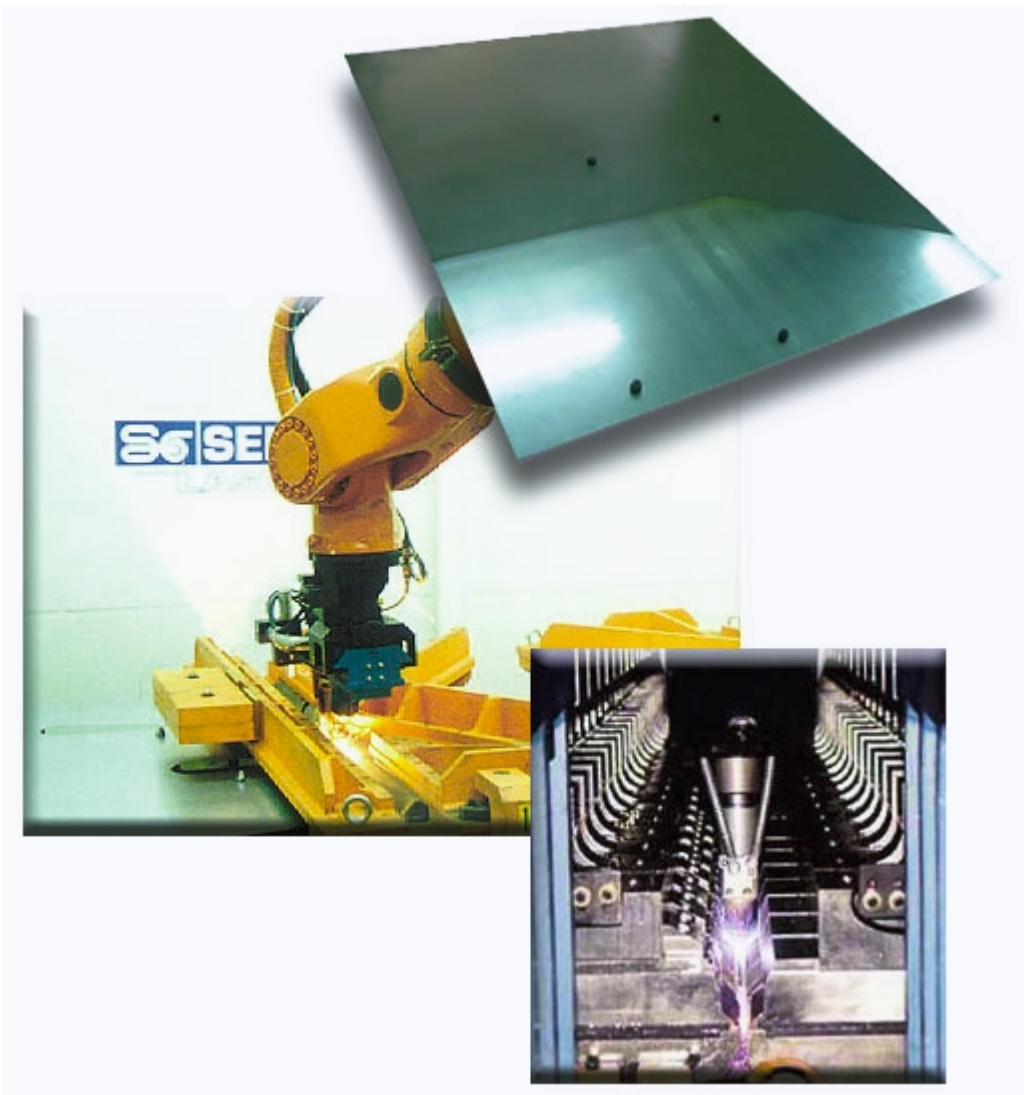


# Tailored Blank **LASER WELDING**



**S6 SERRA**  
LASER ▼

REF. 30.906



- Tailored blank laser welding installation.
- Nd-YAG 4400 W head.
- Scout Sensor for pattern recognition.
- Lineal and curved robot welding of several dimensions and thickness.
- Stack height and double blank detection.
- One station for pressing of dimples and marking.
- **5 Robots:**  
2 for loading, 1 for welding, 2 for unloading, dimples and marking
- **Cycle time:** 50s; 2 blanks
- **Welding speed:** 5 m / min
- **Max. welding length:** 1500mm + 1500mm

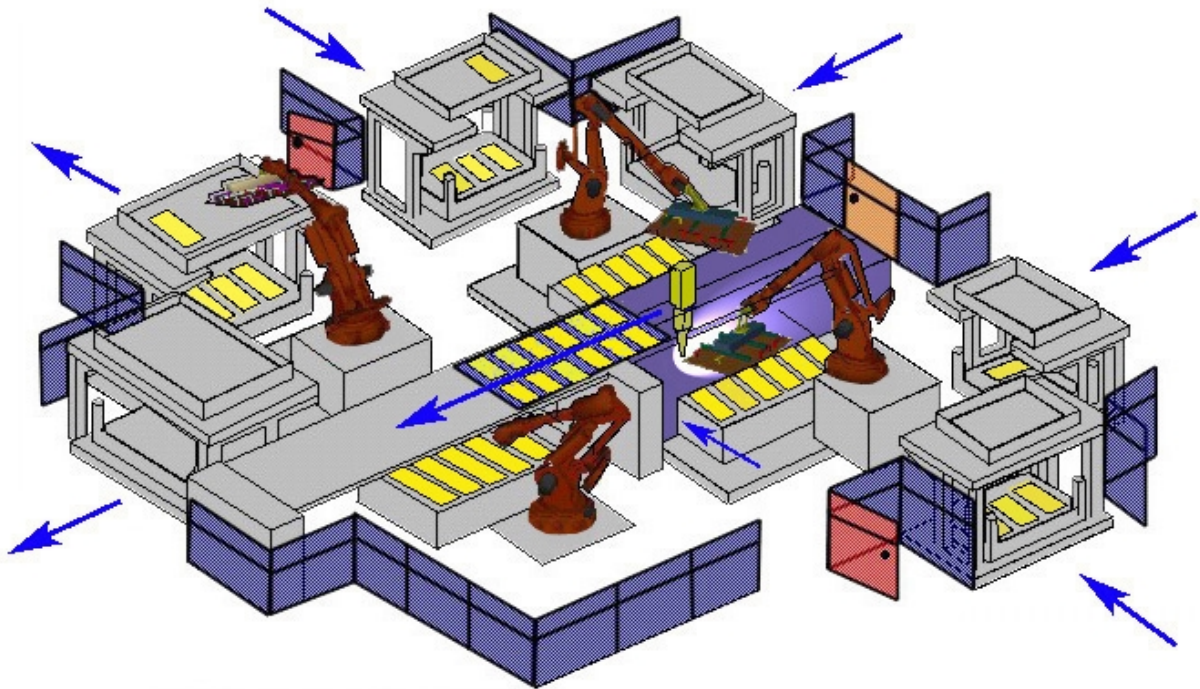


**Workpiece.**

- **Product:** Tailored Blank. Car doors (right + left)
- **Max. blank dimensions:** 2000 + 1500 mm
- **Maximum weight:** 50 Kg
- **Thickness:** 0,5 to 3 mm





**Customer:**

SOLBLANK

**Description:**

Laser welding head CO<sub>2</sub>  
8000W. Blanks with  
different thickness and  
sizes.

**Max.weld length:**

3000mm

**4 robots:** 2 for loading, 1  
for dimpling and marking, 1  
for unloading

**Max blank size:**

1550 x 1100 mm

**Min blank size:**

250 x 200mm

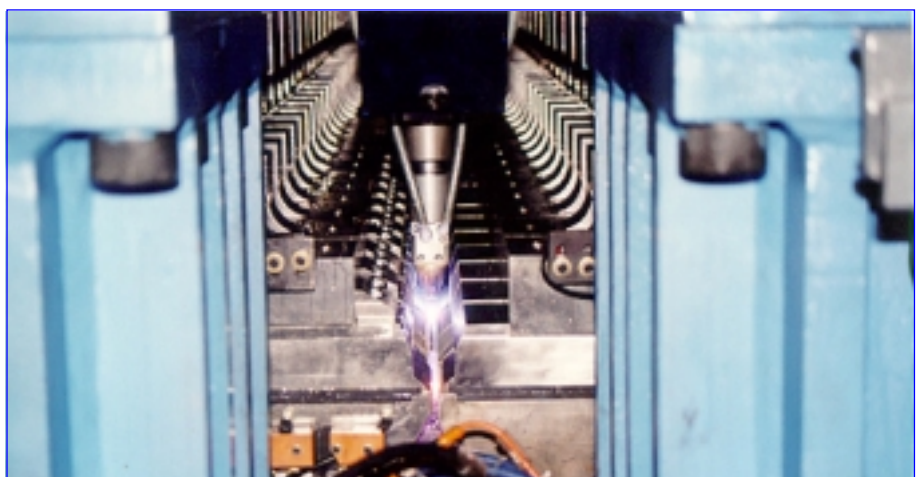
**Thickness:** 0,5 to 3 mm

**Cycle time:**

40s for 6 blanks

**Workers:**

1 (forklift)



REF. 20.205

Welding and cutting lab located in Serra Soldadura, S.A. head facilities in Barcelona.

### Tarjet:

- Prototipe quality tests.
- R+D welding and cutting.
- Hybrid welding.
- Industrial try outs for our customers.

### Laser source:

- Beam delivery system  
Rofin Sinar Nd-YAG  
4400W, output 4mm y 20m  
double fiber optic .
- On line pattern recognition  
Scout FS05.
- Robot Kuka KR 150/2
- Project Partners:

