



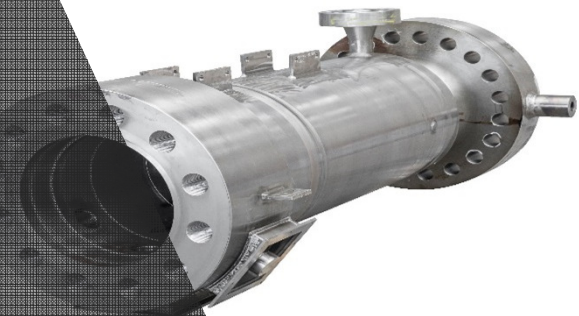
MANUFACTURING CAPABILITIES

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METAL-MECHANIC SOLUTIONS

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| Qty | Description | Size (mm) |
|-----|--|--------------------|
| | <u>1st PRODUCTION LINE : PROTOTYPE / UNIT / SMALL BATCHES</u> | |
| 1 | HERMLE C50 UMT CNC (5 axes with turning capacity) | 1000 x 1000 x 950 |
| 1 | HONOR SEIKI VL – 1600M (Vertical lathe CNC with milling capacity) | Ø 2000 x 2000 |
| 3 | MAHO DMU 80 CNC (3 axes machining centers) | 850 x 600 x 600 |
| 1 | MAHO DMU 103V CNC (3 axes machining centers) | 850 x 600 x 600 |
| 1 | CORREA A30 CNC (milling machine) | 5000 x 1500 x 1200 |
| 1 | CORREA CF-17 CNC (milling machine) | 2000 x 650 x 500 |
| 1 | JUARISTI TX3 CNC (boring machine) | 3000 x 3000 x 3000 |
| 1 | NEW : JUARISTI TX35 CNC (boring machine) | 3000 x 2000 x 2000 |
| 1 | TOS WH (Q) 105 CNC (boring machine) | 2000 x 1600 x 2100 |
| 2 | GILDEMEISTER CN500 CNC (turning center) | Ø 700 x 2000 |
| 1 | GEMINIS 5 PLUS CNC (turning center) | Ø 1050 x 3000 |
| 1 | DOOSAN PUMA 700 CNC (turning center) | Ø 1000 x 3000 |
| 1 | DANOBAT GER (external and internal grinder) | Ø 400 x 1600 |
| 1 | DANOBAT 1600-RP (surface grinder) | 1000 x 500 x 350 |
| 1 | MAZAK CNC (turning center) | Ø 400 x 2000 |



| Qty | Description | Size (mm) |
|-----|--|--------------------|
| | <u>2nd PRODUCTION LINE : SMALL & MEDIUM SERIES</u> | |
| 3 | MAZAK FH6800 CNC (4 axes horizontal machining centers) | 800 x 900 x 980 |
| 1 | MORI SEIKI NH6300 CNC (4 axes machining center) | 1000 x 1000 x 1300 |
| 1 | MORI SEIKI SH 403 CNC (4 axes machining center) | 560 x 560 x 630 |
| 1 | MORI SEIKI NH 4000 CNC (4 axes machining center) | 560 x 510 x 430 |
| 1 | HURCO VMX64 CNC (4 axes machining center) | 1625 x 860 x 760 |
| 1 | MORI SEIKI SL400 CNC (turning center) | Ø 650 x 860 |
| 2 | MORI SEIKI NL2500 CNC (turning center) | Ø 540 x 700 |
| 2 | NEW : MAZAK SMOOTH HNC 8800 (4 axes machining centers) | Ø 1400 x 1200 |
| | <u>3rd PRODUCTION LINE : METALLIC & RESIN PATTERNS FOR FOUNDRIES (SERIES)</u> | |
| 1 | MAZAK VTC300C (4 axes horizontal machining center) | 2000X900X700 |
| 1 | AWEA 2012 | 2000 x 1200 x 600 |
| 1 | NEW : AWEA 2012 | 2000 x 1200 x 600 |



| Qty | Description |
|-----|---|
| | <u>WELDING OPERATIONS</u> |
| 2 | Welding machines (DC/AC) MIG/MAG/GTAW |
| 2 | Welding machines DC SMAW |
| 1 | PILMAN Inverter TIG Weld HF Pulse |
| 2 | FRONIUS TIG Weld |
| 1 | Welding Positioner 1 T |
| 1 | Welding Positioner 5 T |
| 1 | FLAT Welding Positioner 10 T |
| 2 | Roller 3,5 T |
| 1 | Crane 20 T |
| 1 | Portable Ovens |
| 1 | Heated and Controlled Room for Consumable |
| 1 | Oven for Filler Metal (Electrodes) |





NEW : ELECTRO EROSION (LARGE PARTS)

| Qty | Description | Size (mm) |
|-----|---|--------------------|
| | <u>ELECTRICAL DISCHARGE</u> | |
| 1 | NEW : ONA electrical WEDM AF-130 (wire erosion) | 2000 x 1300 x 600 |
| 1 | ONA electrical discharge machine (wire erosion) | 700 x 700 x 1000 |
| 1 | ONA electrical discharge machine (die sinking) | 700 x 700 x 1000 |
| | <u>HARDENING</u> | |
| 1 | Induction hardening machine (for Pulleys) | Ø 600 x 400 |
| | <u>CLEANING</u> | |
| 1 | Aqua clean Industrial washer | 1200 x 1200 x 1200 |
| | <u>VARIOUS</u> | |
| | Auxiliary machines (drilling, tapping, marking, tap desintegrator, etc....) | |





| Qty | GEOMETRIC & DIMENSIONAL CONTROL | Size (mm) |
|-----|---|--|
| 1 | Automatic 3D CMM GLOBAL | 2500 x 2500 x 1400 |
| 1 | Automatic 3D CMM Brown & Sharpe (3) | 1500 x 1000 x 900 |
| 1 | Digital Measuring Column MAUSER V5 O6 | |
| 1 | Roughnees tester HOMMEL ETAMIC W20 | |
| 2 | Mitutoyo roughness tester SURFTEST-301-mod | |
| 1 | Future-tech microhardness tester FM700 A mod | |
| | All type of manual measuring equipment (internal and external micrometers.....) | |
| | NON DESTRUCTIVE TESTING | |
| | Certificate of Visual and Liquid Penetrant Inspection Level II. Scope: Castings, forgings and welds | Method MSS-SP-55/ASME V Art. 9 Standard SNT-TC-1A |
| | Certificate of Liquid Penetrant Examination Level II. Scope: Castings, forgings and welds. Visible & Fluorescent technique | Method ASTM E165/ASME V Art 6 Standard SNT-TC-1A UNE-EN-ISO 473 & 9712 |
| | PRESSURE TEST | |
| 1 | Automatic Valves Test Bench | Up to 12" ANSI 300 |
| 1 | Manual Test Bench | Up to 15000 PSI (1050 bars) |