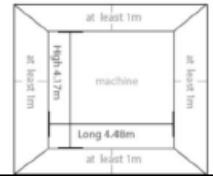
## COMSUMABLE PARTS FOR ONE YEAR (3000W)

| NAME             | SUGGESTED<br>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          | 20 Piece             | 600 hours | Control gas shape and flow rate         |
| Ceramic ring     | 1 Piece              | One year  | As the transmission medium              |

## RELATED PARAMETERS :

|                                     |                         |
|-------------------------------------|-------------------------|
| X axis travel                       | : 1500mm                |
| Y axis travel                       | : 3000mm                |
| Z axis travel                       | : 300mm                 |
| Repeat positioning accuracy         | : $\pm 0.02$ mm         |
| Maximum running speed               | : 140m/min              |
| Maximum acceleration                | : 1.5G                  |
| Water Chiller                       | : 6200                  |
| Water Chiller Dimension (L x W x H) | : 800 x 500 x 1000 mm   |
| Net weight (kg)/set                 | : 5500kg                |
| Gross Weight (kg)/set               | : 6000kg                |
| CBM (m3)/set                        | : 25.38CBM              |
| Voltage & Frequency                 | : 380V/50Hz/60Hz/60A    |
| Dimension (L x W x H)               | : 5425 x 3150 x 2530 mm |
| Laser Power                         | : 3000W                 |
| <b>BRAND NEW</b>                    | : <b>CHINA</b>          |

## PREPARATION BEFORE ORDER:

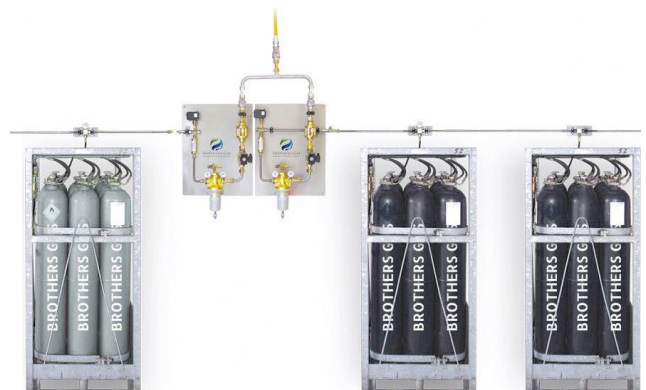
|                                 |                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Power Supply</b>             | <br><b>Industrial Electricity</b><br><b>380V 50HZ</b> | <ul style="list-style-type: none"> <li>(1 ) Rated output voltage : 380V</li> <li>(2) Voltage Frequency : 50Hz</li> <li>(3) Three-phase voltage stability: +5%</li> <li>(4) Output voltage regulation</li> </ul>                                                                                                                                                                                                                                                                                                                          |
| <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>                                                                                                                                                                                                                                                                            | ATLAS COPCO |
|   | <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>                                                                                                                                                                                                                    | PIONEERAIR  |
|  | <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> | 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 & 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.

## 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.youtube.com/watch?v=jA52kpiTvDc>

