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IMTS 2014 to be among biggest ever

The 30th edition of IMTS – The International Manufacturing Technology Show 2014 – is on track to rank among the four largest IMTS events ever, covering more than 1.2m sq ft of exhibit space and hosting more than 1900 exhibiting companies. The show will be held at Chicago's McCormick Place on 8-13 September. Over 100,000 visitors from 110 countries are expected to come and see more than 15,000 new machine tools, controls, components, systems and processes.

Visitors to the show can also take advantage of the IMTS Conference, which will feature 69 one-hour presentations over four days that will provide solutions to current manufacturing problems, such as improving productivity, improving part quality, and developing a stable, competent workforce to lower the costs of manufacturing.

Machinery Trade International will have a presence at the show where the latest issue of MTI magazine will be distributed to event visitors.

For further information www.imts.com

Four-spindle gun-drill on show

With the North American market the biggest export territory for Mollart Engineering's business in deep-hole drilling technology and machine tools, the company has chosen IMTS 2014 to demonstrate centreline shaft drilling with its latest LD4 Drillsprint four-spindle gun-drill complete with automatic loading and unloading. Post exhibition, the specially tooled production cell will be delivered to a US automotive customer. The machine has a capacity between 2 and 16 mm diameter, by 750 mm deep. Included in the specification can be counter-rotation to create concentric bores, which is suitable for maintaining very thin wall sections.

For further information www.mollart.com

NLX machines make US debut

Visitors to IMTS will be treated to the latest NLX series from DMG Mori, which offers a total of 29 expansion options, from a single-spindle universal lathe to a six-sided turn-mill centre with Celos control. Thanks to increased rigidity in all linear axis drives, the design of the machine bed, and the slideways with their high damping properties, the NLX models achieve up to 30% higher machine rigidity than the previous series.

The larger ballscrews in particular, which together with larger bearings increase the rigidity of the axes by up to 50%, are also of particular importance in this regard. DMG Mori has also made improvements to thermal stability: the cooling system incorporated into the machine bed reduces thermal movement to a minimum, it is claimed.

For further information www.dmgmoriseiki.com/en

Tooling innovations

New developments in machine tool CNC hardware and software technology will be demonstrated by NUM at IMTS. Highlights will include a cost-effective dual channel CNC kernel for designers of small to medium size machines with up to five axes, a functional safety architecture that can easily be scaled to suit any type of machine, and new grinding software for complex geometry tools. NUM will also be providing software demonstrations of complete conversational and cycle solutions developed specifically for the North American market. Based on Flexium+ systems, these include solutions for gear hobbing, shaping and grinding, OD/ID grinding and metal spinning.
For further information www.num.com

SGS goes supersonic

SGS will be machining stainless steel, composite materials, titanium and aluminium with a line-up of new and featured cutting tools at IMTS. These include: the Series 33 for stainless steel applications; diamond coated end mills, drills and routers for composites; T-Carb for titanium machining; and S-Carb APR for high efficiency aluminium machining. Visitors to the stand will have a photo opportunity with the official Bloodhound Super Sonic Car and the ultimate racing experience in the Bloodhound SSC Simulator. SGS is a project sponsor and the first 500 visitors to the Bloodhound will receive a special gift.
For further information www.sgstool.com

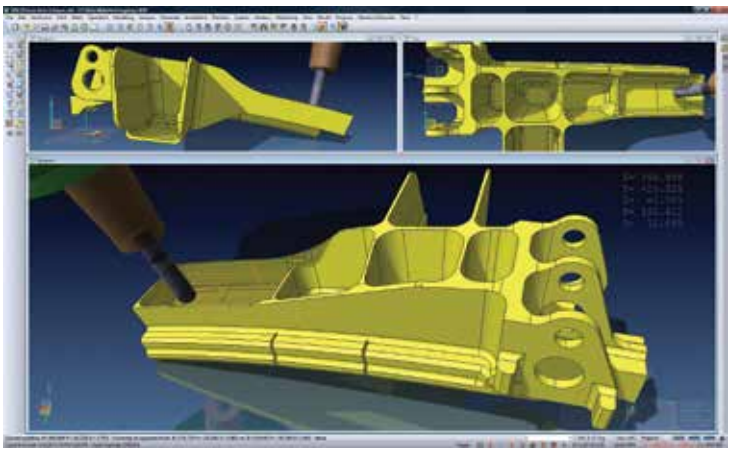
True grit

Sunnen is introducing a new 60-grit premium red aluminium-oxide honing abrasive that is said to cut material 25-50% faster than other conventional stones, depending on the workpiece material. The abrasive formulation resists chip loading and galling.
For further information www.sunnen.com

Four Vero brands feature at IMTS

Four of Vero Software's leading brands will feature at IMTS: Edgecam, SurfCAM, VISI and WorkNC are demonstrating the new and enhanced technology in their latest releases. Additions to Edgecam, for example, include the Waveform Roughing Strategy, which is a high speed machining technique that maintains a constant tool cutting load by ensuring the tool engagement into the material is consistent. The toolpath avoids sharp changes in direction which keeps the machine tool's optimum velocity.

Regarding SurfCam, IMTS presents an ideal opportunity to take a look at Part Modeller,



a recently launched CAD tool specifically designed for quick and simple construction and modification of solid models with fully associative drafting capabilities.
For further information www.versosoftware.com

Latest PowerMill on show

Delcam will launch the 2015 version of its PowerMill CAM system for high speed and five-axis machining on the largest CAM software booth at IMTS. The new release will include improvements to the Vortex high efficiency area-clearance strategy, along with improved collision checking and more efficient raster finishing.

For instance, the Vortex area-clearance strategy produces safe toolpaths with a much deeper cut by using a controlled engagement angle that maintains the optimum cutting conditions for the whole toolpath. As a result, higher feed rates and material removal rates are possible, making the cutting time shorter by as much as 70%, says Delcam. In addition, cutting is undertaken at a more consistent volume-removal rate and at a near constant feed rate, so extending tool life and protecting the machine.
For further information www.delcam.com

Marked benefits of Foba workstations

Foba will showcase system, machine and vision solutions for laser marking at IMTS. For instance, the Foba M1000 and M2000 laser marking workstations are capable of marking the new UDI (Unique Device Identifier) and GS1 DataMatrix codes. The core of the marking solutions features a high precision laser unit combined with a vision alignment system – IMP (Intelligent Mark Positioning).

IMP encompasses a closed-loop process which includes marking, pre- and post-mark verification, optical character verification, as well as 1D and 2D code validation.

Identification solutions like the vision system IMP and

application cases like high speed automated rotary banding will be shown during live demonstrations at the show.
For further information www.fobalaser.com

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Landmark investment at North Bucks

A cornerstone investment in a Quaser MF 630U five-axis VMC from the Engineering Technology Group (ETG) by North Bucks Machining is a key factor in the Newport Pagnell-based firm's objective of becoming one of the UK's leading exponents in the design and manufacture of advanced blow moulding tools. "We had the skills but not the machining capability," explains director Stewart Palmer. "I had extensive experience with five-axis machining from my days in F1, and when I joined the family business two years ago my first objective was to move towards five-axis work. When a new contract opportunity arose for screen wash and oil containers, it was the tipping point for investment. ETG took onboard our toolroom-like environment while being aware of our long term aims, so we opted for a machine that gives us ample scope."

For further information
www.engtechgroup.com

Powerful solution

A Hartford vertical machining centre is playing a key production role at the Wolverhampton site of Nuclear Engineering Services (NES), a specialist in the manufacture and project management of nuclear new-build and decommissioning plant, as well as equipment for the defence sector. Installed by Ward CNC as part of a four-machine cell, the Hartford HCMC-13AG is being used to machine a variety of bespoke and complex components in a host of different materials, including specialist alloys, for the nuclear industry. With a table size of 1450 x 800 mm, plus X, Y and Z axes travels of 1300, 800 and 660 mm, respectively, as well as a 26 kW spindle motor that produces 6000 rpm and a 32-tool automatic tool magazine, the machine can accommodate loads of 1600 kg.

For further information
www.wardcnc.com

Matchmaker adds five-axis

Matchmaker CNC has announced the arrival of full five-axis machining centre capability to its range. The two competitively priced machines provide simultaneous five-axis capacity under the Matchmaker brand for the first time.

The ML-620 features a rigid construction that encompasses a 650 mm diameter rotary/tilting table for the B and C axes, a 10 kW, 12,000 rpm direct drive spindle, axis movement of 20 by 520 by 460 mm in X, Y and Z, with -50° to +110° B-axis movement and full 360° rotation of the C-axis. For those needing larger capacity, the Matchmaker ML-800 offers an 800 mm X-axis stroke. Both machines can be supplied with the Heidenhain iTNC-530 or Siemens 840D SL control.

"The addition of full five-axis capability to the Matchmaker range is a significant step and one we are sure will be welcomed by customers in the medical, aerospace, and mould and die sectors," says Matchmaker CNC's Colin Donhue. "While the Matchmaker range has traditionally focussed on three-axis machines, we already have experience with five-axis through our association with Unisign."

For further information
www.matchmakercnc.co.uk

Mécanat acquires Huron MX12M

Mécanat Précision, based in Malemort-sur-Corrèze near Limoges, France has just commissioned a Huron MX12M five-axis milling centre. This versatile machine allows complex machining operations on parts intended for use in aerospace and energy applications. Huron differentiated itself from its competitors by proposing a special configuration of the machine. This involved a special part that was custom cast to allow better geometric accessibility for complex machining.

Flexible and modular, Huron's MX multifunction milling centres perform five-axis and five-face machining of parts weighing up to 4000 kg. Mécanat Précision uses its MX12M machining centre to create parts such as engine cowling components and structural parts, and parts of industrial gas turbines, such as guide vane rows, and even impellers and guide vanes on centrifugal compressors.

"We chose Huron because its solution is closely tailored to the needs of our customers, whereas the competing solutions were standard catalogue offerings," says Jean-Marie Jacquet, CEO of Mécanat Précision. "Everything has been going well since the machine was installed. Huron has provided its technical assistance in fine-tuning as well as integrating the tool magazine with the control software."

For further information
www.huron.fr

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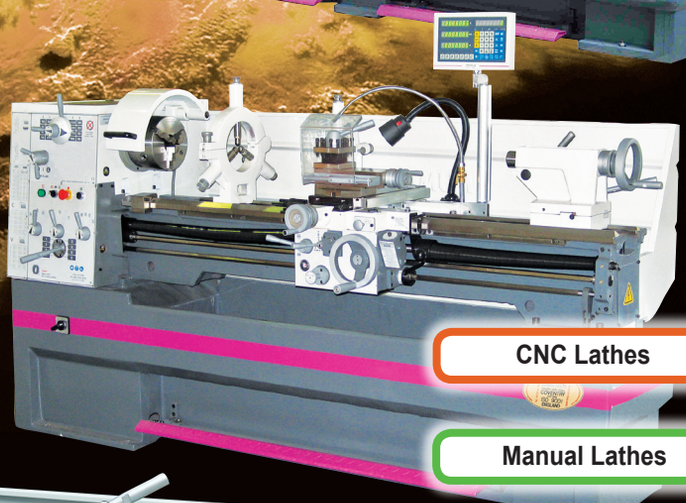
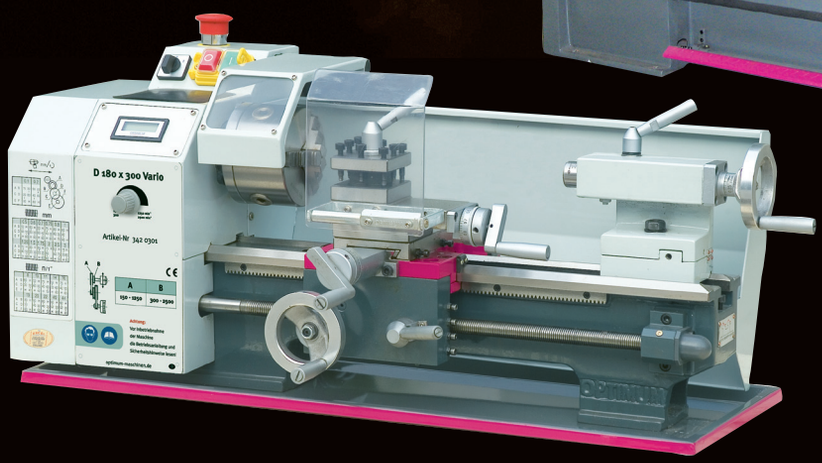


WIDE RANGE

CNC Lathes

Manual Lathes



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Wele AA90 launched

Developed for general purpose vertical spindle machining centre applications when heavy cutting is the order of the day, the largest AA90 series of three vertical spindle machines in the Wele range, available from 2D CNC, is launched in the UK. The machines have axis travels of 1800 mm on the AA1890, 2000 mm on the AA2090 and 2500 mm in the AA2590. Across the range, both the Y- and Z-axis travels are 900 mm. Significant in the design of the AA series are four hardened and ground boxways with roller guideways on the Y-axis to provide full support for demanding and mixed application cycles needing both power and accuracy. Indeed, as part of the build specification some 62 surfaces are hand scraped on the machine bed, column, carriage and spindle head.

For further information
www.2dcnc.co.uk

Super-fast twin-pallet

In its quest to reduce non-cutting time to zero, the Japanese machine tool manufacturer, Brother, has introduced a vertical-spindle machining centre on which the 2.9-second pallet change, X- and Y-axis movements, indexer rotation and toolchange take place simultaneously. Called Speedio R450X1, the compact, highly productive, 30-taper machine is available in the UK through sole agent, Whitehouse Machine Tools. Linear axis movements are 450, 320 and 305 mm in X, Y and Z, with 50 m/min rapids and up to 30 m/min cutting feed rate in each. The working envelope has been increased with jig area enlargement to make the machine applicable to a wider scope of applications, including turning components up to 1.1 m in diameter. The quality of the machine structure and column is assured by computer-aided engineering analysis that has increased rigidity by more than 15% compared with the preceding model, says Brother.

For further information
www.wmtcnc.com

PowerBridge from SHW now in UK

German machine tool manufacturer, SHW Werkzeugmaschinen, has introduced a portal machining centre with gantry drive for the production of large, high accuracy components. Called PowerBridge, it is available in the UK through sole sales and service agent, Geo Kingsbury.

The machine features a new toolchanger that exchanges HSK A 100 or equivalent tools while machining is in progress, and an operating platform that can travel with the spindle into the working area. Both are believed to be world firsts. Other highlights include automatic milling head replacement, liquid-cooled drives and the possibility to integrate turning by fitting a 250 rpm rotary table with torque drive.

Design and development of the innovative production centre by Austrian firm, Fill Machine Engineering, in partnership with SHW, was sponsored by the German Ministry of Economics.

The first PowerBridge was exhibited at the EMO show in Hanover last September.

For further information
www.geokingsbury.com

Scharmann Ecoforce cuts costs at KSB

By replacing two ageing horizontal boring machines with an Ecoforce 1 HT2 machining centre, a specialist in the supply of pumps, fittings and systems for the global energy and mining industries has reduced multiple (four/five) set-ups to one in some cases, halved cycle times, cut tooling costs by up to 50% and improved machining accuracies to within 6-8 µm on workpieces weighing up to 12 tonnes.

Able to drill, mill, turn and generate threads in a single setting, the machine installed by Starrag Group brand Scharmann is also processing parts with fewer tools than before – which means less toolchanging, which is therefore contributing to reduced cycle times. Also, by switching from carbide to ceramic tooling for the machining of an Inconel-clad bore, the machining time for this application has been slashed from 20 minutes down to just 2 minutes.

Processing workpieces with diameters up to 1250 mm (a mixture of small welded structures to barrel-type pump bodies), KSB – a long-time user of Scharmann machines – specified the Ecoforce 1 HT2 with 1250 x 1600 mm table and X, Y and Z axes travels of 2400 x 2000 x 3500 mm, plus 600 mm in W.

For further information
www.starrag.com

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High power, high speed gearboxes

Italian machine tool manufacturer, Jobs, has revealed that its JomaX 265 mobile gantry milling machine with vertical z-axis uses Redex gearboxes "We initially considered Redex's offer when it was launched with a complete double pinion gearbox unit that was already built with the mechanical preload by using a torsion bar," explains Maurizio Ferrari, director of the Mechanical Engineering Department. "This allowed us to manage the axis with only a single product and to work with more certain assembly times. At the time, Redex was practically the only company on the market capable of offering products adapted to our specific requirements."

For further information www.redex-andantex.com

Auction Spotlight

Cottrill & Co is facilitating an online auction of machines no longer required by Gorsey Manufacturing. Lots include: a Colchester 2000 CNC lathe; a Mori Seiki LG05-CL-200 CNC lathe; an Ajax Premier 260 CNC gap bed centre lathe; a Colchester Mascot 1600 gap bed centre lathe; a Colchester Chipmaster variable speed lathe; a Colchester Master centre lathe; and a MAS VR2 radial arm drill. Viewing is by appointment only. Bidding ends on 2 September at 15:00.
+44 (0)121 328 2424 www.cottandco.com

ES Group is conducting an online auction of equipment used previously by Maltby Engineering, Alton, UK. Lots include: Bystronic BySpeed 3015 and ByVention 3015 laser cutters; various Edwards Pearson RT4 and PR10 downstroking CNC press brakes; Maho MH1600S and MH800C CNC universal machining centres; a Mitsubishi MV60-C CMC VMC; and two Kitamura Mycenter CNC VMCs. Viewing is on 2 September (10:00-16:00). Bidding ends on 4 September at 15:00.
+44 (0)2380 461630 www.es-group.com

GoIndustry DoveBid is staging an online auction of machines located at various locations in Germany. Lots include machine tools by Chiron, Deckel, Gildemeister, Hermle, Hüller, Index, Kuka, Maho, Mikromat, Mitutoyo, Niedermeier, SMG, Stama, Stierli-Bieger, TOS, Traub, Trumpf, Waldrich Coburg, Weiler and more. Sale closes on 10 September at 12:00 BST.
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http://international.go-dove.com/en/event-18842

1st Machinery is hosting an online auction of machinery used previously by Alternative Precision Sheetmetal, Swansea, UK. Lots include: a Mazak New Turbo X48 Champion laser; a CSM CNC65 TDRE Electric two-stack, four-axis tube bender; an Amada Promecam ARIES CNC punch; an Amada TEG-160E punch and die grinder with Kitagawa 6" chuck; and a Donaldson Torit extraction unit. Viewing is by appointment. Auction date is 11 September at 15:00.
+44 (0)845 2871 290 www.1stmachineryauctions.com

Cottrill & Co is facilitating an online auction of a toolroom facility operated formerly by RSM Industries Ltd. Lots include: a Charmilles 510 EDM; a Charmilles 310 EDM; a Haas CNC mill; a Fadal CNC mill; a Correa CNC mill; a Rambaudi CNC mill; an XYZ CNC mill; Jones & Shipman grinders; conventional milling machines; conventional lathes; conventional drilling machines; and associated equipment. Press shop and welding shop equipment is also available in two separate auctions. Bidding ends on 7 October at 15:00.
+44 (0)121 328 2424 www.cottandco.com

FOR MORE AUCTIONS, SEE Pages 34 – 41

Auction Spotlight

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X Y Z: 500 x 340 x 520mm, Table 840 x 360mm, 40 – 7,000 rpm, taper BT40, Motor 7.5kW, Heidenhain TNC410, 16 Station ATC, Coolant, Low Volt light. **£ POA**

Leadwell T7 CNC Lathe (2008)
350mm max. diameter, 600mm Z axis travel, 520mm swing, 4500rpm spindle, 65mm bar cap, 12 station block turret, 15kW motor, FANUC Oi-TC, 250mm 3 jaw power chuck, tailstock, t/setter, swarf conveyor, tooling, manuals, coolant. **£ POA**

HAAS TL-2 CNC Toolroom Lathe (2006)
405mm max. diameter, 282mm swing over c/s, 1219mm b/c, 2000rpm, 76.2mm bar capacity, 8.9kW motor, HAAS control, Tailstock, QC toolpost, 250mm chuck, coolant. **£ 16,750**

Bridgeport VMC 800/22 Vertical Machining Centre (1998)
X Y Z: 800 x 510 x 500mm, Table 1000 x 490mm, 40 – 6000 rpm, taper BT40, Motor 11kW, Heidenhain TNC410, 22 Station ATC, Coolant, Low Volt light. **£ 21,500**

Doosan S550 LM CNC Lathe with C axis & Milling (2003)
550mm max. machining diameter, 1130mm max. machining Length, max swing over bed 710mm, 30 - 2500rpm spindle, 90mm bar capacity (102mm bore), 12 station VDI turret, 22kW spindle motor, FANUC 21i TB control with Manual i Guide, Tailstock, 15" 3 jaw power chuck, driven tools and static tools, manuals, fixed steady, coolant. **£ 54,950**

Yang ML60 A CNC Lathe (1998)
720mm max. swing, 550mm max diameter, 1100mm max. length, 40 - 2000rpm spindle Speed though 4 speed gearbox, 117mm bar cap, 12 station turret, 22/26kW motor, FANUC O-T, 15" 3 jaw power chuck, swarf conveyor, t/setter, manuals, tooling. **£ 39,950**

Hurco VM10 Vertical Machining Centre (2011)
X Y Z: 560mm x 356mm x 457mm, table size 762mm x 356mm, 10000rpm, 20 station ATC, DIN40 taper, Hurco MAX control, coolant – VERY GOOD CONDITION. **£ 32,500**

HAAS VF-2SS Vertical Machining Centre with 4th axis (2004)
X Y Z: 762 x 406 x 508mm, Table 914 x 356mm, 0 - 12000rpm, taper BT40, Motor 30Hp, HAAS Control, 24 Station ATC, Programmable Coolant, swarf auger, 4th Axis Rotary Table. **£ POA**

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yr. **2007** Ø 1200, SIEMENS 840 D, with measuring

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year **2005** Ø 150 x Mod 3 SIEMENS 840 D CNC-control !

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CNC LATHES

2004
GILDEMEISTER CTX 510
Fanuc 21i TB control.
320mm chuck.
3500 driven tools spindle speed.
42kW main motor.
1050mm turning length.
42 kW / 31kW spindle motor power.
680mm swing.
465mm swing over carriage.
£42,500

2012
LEADWELL V-80I
Siemens Control 828D with easy screen and replacement tool software installed.
Linear Scales on X & Y Axes. Bargain price for quick sale Ex-site. 8 off Cololant nozzles. Spindle air purge. Spindle speed 8,000 rpm. Traverses XYZ: 2040 x 1000 x 720 mm. Interlocked guards, 4th Axis Interface, LIKE NEW, Chip Auger.
£82,500

2003 DAEWOO MYNX 550
290mm cutting diameter. 492mm cutting length. 550mm swing. TWO machines available. 65mm bar. 210mm chuck. FANUC 18TB control. **£42,950**

1999 DAEWOO PUMA 230MSB
65mm bar. 210mm chuck. FANUC 18TB control. TWO machines available. **£32,500**

VICTOR VTURN 36
15" chuck. 1250mm between centres. 91mm bar capacity. 458mm cutting diameter.
X x Z: 12 x 15m/minute rapid feedrates. 37kW spindle motor. 2500rpm spindle.
650mm swing. 475mm swing over carriage. 10 station turret. FANUC OiT control.
£39,950

1999 CITIZEN B12- VI
12mm cutting diameter. 135mm cutting length. 21 / 15 / 12 m/min rapid feedrates. 12000 rpm spindle. **£17,500**

2007 LEADWELL LTC30P
115mm bar capacity. 480mm cutting diameter. 875mm length. 12/min rapid feedrates. 381mm chuck. 30kW spindle motor. **£38,950**

2008 GILDEMEISTER CTX 310 ECO
Hainbuch collet. 65mm bar. Fanuc control.
C axis & milling, swarf conveyor, tool setter, tailstock, barfeed, parts catcher, manuals, tooling. **£42,500**

2000 HARDINGE QUEST 51
51mm bar capacity, 200mm chuck, C axis & milling, tailstock, interlocked guards, 3 jaw chuck, collet chuck, tooling, C axis, 4 axis. **£29,950**

2004 DAEWOO LYNX 210
52mm bar capacity. 165mm chuck size. Fanuc 0iT control. Tool setter, tailstock, interlocked guards, collet chuck, parts catcher, tooling. **£22,500**

2008 DOOSAN PUMA 400 XLB
Long Bed With Steady *Available September 2014*
Swarf conveyor, tool setter, work steady, 3 jaw chuck. **£POA**

2000 ECOCA SJ 35B
£19,500
+
1995 ECOCA SJ 35G
Swarf conveyor, Tool setter, Tailstock, Gearbox, Tooling.
£17,500

2008 PINACHIO TAURUS 260 TEACH LATHE
Tailstock, interlocked guards,
low volt light, 3 jaw chuck, gearbox.
£21,000

2007 PINACHO TAURUS 310 TEACH LATHE
180mm quill stroke. 10m/min rapid feedrates.
105mm spindle bore. 11kw spindle motor.
Fanuc control. **£22,500**

HARDINGE CONQUEST 42 TWIN TURRET
42mm bar capacity. Fanuc 18T control.
228mm cutting diameter. 353mm cutting length.
7.5kW spindle motor. 16C spindle nose. **£17,950**

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MACHINING CENTRES

2000
BRIDGEPORT PORTAL 2000
Heidenhain TNC426PB control. Rapid feedrates: XYZ: 28 x 28 x 20m/minute. 13.5kW spindle motor. 12000rpm spindle. Table size: 2300 x 650mm. 22 station tool change. BT40 tool size. Traverses XYZ: 2000 x 800 x 500mm.
£49,950

2011
HURCO VM10
Hurco Winmax control. 8000rpm spindle speed. Table size: 762 x 356mm 20 station tool change capacity. DIN40 tool size. Traverses XYZ: 560 x 356 x 457mm.
£32,500

2005 HAAS SUPER VF4 with Trunion 5th Axis
TWIN PALLET and 5 AXIS. TWO machines in One! Push a button – it's a 5 axis machine, push another button – it's a 3 axis! *Available September 2014.* **£POA**

1994 HAAS VF-0
Traverses XYZ: 508 x 406 x 508mm. Table size: 914 x 356mm. HAAS control. 10Hp spindle motor power. BT40 Spindle Taper. **£POA**

1998 HAAS VF5 with 4TH AXIS
20HP vector drive spindle motor. 7500rpm spindle speed. 1321 x 584mm table. BT40 taper.
£29,000

2000 BRIDGEPORT VMC800 DIGITAL 22L
Heidenhain TNC 410 control. 7.5KW spindle motor. 6,000 rpm spindle. BT40 taper. 22 position tool change capacity. Traverses XYZ: 800 x 510 x 510mm. **£22,500**

1997 SUPERMAX YCM-VMC-165A
Heidenhain TNC410 control. 37Kw spindle motor. 4000rpm (2 speed gearbox) spindle speed. 30 station tool change capacity. BT50 tool size. **£29,950**

2007 KIRA HPC-30VB BT30 spindle taper. TWO 4th axis units. One for each pallet. Extra M codes. Rigid tapping, coolant bed wash. 15,000rpm spindle. 30 position tool change capacity. **£25,950**

1996 MORI SEIKI SH50 0.001° B axis movement. Fanuc 16M control. 12000 rpm spindle speed. 40 position tool change capacity. Traverses XYZ: 630 x 600 x 650mm. B axis. **£39,950**

2004 TRYAX MMC45 8,000 rpm spindle. 770 x 300 mm table. BT40 taper. 10 position tool change capacity. 450 x 300 x 250mm XYZ travers. 5.5kW spindle motor. PC based - Centroid control. **£17,500**

1998 HAAS VF3 1998 with 4th Axis
HAAS control. 20Hp (2 speed gearbox) spindle motor. 7500rpm spindle speed. BT40 spindle taper. Traverses XYZ: 1016 x 508 x 635mm. **£21,950**

2001 MAZAK INTEGREX 200Y
Mazatrol Fusion 640 CNC control. ±90deg B axis movement. 210mm chuck size. 520mm cutting diameter. 30m/min rapid feedrates. **£48,750**

2004 DAHLIH DMV800 Twin Pallet Machine
4th axis Nikken table to BOTH pallets. CHOICE OF TWO MACHINES! Fanuc 0iMD control. 11kW spindle motor. 8000 rpm spindle speed. 32 position QCTA. BT40 tool size. **£37,500**

2004 DAH LIH MCV 720 7.5kW spindle motor. FANUC OiMC control. 8000 rpm spindle speed. BT40 spindle taper. Table size: 950 x 460mm. Traverses XYZ: 720 x 460 x 510mm. **£17,000**

2001 HARDINGE VMC1000II
Siemens 810 control with Shopmill. 13kW spindle motor. BT40 spindle nose. 8000rpm spindle speed. Traverses XYZ: 1000 x 510 x 510mm. **£19,950**

2005 HARDINGE BRIDGEPORT 480P3
7.5kW spindle motor. 10000rpm spindle speed. 600 x 400mm table. Traverses XYZ: 480 x 400 x 330mm. Fanuc OMi control. **£19,950**

2000 FANUC ROBODRILL T14i
Fanuc 16iM control. Tool size BT 30. Spindle speed 8,000 rpm. Traverses XYZ 500 x 400 x 330mm. 14 Turret positions. In stock NOW. **£18,950**

2006 HARDINGE BRIDGEPORT 5AX 500 XP3
BT40 spindle taper. Heidenhain iTNC 530 control. 15000 rpm spindle. Traverses XYZ: 700 x 590 x 430 mm. **£59,950**

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CYBELEC DNC 30

SACHMAN T 10 GP
2000x1075 x900mm
Table : 2200x710mm
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Tool mag. 20 pos.
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Coolant Through spindle

MAZAK V515
1050x510x560mm
MAZATROL 640M-PC-FUSION-CNC

AMADA APX 100-30
100T – 3100mm – AMADA OPERATOR 2
7 axis

TOS FSQ 100
4000x1000 x1400mm
Table : 4000x1000mm
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Indexing table
Tool mag. 60 pos.
Many tools

NILES DP 2/S2
Max turning Ø : 2440mm
Plate Ø : 2000 mm

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20x3050mm – 4 Rolls

TRAUB TNA 700
Max swing Ø : 700mm
Max length : 1250 mm
Bi-turrets
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AMADA EUROPE 2510
20T. – Max thickness : 6.4mm
1270 x 2500mm – FANUC 18i-P – with loader

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6000x2950mm – HPC DIGITAL
PROCESS D610 – NETRAJET HP 125

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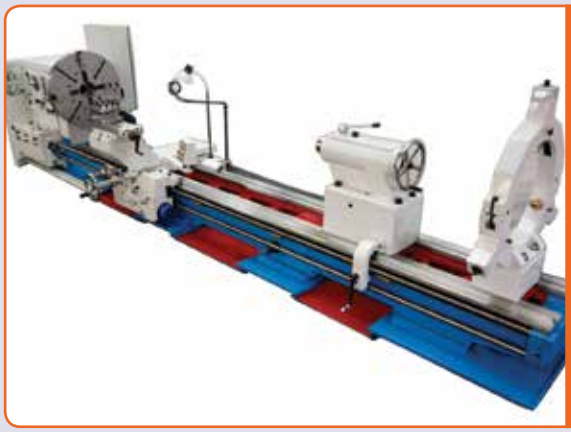

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Swing over bed: 1350 mm.
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Technical condition: very good.
Maximum workpiece diameter: 560 mm.
Maximum workpiece length: 2800 mm.

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Technical condition: very good.
Maximum workpiece diameter: 630 mm.
Maximum workpiece length: 3000 mm.

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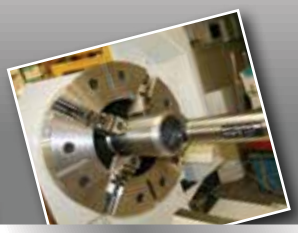

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OKK HM 4, 1998, 400mm twin pallet horiz, Fanuc 21iM, 1º indexing, through spindle coolant, bt40, 60atc, 8000rpm, swarf conveyor, probing. **£POA**

Doosan Puma 2600LY, June 2012, Fanuc i Series, C & Y Axis, hydraulic steady rest, barfeed interface, toolsetter, 12 stn turret, tailstock, max turning dia 376mm, length 1280mm, bar feed cap 76mm, 22/26kw. **£95,000**

Daewoo Puma MX2500S, 7 axis, 2005, Fanuc 18iTB, 2 x 250mm chucks, 40atc Capto C6, swarf conveyor, 250mm, max turning dia 550mm, turning length 1020mm, 26kw both spindle. **£110,000**

Citizen A20VIIPL, 2012, 7 Axis, Smart 320 mag bar feed, Fanuc 32i, full C axis main & sub spindles, long parts adaptor, max cutting length 165mm, rapids 32m/min, swarf conveyor, Absolent air mist. Only done test pieces. **£70,000**

Bridgeport VMC800/22 Digital, 1998, Heidenhain TNC410, table 1000 x 490mm, trav 800 x 510 x 500mm, 22atc, 6,000rpm. **£POA**

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Bridgeport VMC 500 16
with Heidenhain TNC 370 control, X-500mm, Y-340mm, BT 40 6000 rpm spindle, 16 tool ATC.
YOM 1998

Bridgeport VMC 560 22,
Heidenhain TNC 2500 control, 6,000 RPM, X- 560mm, Y-360mm movement, 22 tool ATC, YOM 1996

Colchester Tornado 100 CNC lathe with Fanuc control, tailstock, 12 station VDi turret, collet chuck, 51mm Spindle, 4,000RPM, tooling
YOM 1995

CMZ TC 30 YS CNC lathe with Fanuc 32i control, main & sub spindles with C-Axis on both spindles, driven tools, Y-Axis, 315mm power chuck plus collet chuck, 78mm bore, 800mm turning length, full tooling pke & LNS servo Bar feed, as New! YOM Dec 2013

Hardinge Elite 8/51 CNC lathe, Fanuc 21iT control, C-Axis & driven tool, 51mm collet spindle, 3 jaw chuck, Renishaw tool setting arm, programmable tail stock, parts catcher. YOM 2003

Haas SL10 TCE CNC Lathe
12 station turret, 6" Chuck, 5,000 rpm with Haas Servo Bar 3000 Bar Feed
YOM 2004

Mori Seiki ZL 203 4-axis CNC lathe MSX 501 control, twin turret tailstock, parts catcher, probes VIP short mag barfeed.
YOM 2006

Mori Seiki CL 203-B
MSG-803 control, 3 jaw chuck, Renishaw probing, swarf conveyor. In super condition!
YOM 2001

Hitachi Seiki HiTec Turn 23R III, Seicos L control, 10" chuck, quick change turret, tool setter, tailstock, swarf conveyer, tooling and manuals. In super condition! YOM 1998

Haas VF0E 20HP motor,
10,000 RPM, X-500mm, Y-350mm, BT 40 spindle, 4th Axis drive, 20 tool ATC
YOM 1998

Cincinnati Arrow 500 VMC with Heidenhain TNC 360 control, 6,000 RPM, 21 tool ATC, 4th axis head and chuck, 510 x 510 x 560mm movements. Immaculate! YOM 1997

Hurco VMX 60 /40
with Winmax control, 3D Surface Mould Sweep option, thru coolant, side mount 24 tool ATC, 10K RPM. YOM 2007

XYZ DPM 4000 with AGE 3 Control, 1000mm X-Axis Travel, power drawer bar, table guards. Immaculate!
YOM 2000

XYZ SMX 3500 Prototrak SMX Control with electric handle wheels, power drawer bar, programmable spindle speeds, DFX File Reader.
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Year of production: 2004
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Year of production: 1995
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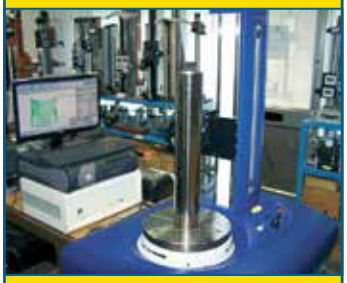

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Online Auction Sale

CNC Grinding, Milling and Machining Centres formerly used in the Aerospace Industry & Others

Cottrill & Co.

Bidding Ends: Wednesday 24th September 2014 at 3.00pm (UK Time) Viewing by Appointment only

- **(2) Jones & Shipman** Edgetek 5-Axis CNC Grinders with GE Fanuc 16M Controls (1995)
- **Jones & Shipman** Dominator 624 CNC Surface Grinder with GE Fanuc Series 210i-M Control, 4th Axis & Coolant/Filtration System (2002)
- **Huron** PU661 CNC Milling Machine with Heidenhain Control (Rebuilt by Rudolf Carne 1996)
- **Cincinnati** Lancer 2000 Vertical Machining Centre with Accramatic A2100 Control (1998)
- **Mazak** H400 Twin Pallet Horizontal Machining Centre with CAM-M2 Control (1987)
- **Hitachi Seiki** HG400 II Twin Pallet Horizontal Machining Centre with Fanuc 15-M Control (1993)
- **Modig** Profile Line 7200 CNC Extrusion Machining Centre with Fanuc Series 160i-M Control (2002)

For Full Information please visit our Website: www.cottandco.com

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Online Auction Sale

CNC Machinery no longer required due to Investment in New Equipment, formerly used by Hutton Engineering Precision

Cottrill & Co.
WORLDWIDE ASSET DISPOSALS

Bidding Ends: Thursday 25th September 2014 at 3.00pm (UK Time)

Viewing by Appointment only with the Auctioneer

- **Citizen** M32-V Multi-axis CNC Sliding Head Turning Centre with Mitsubishi Meldas Control, 32 x 320mm capacity, Main & Sub-spindle 8000rpm, 10-station Turret (Y-axis), Long Turning Attachment, Turret Tools & Iemca Boss 432r Bar Feed (2003)
- **Citizen** M32-III Multi-axis CNC Sliding Head Turning Centre with Mitsubishi Meldas Control, 32 x 320mm capacity, Main & Sub-spindle 8000rpm, 10-station Turret, Long Turning Attachment, Turret Tools, Iemca Boss 432r Bar Feed (2001)
- **Hitachi Seiki** Super HiCell 250 5-axis Turning & Machining Centre with Seicos 18T CNC Control, 500 x 500mm Turning Capacity, Y-axis, C-axis, 4000rpm spindle, 40-station ATC, Driven Tools (8000rpm) 2001)
- **Hitachi Seiki** HiCell 23 II 4-axis Turning Centre with Seicos 10L CNC Control, 255 x 500mm Turning Capacity, 4000rpm spindle, Y-axis, C-axis, 10-station turret, 12-station ATC, Driven Tools (3000rpm) (1998)
- **Startrite** V900F Vertical Bandsaw • **Prosaw** BS-330HAS Automatic Horizontal Bandsaw (2002)
- **Jotes** SPC-20b Hydraulic Surface Grinder, 200 x 500mm capacity
- **Conemaster** C-2 Bar Chamfering Machine

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Inspection: Monday, Sept. 22 and Tuesday, Sept. 23, 10 a.m.-4 p.m. EST

Toshiba MPC-E CNC Bridge Mill
New 2000

Makino A-81 CNC HMC
New 2007

Giddings and Lewis VTC1600 CNC
Vert. Boring Mill, New 2007

Parpas ML-120 CNC Floor HMB
New 2009

Toshiba TUD-13APC 2-Pallet CNC Vert.
Boring Mill, New 2003

Toshiba BP-150.R22 CNC HBM
New 2012 & 2007(2 Available)

Toshiba TUE-15 CNC VTL s
New 2007 (4 Available)

Toshiba TSS-C30 CNC Vert. Boring Mills
120 Tables, New 2012 & 2003 (2 Available)

FEATURING:

Parpas ML-120 CNC Floor Horizontal Boring Mill, New 2009
(2) Toshiba BTU-14, 5-Axis Universal Machining Centers, 2005 & 2002
(2) Toshiba TSS-C/30 CNC Vert. Boring Mills, 120" (3048 mm) Tables, 2012 & 2003
Toshiba TUD-13APC 2-Pallet CNC Vert. Boring Mill, 2003
(4) Toshiba TUE-15 CNC VTL's, New as 2007
Giddings and Lewis VTC1600 CNC Vert. Boring Mill, 78" (1980 mm), 2007
(2) Toshiba BP-150.R22 CNC Horizontal Boring Mills, 2012 & 2007
Toshiba BTD-200QF CNC Horizontal Boring Mill, 1996
Toshiba BTD-110.R16 CNC Horizontal Boring Mill, 2000
Toshiba MPC-E CNC Bridge Mill, 78" (1980 mm) X 236" (5994 mm) Table, 2000
Makino A-81 CNC Horizontal Machining Center, 2007
Mori Seiki NH6300 CNC Horizontal Machining Center, 2006
(2) Mori Seiki NH5000 CNC Horizontal Machining Center, 2008 & 2006
Mori Seiki MH1000 CNC Horizontal Machining Center, 2000
Okuma MA-400H Space Center CNC Horizontal Mach. Center, 2005
Toshiba CNC Horizontal and Vertical Machining Centers
Fadal and Deckel/Maho CNC Vertical Machining Centers
Okuma and Ikegai CNC Turning Centers
(3) AMET Clad Welding Cells
(4) Prototrak CNC Bed Mills
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September 11th Collective Auction

1st Machinery Auctions are offering various machines from various UK sites. Please see each lot for details.

Online Auction Date: Thursday 11th September 2014 – 3pm BST.
Viewing Dates: Appointment only – info@1stmachineryauctions.com

LVD LASER HELIUS 2513

Fadal 4020 VMC (Approx 1990)

Hurco BMC20 Vertical Machining Centre (1994)

Kitamura H300 Horizontal Machining Centre

Hardinge Conquest T42 2 axis CNC Lathe with Dual Turrets

HARRISON ALPHA 460 CNC Lathe

EUROPA CENTURION Universal Mill with Knuckle type 50int head

COOLJET Systems 70-30 High Pressure Unit

- Bridgeport EZ Path CNC Lathe (Approx 1997)
- ELBO AR1000 Tool Presetter
- Cutmaster ST3000
- P J Hare, 12 Ton Hydraulic 12 BS Press 1981
- HARE 5BS Hydraulic Press
- HME GP 75 Power Press
- TOS FA3A U, Universal milling machine
- Lumsden 48" Rotary Grinder
- Meddings Drill with Pneumatic Feed Unit and Speed Indexer
- Ingersoll-Rand Compressor 3hp 150ltrs Model EN3V30B
- ABAC 150 3hp 150ltrs Ps 11Bar Compressor
- SPRINT "E1" Capacity Plugboard Auto Single Spindle with Bar Feed
- Accuratool Model 6D 1" Auto Turret Lathe
- 5/8" Brown & Ward CAM Auto Model 475 With Magazine Bar Feed
- 5/8" Brown & Ward CAM Auto with Single Bar Feed
- LK G80 CMM
- Startrite C350 Saw
- Crane Jib & Hoist

Alternative Precision Sheetmetal Ltd has a selection of machinery available due to the purchase of new machinery. Please see each lot for details

Online Auction Date: Thursday 11th September 2014 – 3pm BST. Location: Swansea, South Wales
Viewing Dates: Appointment only – info@1stmachineryauctions.com

CSM CNC65 TDRE Electric 2 Stack 4 Axis Tube Bender (2008)

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- Sand Blaster Cabinet
- Donaldson Torit 2616501 Extraction Unit
- Vertical Linisher
- Progress Drill
- Meddings Drills – Set of 2
- Startrite Drills – Set of 3

Impcross has a selection of machinery available due to the purchase of new machines.

Online Auction Date: Thursday 11th September 2014 – 3pm BST. Location: Stroud, Gloucestershire
Viewing Dates: Appointment only

Matsuura MAM-500HF PC-11 HMC (1995)

Matsuura RA-IIF I80 VMC (1996)

Wealdpark Limited has a quality CNC lathe for auction due to the purchase of new machine.

Online Auction Date: Thursday 18th September 2014 – 3pm BST. Location: St. Helens, Merseyside
Viewing Dates: Appointment only

Doosan Daewoo Puma 2000SY 5 Axis CNC Lathe (07/2002)
LNS Hydrobar Sprint Bar Feed with Driven Tooling Package, Fanuc 18iT control.

September 18th COLLECTIVE AUCTION

1st Machinery Auctions are offering various Machines from Various UK Sites.
Please see each lot for details.

Online Auction Date: Thursday 18th September 2014 – 3pm BST.
Viewing Dates: Appointment only – info@1stmachineryauctions.com

Bridgeport Portal VMC 1500 VMC (1997)

XYZ Vulcan 850 Vertical Machining Centre (1999)

Supermax Model YCM-V65A (2000)

Mazak Quick Turn 28N

Protila Heavy Duty Mill Model 6R-13P with DRO

Adcock & Shipley 2S

LNS Hydrobar Sprint Automatic barfeed Unit (2005)

Qualters & Smith Sawmaster Automatic Saw

- Hoffman Type RWNC – 160 2 axis tilting cnc rotary table
- Fadal 4th axis
- Renishaw SP2-1 spindle probe in box with booklet and parts
- Renishaw spindle probe with cables in box
- Barfeed support unit
- Walter Rt 320 G Rotary table, 320mm Diameter
- New & boxed 550mm faceplate to Suit lathe
- New & boxed 400mm 4 jaw chuck with key rated at 850 rpm
- Coventry Gauge Grade 1 Slips (Part Set in box)
- HOLBRIDGE MFG Co. RADII CUTTER Model 4-S
- BT50 Mobile Tool Trolly
- Mobile Bin Storage Rack
- Tool Grinder
- Ward No2C Lathe with Turret & Saddle Feed

Ward 3DS lathe Air chuck & holds 4o2 collects 2" Bore

- Herbert Preoptive. No5 Senior Lathe
- Herbert 54 Senior Preoptive Lathe
- Bridgeport Series II
- Beacon Grinder Inc. Mag Chuck
- Pollard Spindle Driller with Power Feed
- Progress Drills - Set of 3
- Sweeney Fly Press No.6

Clint Hill Engineering Ltd has a selection of CNC machinery due to the purchase of new machinery.

Online Auction Date: Thursday 25th September 2014 – 3pm BST. Location: St. Helens, Merseyside
Viewing Dates: Appointment only

Kia V25P Twin Pallet VMC

2x STAR RNC16 CNC Sliding Head Lathes With Bar feed

Riverside Precision Engineering (Blackburn) Ltd has 2 lathes available due to the purchase of new machinery.

Online Auction Date: Thursday 25th September 2014 – 3pm BST. Location: Blackburn
Viewing Dates: Appointment only

Mazak QT 10 MS with Barfeed (1996)

Mazak QT 10 MS with Barfeed (1992)

Martech Engineering is moving and has 2 very low hour quality Hurco VMCs available.

Online Auction Date: Thursday 25th September 2014 – 3pm BST. Location: Blackburn
Viewing Dates: Appointment only

Hurco BMC30 HT (1996) 8250hrs

Hurco BMC30 (1998) 5590hrs

Parker Design Engineering Ltd has excess items available due to restructuring.

Online Auction Date: Thursday 25th September 2014 – 3pm BST. Location: Blackburn
Viewing Dates: Appointment only

Bridgeport VMC560/22 (1996)

Thermal Dynamics Cutmaster 51 Plasma Cutter

CNC 4th Axis

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Online Auction Sale

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Bidding Ends: Wednesday 17th September 2014 at 3.00pm (UK Time)

Viewing by Appointment only

- **Bridgeport** VMC 1000 22 CNC Vertical Machining Centre with Heidenhain TNC 330 Control, 22-Station ATC, BT40 Tooling, Table Size: 1000mm x 500mm (1997)
- **Colchester** CNC -2000L Lathe with GE Fanuc OT Control, 8-Station Turret, 8" 3-Jaw Chuck & Tailstock
- **Excel** 1500 Gap Bed Lathe with Programmable DRO, 2& 3-Point Steadies
- **Herbert** BSA 2D Lathe
- **Thomas** Model SAR 220 Horizontal Saw (1996)
- **MEC** 300S 12" Chopsaw
- **Clark** Gas Fork Lift with Side Shift
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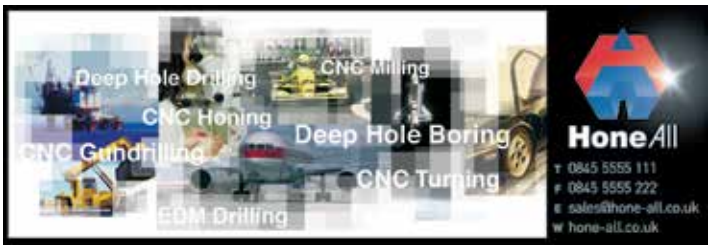

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Internal Grinding Machine
VOUMARD 403 CNC
No. 12438 new in: 1990
internal diamet 300 mm
grinding depth 300 mm
swing diameter 400 mm

Thread Milling- and Hobbing Machine
HECKERT ZFWVG 250 x 2000/3
No. 13329 new in: 1987
workpiece dia. 500 mm
hobbing length 2000 mm

Gear Grinding Machine
HOEFLER NOVA 1000 CNC
No. 11987 new in: 1995
max. wheel diam 1000 mm
gear width 580 mm

Gear Hobbing Machine - Horizontal
STANKO-KOLOM 5 B 370 x 3000
No. 08332 new in: 1985/10
max. wheel diam 500 mm
gear width 3000 mm

Vertical Turret Lathe - Double Column
STANKO-SEDIN 1 L 532 CNC
No. 13499 new in: 2006
faceplate diame 2800 mm
swing diameter 3150 mm
turning height 1600 mm

Cylindrical Grinding Machine - Universa
STUDER S 40-4 CNC
No. 12439 new in: 1987/02
grinding diamet 440 mm
grinding length 1000 mm
centre height 225 mm

Gear Grinding Machine
HOEFLER SUPRA H 1253
No. 01040 new in: 1991 -like n
max. wheel diam 1250 mm
gear width 720 mm

Gear Hobbing Machine - Vertical
PFAUTER P 2001/3000 CNC
No. 12370 new in: 1983
max. wheel diam 3000 mm
gear width 1200 mm

Vertical Turret Lathe - Single Column
TOS-HULIN SKIQ 12 CNC B
No. 09492 new in: 1995/06/11
faceplate diame 1250 mm
swing diameter 1500 mm
turning height 1785 mm

Travelling column milling - fixed table
SORALUCE SL 6000 CNC
No. 13500 new in: 1993
travel -x axis 4500 mm
travel -y axis 910 mm
travel -z axis 810 mm

Gear Grinding Machine
REISHAUER RZ 361 S
No. 09139 new in: 1992/05/12
max. wheel diam 360 mm
gear width 180 mm

Gear Hobbing Machine - Vertical
PFAUTER P 2500 B
No. 11748 new in: 1974
max. wheel diam 2500 mm
gear width 1050 mm

Turning Automatic Lathe - Longitudinal
TORNOS Deco 2000/13
No. 13301 new in: 2000
turning diamete 0 mm
spindle passage 13 mm
turning length 180 mm

Table Type Boring and Milling Machine
UNION BFT 130 CNC
No. 10239 new in: 1994
spindle diamete 130 mm
x-travel 2785 / 3000 mm
y-travel 2520 mm

Gear Hobbing Machine - Horizontal
GLEASON-PFAU P 400 H x 4000 CNC
No. 11178 new in: 2013
max. wheel diam 440 mm
gear width 4000 mm

Gear Testing Machine
KLINGELNBERG PFSU 1600 HP
No. 09135 new in: 1985/95
max. wheel diam 1600 mm
gear width 250 mm

more information and technical details: www.kemmerich.biz

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HIGH QUALITY USED MACHINES

CNC HEAVY DUTY HORIZONTAL LATHE
SNG 2500 X 12000
CNC SIEMENS 840 D,
Rebuilt/modernised in 2007.
Max Ø 3.880 MM X 12.000 MM.
Weight between centres 300 tons. *Video at* ***www.guax.se***

CNC HEAVY DUTY LATHE
Ø 5.000 MM X 20.000 MM TOSHIBA LCS-40200A
CNC Fanuc 18i-T model B, new electric, new main motor, all installed in 2008 (retrofit). Machine Built New in 1976. 2 x support, 2 x Control panel, 2 x Heavy Duty Steady rests 200 tons each. *Video at* ***www.guax.se***

CNC VERTICAL LATHE
FRORIEP 25/40 KZ
with CNC Sinumerik 840 D Sl. Table diam. 4.200 mm. Max. swing 4.500 mm. Max height 3.000 mm. Ram travel 1.800 mm. Table load 25 ton. Retrofitted 2009. Condition as new.

CNC CAMSHAFT MILLING MACHINE
HELLER RFN 10-2-1.250 with SINUMERIK 840D. The machine has 2 milling units. It is suitable for milling cam profiles and the space between lobes on camshafts.Max Diam 450 mm; Max length 1.250 mm. New in 1999.

VERTICAL BORING MILL
SKODA SK 50 A
with Side Head & Two swivelling ram heads, Hydrostatic table bearings. Built 1972. Table diameter : 4750 mm. Table weight capacity : 45 Tons.

CNC HORIZONTAL TABLE BORER
TOS WHN 13.4
with HEIDENHAIN TNC 530i.
New 1991/Modernised 2008.
X-2.000; Y-2.000 mm; Z-1.150 mm; W-800 mm.
Spindle 130 mm, ISO 50/36 kW.
Rotary Table 1.800 mm x 1.600 mm/12 Tons.

GEAR MILLING MACHINE
MODUL ZFWZ 8000
New 1973.
Max gear diam 8000 mm.
Max modul 40,
max modul with single indexing 75.

CNC ROLL GRINDING MACHINE
WALDRICH SIEGEN WST IV 70 X 13 000
with HERCULES / WALDRICH SIEGENS latest CNC System Beckoff and crowning. Built: 1981, modernised 2008 by HERKULES. Max roll Ø 2000 mm. Max. length of roll: 13000 mm. Max weight of roll 70 ton.

CNC HORIZONTAL BORER
TOS WPD 130
with HEIDENHEIN TNC 430i. Spindle diam 130 mm, Spindle speeds 1.800 rpm. W-spindle 550 mm, Z-Ram 805 mm. X-8.000 mm. Y-2.525 mm. Rotary table 2500 x 2.000 mm/16 tons. Travel 1.450 mm. Angle head. New 1999.

CNC HORIZONTAL BORER
SCHARMANN HEAVYCUT 3,2 TDV 5
with CNC Siemens 840 C. X-8.000 mm; Y-3.000 mm; Z-1.200 mm; W(Ram) 1.000 mm; Z+W-2.200 mm. Spindle diam 160 mm/ISO 50/850 rpm/60kW. Table 3000 x 3000 mm/40 Tons/360 000°; Built 1979, modernized with new CNC etc ca 2000.

CNC HORIZONTAL BORER
SCHIESS FRORIEP BF 160 T 40
with Heidenhain 530 I, Modernised 2007. Spindle diam 160 mm/ISO 50/30kW. Milling spindle ISO 60. X-3950 mm; Y-2500 mm; W-2500 mm; Z-1000 mm; U-240 mm. Rotary Table 2.250 x 2.750 mm/40 Tons.

For more information and other machines please visit our website: www.guax.se