



SAE

METAL WORKING

THE NEW ERA

NEW MACHINES AND RENEWED FACILITIES

- ▶ "Changing is never easy, it requires effort, resilience and courage, but usually when we do it, is for better. Replacing outdated machines and creating better working conditions, with the aim of increasing our capacity, can be an expensive and time-consuming process, but in the end, it's always worth it", says Fernando Sousa.

CEO and founder



Fernando Sousa
Administrador

WHY?

- ▶ IS3 is investing approximately 5 million € in new machinery and renewed facilities to serve more and better and to provide several solutions to their clients.
- ▶ The benefits of investing in new machinery are mostly the:
 - ✓ increase of productivity
 - ✓ flexibility
 - ✓ reduction of costs and waste
 - ✓ higher quality and standardization of products
 - ✓ competitiveness
 - ✓ reduction of delivery times
- ▶ We win, our clients win!

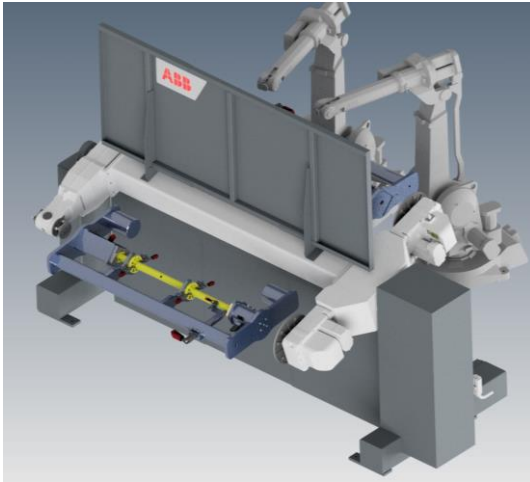
NEW MACHINE INVESTMENTS

- ▶ WELDING ROBOTS EQUIPMENT
- ▶ LASER CUT MACHINES
- ▶ MACHINING CENTERS
- ▶ CNC LATHES
- ▶ BENDING MACHINES
- ▶ THREAD ROLLING MACHINE
- ▶ DISC SAW FOR ALUMINIUM

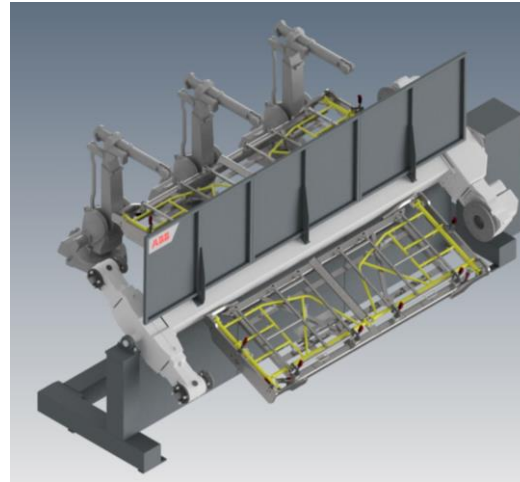


WELDING ROBOTS EQUIPMENTS

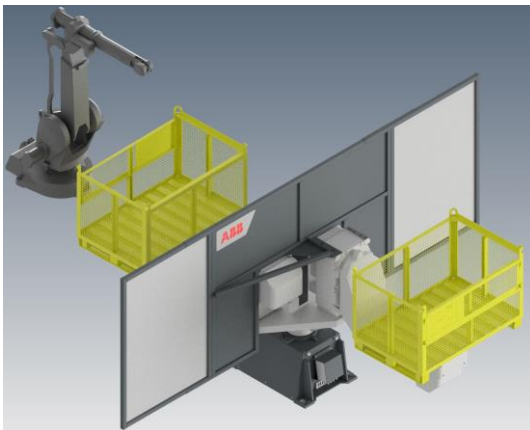
- ▶ 2 EQUIPMENTS Ø1000 X 2000 MM



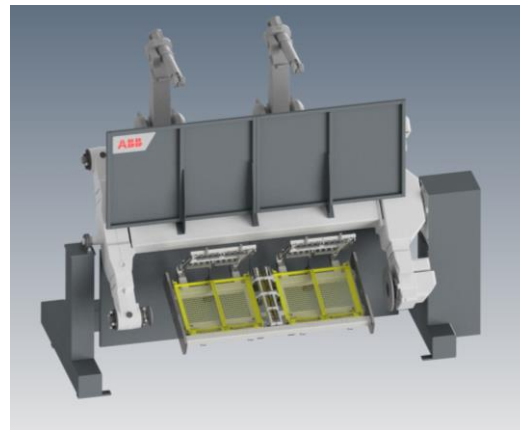
- ▶ 2 EQUIPMENTS Ø1400 X 4000 MM



- ▶ 2 EQUIPMENTS Ø1450 MM X 500 KG



- ▶ 1 EQUIPMENT Ø1400 X 2500 MM



LASER CUTTING MACHINES WITH AUTOMATIC LOADING AND DISCHARGE

► FOR SHEET STEEL

- ✓ capacity: 4000 x 2000 x 25 mm
- ✓ power: 6 kw
- ✓ fiber power source



► FOR TUBE

- ✓ cut diameters up to \varnothing 240 mm
- ✓ bar weight up to 40 kg/m
- ✓ loading & unloading length: 6.5 m
- ✓ 3 kw fiber laser source
- ✓ cuttable materials: mild steel, stainless steel, aluminum, copper, brass, galvanized
- ✓ possible to do chamfers and other complex cutting patterns.



BENDING MACHINES WITH ROBOT

► FOR SHEET STEEL

- ✓ max. bending strength: 200 ton
- ✓ max. length: 3100 mm
- ✓ robot capacity: 90 Kg



► FOR TUBES

- ✓ capacity: $\varnothing 63 \times 4000$ mm
- ✓ robot automation
- ✓ complex bending parts



MACHINING CENTERS

- ▶ 5 AXIS MACHINING CENTER
FOR LARGE PIECES AND WELDING JIGS



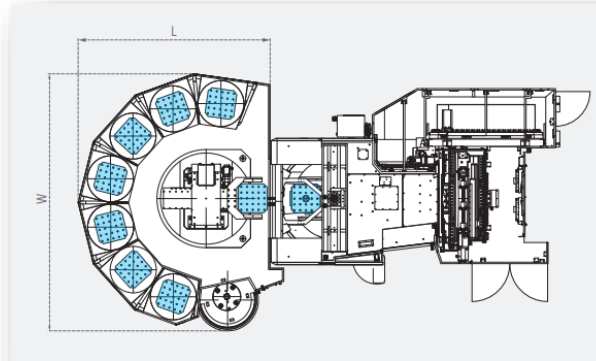
- ✓ capacity: 10000 x 3000 x 2500 mm
- ✓ 2 turning and milling rotary removable tables (400 rpm)
- ✓ 4 angle plates
- ✓ pendulum work system

- ✓ capacity: 3000 x 850 x 800 mm
- ✓ 2 rotary milling tables
- ✓ pendulum work system
- ✓ spindle max. speed: 12.000 rpm



MACHINING CENTERS

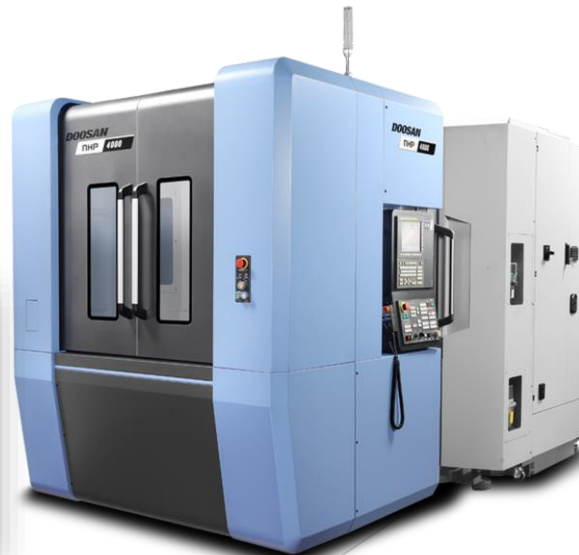
- ▶ 5 AXIS MACHINING CENTER
FOR LARGE PIECES AND WELDING JIGS



- ✓ capacity: $\varnothing 730 \times 500$ mm
- ✓ 7 pallets charger
- ✓ spindle max. speed: 20.000 rpm
- ✓ high production series

- ▶ HORIZONTAL MACHINING CENTER

- ✓ capacity: $730 \times 730 \times 880$ mm
- ✓ spindle max. speed: 15.000 rpm
- ✓ high production series



CNC LATHE MACHINES

▶ WITH DOUBLE SPINDLE

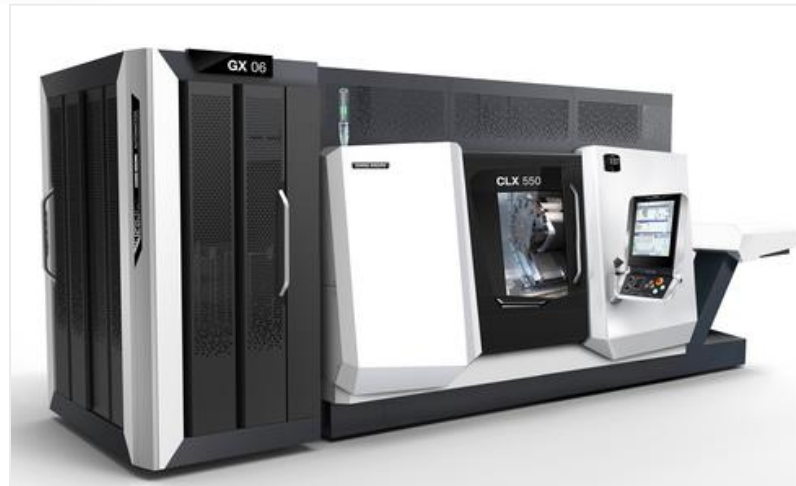
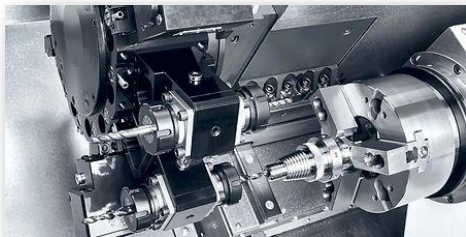


- ✓ capacity: $\varnothing 376 \times 1280$ mm
- ✓ spindle max. speed: 6.000 rpm
- ✓ bar feeding: $\varnothing 80 \times 1600$ mm



▶ WITH GANTRY LOADER

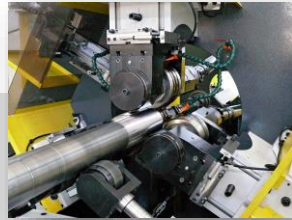
- ✓ capacity: $\varnothing 366 \times 1255$ mm
- ✓ spindle max. speed: 4.000 rpm
- ✓ bar feeding: $\varnothing 102 \times 1600$ mm



OTHERS

► THREAD ROLLING MACHINE

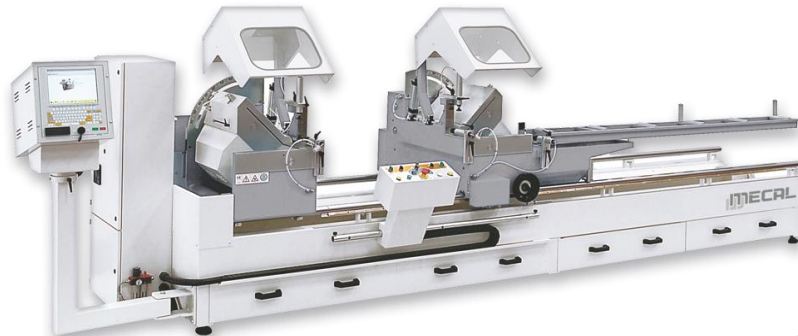
✓ capacity: $\varnothing 36$ to $\varnothing 120$ mm



► SHOT BLASTING MACHINE 1000 X 500 MM



► DOUBLE HEAD DISC SAW FOR ALUMINUM

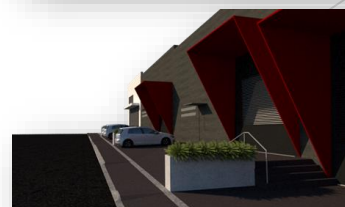
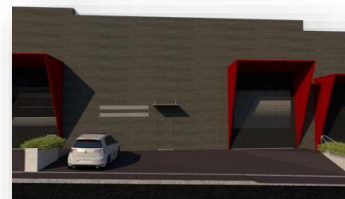


RENEWED FACILITIES

► MAIN FACILITIES 6.000 M2



► SECONDARY FACILITIES 6.000 M2





OUR AIM IS TO DO MORE AND BETTER!

WE ASSURE HIGH QUALITY, GREAT SERVICE AND GOOD TERMS OF DELIVERY!

IS3

METAL WORKING

IRMÃOS SOUSA, S.A.