

# MACHINE PARK

## TURNING DEPARTMENT

Type	Model/MAKE
Two spindle portal CNC turning centre	MURATEC - MW 300
Two spindle portal CNC turning centre	MURATEC- MW 12GT
Two spindle portal CNC turning centre	MURATEC - MW 200
Two spindle portal CNC turning centre	MURATEC - MW 12
Two spindle portal CNC turning centre	MURATEC - MW 20
Two spindle portal CNC turning centre	MURATEC - MW 12
Two single spindle, single turret turning centres	MORI SEIKI NL2500Y/700
Robotic centre	PUMA 2600Y/DOOSAN
Single spindle, single turret turning centre	PUMA 2600Y/DOOSAN
Single spindle, single turret turning centre	BIGLIA B565/M
Single spindle, single turret turning centre	SKT21LM
Two spindle CNC turning centre with bar feeder	MIANO – ABX64TH2
Two spindle CNC turning centre with bar feeder	MURATEC MT-12
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Two spindle CNC turning centre with bar feeder	MURATEC MT-12
Two spindle CNC turning centre with bar feeder	MURATEC – GT2
Two spindle CNC turning centre with bar feeder	MURATEC – GT3
Two spindle CNC turning centre with bar feeder	MURATEC – MT100
Two spindle CNC turning centre with bar feeder	MURATEC MT200T3
Two spindle CNC turning centre with bar feeder	NAKAMURA W150

## GEAR CUTTING DEPARTMENT

Type	Model/MAKE
CNC gear cutting centre	LIEBHERR - LC 500
Robotic CNC gear cutting centre	PFAUTER P90
Robotic CNC gear cutting and laser marking centre	GLEASON PFAUTER P90.1
CNC gear cutting centre	LIEBHERR - LFS380
CNC gear cutting centre	LIEBHERR - LC300
CNC gear cutting centre	LIEBHERR - LSE300
Robotic CNC gear cutting centre	LIEBHERR - LC180
Robotic CNC gear cutting centre	GLEASON GP300
Robotic CNC gear cutting centre	PFAUTER P200
Robotic CNC gear cutting centre	PFAUTER P60
CNC gear cutting centre	PFAUTER PE120
Gear cutting machine	PFAUTER P400
Gear cutting machine	PFAUTER P251
nr. 2 Gear cutting machines	CIMA P5
Gear cutting machine	CIMA P4
Gear cutting machine	DEMAK Universal
Gear cutting machine	PFAUTER RS00

## DEBURRING / CHAMFERING DEPARTMENT

Type	Model/MAKE
Topping machine	PICCO K15
Gratomat chamfering machine, double head	TECNO 250
Gratomat chamfering machine, double head	PICCO WN 500
Gratomat chamfering machine, double head	MINITOOL



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## THREAD CUTTING DEPARTMENT

Type	Model/MAKE
Thread cutting centre	MZ-M651
Orbital thread cutting centre	LEISTRITZ - LWN 120
Orbital thread cutting centre	LEISTRITZ - LWN 90

## WORK CENTRE DEPARTMENT

Type	Model/MAKE
Vertical work centre	KENT - KMV10EL/KENT
Vertical machining center with 4th axis	MORI SEIKI-DURAVERTICAL 5080

## BROACHING / SLOTTING DEPARTMENT

Type	Model/MAKE
Robotic broaching machine	1600
Robotic broaching machine	1600
Broaching machine	3700
Broaching machine	VARINELLI
Slotting machine	CABE 250

## SKIVING DEPARTMENT

Type	Model/MAKE
Robotic skiving machine	SICMAT RASO 250TP
Robotic skiving machine	SICMAT RASO 200
Skiving machine	RED RING

## GRINDING DEPARTMENT

Type	Model/MAKE
External diameter grinding centre	LIZZINI - IG-FXS
External diameter grinding centre	LIZZINI - Mikra CNC
External diameter grinding centre	LIZZINI - Mikra8 CNC
External diameter grinding centre	LIZZINI - Mineral Eko CNC
Internal diameter grinding centre	LIZZINI - Polar CNC
Internal and external diameter grinding centre	SAMSUNG - PL240B
External gear grinding centre	REISHAUER - RZ 160
External gear grinding centre	REISHAUER - RZ 260
External gear grinding centre	REISHAUER - RZ 360
External gear grinding centre	REISHAUER - RZ 410 SL
External gear grinding centre	REISHAUER - RZ 160 KWS
External gear grinding centre	REISHAUER - RZ 260
External gear grinding centre	PFAUTER - G300
External gear grinding centre	HOFLER - 400K
External gear grinding centre	HOFLER - 400KK
External gear grinding centre	SAMP - S375G
External gear grinding centre	SAMP - S375G
External gear grinding centre	SAMP - S650
External gear grinding centre	SAMP - S650
External gear grinding centre	SAMP - S250
Internal and external gear grinding centre	HOFLER VIPER - 500K
Robotic hard turning gear centre	EMAG VSC 200
Hard turning gear centre	EMAG VSC 7-400



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# QUALITY

QUALITY CONTROL DEPARTMENT
KLINGENBERG P65 measuring centre
KLINGENBERG P26 measuring centre
ZEISS 3D gear measuring system
Mahr PRIMAR gear measuring system
WENZEL GT350 gear measuring system
WENZEL WGT400 gear measuring system
POLI SKY3 three-dimensional measuring machine
MITUTOYO three-dimensional measuring machine
TESA scanning projector
STARRETT profile projector
FOCUS 200 profile projector
Optical measuring stations OPTICLINE CS614
SM profile measuring machine
HURTH noise measuring system
MAAG centre-to-centre measuring system
Worm shaft - worm wheel NC gear inspection machine
TAYLOR HOBSON surface roughness - profile measuring machine
Surface roughness gauge
TESA height gauge
TESA height gauge
TESA height gauge
HRA, HRC, HB hardness tester
Burn test laboratory



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# PROCESSES

## TURNING DEPARTMENT

Bar turning from D.min 30 to D.max 110mm - L. max 340mm

Bar turning from D.min 20 to D. max 60 mm - L. max 200 mm

## THREAD CUTTING DEPARTMENT

Thread cutting, 1 to 6 starts

## GRINDING DEPARTMENT

External grinding from D.min 7 to D.max 65 mm - L. max 330 mm

Internal grinding from D.min 7 to D.max 35 mm - L. max 200 mm

Gear grinding with shaping and generating wheel for external teeth

Gear grinding with shaping wheel for internal teeth

External tooth grinding from D.min 10 to D.max 400 mm

Min. modulus 0.5 to max. modulus 10

Internal tooth grinding from D.min 50 to D.max 500 mm

Min. modulus 0.5 to max. modulus 8

Max. length 1050 (with shaping wheel)

Max. length 350 (with generating wheel)

## GEAR CUTTING DEPARTMENT

### Gear hobbing

Steel from modulus 0.4 to modulus 10

Bronze from modulus 0.4 to modulus 9

Wheels from D.min 10 to D.max 500 mm

Shafts from D.min 4 - L. max 700

### Hobbing on tempered steel

Skiving from modulus 0.4 to modulus 2.5

Wheels D.max 90 mm

Pinions L.max 250 mm

### External helical straight tooth cutting

Min. modulus 0.5 to max. modulus 10

Max diameter 380 (overall 500)

### Internal helical straight tooth cutting

Min. modulus 0.5 to max. modulus 10

Max diameter 380 (overall 500)

## SKIVING DEPARTMENT

Min. modulus 0.75 to max. modulus 6

Max. diameter 350

Max. length 350

## BROACHING / SLOTTING DEPARTMENT

Broaching from D. min 14 mm

External milling from 3 mm to 18 mm grooves

Thickness min 2 to max 18 mm

Slotting from 3 mm to 8 mm



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