



Tooling Room

COMPUTERS and SOFTWARE

- Auto CAD R14 & R2002 & 2004
- CADKEY97 (Release 2.01)
- CIMATRON CAD / CAM (Version 10.0)
- MASTERCAM (Version 9.2)
- Mechanical Desktop V3
- Mold Creator V3
- Pro-E R2001 & Pro-E Wildfire 2.0
- Mold Flow 4.1
- UG NX 2.0
- Solid Works 2004
- CATIA V58

LOADING

- 7.5 Ton H type loading Crane

CNC MACHINE CENTERS

- 1 "Hartford" CNC Machine Center VMC-850 with Mitsubishi Controller M5.5 800 x 500 mm
- 1 "Rambo" CNC Machine Center RM1060 with Mitsubishi Controller M6.4 1000 x 600 mm
- 1 "Okuma" High Speed CNC Machine Center S15 package MX-55VAR 1050 x 560mm
- 1 "Mytron" CNC Machine Center HSM147A with Mitsubishi Controller M6.4 1400 x 700 mm
- 1 "FANUC" Brand ROBOBRILL High Speed CNC Drill Center Model: a-T14iDe with FANUC 18i-MB
- 1 "Mori Seiki" High Precision Vertical Machining Center MV-653/40 1700 x 660 mm

MILLING MACHINES with digital read-out

- 2 Batar Vertical Milling machines
- 2 Da Tong CM Vertical Milling machines
- 6 Manford Vertical Milling machines
- 4 Kondia FV 1 Vertical Milling machines
- 3 Ricko Vertical Milling machines
- 1 Yin Sin YSM-860S Vertical Milling machines

EDM

- 1 Batar CD-30M V-30A (320 x 400 x 880 mm)
- 1 ARD V-30A (330 x 550 x 850 mm)
- 1 Shaniu SE-320 V-30A (340 x 500 x 1000 mm)
- 1 Wing V-30A (360 x 580 x 1300 mm)
- 1 Batar CM-360 V-50A (370 x 560 x 1100 mm)
- 1 Master ZNC-T60A V-60A (370 x 650 x 1250 mm)
- 1 Master Pro-T69A V-60A (380 x 580 x 1280 mm)
- 1 Topedm DE860 V-75A (500 x 600 x 800 mm)
- 1 SUPER-650+ZNC 90A (300X500X600 mm)
- 3 SUPER-430+ZNC 60A (200X300X400 mm)
- 1 AGIETRON STAR 20 (630X400X165 mm)
- 1 Topedm CNC EDM Machine CNC-1890 (1800x900x550 mm)
- 1 Winner Super Drill EDM YD-35 (Dim. 0.3 ~ 3mm) (600 x 300 mm)

WIRE-CUT MACHINES

- 1 Gold San GS-IIB/DK40 (400 x 500 x 500 mm)

- 1 Sodick BKDC Controller DK7725e (250 x 350 x 400mm)

SURFACE GRINDING MACHINES

- 2 Kent KGS - 200 Horizontal surface grinders
- 1 Ricko JL618 Horizontal surface grinder
- 2 Batar FSG618 Horizontal surface grinder
- 1 Tatung-Okuma OMA-350 precision surface grinding machine
- 1 HangZhou M7140H Horizontal surface grinding machine
- 1 Okamoto ACC-350 ST precision surface grinding machine
- 1 Okamoto ACC-450 ST precision surface grinding machine

ENGRAVING MACHINES

- 1 Friedrich Deckel Aktiengesellschaft GK2
- 5 Yun Nan Engraver model 42222A

DRILLING MACHINES

- 3 Hangchog Bench drilling machines/Z512B - Dim. 13mm
- 1 Dachong drilling machine/Z3725 - Dim. 25mm
- 1 Datong drilling machine M7
- 1 Taipin drilling machine TPR-820A - Dim. 38mm
- 1 Wing drilling machine RF-30
- 1 Worldwide Horizontal Deep Hole drilling machine DHD 1007-10SL – Dim 4 ~ 25mm

LATHES

- 1 Jinan No. 1 Gap Type Lathe / J-Mazak-mate (360 x 570)
- 1 J-Mazak-mate Type Lathe / G6218 (360 x 570)
- 1 YunNan Gap Type Lathe / G6240 (400 x 750)
- 1 GuangChou Gap Type Lathe / G6240 (460 x 750)

TEST MACHINES

- 1 CMM Aberlink Zenith CNC High-speed, Large volume Co-ordinate Measuring Machine with CCD Camera System
- 1 Minolta Spectrophotometer CM-3500d
- 1 Rockwell Hardness Tester HR-150A
- 1 Microscope Mitutoyo / 1050
- 1 Height Gauges Mitutoyo / 300
- 1 D-M-E Mold Finish Comparisons
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MODEL MAKING

- 1 “Stratasys” Dimension Fused Deposition Molding (FDM) Machine

MISCELLANEOUS

- 1 Cutting-off Machines (Ejector Pin Cutter)
- 1 Band Saw / Type RF-115
- 1 Sanwa Supersonic Lapping Machine Laptron 55R
- 1 Wintec Ultra-precision Mold Padding Welder WELD PRO SW-V01

***List current as at April 2006.**