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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.
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 merg 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.
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.
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
-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
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® 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 Φ 210mm in. and a hollow clamping device with Φ 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® 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 Φ 460mm in. and a hollow clamping device with Φ 102mm bar passage.
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.
CNC Wire Erosion (WEDM)

Sodick A530D AWT 5 axis WEDM

Large size wire cut EDM machine with all accuracy and quality you would expect from Sodick. High speed, precision and accuracy.

Table travel (X and Y) - 500x320mm
Z axis travel (Auto) - 270/5 to 275
Auxiliary table travel (U and v axes) - 50x50mm
Work table size (WxD) - 750x470mm
Work tank inner dimensions (WxD) - 980x730mm
Max height of workpiece - 260/180 submerged
Max weight of work piece - 500/350 submerged
Distance from floor to table top - 982mm
Taper angle - 10 degree @100mm
Wire tension - 200 to 2800g
Wire feed speed (max) - 250mm/sec
Wire diameter - dia 0.1 to 0.3m

Sodick A320D 4 axis WEDM

Medium size wire cut EDM machine with all accuracy and quality you would expect from Sodick. High speed, precision and accuracy.

Table travel (X and Y) - 325x205mm
Z axis travel (Manual) - 175/5 to 175
Auxiliary table travel (U and v axes) - 50x50mm
Work table size (WxD) - 550x370mm
Work tank inner dimensions (WxD) - 780x530mm
Max height of workpiece - 175mm
Max weight of work piece - 250kg
Distance from floor to table top - 982mm
Taper angle - 10 degree @100mm
Wire tension - 200 to 2800g
Wire feed speed (max) - 250mm/sec
Wire diameter - dia 0.1 to 0.3mm
CNC Wire Erosion (WEDM)

Sodick A500W AWT 5 axis WEDM MK25 Controller

Large size 3 micron accuracy wire cut EDM machine with glass linear scales and all accuracy and quality you would expect from Sodick. High speed, precision and accuracy.

Table travel (X and Y) - 500x350mm
Z axis travel (Auto) - 270/5 to 275
Auxiliary table travel (U and V axes) - 70x70mm
Work table size (WxD) - 750x470mm
Work tank inner dimensions (WxD) - 980x730mm
Max height of workpiece - 260/180 submerged
Max weight of workpiece - 500/350 submerged
Distance from floor to table top - 982mm
Taper angle - 15 degree @100mm
Wire tension - 200 to 2800g
Wire feed speed (max) - 250mm/sec
Wire diameter - dia 0.1 to 0.3mm

Sodick A320D CE axis WEDM MK21 Controller

Medium size wire cut EDM machine with all accuracy and quality you would expect from Sodick. High speed, precision and accuracy.

Table travel (X and Y) - 325x205mm
Z axis travel (Manual) - 175/5 to 175
Auxiliary table travel (U and V axes) - 50x50mm
Work table size (WxD) - 550x370mm
Work tank inner dimensions (WxD) - 780x530mm
Max height of workpiece - 175mm
Max weight of workpiece - 250kg
Distance from floor to table top - 982mm
Taper angle - 10 degree @100mm
Wire tension - 200 to 2800g
Wire feed speed (max) - 250mm/sec
Wire diameter - dia 0.1 to 0.3mm
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-guideway 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 Ra0.2µm.
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 1µm or 5µm. 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 Ra0.2µm. 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 + ball screw & 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 + ball screw 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 programmed 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/Corisma CM800 ZNC EDM 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 300mm  
Max. workpiece weight 300 kgs  
Max. average current 25 Amps  
Power capacity 3.8 KVA  
Electrode diameter 0.2 ~ 3.0mm

**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 (NaNO3) 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.
Electrolyte & Rectifier Cooling 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 efficiency 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 refil with say polishing stones for that exact Finish.
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 rotaty and plane scanning
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, 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.
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

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.
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

<table>
<thead>
<tr>
<th>Machine Type</th>
<th>Generator</th>
<th>Work Tank X,Y,Z (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANOTRONIC V-55</td>
<td>75A</td>
<td>1500 x 900 x 500</td>
</tr>
<tr>
<td>ANOTRONIC V-45 (with ORBIT)</td>
<td>100A - 4 CHANNEL</td>
<td>1100 x 630 x 400</td>
</tr>
<tr>
<td>ANOTRONIC V-45 (with ORBIT)</td>
<td>75A</td>
<td>1100 x 630 x 400</td>
</tr>
<tr>
<td>ANOTRONIC V30</td>
<td>50A</td>
<td>900 x 550 x 400</td>
</tr>
<tr>
<td>ANOTRONIC V30</td>
<td>50A</td>
<td>900 x 550 x 400</td>
</tr>
<tr>
<td>ANOTRONIC T50 ZNC (with ORBIT)</td>
<td>50A</td>
<td>870 x 510 x 320</td>
</tr>
<tr>
<td>ANOTRONIC SPECIAL PURPOSE</td>
<td>30A</td>
<td>780 x 400 x 300</td>
</tr>
<tr>
<td>ANOTRONIC M30D</td>
<td>30A</td>
<td>700 x 520 x 250</td>
</tr>
<tr>
<td>ANOTRONIC M30E</td>
<td>60A</td>
<td>600 x 400 x 200</td>
</tr>
<tr>
<td>ANOTRONIC V20X</td>
<td>50A</td>
<td>750 x 450 x 270</td>
</tr>
<tr>
<td>SODICK AQ 35L CNC 4 axis</td>
<td>40A</td>
<td>750 x 550 x 320</td>
</tr>
<tr>
<td>ANOTRONIC SPECIAL PURPOSE EDM RIGS FOR OFFSITE USE AT POWER STATION, SHIPYARDS ETC. (3 - off)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Fast Hole EDM

<table>
<thead>
<tr>
<th>Machine Type</th>
<th>Hole Diameters</th>
<th>X,Y,Z Travel (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANOTRONIC CM 800 ZNC</td>
<td>0,1 to 3,0mm</td>
<td>300 x 200 x 350</td>
</tr>
<tr>
<td>ANOTRONIC CM 500 ZNC</td>
<td>0,1 to 3,0mm</td>
<td>300 x 200 x 350</td>
</tr>
<tr>
<td>ANOTRONIC CM 400</td>
<td>0,1 to 3,0mm</td>
<td>200 x 100 x 350</td>
</tr>
<tr>
<td>ANOTRONIC RIVER 3</td>
<td>0,3 to 3,0mm</td>
<td>300 x 200 x 350</td>
</tr>
<tr>
<td>ANOTRONIC RIVER 600 CNC</td>
<td>0,1 to 3,0mm</td>
<td>600 x 400 x 400(Z)+450(W)</td>
</tr>
</tbody>
</table>

#### CNC Wirecut EDM

<table>
<thead>
<tr>
<th>Machine Type</th>
<th>X,Y,Z Travel (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODICK A500W. AWT + TAPER CUTTING</td>
<td>500 x 350 x 270</td>
</tr>
<tr>
<td>SODICK A530D. AWT + TAPER CUTTING</td>
<td>500 x 320 x 400</td>
</tr>
<tr>
<td>SODICK A 320D. + TAPER CUTTING</td>
<td>320 x 205 x 350</td>
</tr>
<tr>
<td>SODICK 320D/CE + TAPER CUTTING</td>
<td>320 x 205 x 350</td>
</tr>
</tbody>
</table>

#### ECM / ECD Electrochemical Machines (Diesink & Deburring)

<table>
<thead>
<tr>
<th>Machine Type</th>
<th>Rectifier</th>
<th>Work Box (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANOTRONIC HORIZONTAL. AN 62</td>
<td>500A</td>
<td>1000 x 1000 x 750</td>
</tr>
<tr>
<td>ANOTRONIC ECM DIE POLISHER</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# TOOLROOM & MACHINE SHOP
(All CNC Machines Networked)

## MILLING

<table>
<thead>
<tr>
<th>Machine Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hurco VM10U 5 axis with Winmax Control 2008 (V8 Software Upgrade)</td>
<td></td>
</tr>
<tr>
<td>Hurco VM10U 5 axis with Winmax Control 2010 (V8 Software Upgrade)</td>
<td></td>
</tr>
<tr>
<td>Hurco VM10 4 axis with Winmax Control 2011 (V8 Software Upgrade)</td>
<td></td>
</tr>
<tr>
<td>Hurco VMX42HS 4 axis with Ultimax Control</td>
<td></td>
</tr>
<tr>
<td>Hurco VM1 4 axis with Ultimax Control, 10K Spindle, 16 Tools</td>
<td></td>
</tr>
<tr>
<td>Hurco VM1 4 axis with Ultimax Control, 10K Spindle, 20 Tools</td>
<td></td>
</tr>
<tr>
<td>Hurco VMX 30HT 4 axis with Ultimax Control</td>
<td></td>
</tr>
<tr>
<td>Hurco VM2 4 axis with Ultimax Control</td>
<td></td>
</tr>
<tr>
<td>Matsuura MX520 5 axis Machining Cell fitted with Lang 60 pallet loader with Fanuc 30i, 20K spindle, 40 Tools</td>
<td></td>
</tr>
<tr>
<td>Bridgeport Turret Milling Machine with D.R.O.</td>
<td></td>
</tr>
<tr>
<td>Maximart Turret Milling (2 machines) with D.R.O.</td>
<td></td>
</tr>
</tbody>
</table>

## TURNING

<table>
<thead>
<tr>
<th>Machine Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMG Gildmeister CTX510 Gratziano large capacity CNC Lathe</td>
<td></td>
</tr>
<tr>
<td>DMG Gildmeister CTX310eco Slim Panel CNC Lathe</td>
<td></td>
</tr>
<tr>
<td>Harrison 330S CNC Lathe</td>
<td></td>
</tr>
<tr>
<td>Colchester Triumph Centre Lathe</td>
<td></td>
</tr>
<tr>
<td>Colchester Student Centre Lathe</td>
<td></td>
</tr>
</tbody>
</table>

## GRINDING

<table>
<thead>
<tr>
<th>Machine Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jones &amp; Shipman Format 5 CNC Surface Grinding Machine with Auto Dressing Cycles Capacity 18&quot; x 6&quot;</td>
<td></td>
</tr>
<tr>
<td>Clarkson Tool and cutter grinding machine</td>
<td></td>
</tr>
<tr>
<td>Jones &amp; Shipman 540P Surface grinding machine with Optidress 2 AXIS READOUT</td>
<td></td>
</tr>
<tr>
<td>Jones &amp; Shipman 540 Surface grinding machine with Optidress 2 AXIS READOUT</td>
<td></td>
</tr>
<tr>
<td>Jones &amp; Shipman 1300 Universal Cylindrical grinding machine Capacity 10&quot; x 27&quot;: 2 AXIS READOUT</td>
<td></td>
</tr>
</tbody>
</table>

## DRILLING

<table>
<thead>
<tr>
<th>Machine Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Bender KR500. 50mm MAG BASE DRILL ON STEM 50L STAND</td>
<td></td>
</tr>
<tr>
<td>Ajax B - 16L Bench Drill</td>
<td></td>
</tr>
<tr>
<td>Draper 2F Pillar Drill</td>
<td></td>
</tr>
<tr>
<td>Unibore 30mm MAG BASE DRILL</td>
<td></td>
</tr>
</tbody>
</table>

## WELDING/BRAZING

<table>
<thead>
<tr>
<th>Method</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Brazing</td>
<td></td>
</tr>
<tr>
<td>Oxy-Acetylene Welding</td>
<td></td>
</tr>
<tr>
<td>Arc Welding</td>
<td></td>
</tr>
</tbody>
</table>
MISCELLANEOUS

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

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 controled 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."