

# *Season* COMPONENTS

## TOOLING ROOM EQUIPMENT LIST

As at February 2007

### COMPUTER AND SOFTWARES

- Auto CAD R14 & R2002 & 2004
- CADKEY97 (Release 2.01)
- CIMATRON CAD / CAM (Version 10.0 & 12)
- MASTERCAM (Version 9.2)
- Mechanical DesktopV3
- Mold Creator V3
- Pro-E R2001&Pr0-E wildfire2.0 & 3.0
- Mold Flow 4.1 & 5.1
- UG NX 4.0
- Solid Work 2007
- CATIA V58 R16
- Power Shape 7
- Power Mill 7

### 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 ROBO DRILL High Speed CNC Drill Center Model:  $\alpha$  -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

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## EDM

1	ARD V-30A	330 x 550 x 850 mm
1	Shaniu SE-320 V-30A	340 x 500 x 1000 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-540 + 2NC 75A	300 x 500 x 540 mm
1	SUPER-650+ZNC 90A	300 x 500 x 600 mm
4	SUPER-430+znc 60a	200 x 300 x 400 mm
1	AGIETRON STAR 20	630 x 400 x 165 mm
1	Topedm CNC EDM Machine CNC-1890	1800 x 900 x 550 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
1	First DK7763 FTX	630 x 800 x 500mm

## 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 4222A

## 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

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## 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

## MODEL MAKING

1	Stratasys Dimension Fused Deposition Molding (FDM) Machine
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## 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