



High Performance manufacturing machines

**ERMO MARCILLE LA VILLE**  
ZA - BP 15, 53440 MARCILLE LA VILLE

**ERMO MAYENNE**  
Imp André Marie Améeère 53100 MAYENNE  
France  
Tel : 00.33.(0)2.43.00.71.22  
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**CAD**

- 9 Catia V5 workstations
- 1 UNIGRAPHICS workstation

**CAM / Computer assisted Production Management**

- 3 Catia V5 workstations
- 2 MISSELER workstations
- 2 DELCAM Feature-CAM workstations
- 1 DELCAM POWER MILL workstation
- 2 WORK.NC workstations
- 1 MECANIC workstation HP UNIX V. CA
- 8 WORK PLAN workstations (Network Ethernet TCP / IP)
- 4 Mould management system workstations (Network Ethernet TCP / IP)
- 3 Identifying & Paletising JMS EROWA system (for parts and electrodes)

**MILLING**

	Workingsize		
	X	Y	Z
2 Millingcentre MAKINO A99e	1250	1100	1250
1 Millingcentre Mazak AJV 35/60/M32 (2 automatised palets )	1500	800	510
1 6 Axis High Speed Cutting Millingmachine Ferrari A17 S3045P	1050	520	420
1 5 Axis High speed Cutting Millingcentre HERMLE C 30 U	650	600	500
1 5 Axis high speed cutting millingcentre mikron HSM 600U	600	500	500
1 4 Axis Millingmachine Ferrari B15S3045A	850	420	420
1 3 Axis High speed Cutting Millingcentre HERMLE C 600 U	600	450	500
1 Millingcentre MAKINO V33	600	400	300
1 Millingcentre MAKINO V33i	600	400	300
1 Millingcentre Mazak V515 M32	1050	510	560
2 3 Axis High Speed Millingmachine MIKRON HSM 700 + EROWA Robot 5-100X	700	550	450
1 Millingcentre HERMLE C800	800	600	500

**SPARKING**

	Sinksize			Workingsize		
	X	Y	Z	X	Y	Z
1 EDM machine A65R sodick CN + Axe C	960	600	400	650	450	350
1 EDM machine Ingersoll 4000	650	500	340	400	300	300
1 EDM Machine AGIE HyperSPARK + robot EROWA 5-100X	500	350	500			
1 EDM Machine AGIE HyperSPARK 2 IQ						
1 EDM machine Agie Innovation 3	900	700	410	500	350	500
1 EDM machine Agie Innovation 2	650	600	305	350	300	250
1 Wire Cutting machine Agiecut Excellence 2 + robot EROWA 5-100X	250	350	250			
1 EDM AC Vertex 2						
1 Wire cutting machine Agiecut 250 HSS	800	850	250	400	250	250
1 High speed drilling machine CASTEK SD22PCS						

**GRINDING**

1 Flat Grinding machine LGB	1320	730	480
2 Lipemec PLTH 400 optidress E + visu 2 axis	400	250	300
1 Flat Grinding machine Okamoto Linear 350-B			
3 Okamoto ACC 450DXA	450	150	280
1 Okamoto ACC 450DXA + Optidress E	450	150	280
1 CNC Okamoto ACC 52DXNC	500	200	350
1 Okamoto ACC 63DXV	600	300	500
1 Flat grinding machine Okamoto 65 DX-V	750	540	522
1 CNC Grinding machine HAUSER S35-400	500	300	450
1 Grinding machine CN Jones & Shipman SUPREMA Easy U			



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**LATHERING**

	HP	Y	X
1 PINACHO S-90VS / 200	200	300	130
1 Mazak Super QT 200 CN T 12	190		1085
1 HARDINGE CONQUEST T 42SP	50		445
1 MONTFORT RNC 400	125		450
1 MAZAK QT 8N	75		225

**DIMENSIONAL CONTROL**

1 ZEISS CONTURA G2	1000	1200	500
1 ZEISS CONTURA G2			
1 Height mesure column Micro-hite 600 TESA			
1 Wenzel LH951200	600	400	300
1 CNC EROWA Preset 3D	700	550	700
1 ZEISS SURFCOM 2000 SD2 Profilometer			
1 CNC Optical Mitutoyo QUICK VISION			
1 Control column TESA micro-hite 400+			
2 Control column DIGIMAR B17 CLM			
2 Mitutoyo PJ 3000 x10, x20, x50			
1 ORAMA 500 x10, x20, x50, x100			
1 Ernst NR 2			
2 EROWA 2D+C control Banches			
1 TOOL Master 3			
1 Pulstar S238			
1 Tool presetting Banch Elbo controli			

**MOULDING MACHINES**

	Inside Columns Dims.	H	V
2 Netstal 350T		720	720
1 BMB mono-material 300T			
1 Netstal 140T		410	370
1 Engel 125T without column		-	-
1 Electric Sumitomo Demag 110T			
1 Engel 50T without column		-	-
1 Electric Arburg 35T			
1 Hydraulic presse machine 50T		450	450

**OTHERS**

- 1 cold welding SST
- 1 Laser welding SST LWM-75
- 1 Argon Welding CastoTIG AC/DC 200A
- 1 Treatment oven SCATER 1
- 2 1250 and 1500 drilling machine
- 1 Drilling machine SERMAC
- 2 Column drilling machines
- 1 FISA Ultra sonic leaning machine
- 1 MADA drilling machine HA 250w
- 1 MEGA drilling machine BS360SA
- 1 drilling machine
- 1 Speed Drilling machine CASTEK SD22PCE
- 3 Micro ball (27-24 Charmilles - 24-21 Charmilles - Tribobond 12-9 Charmilles)
- 1 Sawing machine Degen
- 1 Chanfering machine Swiss Speedy
- 1 Chanfering machine Acetimachine
- 1 Tool Cutting Sripa

**HANDLING**

8 Standlev bridges	power 2000 to 5000 kg
1 moving bridges	power 1500 kg
1 carriage Fenwick	power 2000 kg
1 carriage Fenwick	power 2500 kg



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### **ERMO VIRE**

Rue du Val fleuri

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### **CAD / CAM**

9 Workstations (Cadkey V 7.5, Pro-engineer Wildfire II, Mastercam Work NC).

### **MILLING**

	Workingsize		
	X	Y	Z
1 Millingcentre MAZAK 15/40	500	400	580
1 Millingcentre MAZAK AJV 32-604	1500	700	460
1 Millingmachine HURON J2			
1 Millingmachine DECKEL			
1 Millingmachine DUFOUR			

### **HIGH SPEED MILLING**

1 High speed millingcentre MIKRON HSM 700 (42000 rd/min)	700	550	450
1 High speed millingcentre MIKRON HSM 700	450	350	350
1 High speed millingcentre MIKRON UCP 710 5 axes (18000rd/min)	710	650	600
1 High speed vertical millingcentre MIKRON XSM 400 (42 000rd/min)	400	450	350
1 UGV MAKINO V22 milling centre + EROWA Robot	330	280	300
1 High speed millingcentre MAKINO A61 horizontal			
1 High speed UGV MAKINO E33 + Robot EROWA	330	280	300

### **LATHERING**

1 HYUNDAI HIT 18 S	180	510	
1 HYUNDAI HIT 8 S	100	290	
1 HYUNDAI HIT 200 M	180	300	
1 CAZENEUVE HB 500			
1 OKUMA Bultus B300C			

### **SPARKING**

1 EDM machine A65R SODICK	650	450	350
2 EDM machine EDNC30 MAKINO + ROBOT EROWA	300	250	250
1 EDM machine MAKINO EDNC43 S	450	350	350
1 EDM machine CHARMILLES ROBOFORM 30	300	200	300
1 EDM machine ONA compact 30	250	150	150
1 Wire cutting machine UP 53 I MAKINO	520	370	320
1 Wire cutting machine SODICK A 325 MK 25	350	250	220
1 high speed drilling machine NOVOTEC - SD 1014			

### **GRINDING**

1 JAKOBSEN SJ 618	400	150	250
1 JAKOBSEN SJ 1832	800	500	300
1 JONES SHIPMAN 540	450	150	200
1 Flat grinding OKAMOTO	500		250
1 Cylindric grinding GER machine	200		800
1 Cylindric grinding STUDER S 31 CNC	280		1150



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2/2

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**DIMENSIONAL CONTROL**

- 1 TRIMOS, ROCH & MITUTOYO column measuring machine
- 1 EROWA PRESET 3D MM7000 palletisation system
- 1 MITUTOYO design projector
- 1 MITUTOYO measuring microscope
- 1 MITUTOYO BHN 706 three dimensional measuring machine
- 1 DERBY three dimensional measuring machine
- 1 VORTEX 6N.m measuring machine
- 1 3D EROWA measuring machine
- 1 steel hardness testing machine

**BENCH SECTION**

- 1 R 40 radial drilling machine
- 1 MICROCUT I 340 parallel lathe
- 1 DEMURGER RP 200 mechanical saw
- 1 NSK electric polishing machine
- 1 Cold welding machine
- 1 PEMAMO MDR 120 E
- 1 ECOLASER laser welding machine

**DRILLING**

Drilling machines  
Boring machines

**MOULDING MACHINES**

- 1 ENGEL 300T moulding machine
- 1 DK 140T bi-component moulding machine
- 1 ENGEL 300T bi-component moulding machine
- 1 NETSTAL 420 T bi-component moulding machine
- 1 BILLION 550T bi-component moulding machine
- 1 Portable injection
- 1 MOLD MASTER E-MULTI mobile unit



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**ERMO ALENCON**

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**CAO / FAO**

- 2 Catia V5 workstations
- 1 UNIGRAPHIC workstation
- 1 WORK NC workstation

**MILLING**

	Workingsize		
	X	Y	Z
1 Millingcentre Mazak AJV 35/60 - 3 axis	1500	750	550
1 3 Axis Millingmachine Mazak VQC 15/40	560	410	350
1 4 Axis High Speed Millingcentre HERMLE C 800 U UGV 36 000T	800	600	500
1 5 Axis Millingmachine Alcor 222 B Selca 3000	1500	550	550
1 3 Axis Millingmachine Alcor 220 Visue	750	450	300
1 3 Axis High Speed Millingmachine Ferrari A13 S12005	650	320	200
1 5 Axis CNC Millingcentre Mazak 6 Variaxis 630	630	765	600
1 5 Axis CNC High Speed Millingmachine HERMLE C1200U. UGV 18 000T	1200	800	500
1 3 Axis CNC Millingmachine MYNX 650 / 50	1300	650	700
1 Millingmachine DECKEL MAHO D MU50 EVO + ROBOT	500	400	400
1 Millingmachine HURON VX8	820	510	510

**SPARKING**

	Sinksize			Workingsize		
	X	Y	Z	X	Y	Z
1 EDM machine Agie Innovation III CN + Axis C	1000	700	650	500	350	500
1 EDM AGIE Innovation 2 + robot (see here under)	550	350	240	350	250	350
1 EROWA ERC 66 electrodes and 15 ITC 148 robot						
2 EDM machine A35R sodick CN + Axis C	780	550	300	350	250	270
1 EDM machine Charmilles Roboform 51 CN + Axis C	1200	850	400	600	400	450
1 EDM MITSUBISHI MV 2400 R	1050	820	305	600	400	310

**GRINDING**

	Height 175 EP (Length) 500		
	X	Y	Z
1 Internal grinding DANOBAT R 500	800	450	400
1 Jakobsen SJ 1432	450	200	350
1 Monoprécis 114 SX optidress E + visu 2 axes	450	150	400
1 Jones & Shipman 540 X	450	150	400
1 Jones & Shipman 540H optidress E + visu 2 axes	450	150	400
1 Lipemec PLTH 400 optidress E + visu 2 axes	400	250	300
1 Monoprécis 1 DR optidress E + visu 2 axes	320	180	300
1 LGB R16090M	1500	850	450

**LATHERING**

1 Lacer CR 215	200	200	1000
1 Cazeneuve 360 HBX	180	180	750

**DIMENSIONAL CONTROL**

- 1 control by coordinates WENZEL - XO 55
- 1 MITUTOYO PJ 300
- 1 Height column measuring machine MITUTOYO
- 1 Height column measuring machine MAHR

**DRILLING**

- 1 Ixion TL 600
- 3 Column drilling machines
- 2 Drilling machines

**OTHERS**

- 1 saw Kasto BSM 323
- 1 saw GUINOT S400
- 1 welding machine ARGON - TIN
- 1 saw optimum

**HANDLING**

- 1 carriage Fenwick
  - 2 Standlev bridges 5T
  - 1 Standlev bridges 1T
  - 1 IVECO truck - 35,8
- power 2000 kgs



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**ERMO POLAND**

UL. PIESZYCKA 58-200 DZIERZONIOW  
**POLOGNE**

Tel : (00) 48.74.645.76.87

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**CAD / CAM**

- 1 EdgeCam 3D

**MILLING**

	Courses Machine		
	X	Y	Z
1 Millingcentre FEELER FV100A	1000	500	550
1 Millingmachine CN HURON KX 10	1000	700	550
1 Millingmachine MAHO 900 C MH C	900	500	600
1 Millingmachine Ferrari A13 S1200	100	450	900
1 Millingmachine DMC 50V	400	700	450
2 Millingmachines DMC 1030 ECO	1035	555	510

**LATHERING**

1 Gildemesters CTX 400	250	500
1 CN SONIUM T10 SAPHIR II	60	200
1 CN TRAUB	200	600
1 Conventiional Lather JESSEY CHAMPION with visualisation	390	1000

**GRINDING**

1 Flat grinding machine JAKOBSEN SJ824	200	500	300
1 Flat grinding machine JAKOBSEN SJ1432	400	800	600
1 MONOPRECIS	200	150	150

**SPARKING**

	Workingsize		
1 Wire cutting machine ROBOFIL 310	400	250	400
1 EDM Machine AGIE EMS 220	400	250	250

**DRILLING**

- 1 Radial Drilling machine ALPHA ZN 3040x16
- 1 Drilling machine ARFA RS-401 VS
- 1 Drilling machine SYDERIC Type S13

**DIMENSIONAL CONTROL**

- 1 Height columned measuring machine TESA HITE PLUS D 600
- 1 DIALESSIO 400
- 1 3D ETALON DERBY measuring machine

**OTHERS**

- 1 engraving machine PROPEN P3000
- 1 saw BMSY 280 D500
- 1 saw EVERISING S-12 AA D300
- 1 bridge 6000 kgs
- 1 electric carriage Fewwick JUNGHEINRICH 1500 KGS