

1. FMS system 36 palettes + 2 machines -08

- Machine 1. MA600 Okuma -06, horizontal center, palette size 630*630, 100 pcs toolchanger
- Machine 2. MA600 Okuma -08, horizontal center, palette size 630*630, 200 pcs toolchanger

2. FMS system 50 palettes + 80 europalletplaces + 1 machine -10 + 2 machines -12

- Machine 1. Okuma MX-60 -00, horizontal center, palette size 630*630, 150 pcs toolchanger
 - Machine 2. Mazak HC NEXUS 8800 II -12, horizontal center, palette size 800*800, 180 pcs toolchanger
 - Machine 3. Mazak HC NEXUS 5000 II -12, horizontal center, palette size 500*500, 120 pcs toolchanger
- Machine 3 arrives January -12, Machine 2 arrives June -12

3. Ibarria ZV55 -00, vertical center, 36 pcs tools Iso 50

- X-movement 4000 mm (1500*2)
- Y-movement 800 mm
- Z-movement 800 mm

4. Quaser -02, vertical center, 38 pcs tools , 10000 rounds (Big plus BT40)

- X- movement 2400 mm (700*2)
- Y- movement 700 mm
- Z- movement 700 mm

5. Victor -06, vertical center, 24 pcs tools, 12000 rounds (TST 40)

- X- movement 2000 mm
- Y- movement 600 mm
- Z- movement 600 mm

6. Biglia 301+Boss 553 barfeeder -06, bar machiningcenter

- Max bar diameter Ø45
- Max bar length 4,4 m
- Spindel effect 18 kW
- Subspindel effect 5 kW
- Rotating tools 3,7 kW

7. Goodway 260+Irco Simag barfeeder -02, bar machine

- Max bar diameter Ø50
- Max bar length 3 m
- Spindel effect 15 kW

8. Okuma LU-15 -99, turning machine

- Max diameter Ø300 mm
- Turning length 1000 mm
- Spindel effect 22 kW, 12" chuck
- Tailstock

9. Okuma Macturn 30W -02, multi-tasking machine, 36 pcs toolchanger (BT 40)

- Max diameter Ø300 mm
- Turning length 1000 mm
- Spindel effect 22 kW, 10" chuck
- Subspindel effect 7,5 kW, 6" chuck
- Y-axel movement 150 mm
- B-axel 1° split

10. Okuma Macturn 250W -04, multi-tasking machine, 42 pcs toolchanger (HSK 63)

- Motoman robot attached max 165 kg
- Max diameter Ø300 mm
- Turning length 1000 mm
- Spindel effect 22 kW, 10" chuck
- Subspindel effect 10 kW, 8" chuck
- Y-axel movement 150 mm
- B-axel 1° split

11. Okuma Macturn 350W -08, multi-tasking machine, 42 pcs toolchanger (HSK 63)

- Max diameter Ø450 mm
- Turning length 1500 mm
- Spindel effect 22 kW, 12" chuck
- Subspindel effect 22 kW, 12" chuck
- Y-axel movement 190 mm
- B-axel 0,001° split

12. Measuring machine Zeiss Contura G2 -07

- X- movement 1000 mm
- Y- movement 1200 mm
- Z- movement 600 mm
- Changing station for measuring heads, 4 pcs measuring heads
- Scanning function

13. Welding machine

- Mig 320A

14. Washing machines

- 1-chamber 1200 mm Teijo
- 1- chamber 1000 mm Sampo-Rosenlew
- 2- chamber 1300 mm Sampo-Rosenlew

15. Pressure test max pressure 200 bar