

Creative Group

Plant List 2011



CNC TURNING

Dugard Eagle 100 2 axis Lathe

Maximum Cutting Diameter – \varnothing 260mm Length – 290mm

Dugard Eagle 100 2 axis Lathe – Automatic Bar feed

Maximum Cutting Diameter – \varnothing 260mm Length – 290mm

Dugard Eagle NL200Y 4 axis Mill-Turn

Maximum Bar Size \varnothing 67 x 1000mm

Maximum Cutting Diameter- \varnothing 350mm Length – 600mm

CNC MILLING

Dugard Eagle Mill 660 – Vertical Machining Centre

Maximum Travel	X	660mm	Maximum Table Load	500 Kg
	Y	530mm		
	Z	510mm		

Dugard Mini Mill 450 – Vertical Machining Centre

Maximum Travel	X	660mm	Maximum Table Load	150 Kg
	Y	350mm		
	Z	380mm		

MANUAL MACHINES

Manual Machinery

Turning Capacity
1 off – \varnothing 600mm x 1200mm long
2 off – \varnothing 450mm x 500 mm long
1 off - \varnothing 200mm x 300mm long

Milling Capacity Bridgeport Universal Mill

Surface Grinder 300mm x 150mm

ELECTRON BEAM WELDING

4 off - Wentgate Electron beam welders

- Chamber sizes - from 150mm x 175mm x 200mm to 300mm cube
- Kv - from 50 to 60
- mA - from 20 to 40
- All machines have high vacuum pumping systems.

1 off – Thermatec touch screen PLC controlled electron beam welder.

- Chamber size – 750 mm cube
- Kv – 65
- mA – 45
- High vacuum pumping system

All machines are fitted with circle generators.

VACUUM BRAZING AND HEAT TREATMENT

3 off Wentgate vacuum furnaces

- Hot zone working area – from \varnothing 150mm x 225mm long to \varnothing 400mm x 600mm long
- Vertical and horizontal
- Maximum temperature 1200°C
- High vacuum pumping systems
- Inert gas facilities

2 off Creative Group vacuum furnaces

- Hot zone working area – \varnothing 400mm dia. x 600mm long
 - Horizontal
 - Touch screen control with software for NADCAP
 - Maximum temperature 1200°C
 - High vacuum pumping systems
 - Inert gas facilities
 - Chart recorders for temperature and vacuum levels.
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TIG WELDING

3 off Murex transtig AC/DC 353IS machines.

- Powered turntables
 - Water cooled torches.
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RESISTANCE WELDING

Resistance welder

Forward Precision Equipment Ltd. machine with WELTOUCH CT-110B controller

ORBITAL WELDING

Orbital welder

Cajon welding systems D75

INSPECTION

Micro hardness tester

Leybold UL500 Mass Spectrometer

Shadow Graph

Leybold PhoenixL 300 modul Mass Spectrometer

Mitutoyo Surface finishes gauge

TESA Visio 300 optical CMM

Olympus measuring microscope

various verniers, micrometers etc.

TESA Micro-hite 3D CMM

MISCELLANEOUS

Fly presses - 5 off

Band saw

Ultrasonic cleaning baths

Grit blasters, Vixen Surface Treatments Jetair

Muffle furnace

Induction brazing machine
