

# ANOTRONIC LTD.™



## Capacity List

Capacity List:

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## Capacity List:

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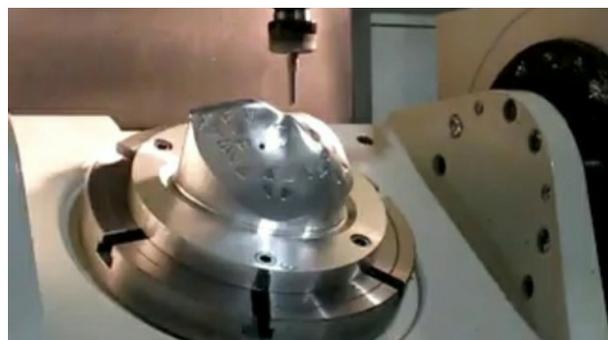
### **VM10U\_1\_v8 software + Renishaw OMP40 and NC3 LASER**

The VM10U combines the efficient design of the popular VM Series with the advanced 5-axis technology only available with the integrated Hurco control. Efficient design yields a machining centre with a compact footprint and an extraordinarily large work cube. Our advanced 5-axis technology simplifies production of complex multi-sided parts. And the VM10U is designed to be a true 5-axis, unlike many competitive models that simply attach a trunnion table to a 3-axis machine.



### **VM10U\_2\_v8 software + Renishaw OMP40 and NC4 LASER**

The VM10U combines the efficient design of the popular VM Series with the advanced 5-axis technology only available with the integrated Hurco control. Efficient design yields a machining centre with a compact footprint and an extraordinarily large work cube. Our advanced 5-axis technology simplifies production of complex multi-sided parts. And the VM10U is designed to be a true 5-axis, unlike many competitive models that simply attach a trunnion table to a 3-axis machine.



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## Capacity List:

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### **VMX 30HT + Renishaw OMP40 and NC3 LASER + Nikken 4th Axis**

The VMX30 is designed with the largest travels in its class (762x508x610 mm). It's also built to handle the demands of shops needing big output but having only limited space.

The high-speed feed rates ensure superior finish quality and Hurco's control system makes the VMX30 a machine with far more capability and capacity than those costing significantly more. It's also an ideal platform for Hurco's optional rotary tables for applications requiring 4th axis capabilities.

The 24-station automatic tool changer goes from tool to tool in three seconds. That's just more evidence that the VMX30 is about speed as much as it is power.



### **VM10 + Renishaw probing.**



The VM10 is the fastest growing vertical machining centre in the UK because of its perfect combination of size and functionality. It has the smallest footprint and large capacity for efficient machining and productivity. Machine is fitted with full Hurco options including NC merge and Renishaw Probing. The 660x406x508 mm work envelope in a 1.8x1.6m working footprint makes the VM1 very attractive for most applications.

### **VM2**

The VM2 is a legitimate 1060mm X-travel machine. It's ideal for manufacturing long parts while not demanding excessive floor space.

It is a solidly built, one-piece machine base that comes standard with a 40 taper, 8,000 RPM spindle. It also has a 16-pocket, swing-arm tool changer.

It comes Standard with Hurco's Max control, making it one of the most flexible machines on the market.



## Capacity List:

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### **VM1/16 fitted with Nikken 4th Axis Table and Renishaw probing.**

Hurco's VM1 machining centers have become the fastest growing machines in their class. The VM1's popularity comes from an extraordinarily large work cube and small footprint, plus the versatile, easy-to-use MAX control. The 16-station, swing-arm, automatic tool changer keeps the tools out of the work envelope. The 10,000 RPM spindle is more than enough to cope with today's industry demands.



### **VM1/20 fitted with Renishaw probing.**

Hurco's VM1 machining centers have become the fastest growing machines in their class. The VM1's popularity comes from an extraordinarily large work cube and small footprint, plus the versatile, easy-to-use MAX control. The 16-station, swing-arm, automatic tool changer keeps the tools out of the work envelope. The 10,000 RPM spindle is more than enough to cope with today's industry demands.

### **VMX 42HS + Renishaw OMP40 and NC3 LASER + Nikken 4th Axis**

The VMX42 is designed with the largest travels in its class (1062x610x610 mm). It's also built to handle the demands of shops needing big output but having only limited space.

The high-speed feed rates ensure superior finish quality and Hurco's control system makes the VMX42 a machine with far more capability and capacity than those costing significantly more. It's also an ideal platform for Nikken's optional rotary tables for applications requiring 4th axis capabilities.

The 24-station automatic tool changer goes from tool to tool in three seconds. That's just more evidence that the VMX42 is about speed as much as it is power.



## Capacity List:

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**Matsuura MX520 5 Axis machining Cell + Renishaw MP700 Probe and NC4 LASER + fully integrated to a Lang 60 Pallet Eco Tower with Fanuc G-Tech 30i Control.**



### **Matsuura MX-520 / G-Tech 31i Control**

10.4" (LCD/Colour Screen)

40 Tool ATC Magazine (Chain Type)

5 Axis Integral Unit with a 300 mm Dia Work Table

520 mm Diameter x 350 mm High Work Piece Size

Maximum Workpiece Weight of 150 kg

Axis Movements: X, 630 mm / Y, 560 mm / Z, 510 mm

4th and 5th Axis Movements: A, +10° to -125° / C, 360°

Scale Feedback on A and C Axes

Ethernet Interface, NC Memory 0.5MB

IZ-1/15F Incl' AI Contour Control (High Feedrate Control)

20,000 rpm, BT40 Big Plus Spindle

20 Bar High Pressure Coolant through the Spindle (Pall Filter)

Renishaw MP700 Spindle

Renishaw NC4 Laser Tool Breakage Detection Probe £ 6,811

**- 5 Axis Package incl' High Speed 5 Axis Software:**

IZ-2/150NF Incl' HPCC RISC for High Speed Machining in 5 Axis

Large Memory Function, 1GB Data Server

Look Ahead Block Expansion 1,000 pcs

NANO Smoothing Software

Optimal Torque Acceleration / Deceleration

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## Capacity List:

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**Matsuura MX520 5 Axis machining Cell +  
Renishaw MP700 Probe and NC4 LASER + fully  
integrated to a Lang 10 Pallet Eco Table with  
Fanuc G-Tech 30i Control.**



### **Matsuura MX-520 / G-Tech 31i Control**

10.4" (LCD/Colour Screen)

60 Tool ATC Magazine (Chain Type)

5 Axis Integral Unit with a 300 mm Dia Work Table

520 mm Diameter x 350 mm High Work Piece Size

Maximum Workpiece Weight of 150 kg

Axis Movements: X, 630 mm / Y, 560 mm / Z, 510 mm

4th and 5th Axis Movements: A, +10° to -125° / C, 360°

Scale Feedback on A and C Axes

Ethernet Interface, NC Memory 0.5MB

IZ-1/15F Incl' AI Contour Control (High Feedrate Control)

12,000 rpm, BT40 Big Plus Spindle

20 Bar High Pressure Coolant through the Spindle (Pall Filter)

Renishaw MP700 Spindle

Renishaw NC4 Laser Tool Breakage Detection Probe

**- 5 Axis Package incl' High Speed 5 Axis Software:**

IZ-2/150NF Incl' HPCC RISC for High Speed Machining in 5 Axis

Large Memory Function, 1GB Data Server

Look Ahead Block Expansion 1,000 pcs

NANO Smoothing Software

Optimal Torque Acceleration / Deceleration

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Capacity List:

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# HURCO®

## VMX60SRTi XP 16K RPM 5 Axis Machining Centre



### Capacity

X, Y, Z axis Travel 1524 x 660 x 610mm

Table Working Surface 1,680 x 660mm

Rotary Table Working surface Ø 600mm

Table T – Slots 6 off x 18mm @ 100mm centres

Tilt Axis B +92° / -92°

Rotary Axis C 360° continuous

Maximum Machine/ Rotary Table Load 1,360 Kg / 500Kg

Spindle Nose to Table (min-max) 12mm / 622 mm

Coolant capacity with conveyor 848 litres

### Spindle

Spindle Taper CAT/BT/DIN 40

Spindle Speed 16,000 RPM with spindle chiller

Spindle Motor Horsepower (1 min. rating) 48 HP (36.5 kW)

Spindle Motor Torque (1 min. rating) 120 Nm @ 2,900 RPM

## Capacity List:

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### **DMG CTX310 V1 SIEMENS 810D CONTROL PROBING, PARTS CATCHER AND BAR PACKAGE.**

Standard equipment CTX 310 V1 *eco* Universal Turning Machine with CNC control, *SLIMline*<sup>®</sup> Panel with a 15" TFT screen SIEMENS 810D powerline with ShopTurn, VDI 30 tool revolver with 12 tool stations, automatically traversable tailstock, linear guides, chip tray, hydraulic 3 jaw chuck  $\varnothing$  210mm in. and a hollow clamping device with  $\varnothing$  52mm bar passage, Parts Catcher and Bar Package.



### **DMG CTX310 V1 SIEMENS 810D CONTROL PROBING, PARTS CATCHER AND BAR PACKAGE.**

Standard equipment CTX 310 V1 *eco* Universal Turning Machine with CNC control, *SLIMline*<sup>®</sup> Panel with a 15" TFT screen SIEMENS 810D powerline with ShopTurn, VDI 30 tool revolver with 12 tool stations, automatically traversable tailstock, linear guides, chip tray, hydraulic 3 jaw chuck  $\varnothing$  210mm in. and a hollow clamping device with  $\varnothing$  52mm bar passage, Parts Catcher and Bar Package.



### **DMG CTX510 V3 SIEMENS 840D CONTROL MILL/TURN, PROBING,**

Standard equipment CTX 510 V1 Graziano Universal Turning Machine with CNC control, *SLIMline*<sup>®</sup> Panel with a 15" TFT screen SIEMENS 840D powerline with ShopTurn, VDI 40 tool revolver with 12 tool stations all driven, automatically traversable tailstock, linear guides, chip tray, hydraulic SMW 3 jaw chuck  $\varnothing$  460mm in. and a hollow clamping device with  $\varnothing$  102mm bar passage.



## Capacity List:

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The Alpha Plus 330S has the power (10HP/7.5kW), accuracy, repeatability and performance to produce batch quantities of both simple and complex components while providing unrivalled ease-of-use to its operators. With four modes of operation, including manual, semi-automatic, AlphaLink and full Fanuc G-code programming, this user-friendly lathe is productive from day one.

Built to **Harrison's** uncompromising world-class standards, the **Alpha Plus 330S** incorporates Class 9 Gamet taper roller spindle bearings, 1" precision ballscrews and full digital motors, drives, control and ultra thin flat screen from *Fanuc*.



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Capacity List:

## CNC Wire Erosion (WEDM)

### Mitsubishi MV1200R AWT 5 axis automation ready WEDM

Compact size wire cut EDM machine. High speed, precision and accuracy.

Travel (X / Y / Z) in mm 400 / 300 / 220 6

Travel (U / V) in mm 120 / 120 (+/- 60)

Taper angle (workpiece height) in °/mm 15 / 200  
30 / 87

Max. workpiece dimensions (W x D x H) in mm 810  
x 700 x 215

Max. workpiece weight in kg 500

Table dimensions (W x D) in mm 640 x 540

Table layout Hardened 4-side frame table  
Hardened 4-side table

Possible wire diameters in mm 0.1–0.3

Wire spool capacity in kg 10

Automatic wire threader / wire chopper Yes / Yes

Overall dimensions (W x D x H) in mm 2025 x 2760  
x 2015

Machine weight in kg 2700

Mains voltage 3-phase 400 V/AC ± 10 %, 50/60 Hz,  
13 kVA



## Large CNC Wire Erosion (WEDM)

**Sodick AG600LH AWT 5 axis LINEAR WEDM Controller (automation ready)**



### AG600LH Specifications

Max. Workpiece Weight 1,000 kg  
Work Tank Inner Dimensions (W x D)  
X Axis Travel 600mm  
Y Axis Travel 400mm  
Z Axis Travel 500mm  
U x V Axis Travel 120mm x 120mm  
Taper Angle  $\pm 25^\circ$   
Wire Diameter 0.05mm-0.3mm  
Wire Tension 200g - 2800g  
Max. Wire Speed 420mm/s  
Distance from Floor to Table Top 995mm  
Machine Tool Dimensions(W x D x H) 2,785 x 2,710 x 2,690 mm  
Machine Tool Weight 5,100 kg  
Total Power Input Normal: 15 kVA

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## Spark Eroding

### **CNC LINEAR EDM (EDM)**

#### **Sodick AQ35L 4 axis EDM**

##### **LN1 controller**

X / Y axis travel (mm) 350 x 250

Z axis travel (mm) 250

Machine table (W x D, mm) 600 x 400

Dielectric level (min - max, mm) 95-270

Internal dimensions of worktank (mm) 750 x 550 x 320

Max. workpiece weight (kg) 550

Max. electrode weight (kg) 50 (with C axis 10)

Step resolution (mm) 0.0001

Max. positioning speed (mm/s) 5.0

Max. pulsation speed Z axis (m/min.) 36

Table - chuck distance (mm) 212 - 462

Controlled axes 4



##### **HIGHLIGHTS:-**

Ceramic table

Linear glass scales

Linear motor for the X, Y, and Z axes

Automatic fire extinguisher

Cooling system

SVC Circuit

SQ Circuit super quality finish

LAN interface

C axis (4 axes controlled)

C axis SES72 (4 axes controlled)

Electrode changer 5 Position

RS232C interface

Uninterruptible power supply (UPS)

LAN facility

STP mode for carbide machining

"C" axis Resolution (°) 0.001

Rotational speed (min. – max. rpm, continuous) 1 - 20

## Spark Eroding

### CNC EDM (EDM)

#### Anotronic/SKM M430 CNC EDM

##### **Mechanical features:**

The x- and y-axis routine utilizes the direction of the machine head so the work tank is not limited to the weight of the work piece for lasting performance stability.

The X.Y.Z axis Utilizes imported servo motor and high precision linear bearing V-guidway and ball screw to enable consecutive sparking and cutting speed under the best conditions.

The machine head is complete sealed to provide dust resistance, prolonged service life and consistent precision.

Machine head servo utilizes a special bearing design for stability, zero interval and load rate twice as high as conventional units.

Dielectric fluid nozzles built in machine head that efficiently removes debris, saves time and is convenient.

It can be settled with "Balance equipment" for extending maximum electrode weight, protecting the machine head and creating better sensitivity machine head servo.



##### **Basic Functions:**

Innovatively equipped with three types of safety devices, has an infrared fire monitor, oil temperature monitor, automatic fire extinguisher and many other safety design features.

Has an automatic sparking off time adjustment to prevent carbon accumulation and electrode wear.

Sparking gap control to obtain smooth and fine surface finish.

Utilizes a special MOSFET electrical discharge circuit design for rapid speed finishing and reduced electrode wear to enable mould surface polishing and prevent surface hardening.

mirror surface finishing system installed to achieve ultra-fine surface finishing of more than Ra0.2 $\mu$ m.

## Spark Eroding

### MANUAL EDM'S

#### Anotronic/SKM T50 ZNC EDM + ORBITCUT UNIT

Three-axis locations utilizes optical measurement feedback for high precision positioning. The optical measurement resolution can be adjusted in gradations of  $1\mu\text{m}$  or  $5\mu\text{m}$ .

Has unlimited sparking conditions and processing settings.

Has a sparking period servo that supports the active utilization of finishing depth.

Utilizes the most advanced 32-bit industrial-use high speed computer control offering powerful functions and easy operation.

Has metric and inch measurement unit

Optical measurement direction can be set or modified by internal code.

Supports single-hole and multi-hole single-depth or multi-depth automatic fine finishing without requiring program re-write or utilizing programmable multiple depth auto fine finishing.

mirror surface finishing system installed to achieve ultra-fine surface finishing of more than  $Ra0.2\mu\text{m}$ .

Fitted with ORBITCUT unit below



## CNC Orbiting-Cut System



### Features

- To break through traditional restriction
- To upgrade the quality and accuracy of the products
- To increase efficiency and productivity
- To install easily with intelligent design
- Suitable for all kinds of EDM
- Fully tested through shock and vibration testing



## Spark Eroding



## MANUAL EDM'S

### **Anotronic/Maximart V55 EDM + 75 Amp Generator**

Heavily ribbed & tension released "Meehanite" machine frame.  
Z axis precision linear guideway + ballscrew & fitted with Electro-Magnetic brake, driven by high performance D.C. Servo motor.  
X & Y axis precision ballscrews, manual movement.  
Z axis programmable auto rough to fine sparking up to 12 steps.  
Reverse Sparking ( Z axis upward sparking) function.

### **Anotronic/Maximart V45 EDM + 100 Amp Generator + ORBITCUT unit.**

Heavily ribbed & tension released "Meehanite" machine frame.  
Z axis precision linear guideway + ballscrew & fitted with Electro-Magnetic brake, driven by high performance D.C. Servo motor.  
X & Y axis precision ballscrews, manual movement.  
Z axis programmable auto rough to fine sparking up to 12 steps.  
Reverse Sparking ( Z axis upward sparking) function.



## Spark Eroding

### MANUAL EDM'S

#### **Anotronic/Maximart V30 EDM + 50 Amp Generator x 2 machines**

Heavily ribbed & tension released "Meehanite"  
machine frame.

Z axis precision linear guideway + ballscrew & fitted  
with

Electro-Magnetic brake, driven by high performance  
D.C.

Servo motor.

X & Y axis precision ballscrews,  
manual movement.

Z axis programmable auto rough to fine sparking up  
to 12

steps.

Reverse Sparking ( Z axis upward sparking) function.



#### **Anotronic/Maximart V20x EDM + 50 Amp Generator**

Heavily ribbed & tension released "Meehanite"  
machine frame.

Z axis precision linear guideway + ballscrew &  
fitted with

Electro-Magnetic brake, driven by high  
performance D.C.

Servo motor.

X & Y axis precision ballscrews,  
manual movement.

Z axis programmable auto rough to fine  
sparking up to 12

steps.

Reverse Sparking ( Z axis upward sparking)  
function.



## CNC Fast hole Drilling

### **Anotronic/River 600 6 axis Cnc EDM hole drill + fitted tilt A and Rotary C axis.**

A truly versatile machine with a class leading X and Y travel of 600mm x 400mm respectively. With the added advantage of a 12 position electrode changer and the A&C axis on the table complex jobs such as cooling holes on turbine blades, Nozzle guide vanes, complex mould tools etc can be machined with ease. Powerful windows based G&M code control can be programed off line or at the machine for true flexibility.

Simple and Convenient.  
All axes use linear ways.  
Auto Tool Changer. (12 tools)  
Ideal for irregular-shape Drilling for Automotive Parts.

Table travel (X,Y axes) 600 x 400 mm  
Work table size 600 x 400 mm  
Z axis travel 400 mm  
W axis travel 450 mm  
Max. workpiece height 400 mm  
Max. workpiece weight 800 kgs  
Max. average current 25 Amps  
Power capacity 3.8 KVA  
Electrode diameter 0.1 ~ 3.0mm



### **Anotronic/River 3 EDM manual hole drill.**

A simple entry level machine with a class leading travels of 350mm x 250mm respectively. With the added advantage of a W axis back slide taller jobs can be eroded with ease.

Table travel (X,Y axes) 300 x 200 mm  
Work table size 350 x 250 mm  
Z axis travel 350 mm  
W axis travel 200mm  
Max. workpiece height 180mm  
Max. workpiece weight 150 kgs  
Max. average current 25 Amps  
Power capacity 3.8 KVA  
Electrode diameter 0.2 ~ 3.0mm



## Fast hole Drilling

### Anotronic/Ocean River300 CNC EDM hole drill

A simple entry level machine with a class leading travels of 350mm x 200mm respectively. With the added advantage of a W axis back slide taller jobs can be eroded with ease.

Specification:

ITEM RIVER 300

Table travel (X, Y axes) 300 mm x 200 mm

Work table size 350 mm x 250 mm

Z axis travel 350 mm

W axis travel 200 mm

The Max. height of workpiece 180 mm

Max. workpiece weight 150 kgs

Power input According to local voltage

Max. average current 25 Amps

Power capacity 3.8 KVA

Electrode diameter 0.2~3.0mm

Machine net weight 600 kgs

Machine diameter (W x D x H) 1100 mm x 1000mm x 2000mm



### Anotronic/Corisma CM400 EDM manual hole drill.

A simple entry level machine with a class leading travels of 350mm x 250mm respectively.

Table travel (X,Y axes) 300 x 200 mm

Work table size 350 x 250 mm

Z axis travel 350 mm

Max. workpiece height 180mm

Max. workpiece weight 150 kgs

Max. average current 25 Amps

Power capacity 3.8 KVA

Electrode diameter 0.2 ~ 3.0mm

## Fast hole Drilling

### **Anotronic/Corisma CM400 EDM hole drill + 400mm Column spacer.**

A simple entry level machine .With the added advantage of a Large spacer block that has been fitted to allow taller jobs to be machined with ease.

Table travel (X,Y axes) 300 x 200 mm

Work table size 350 x 250 mm

Z axis travel 350 mm

Max. workpiece height 600mm

Max. workpiece weight 300 kgs

Max. average current 25 Amps

Power capacity 3.8 KVA

Electrode diameter 0.2 ~ 3.0mm



## Electro Chemical Deburring (ECD)

### **Anotronic 500 AMP E.C.D. MACHINE POLYPROPYLENE CONSTRUCTION TOP LOADING**



Beige polypropylene, one piece with access panels.

Sliding see through door, operating Start/Stop.

5-20 Volts.

Constant Voltage or Current Modes.

Overcurrent & Short Circuit protection.

Electrolyte: Sodium Nitrate ( $\text{NaNO}_3$ ) in aqueous solution 1:1 to 1:15 SG.

Pump: For electrolyte delivery with flow control.

Rectifier: State of the Art Microprocessor controlled Thyristor unit.

Control Panel: Emergency Stop Switch, Mains Indicator, Alarm Lamp. Reset Button & HMI.

HMI: 320x240 pixel STN Colour display, Fault alarms and diagnostics, Full Password protection of machine settings, Energy saving Stand-by Mode - automatically switches the machine off at night, weekends and holidays and on again ready for the start of work.

Optional Electrolyte Conductivity monitoring.

Optional Electrolyte pH control.

Optional Electrolyte & Rectifier Cooling System.

Optional Electrolyte Filtration System.



## Vibratory Finishing

### EVP-250 Circular Vibratory Surface Finishing Machine

The finishing media and chemical additive combinations provide a wide spectrum of finishes from simple deburring, edge breaking, degreasing, radiusing though to 0.03 ra super finishing. The finishing media oscillates and rotates giving a directional scroll action.

The modular design allows various combinations of equipment to combine degreasing, deburring, radiusing, de-scaling, super polishing, surface improvement, rinsing and drying.

### Technical details

- A special machine without an integrated screening device
- High abrasive efficiently is always combined with a good surface finishing
- Special design heavy-duty electric vibration motor
- Continuously adjustable vibration control  
High durable hot-poured polyurethane



### Small Vibratory Surface Finishing Machine

Ideal for very small parts. Easy to change media, just scoop out the stones and refill with say polishing stones for that exact Finish.

## Surface Finishing and Cleaning



# aquablast 915

## Aquablast® applications

*The Aquablast® is particularly effective for:*

- Cleaning of dies and moulds
- Removal of paint, rust, scale, carbon and similar deposits
- Surface preparation prior to bonding, re-painting and re-coating
- Satin finishing of stainless steel and other metals
- Cleaning of PCBs and electrical connectors
- Removal of small burrs from manufactured components
- Blasting in environments which must remain dust free



## The advantages of Wetblasting

- Dust free process
- Cleans by flow and not by impact
- Simultaneously degreases and blasts
- Produces a softer finish
- Water acts as a lubricant between media and component
- Promotes longer media life
- Avoids media impregnation on softer materials



Jetwash machines are built entirely with stainless steel, inside and out. The hot wash spray machine uses a hot water and environmentally-friendly detergent. A double-skin construction with 18mm injected cavity insulation provides maximum insulation to the hot water, resulting in extremely strong build rigidity. The Jetwash has been designed to automatically perform washing and degreasing on a wide variation of components. The process has three easy steps: load the basket, close the lid and then press start. The cycle is adjustable and resets automatically each time the lid is opened. The wash basket remains stationary while the spray boom revolves around it, ensuring that delicate components will not get damaged by movement.



## Shrink tooling and holders on all machines



rapid shrink ECS

Elevation•Cooling•System

10kw

Suitable for carbide and HSS tools



### SHRINK-FIT ADVANTAGES

There are 10 inherent benefits that a good shrink-fit chuck can offer a medical manufacturer:

1. Unsurpassed accuracy
2. Availability of slim profiles
3. Gripping torque –
4. Extended reach options –
5. Balance repeatability and balanceable options
6. Reduction of toolchanging time/less toolholder accessory inventory –
7. Cleanliness of setup
8. Coolant options
9. Consistency of setup
10. Availability of shrink-chucks

## Inspection Equipment

### Axiom Too CNC CMM + Renishaw motorised head and probe rack.

The Axiom too range of reasonably priced high performance CNC CMM's are ideal for volume production. The high quality shop floor design features Aberlink's easy-to-use software plus the flexibility of touch probe and non-contact inspection using the optional Aberlink CMM camera.

#### KEY FEATURES

- Aberlink's easy-to-use measurement software (now standard on many OEM systems)
- Suitable for the quality audit room and workshop environment
- High tech air bearing design incorporating the latest materials technology
- Anti-vibration protection from local machine tools as standard
- Ergonomic touch sensitive 3D joystick and variable speed control
- Temperature compensation option for unstable environments
- CMM camera system for non-contact inspection option fitted.



### Mitutoyo Manual B706 CMM retrofitted with Aberlink 3D software.

Travel axes (X x Y x Z): 700 x 600 x 450 mm  
table size: 860 x 1280 mm  
max. workpiece height: 570 mm  
manual control  
max. workpiece weight: 500 kg.



## Inspection Equipment

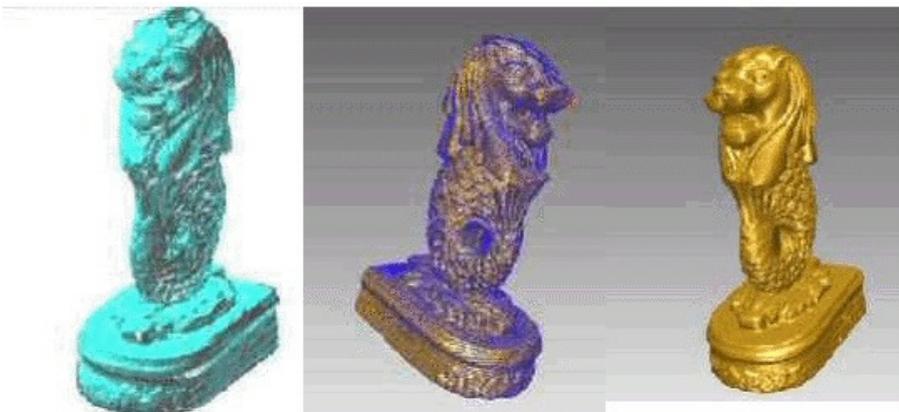
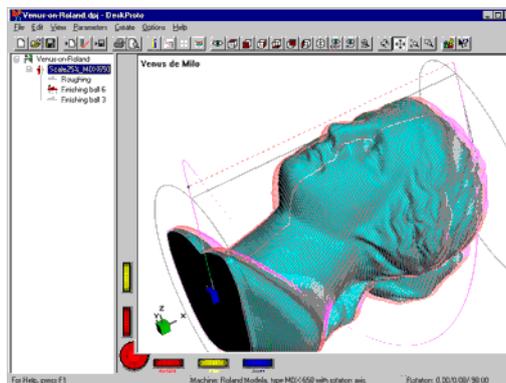
### Roland LPX-250 3d laser scanner

The Newest Dimension in 3D Desktop Laser Scanning

Now, engineers, artists, animators, and game developers have the ability to scan objects and convert the digitized models to STL or DXF (polygons) and IGES (NURBs surfaces) formatted files economically and easily right from their desktops. Powerful. Space efficient. Extremely easy to use.

The newest addition to Roland's innovative 3D-scanner line, the LPX-250, offers maximum scanning capability in a desktop footprint:

- Non-contact, 3D laser scanning
- Converts scanned data into polygon and NURBs surfaces
- Exports in STL, DXF and IGES file formats for industry standard 3D CAD and solid modeling software
- Large scanning area -- up to 406.4mm (16") high x 254mm (10") in diameter
- Dual modes -- offers both rotary



## CAD/CAM Equipment

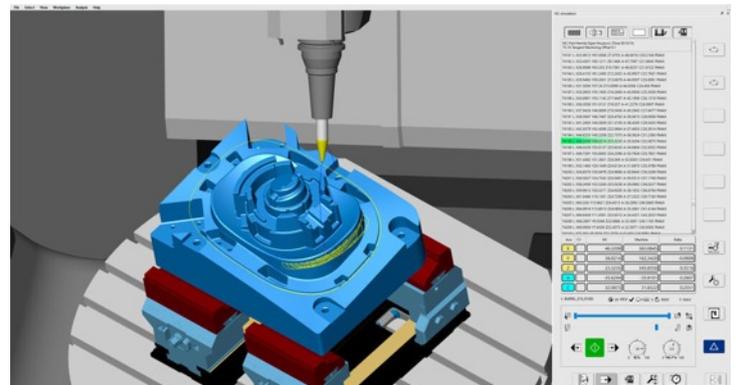
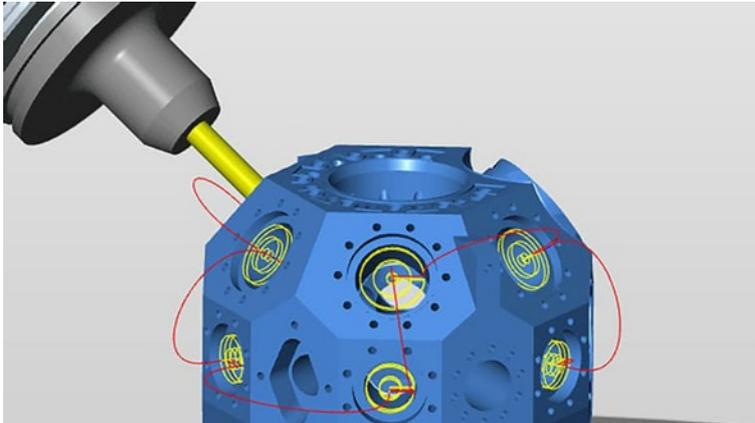
Class Leading Cad Cam multi axis software x 2 seats



Networking and Synchronization with the CNC Machine Tool

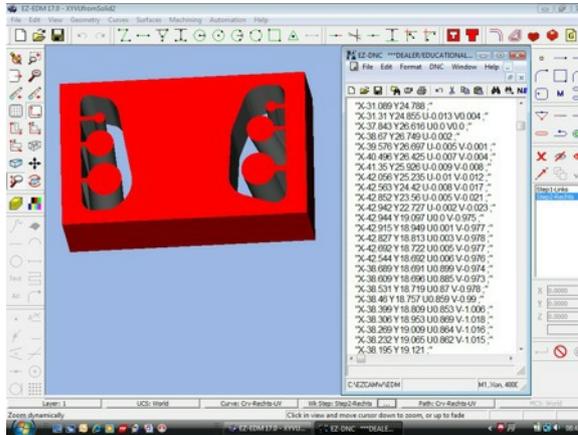
hyperMILL® CONNECTED Machining ensures seamless networking between the CAM software and machine.

One of the highlights is the bidirectional exchange of data with the controller, which means that data can be sent to the machine and also received from the machine.



## CAD/CAM Equipment

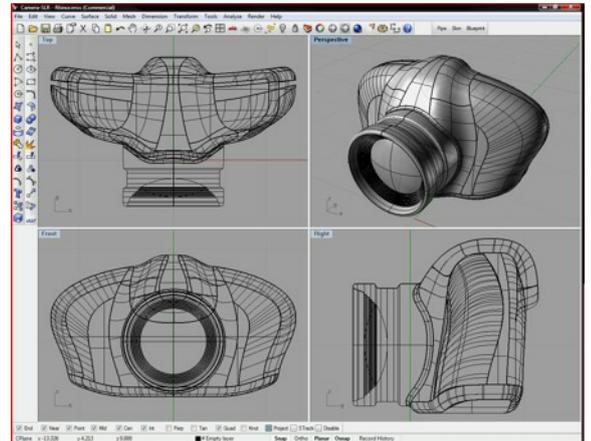
EZ-Cam multi axis WEDM software x 2 seats



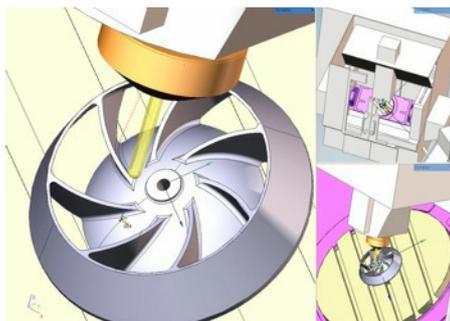
## CAD/CAM Equipment

Rhino 3d CAD software

**Rhinoceros** (Rhino) is a stand-alone, commercial NURBS-based 3-D modeling software developed by Robert McNeel & Associates. The software is commonly used for industrial design, architecture, marine design, jewelry design, automotive design, CAD / CAM, rapid prototyping, reverse engineering, product design as well as the multimedia and graphic design industries.



## CAM Equipment

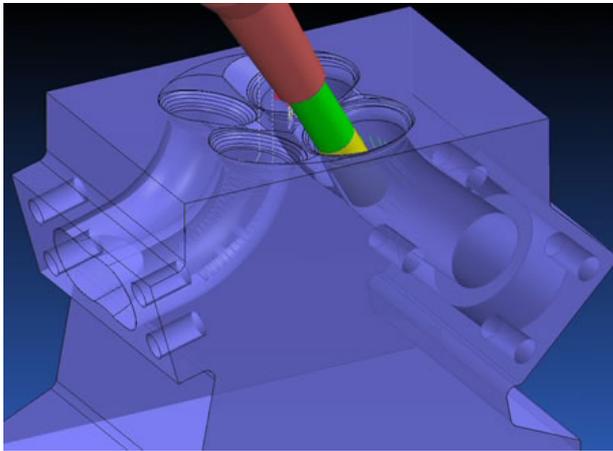


### 5 Axis Continuous

SprutCAM has 5 axis continuous strategies, which enables to create CLData for any type of multiaxis machines. The CLData is created taking into consideration the machine scheme, which permits to avoid collisions during the machining. The CLData is created taking into consideration the transformation of the co-ordinates of the machining.

## CAM Equipment Cont...

### Delcam Powermill 5 axis software



**PowerMILL** offers a wide range of strategies to make efficient 5-axis programming a reality

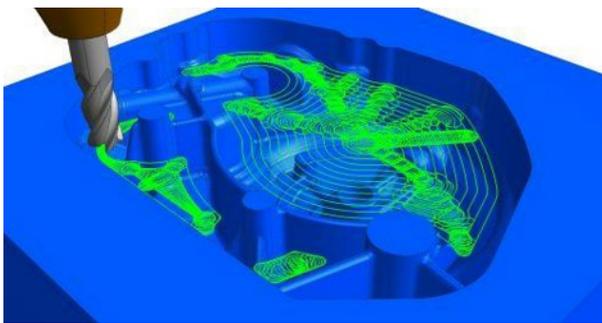
Saves time by machining complex parts in a single set-up

Uses shorter cutters for faster and more accurate machining, with less vibration

Improves cycle times and surface finish by efficiently controlling the orientation of the tool to the workpiece

Fully integrated simulation and collision detection ensures safe machining of undercut regions

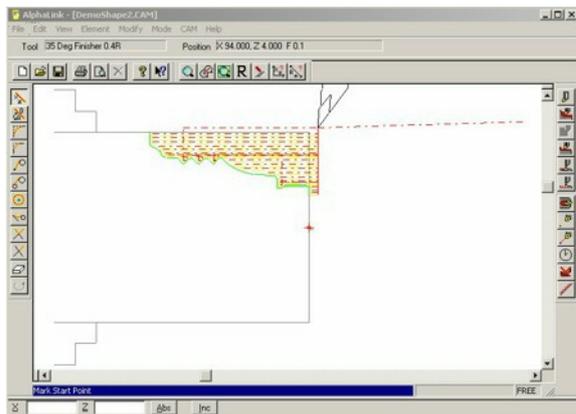
Tool axis editing enables you to fine-tune individual areas of the toolpaths, resulting in a smooth machine tool motion



### Superdraft Alpha-link software



The ease of use of the original Alpha-Link system has been combined with the Windows native functions to give a powerful but easy to use software package, designed exclusively for the Alpha Lathe. Added functions, such as the ability to modify existing operations, enhanced Tool Library features, better graphical presentation, native Windows File handling and Printing options, and combined commands, have enhanced the original Alpha-Link system to a new level.



The Alpha-Link for Windows version is completely "backward compatible", in that original Alpha-Link drawings can be imported into the new system, removing the need to re-draw parts again.

Superdraft Systems Limited is completely dedicated to the support of this new product. As well as making this system available to as many of the previous models of Alpha Lathes as possible, we are committed to future development to ensure that the system benefits from our experience with the Alpha Lathe and user requirements.

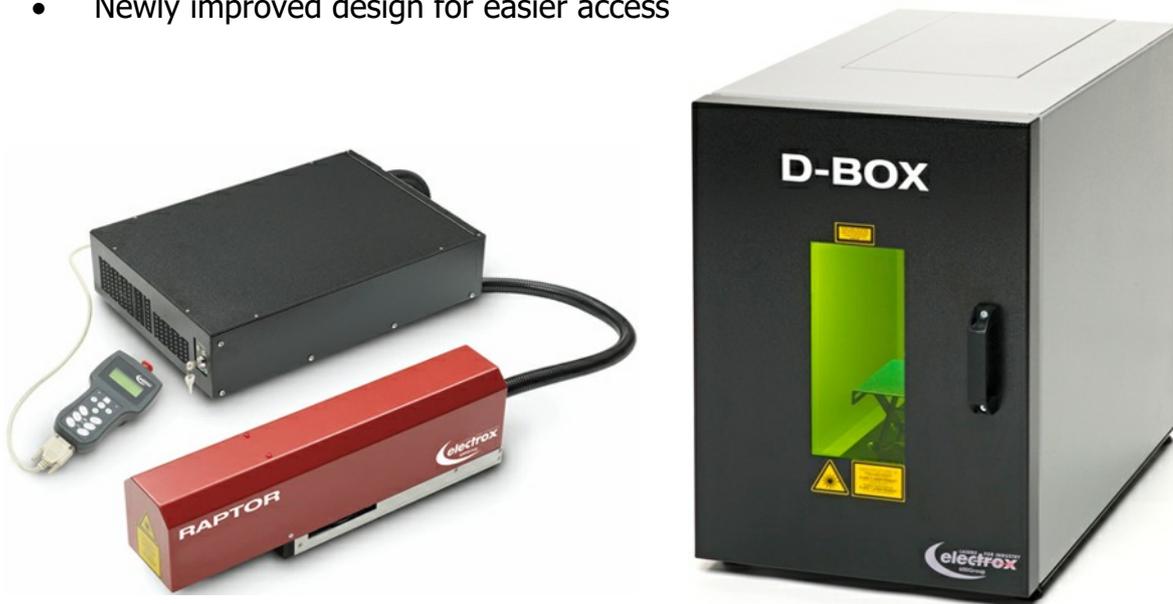
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## Laser Engraving

### Electrox DBOX Laser Engraver

**The Electrox D-Box laser marking workstation is a cost effective, compact workstation**

- Cost-effective solution for high resolution marking on metals, plastics and other materials
- In-built 4 axis control, which is easily integrated into automated production systems or into one of Electrox's stand-alone workstations
- Ideal for medium to low volume manufacturing applications
- Compact footprint minimizes production space requirements
- Compatible with all Electrox fibre Laser Markers
- Low operating costs and virtually maintenance free
- User friendly Windows™ software ensures easy set-up and use
- Newly improved design for easier access



### Laser Marking Metallic Materials

Electrox Laser Markers provide high laser marking performance on all kinds of metals, including stainless, HSS, alloy steels, carbide, titanium and aluminium.



### Laser Marking Plastics

Electrox laser marking systems are extremely versatile with a wide range of plastics, being able to laser mark amongst others, PC, PP, PE, PA, PU, PVC and ABS materials with the minimum of fuss.



## EDM (ELECTRIC DISCHARGE MACHINES OR SPARK EROSION MACHINES) DIESINK EDM

MACHINE TYPE	GENERATOR	WORK TANK X,Y,Z (mm)
ANOTRONIC V-55	75A	1500 x 900 x 500
ANOTRONIC V-45 (with ORBIT)	100A	1100 x 630 x 400
ANOTRONIC V-45 (with ORBIT)	75A	1100 x 630 x 400
ANOTRONIC V30	50A	900 x 550 x 400
ANOTRONIC V30	50A	900 x 550 x 400
ANOTRONIC T50 ZNC (with ORBIT)	50A	870 x 510 x 320
ANOTRONIC SPECIAL PURPOSE	30A	780 x 400 x 300
ANOTRONIC M30D	30A	700 x 520 x 250
ANOTRONIC M30E	60A	600 x 400 x 200
ANOTRONIC V20X	50A	750 x 450 x 270
SODICK AQ 35L CNC 4 axis	40A	750 x 550 x 320
ANOTRONIC SPECIAL PURPOSE EDM RIGS FOR OFFSITE USE AT POWER STATION, SHIPYARDS ETC. (3 - off)		

## FAST EDM DRILLS

MACHINE TYPE	HOLE DIAMETERS	X,Y,Z TRAVEL (mm)
ANOTRONIC CM 800 ZNC	0,1 to 3,0mm	300 x 200 x 350
ANOTRONIC CM 500 ZNC	0,1 to 3,0mm	300 x 200 x 350
ANOTRONIC CM 400	0,1 to 3,0mm	200 x 100 x 350
ANOTRONIC RIVER 600 CNC	0,1 to 3,0mm	600 X 400 X 400(Z)+450(W)

## CNC WIRECUT EDM

MACHINE TYPE	X,Y,Z TRAVEL (mm)
SODICK A500W. AWT + TAPER CUTTING	500 x 350 x 270
SODICK A530D. AWT + TAPER CUTTING	500 x 320 x 400
SODICK A 320D. + TAPER CUTTING	320 x 205 x 350
SODICK 320D/CE + TAPER CUTTING	320 X 205 X 350

## ANOTRONIC LIMITED

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Internet <http://www.anotronic.com>



FM40096

## ECM / ECD ELECTROCHEMICAL MACHINES (DIESINK & DEBURRING)

MACHINE TYPE	RECTIFIER	WORK BOX (mm)
ANOTRONIC HORIZONTAL. AN 62	500A	1000 x 1000 x 750
ANOTRONIC ECM DIE POLISHER		

## TOOLROOM & MACHINE SHOP (All CNC Machines Networked) MILLING

Hurco VM10U 5 axis with Winmax Control 2008 (V8 Software Upgrade)
Hurco VM10U 5 axis with Winmax Control 2010 (V8 Software Upgrade)
Hurco VM10 4 axis with Winmax Control 2011 (V8 Software Upgrade)
Hurco VMX42HS 4 axis with Ultimax Control
Hurco VM1 4 axis with Ultimax Control, 10K Spindle, 16 Tools
Hurco VM1 4 axis with Ultimax Control, 10K Spindle, 20 Tools
Hurco VMX 30HT 4 axis with Ultimax Control
Hurco VM2 4 axis with Ultimax Control
Matsuura MX520 5 axis Machining Cell fitted with Lang 60 pallet loader with Fanuc 30i, 20K spindle, 40 Tools
Bridgeport Turret Milling Machine with D.R.O.
Maximart Turret Milling (3 machines) with D.R.O.

## TURNING

DMG Gildmeister CTX510 Gratziano large capacity CNC Lathe
DMG Gildmeister CTX310eco Slim Panel CNC Lathe
DMG Gildmeister CTX310eco Slim Panel CNC Lathe
Harrison 330S CNC Lathe
Colchester Triumph Centre Lathe
Colchester Student Centre Lathe

## GRINDING

Jones & Shipman Format 5 CNC Surface Grinding Machine with Auto Dressing Cycles Capacity 18" x 6"
Clarkson Tool and cutter grinding machine
Jones & Shipman 540P Surface grinding machine with Optidress 2 AXIS READOUT
Jones & Shipman 540 Surface grinding machine with Optidress 2 AXIS READOUT
Jones & Shipman 1300 Universal Cylindrical grinding machine Capacity 10" x 27". 2 AXIS READOUT

## DRILLING

Dr. Bender KR500. 50mm MAG BASE DRILL ON STEM 50L STAND
Ajax B - 16L Bench Drill
Draper 2F Pillar Drill
Unibore 30mm MAG BASE DRILL

## WELDING/BRAZING

Gas Brazing
Oxy-Acetylene Welding
Arc Welding

## MISCELLANEOUS

EVP-250 Circular Vibratory Surface Finishing Machine
Guyson Formula 1200 shot blast unit
Vixen Sand / Shot blast unit
Vixen Jetwash 60
Burgess Bandsaw
Power Saw
Startrite 20 RWF Vertical Bandsaw
Denbigh No. 5 flypress
Belt Linishers
Lift & pallet trucks.
Fork Lift Truck
Full range of tools inc. rotary tables, sine tables, angle bases etc.
Low temperature heat treatment.
De-embrittlement oven with recorder max 300 °C
Roland LPX-250 3D Laser Scanner

## INSPECTION

Full inspection Facilities inc. Mitutoyo PJ300 Profile Projector, Digital Height Gauges, Hardness testers etc., Mitutoyo B4706 CMM., Axiom TOO 900 - Aberlink full CNC CMM with interchangeable probe head, change rack & vision system package in own temperature controlled room.
ISO 9001:2008 Cert. No. FM 40096
Approved by many companies inc. Rolls-Royce, Mitsui Babcock, Alstom Power UK, BAE, Doncasters, Honeywell Normalair Garrett, Dana, AETC, Unipart, TRW, APV, Turbine Blading, Powergen, Hewland, Peter Brotherhood, Chromalloy.

## MACHINE BUILD & ELECTRONIC DEPT.

To manufacture Electrochemical, EDM & Special Purpose Machine Tools with full design, (Mech. & Electronic). "In house."

## ANOTRONIC LIMITED

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