

# 300SC

**Chinese tube 300W  
Economical Machine**

# WORLDCUT



## **Introduction**

- *300SC is our new machine with 300W Chinese tube, mainly for cutting nonmetal. Of course, if the client has to require the machine for cutting metal system also is an option but for our suggestion, the machine is better for cutting nonmetal, The reason why we promote the machine is that the machine has higher efficiency in nonmetal, almost twice cutting speed comparing with 150W chinese tube*
- *300SC machine is matched with Mitsubishi servo system and high precision ball-screw system to ensure high precision, running stable and long-operation.*
- *Fixed beam optical system developed by Worldcut is specially designed for the machine with bigger working area. The laser beam is expanding, so when the bigger the working area is, the more difficult the machine is to get the same cutting quality over the whole working area. The fixed beam optical system can guarantees the consistent beam power and quality over the whole working area so that the machine can get the same cutting quality.*
- *Untouched following system is our patented technology and specialised in cutting metal. The sheet metal is not flat. But the system can sense a distance from the nozzle to the metal surface and follow the surface up and down to automatically adjust the certain focus distance for keeping high precision cutting quality.*
- *High efficiency, stable performance and long life.*  
*Low running cost about 5KVA/hour.*

## **300SC Main Features :**

- *Laser Tube (Chinese tube 300W)*
- *Mitsubishi Servo System*
- *High Precision ball-screw system*
- *Fixed beam optical system*
- *Untouched following system (option)*
- *Chinese Chiller*
- *Off-computer controlling system*

## 300W Cutting spec and Cutting thickness

| Material        | Cutting Thickness | Cutting Speed (mm/min) | Max Cutting Thickness |
|-----------------|-------------------|------------------------|-----------------------|
| Acrylic         | 3mm               | 3000                   | 30mm                  |
|                 | 5mm               | 1500                   |                       |
|                 | 10mm              | 900                    |                       |
|                 | 20mm              | 120                    |                       |
| MDF             | 5mm               | 2100                   | 15mm                  |
|                 | 9mm               | 1200                   |                       |
| Stainless Steel | 1mm               | 3600                   | 2mm                   |
|                 | 1mm               | 1800                   |                       |
| Mild Steel      | 1mm               | 3600                   | 2mm                   |

The cutting thickness may vary because of different working condition and material feature

## The Main Configuration of the machine 300SC

| Item   | Specification  | Quantity | Remark                      |
|--|--|----------|-----------------------------|
| Working area                                 | X-axis: 1250mm Y-axis: 2500mm Z-axis 60mm                                      | One Set  | Open structure              |
| Laser tube                                   | 300W   | One Set  | Chinese tube                |
| Ball Screw                                   | Positioning accuracy: $\pm 0.05$ mm  | Two Set  | X-axis / Y-axis from Taiwan |
| Servo System                                 | Mitsubishi   | Two Set  | X-axis / Y-axis from Japan  |
| Fixed optical beam system                    | Keeping the same cutting quality on the whole working area                     | One Set  | Patented Technology         |
| Chiller                                      | Low noise; Lower running cost; Completely monitoring and protecting laser tube | One Set  | Chinese Industrial Chiller  |
| Computer                                     | USB interface  | One Set  |                             |
| Bidirectional and zoned exhausted air system | Discharging all of smoking and keeping a good working environment              | One Set  |                             |
| Entire Machine Size                          | Width : 1800mm; Length : 3500mm; Height : 1200mm (not including chiller)       | One Set  | Lenght x Width x Height     |
| Power Supply Requirement                     | 380V $\pm$ 10%/30A   |          | Air-Break Switch >30A       |

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