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# OUR TECHNOLOGY

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## 1. BORING-MILLING TECHNOLOGY

### BORING-MILLING MACHINE SACEM MSMG-150 CN


<b>STROKE</b>	VERTICAL	1900 mm	
	CROSS	2900 mm	
	LONGITUDINAL	1500 mm	
	MAIN SPINDLE	1000 mm	
	DIAMETER	150 mm	
<b>TABLE</b>	SURFACE	1600 x 2000 mm	
	MAXIMUM LOAD	10000 Kg	
<b>SPEEDS - 4 to 1600 r.p.m.</b>			
<b>CNC - HEIDENHAIN TNC-530</b>			

### BORING-MILLING MACHINE SACEM MST-XC-110


<b>STROKE</b>	BORING BARS	110 mm	
	MAIN SPINDLE	800 mm	
	VERTICAL	1200 mm	
	CROSS	1700 mm	
	LONGITUDINAL	1000 mm	
<b>TABLE</b>	SURFACE	1200 x 1450 mm	
	MAXIMUM LOAD	4000 Kg	
<b>SPEEDS - 10 to 1000 r.p.m.</b>			
<b>CNC - HEIDENHAIN TNC-430</b>			

## 2. MACHINING CENTER

<b>GANTRY MACHINING CENTER AXA VPC2800 U</b>		
<b>STROKE</b>	LONGITUDINAL	3900 mm
	CROSS	2940 mm
	VERTICAL	1100 mm
<b>TABLE</b>	SURFACE	Ø 2800 mm
	MAXIMUM LOAD	15.000 Kg
<b>SPEED – 1 to 9.000 r.p.m.</b>		
<b>ADVANCES RANGE - 1 A 30.000 mm/min</b>		
<b>CNC – HEIDENHAIN iTNC-530 HSCI</b>		
<b>TOOLS</b>	Auto-Tool Changer: 60 tools.	



<b>MACHINING CENTER DMF 360 Y 1100</b>		
<b>STROKE</b>	LONGITUDINAL	3600 mm
	CROSS	1100 mm
	VERTICAL	920 mm
<b>TABLE</b>	SURFACE	4200 x 1100 mm
	MAXIMUM LOAD	5000 Kg
<b>SPEED – 1 to 10.000 r.p.m.</b>		
<b>ADVANCES RANGE - 1 A 60.000 mm/min</b>		
<b>CNC – HEIDENHAIN iTNC-530</b>		
<b>DIVISOR</b>	Equipped with 4° Axis Horizontal/Vertical model <b>LEHMAN EA-530</b> : pneumatic block	
<b>TOOLS</b>	Auto-Tool Changer: 30 tools.	



## MACHINING CENTER DMG CMX70 U

TABLE	Ø800x620
STROKES	750 x 600x 520 mm
RAPID TRAVERSE	30 m/min
HEADSTOCK	12.000 r.p.m. – SK 40
POWER	13/9 KW
TOOLS	Auto-Tool Changer: 30 tools
B AXIS -10°/+95°	
C AXIS 360°	
CNC – HEIDENHAIN 620 -21MB	



## MACHINING CENTER MORI-SEIKI MV-40 B

STROKE	LONGITUDINAL	800 mm
	CROSS	410 mm
	VERTICAL	510 mm
TABLE	SURFACE	1100 x 450 mm
	MAXIMUM LOAD	700 Kg
SPEEDS – 8000 r.p.m.		
CNC – FANUC-MORIC 2F		
Auto-Tool Changer: 30 tools		




### 3. MILLING MACHINES

<b>MILLING MACHINE CORREA CF-22/25 PLUS</b>		
<b>STROKE</b>	LONGITUDINAL	2500 mm
	CROSS	800 mm
	VERTICAL	800 mm
<b>TABLE</b>	SURFACE	2500 x 700
	MAXIMUM LOAD	4000 Kg
<b>SPEEDS – 605 to 4000 r.p.m</b>		
<b>CNC – HEIDENHAIN TNC-410</b>		
<b>OTHERS</b>	Equipped with divisor 4°	
	Axis Horizontal/Vertical	
	model SINCOR H/V 400 +	
	Headstock 2 output at 90°	
	Ready for 4° axis CNC	
	Electronic portable flywheel.	




#### 4. CNC LATHES

<b>UNIVERSAL CNC LATHE DMG NLX2500 Y 1250</b>	
SWING DIAMETER	688 mm
ENGINE POWER	18.5 Kw
TABLE DIAMETER	305 mm
TRAVEL (X/Z)	260/+/-50/1345 mm
RAPID TRAVERSE	30 m/min
TURRET TYPE	12 TOOLS
TOOLS CAPACITY	12
TAILSTOCK DIAMETER	91 mm
SPEEDS	<b>4000 rpm</b>
<b>CNC - M730UM WITH CELOS -</b>	




<b>CNC LATHE EMAG USC-2</b>	
SWING DIAMETER	660 mm
ENGINE POWER	AC 34Kw
TABLE DIAMETER	310 mm
TRAVEL (X/Z)	400/1500 mm
RAPID TRAVERSE	10/10 m/min
TURRET TYPE	VDI 3425
TOOLS CAPACITY	8
TAILSTOCK DIAMETER	80 mm
SPEEDS	<b>3200 rpm</b>
<b>CNC - SIEMENS SINUMERIK 810-D</b>	



## 5. CONVENTIONAL LATHES

<b>CONVENTIONAL LATHE AMUTIO HB 575</b>	
<b>SWING DIAMETER</b>	575mm
<b>ENGINE POWER</b>	12 H.P.
<b>TRAVEL (X/Z)</b>	250/1500 mm
<b>TAILSTOCK DIAMETER</b>	70 mm
<b>SPEEDS</b>	<b>18</b>
<b>SPINDLE SPEED RANGE</b>	<b>25-2000 rpm</b>



## 6. AUXILIARY MACHINERY

### HYDRAULIC SAW SABI HER 275 AE

<b>CUTTING CAPACITY</b>	DIAMETER	275 mm
	SECTION	235 mm
<b>BLADE DIMENSIONS</b>		500 (20") y 450 (18")
<b>AUTOMATIC TRAVERSE LENGTH</b>		0-500 / 0-4500
<b>MAIN MOTOR</b>		4 H.P.
<b>COOLANT PUMP MOTOR</b>		0,1 H.P.
<b>HIDRAULIC GROUP MOTOR</b>		1 H.P.
<b>NUMBER OF STROKES PER MINUTE</b>		60-90-125-155
<b>SPEEDS M/MINUTE</b>		16-23-32-40



### SURFACE GRINDING MORKAIKO

<b>MAXIMUM SIZE OF THE PART TO GRINDING</b>	LENGTH	650 mm
	WIDTH	300 mm
	HIGH	320 mm
<b>TABLE</b>	SURFACE	630 x 200 mm
	MAXIMUM LOAD	150 Kg
<b>DISTANCE BETWEEN SPINDLE TO TABLE</b>		80 – 445 mm
<b>WHEEL HEAD MAXIMUM SPEED</b>		365 mm
<b>MANUAL STROKE OF THE TABLE</b>	LONGITUDINAL	700 mm
	CROSS	250 mm
<b>SPEED</b>	TABLE	2 – 30 m/mn
	TRANSVERSE	0,01 – 1,5
	WHEEL HEAD	0,3 m/mn
<b>VALUE OF ONE GRADUATION OF THE NONIUS</b>	VERTICAL TRAVERSE	0,002 mm
	MICRO. VERTICAL	0,0005 mm
	CROSS TRAVERSE	0,05 mm
	MICRO. TRANSVERSE	0,001 mm
<b>STROKE OF ONE REVOLUTION OF THE NONIUS WHEEL</b>	TRANSVERSE	5 mm
	VERTICAL	0,20 mm
<b>AUTOMATIC AND TRANSVERSAL TABLE TRAVERSE</b>		0,3 – 30 mm
<b>AUTOMATIC TRAVERSE OF WHEEL HEAD</b>		0,002 – 0,08 mm
<b>WHEEL DIMENSIONS</b>		250 x 76 x 40 m
<b>MINIMUM DIAMETER OF THE WHEEL (AFTER USED)</b>		160 mm





## HYDRAULIC TAPPING MACHINE GAMOR M2-M48

MINIMUN TAPPING CAPACITY	M2
MAXIMUM TAPPING	M48
R.P.M. MAXIMUM	590
MAIN MOTOR	7,5 H.P.
MAIN MOTOR VOLTAGE	380 V
PUMP	0,24 Kw
ARM LENGTH	1500 mm



## SAWING MACHINE T 315 B



## UPRIGHT DRILLING MACHINE TD-17R



## BAND SAW SAMUR S400



## GANTRY CRANES: BENGO 4TN, JASO 5 TN, BENGO 8TN



## WELDING



## 6. QUALITY CONTROL AND CHECKING

- QUALITY SYSTEM:
  - ON 3 MARCH 2004 WE OBTAINED THE CERTIFICATE:  
ISO 9001:2000 CURRENTLY UPDATED TO ISO 9001:2015



- CONTROL AND VERIFICATION ELEMENTS:
  - GRANITE AND
  - MICROMETERS
  - INTERIOR METERS
  - GAUGE BLOCK SET
  - ...

### ALTIMETER TESA- MICROHITE



### DUROMETER HOYTON 1003 AS



## CROSS MEASURING MACHINE CNC SHEFFIELD MERCURY C AUTOMATIC

STROKES: 3000 x 1600 x 1800

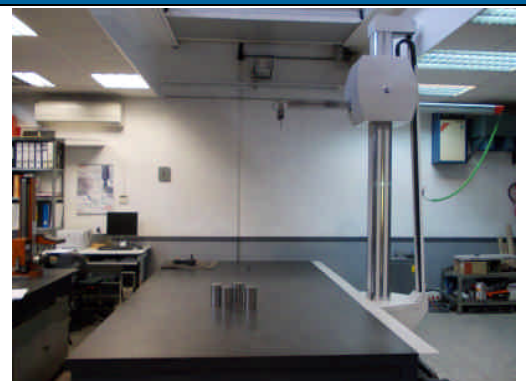
CNC DEAC FOR 3 MOTORIZED AXIS

FOUNDRY TABLE

INDEXABLE MOTORIZED HEAD TESASTAR M

ELECTRIC DETECTOR 5 DIRECTIONS RENISHAW  
TP20

CALIBRATION SPHERE



## 7. SOFTWARE CAM, CAD AND COMMUNICATIONS

- SOFTWARE:
- SOFTWARE: MASTERCAM 2019



- SOFTWARE CAD: AUTOCAD, AUTOCAD2011, INVENTOR 2017



We have a multitask system of simultaneous communication SISCOM/MUL that allows us to communicate simultaneously all the CNC machines of our plant, centralizing only in one PC-AT the communication of CNC programs.