

**DIVISION RESEARCH & DEVELOPMENT**



**ATTAX**

6 rue des entrepreneurs  
 F-78420 CARRIERES-SUR-SEINE  
 FRANCE  
 Tél : + 33 1 61 04 50 50  
 Fax : +33 1 61 04 05 01

**PRESSES WORKSHOPS**

- 10 vertical presses 6 to 63 Tons
- 5 multiple slides presses type MRP de 6 à 15T
- 4 multiple slides presses BIHLER RM25
- 13 multiple slides presses BIHLER RM35
- 1 multiple slides presses BIHLER GRM50
- 2 multiple slides presses BIHLER GRM80
- 2 multiple slides presses BIHLER MACH I
- pendulum presses
- 1 pneumatic press 4 Tons at 6 bars
- 1 automatic crimping machine equipped with pneumatic press of 2,8 Tons at 6 bars
- 1 quenching and hardening-tempering oven BOREL

**PROTOTYPING WORKSHOP**

- 1 electrical discharge machine AGIE
- 8 pendulum presses 2 Tons to 20 Tons

**MECHANICAL WORKSHOP**

- 2 milling machines
- 1 turning machine
- 2 plane grinding machines
- 1 gritter
- 2 pilar drilling machines
- 1 deburring machine
- 1 deburring tank
- 1 degreasing fountain
- 1 quenching and hardening-tempering oven
- 1 arc welding and soldering outfit

**WIRE WORKSHOP**

- 1 electrical gauge machine HERCKELBOUT TC60
- 3 electrical gauge machines HERCKELBOUT PR8
- 1 electrical gauge machine HERCKELBOUT TE5
- 2 electrical gauge machines HERCKELBOUT AO25
- 1 electrical gauge machine MACK MS8
- 3 electrical gauge machines ITAYA MCX20
- 1 electrical gauge machine ITAYA MCX30
- 1 electrical gauge machine ITAYA MCX15
- 1 electrical gauge machine ITAYA PC35
- 1 electrical gauge machine BOBIO BSE200
- 3 automatic grinding machines
- 4 electronic calibrators with automatic sorting
- 3 welding outfits

**TOOLING WORKSHOP**

- 1 diesinking machine Charmilles
- 3 electrical discharge machines FANUC, AGIE classic 2S
- Designing station equipped with GÖELAN software
- 3 universal milling machines equipped with dimensions visualisation tool
- 2 turning machines
- 3 plane grinding machines
- 2 drilling machines
- 1 band saw
- 2 manual thread cutters
- 1 tooling oven
- Traditional control tools

**MEASURING AND QUALITY TOOLS**

- 1 tridimensional video measuring machine DELTEC
- 1 high speed numeric projector ICM200
- 5 profil projectors ORAMA (magnifier: X 10 to X 100)
- 1 hardness measuring machine Vickers
- 2 hardness measuring machine Rockwell
- 2 tensil/compression testing machines with 3 measuring cells ( 25N / 500 N / 2500 N) and Emperor software
- 1 traction/compression machine from 8kN to 400kN – Classe II
- 1 torque/angle measuring machine
- Common measuring devices (sliding calipers, comparators, micrometers, gauge blocks, etc)

**OTHERS**

- 5 roller sorting machines
- 2 deburring tank