

# Machine list

## Automatic lathes

### CNC long turning lathes (swiss type)

5 pcs.	5-axes	diameter up to 16 mm	with autom. bar feeder	Star SA 12/16
10 pcs.	6-axes	diameter up to 20 mm	with autom. bar feeder	Star SR 20R
4 pcs.	7-axes	diameter up to 20 mm	with autom. bar feeder	Tornos CT20
2 pcs.	7-axes	diameter up to 32 mm	with autom. bar feeder	Star KNC 32II
1 pcs.	8-axes	diameter up to 10 mm	with autom. bar feeder	Star SW 7R 7/10
7 pcs.	8-axes	diameter up to 20 mm	with autom. bar feeder	Star SV 20
2 pcs.	8-axes	diameter up to 32 mm	with autom. bar feeder	Star KNC 32JII-B
5 pcs.	9-axes	diameter up to 12 mm	with autom. bar feeder	Star SV 12
4 pcs.	9-axes	diameter up to 32 mm	with autom. bar feeder	Star SV 32
2 pcs.	11-axes	diameter up to 20 mm	with autom. bar feeder	Star SW 20
3 pcs.	11-axes	diameter up to 32 mm	with autom. bar feeder	Star ECAS 32T
1 pcs.	12-axes	diameter up to 38 mm	with autom. bar feeder	Star ST 38

## Multi-spindle machines

1 pcs.	14-axes	diameter up to 16 mm	with autom. bar feeder	Tornos MultiSwiss
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## CNC turret automatic machines

1 pcs.	5- axes	diameter up to 65 mm	with autom. bar feeder	Index ABC
1 pcs.	5- axes	diameter up to 60 mm	with autom. bar feeder	Index ABC
3 pcs.	8- axes	diameter up to 65 mm	with autom. bar feeder	Index G 200
1 pcs.	7- axes	diameter up to 65 mm	with autom. bar feeder	Nakamura WT-250
1 pcs.	8- axes	diameter up to 65 mm	with autom. bar feeder	Nakamura WY-150
1 pcs.	8- axes	diameter up to 42 mm	with autom. bar feeder	Nakamura WY-100
2 pcs.	8- axes	diameter up to 51 mm	with autom. bar feeder	Nakamura WY-100

## **CNC machines turning milling grinding**

- 1 pcs. milling centers Haas Super VF
- 1 pcs. turning center Supermax YCM-GT250MA
- 1 pcs. CNC lathe Gildemeister CTX
- 1 pcs. cylindrical grinding machine Studer S21

## **Finishing operations**

- 1 pcs. Cylindrical grinding machine Tschudin HTG 410 with internal grinding equipment
- 1 pcs. Grinding machine Agathon 150
- 1 pcs. Centerless grinding machine Estarta 301 MV
- 1 pcs. Centerless grinding machines SFS Herminghausen SR2
- 1 pcs. Finishmaster Z 600
- 1 pcs. Thread rolling machine
- 1 pcs. Smooth rolling machine
  
- 1 pcs. Ultrasonic cleaning machine with laminar flow box KKS
- 1 pcs. Solvent cleaning machine Pero

### **Various milling, turning and drilling machines**

### **Different vibratory grinding installations**

### **Production of subassemblies**

## **Laser technology**

- 1 pcs. marking laser Trumpf
- 1 pcs. marking laser Ventus Marker
- 1 pcs. Assembly and Laser welding production line Helpotec (Festo)