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13 APRIL 2015

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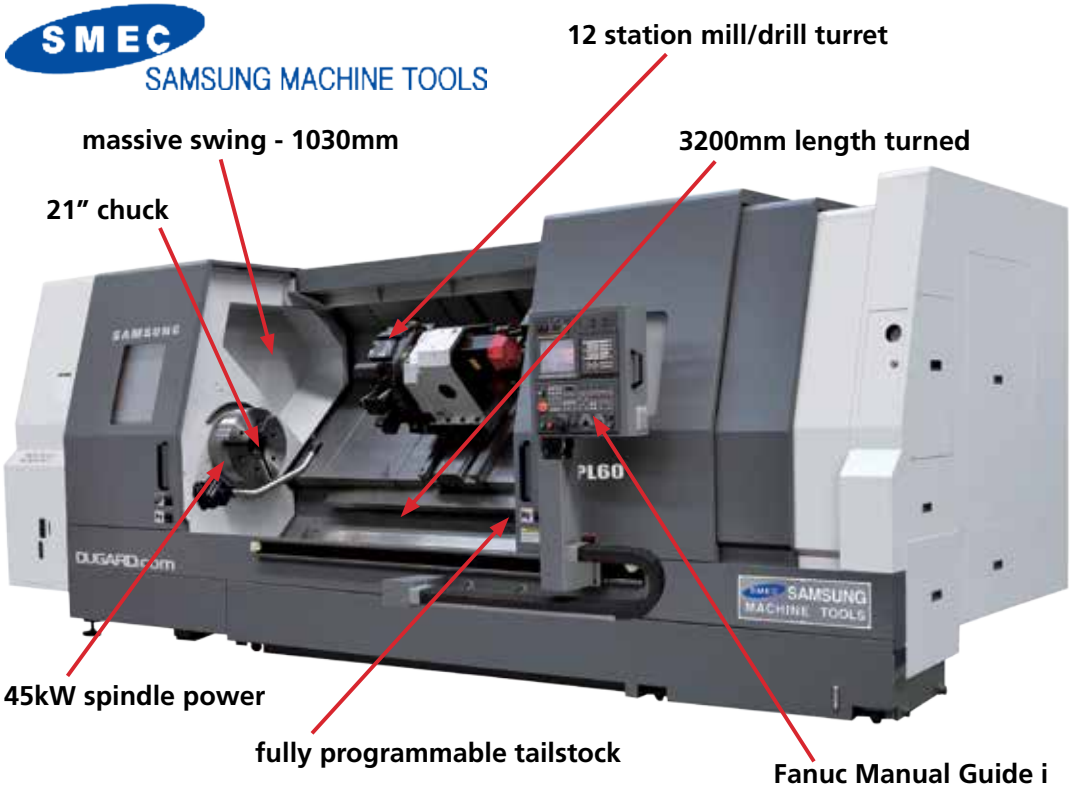

List price

Samsung PL60L	2 axis CNC turning centre	**£214,334**
Samsung PL60LM	3 axis CNC turning centre	**£236,250**

Options
Y axis
320mm or 381mm spindle bore

In stock

Samsung PL45L	2 axis CNC turning centre	**£160,888**
Samsung PL45LM	3 axis CNC turning centre	**£179,598**
Samsung PL45LY	4 axis (inc Y axis) CNC turning centre	**£179,598**

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CNC Gantry Type Milling Machine
HARTFORD HB 3150
CNC MITSUBISHI MELDAS
Year of production: 1998
Table: 3100 x 1500 mm
Working travel X/Y/Z: 3000/1500/700 mm

~~115 000 EUR~~ **91 000 EUR**

Boring Machine
JUARISTI MDR 130 CM
Digital readouts HEIDENHAIN
Modernized in: 2005
Working travel X/Y/Z/W: 10000/2730/920/850 mm
Rotary table: 2500 x 2000 mm

CNC Vertical Machining Center
DAEWOO MYNX- 540
CNC SIEMENS 810 D
Year of production: 2005
Working travel X/Y/Z: 1020/510/625 mm
Table: 1200 x 500 mm
Tool magazine: 24 pcs

CNC Vertical Machining Center
MATSUURA RA-2G
2 pallet
CNC YASNAC
Working travel X/Y/Z:660/460/485 mm
Pallet: 720 x 440 mm
Tool magazine: 30 pcs

CNC Lathe
SPINNER TC 52 MC
Year of production: 2006
CNC SIEMENS 810 D
Max. turning diameter: 280 mm
Turning diameter over bed: 400 mm
Spindle speeds: 5000 rpm

CNC Lathe
QUICKTECH XP4-60 SM
Year of production: 2005
CNC QUICK TECH
Spindle bore: 68 mm
Max. bar diameter: 60 mm
Spindle speeds: 4000 rpm

~~79 000 EUR~~ **72 000 EUR**

CNC Laser Cutting Machine
BYSTRONIC BYVENTION 3014
Year of production: 2007
Table: 3000 x 1500 mm
Laser power: 2 200 W
Hours machine on: 17 500
Cutting hours: 7 300

~~65 000 EUR~~ **60 000 EUR**

CNC 7 axis Press Brake
SCHIAVI STP-cs 324
CNC T2000
Year of production: 2005
Thrust: 320 T
Bending length: 4400 mm
Stroke: 300 mm

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Sales Department

CNC 7 axis Press Brake **SCHIAVI STP-cs 324 CNC T2000**
Year of production: 2005
Thrust: 320 T
Bending length: 4 400 mm

~~65 000 EUR~~ **60 000 EUR**

CNC Laser Cutting Machine **BYSTRONIC BYSTAR 4020**
Sheet metal magazine CNC BYSTRONIC
Year of production: 2008
Laser power: 6000 W
Table working surface: 4000 x 2000 mm
Resonator hours: 20 979 h

~~260 000 EUR~~ **220 000 EUR**

CNC Laser Cutting Machine **TRUMPF TRUMATIC L3030**
2 exchangeable tables loading system for sheet metal
CNC SIEMENS 840 D
Year of production: 1999
Laser power: 3000 W
Table working area: 3000 x 1500 mm

CNC Laser Cutting Machine **LVD IMPULS 6020 CNC FANUC 160i-C**
Year of production: 1996
Laser power: 3000 W
Table area: 6250 x 2050 mm
Working travel X/Y/Z: 2040/6050/280 mm

CNC Bending Center **WEINBRENNER B 12/3060/225/2 CNC SINUMERIK 880**
Year of production: 1997
Working area:
- max: 1500 x 3060 mm
- min. 200 x 400 mm
Dimensions of bending material: 2 mm

~~85 000 EUR~~ **65 000 EUR**

CNC 6 axis Handling **Robot KUKA**
2 x **KUKA KR 150 L 110- 2 F 2000**
1 x **KUKA KR 100**
Year of production: 2006/2007
Price per unit **16 000 EUR**
Price per package within the purchase of more than one machine **15 000 EUR**

CNC Robot **ABB IRB 2400/16**
2 pallet
Year of production: 2004
Max. robot reach: 1 550 mm
Max. robot capacity: 20 kg
Milling heads magazine: 3 pcs

CNC Surface Grinder **JONES & SHIPMAN CNC GOODWIN**
Year of production: 2002
Magnetic table: 1000 x 500 mm
Max. weight on table: 1 200 kg

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MACHINERY TRADE INTERNATIONAL
Appleby House, Headley Road
Leatherhead, Surrey KT22 8PT
Telephone: +44 (0)1622 859404
Fax: +44 (0)1372 373876
www.mtionline.com
enquiry@machinerytradeinternational.com

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HOW TO CONTACT US:

GENERAL ENQUIRIES
Telephone: +44 (0)1622 859404
Fax +44 (0)1372 373876
enquiry@machinerytradeinternational.com

ACCOUNT MANAGER
Caroline Heath
Telephone: +44 (0)796 7098 094
caz@machinerytradeinternational.com

SALES DIRECTOR
Giovanni Cerrina Feroni
Telephone: +39 (0)346 233 0694
giovanni@machinerytradeinternational.com

SALES ADMINISTRATOR
Helen Barlow
Telephone: +44 (0)1233 280987
Fax +44 (0)1622 859402
admin@machinerytradeinternational.com

PRODUCTION CO-ORDINATOR
Jon Anstee
admin@machinerytradeinternational.com

GENERAL MANAGER
Janet Barlow
Direct Line: +44 (0)1622 859404
Direct Fax: +44 (0)1622 859402
janet@machinerytradeinternational.com

CIRCULATION
Paul Elsegood
paul@elsegood.co.uk

CONTRIBUTING EDITOR
Steed Webzell
steed@machinerytradeinternational.com
Mobile: +44 (0)797 421 4839

PUBLISHER AND CEO
Bob Sadat
Direct Line: +44 (0)1372 372073
Mobile: +44 (0)7967 098090
bob@machinerytradeinternational.com

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Fermat acquires Lucas Precision

Fermat Group, a producer of horizontal boring mills from the Czech Republic, has announced the acquisition of Lucas Precision of Cleveland, Ohio, the company's importer and service organisation in the US. In addition, the Fermat Group has announced a name change of the incorporated company to Lucas, A Fermat Group Company, together with the publication of a new logo.

Jiri Ferenc, one of the owners of Fermat Group, says: "Lucas first became associated with Fermat in 2010 and quickly became the exclusive importer of Fermat products in the US. The purchase of Lucas will allow Fermat to focus on the US market, develop a network of dealers and provide complementary services in training and technology in order to satisfy customer needs for precise and effective machining."

For further information
www.fermatmachinery.com

Schunk takes to the road

Schunk, a manufacturer of clamping and gripping products is taking to the road by conducting a roadshow with its robot accessory product range. The events will be staged at a variety of venues around the UK between 18 and 22 May. The roadshow will include quick-change systems, rotary feed-through units, collision and overload protection devices, force sensors, compensation units, insertion units and handling units.

The schedule will see the Schunk team visit the Bristol Robotics Laboratory on 18 May, the Daresbury Park Hotel in Warrington and the AMRC in Sheffield on 19 May, and then Washington, Tyne & Wear on 20 May. The tail end of the week will see Schunk demonstrate its product lines at the Holiday Inn Hotel in Milton Keynes on 21 May with the show finishing at the Manufacturing Technology Centre in Coventry on 22 May.

For further information
www.gb.schunk.com

Hexagon purchases Q-DAS

Hexagon AB has acquired Q-DAS, an international software company in SPC solutions for industrial manufacturing. Furthering Hexagon's strategy to expand its portfolio in this area, the Q-DAS acquisition adds software to support the data management needs of factories. Based in Germany, Q-DAS has offices and partner distribution companies around the world. Already compatible with both Hexagon and third-party solutions, the Q-DAS portfolio is used in manufacturing sectors where high production volumes and dimensional quality needs require statistical analysis – like the automotive sector. Q-DAS showed turnover for 2014 of circa €15m. The company will be consolidated following regulatory approvals. Hexagon and Q-DAS intend to maintain their position in relation to technical partners.

For further information
www.hexagon.com

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* Available with or without Quill

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RAL 12
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Distribution agreements

ITC has become the new UK reseller for the BIG Daishowa Seiki line of toolholders and the Kaiser brand of boring tools. The addition of two new brands to the ITC stable has been formed as the result of a long-standing partnership between Japan's BIG Daishowa and Kaiser of Switzerland. This relationship sees Kaiser use its sales network in Europe to support the BIG product line, while Kaiser products are sold in Asia through the Big Daishowa network.

For further information www.itc-ltd.co.uk

Roemheld appoints MD

Terry O'Neill has been appointed as the managing director of Roemheld (UK). Previously acting as joint managing director with Bill Neal, Mr O'Neill has now taken over the role on a full-time basis. Mr Neal will continue in the role of marketing director for the company until his retirement at the end of 2015. Mr O'Neill says: "2015 is an exciting year for Roemheld as we continue to bring new products to new markets, including health and safety and the energy sector. I have a great team behind me and I am proud to be taking the helm at this key time for the company."

For further information www.roemheld.co.uk

AMPD move

To help nurture sustained business growth, the Additive Manufacturing Products Division (AMPD) of Renishaw has relocated to a larger site in Stone, Staffordshire. The new, 90,000 sq ft, facility is on Brooms Road, Stone Business Park. The site will incorporate one of a network of global AM solutions centres where companies interested in the technology can trial Renishaw's systems and evaluate the suitability of AM in a dedicated 'hot cell', before moving towards system ownership.

For further information www.renishaw.com

Dugard welcomes David Martin

Machine tool specialist Dugard has appointed David Martin (pictured, right) as its new sales manager for Scotland. Effective from 7 April, Mr Martin has a wealth of engineering experience gleaned over 27 years in the industry. Starting as an apprentice toolmaker when he left school, Mr Martin has worked for various engineering companies over the years, building an impressive repertoire of skills.

Most recently he's been in sales and management roles, utilising his experience in production engineering to provide the right solutions to his customers. Mr Martin, who describes himself as "very client focused", says: "I love building relationships with customers. I think it's really important that our customer network has the trust and confidence to pick up the telephone, at any time, for anything." Mr Martin attended the recent open house at Dundee-based Dugard customer, Diemax Precision.

For further information www.dugard.com

XYZ open houses attract customers

XYZ Machine Tools' first two open houses of 2015 marked a continuation of the positive sales trend from 2014, with total sales from the events held at its headquarters in Devon and at its showroom in Blackburn in excess of £1.3m. The next XYZ open house takes place in Livingston on 22-23 April.

"The two initial open days of 2015 have been a fantastic success with engineers and buyers from almost 60 companies taking the time to come and talk to us," says Martin Burton, sales manager at XYZ. "More encouraging was the fact that many of them arrived ready to place orders, there and then, with many more potential sales in the pipeline as a result of discussions that took place. The two events saw 34 machines sold."

For further information www.xyzmachinetools.com

£1.3m order for Holroyd

In an order valued at £1.3m, Precision Technologies Group company, Holroyd Precision, is to supply a helical rotor and thread grinding machine to a North American screw compressor manufacturer. The machine, a Holroyd TG 350, will be delivered later this year and will be used to grind screw rotors for use in industrial refrigeration technologies. Holroyd Precision's sales director, Steven Benn, says: "We are delighted to have secured this important order – especially as we faced considerable competition during the tendering stages. However, we were recognised for the uncompromising standards that our grinding machine technologies offer."

For further information www.holroyd.com

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Auction Spotlight

Peaker Pattinson is holding an online auction of machines used previously by Esco UK Ltd, Guisborough, UK. Lots include including core/shot, melt/furnace and sand plant/mould handling foundry equipment, as well as: an Archdale 1100 mm radial arm drill; a Herbert twin-spindle drill; an RJH Bandfacer 100 mm horizontal belt linisher; an Excel d/e grinder; 2 x 12" disc sanders; and Fintec 75 mm vertical belt linishers – one with extraction. Viewing is on 14 April 2015 by appointment only. Auction date is 16 April. +44 (0)1778 590111 *www.ppauctions.com*

New England is facilitating an online auction of assets used previously by PJ Allen & Sons, Oldbury, UK. Lots include: an XYZ Proturn 420 CNC lathe; an XYZ DPM CNC bed mill; an XYZ 4000 bed mill; three KRV 3000 turret mills; a Bridgeport turret mill; a TOS SN 63C gap bed lathe; an XYZ 1600 gap bed lathe; Colchester Mastiff and Triumph gap bed lathes; Jones & Shipman 1300, 1307, 1011 and 540 grinders; and Myford MG12-HP and MG12-HA grinders. Sale closes from 14:00 on 16 April. +44 (0)121 544 9867 *www.newengland.co.uk*

Troostwijk is conducting an online auction of machines used previously by Metalworking Machines & Tools, Arendonk, Belgium. Lots include: two Trumpf tube laser cutting machines, including a TubeMatic built in 2006; a Mazak SQT-10MS CNC lathe; a Matsuura CNC milling machine with pallet changer; an Amada press brake; compressors; tools; transformers; welding equipment; a forklift truck; a Mercedes bus; lifting equipment; and office equipment. Viewing is on 20 April (09:00-16:00). Auction date is 21 April. +32 (03) 287 6262 *www.troostwijkauctions.com*

Cottrill & Co is staging an online auction of CNC machines used formerly by NWP Engineering. Lots include: a Haas VF3 VMC; a Colchester Tornado 220M lathe; a Haas 0 VMC; a Mori Seiki SV-400 VMC; a Mori Seiki SV-50/40 VMC; a Matsuura H-Plus HMC; a Hitachi Seiki TS15 lathe; a Dugard 850 VMC; and a Matsuura RAIG twin-pallet VMC. Viewing is by appointment only. Bidding ends on 28 April at 15:00. +44 (0)121 328 2424 *www.cottandco.com*

1st Machinery is hosting an online auction of machines used previously by HN Harben, Wolverhampton, UK. Lots include: a Hardinge Talent CNC lathe; two Bridgeport Interact 1 turret mills with Heidenhain CNCs; two Adcock & Shipley horizontal mills; a Richmond horizontal mill; a Colchester Triumph 2000 lathe; a Colchester Round Head lathe; an Abwood rotary grinder; and a Jones & Shipman 540 surface grinder. Open day to be confirmed. Auction ends on 30 April. +44 (0)2476 992205 *www.1stmachineryauctions.com*

UPCOMING FEATURES

20 April
Cutting tools and toolholders

27 April
Bending and forming

4 May
CNC mills and machining centres

11 May
Robots and automation

FOR MORE AUCTIONS, SEE Pages 36 – 45

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- 20~11,000rpm speed range
- 33/33/25 m/min rapids
- 24 station carousel type ATC
- BT40 spindle (CAT flange opt)
- Pneumatic counter balanced head

Search for "Dugard Machine Tools"

Mazak unveils Smooth technology

Smooth Technology from Mazak incorporates the new Mazatrol SmoothX CNC alongside new machine hardware and servo systems to deliver an improved operator experience, faster machining times and further integrate CNC into the overall factory management system. Mazak says the result is a breakthrough in CNC which uses intuitive operations in a similar manner to smartphones and tablets.

As with all Mazak technology, SmoothX is designed with ergonomic comfort for the operator in mind. The operating panel boasts a 19" touch screen yet is 36% smaller than its predecessor and can be rotated to suit the posture of the operator.

According to Mazak, the launch of SmoothX also marks a major leap forward in usability with the development of a new graphical user interface (GUI), designed in conjunction with industrial designer Ken Okuyama. It features five new process home screens that present critical data in a single page view, while simplifying the key operational stages: from part programming, management of tool data and set-up; through to the actual machining cycle and machine maintenance.

The new Quick Mazatrol interface for SmoothX reduces the process time and number of keystrokes required to enter a conversation program by 38% compared with its predecessor. This is achieved by the use of touch screen technology and real-time processing of the 3D part shape in a simultaneous view as the program is compiled.

Editing is made simple by touching the displayed 3D part to reach the feature in the program. In addition, SmoothX features a new 3D assist function to enable the import of 3D CAD to the CNC, further reducing programming time.

SmoothX also features a range of new Mazatrol programming functions such as intelligent pocket milling, which can reduce machining time by up to 60% compared with conventional offset toolpaths, says Mazak. Crucially, SmoothX is capable of processing speeds up to four times faster than its predecessor, enabling it to respond to the demands of the latest generation of servo motors.

For further information www.mazakeu.com

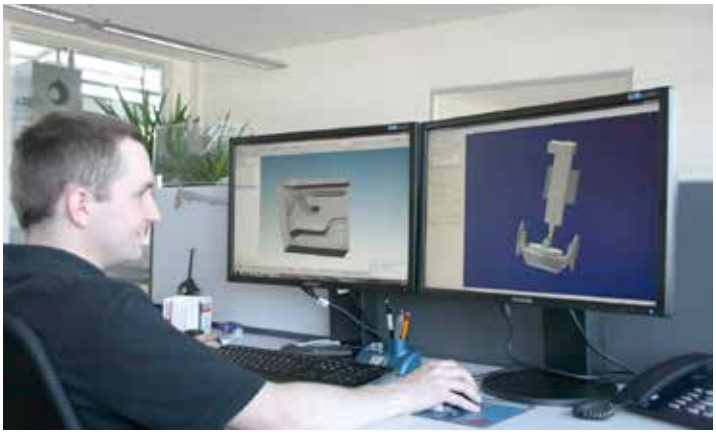
A CAM system for all applications

German subcontractor, HF-Zerspanungstechnik (HFZ), says its success in industries such as toolmaking and motorsport can be credited in part to NC programs for 2½D to 5-axis simultaneous machining that are created with HyperMill CAM software from Open Mind. The integration of HyperMILL with machine tools at HFZ is interlinked through iTNC 530 CNC controls from Heidenhain.

For the toolmaking sector, HFZ supplies welding electrodes for welding foil, from which blood or infusion bags are made. However, a portion of turnover is generated as a supplier to the motor racing industry, with self-designed moulds for carbon fibre parts such as structural components for monocoque racing cars and components and assemblies like wishbones and lateral control arms for GT3 vehicles.

In the past, this broad range of tasks was handled with two different CAM systems. However, in 2011, new customers in the mouldmaking sector triggered a growth spurt. and five-axis simultaneous milling became increasingly in demand. This forced the company to take a good look at its CAM strategy, a task that eventually led to the selection of HyperMill from Open Mind.

"In addition to the wide range of functions and good price/performance ratio, we saw an advantage in the well-matched products from Open Mind and Heidenhain," says the company's owner, Fritz Huber. "Our two CAM workstations are now manned over two shifts. This is because at HFZ, there is no distinction between machine operator and NC programmers. Here, every employee has the time



and the know-how to write programs for his or her machine on the CAM workstation and make changes on the control. As a result, knowledge of current tool technologies and possible cutting speeds and feed rates always feeds back into the NC programs."

Experienced employees soon discovered the advantage of using a single CAM system through the common tool management offered by HyperMill: the system was populated with all of the existing tools and references to the respective machines.

For further information www.openmind-tech.com

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Fanuc 0iTD with Manual Guide, 32" hydraulic chuck, Max. turning length 3500mm, 12 station turret, 60HP main motor (4 range), Driven tools (BMT85).

Hwacheon VT1150
Vertical CNC Lathe
Fanuc 0iTD with Manual Guide, 40" hydraulic chuck, Max. turning dia 1150mm, Max. turning length 950mm, 12 station turret, 65HP main motor (twin range).

Hwacheon Hi-Tech 700MC
Driven Tool Turning Centre
Fanuc 0iTD with Manual Guide, 24" hydraulic chuck, Max. turning length 2000mm, 12 station turret, 50HP main motor (twin range), Driven tools.

Dah Lih MCV-1700
Vertical Machining Centre
Fanuc 0iMD with Manual Guide, X=1700mm, Y=800mm, Z=750mm, 32 ATC, BT50 Spindle.

SFM CST42160 Long Bed CNC Lathe
Fanuc 0iTD with Manual Guide, Swing over bed: 1070mm, 4,000 between centres, 50 HP main motor, Twin steadies, Twin conveyors, 610mm 4 jaw chuck, Boring attachment.

SFM CST46200 Long Bed CNC Lathe
Fanuc 0iTD with Manual Guide, Swing over bed: 1170mm, 5,000mm between centres, 50 HP main motor, Double chuck headstock, 2x610mm 4 jaw chucks (14" bore), Twin steadies, Boring attachment.

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Heavy Duty CNC Universal Milling Machine
Heidenhain i530 CNC system, Bed size: 3600mm x 1050mm, X=3100mm, Y=1350mm, Z=1250mm, 50HP main motor (twin range), Automatic universal head, 24 ATC, Conveyor.

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Heidenhain TNC aids RK customers

Heidenhain says that the use of its TNC 320 control systems on RK International Machine Tools' Europa Milltech turret milling machines is providing users with a seamless transition from training and prototype machining through to full production milling utilising an easy-to-use yet powerful CNC. The Heidenhain TNC 320 is described as a compact contouring control for milling machine applications.

Two Europa Milltech machines feature the TNC 320: the 2.2 kW, 3,800 rpm 2000VS, with its R8 spindle and table of 1244 x 230 mm, X, Y, Z travels of 755 x 300 x 110 mm and vertical traverse of 405 mm; and the larger, ISO40 spindle, 3.75 kW, 3550 rpm 5000VS, which has a table of 1370 x 254 mm and X, Y, Z travels of 850 x 380 x 110 mm, plus a vertical traverse of 430 mm.

The entry level TNC 320 has a 15" TFT colour monitor that presents clear overviews of all relevant information for programming and operating, including program blocks, comments and error messages. More information is provided through graphic support during program entry, test run and actual machining.

The selectable split-screen display shows the part-program blocks in one half of the screen and graphics or the status display in the other half. During the course of the program, status displays offer information on tool position, current program, active cycles and co-ordinate transformations, for example.

RK International's sales director, Dick Aldrich, says: "The education and training sector is an important part of our business and one we support with a wide range of machines, from manual lathes through to CNC machining centres. The development of the Europa Milltech range with the addition of one of the world's best-in-class control systems enables these users with developing CNC skills to easily transfer their knowledge – and the machining programs – into a production environment."

For further information www.heidenhain.co.uk

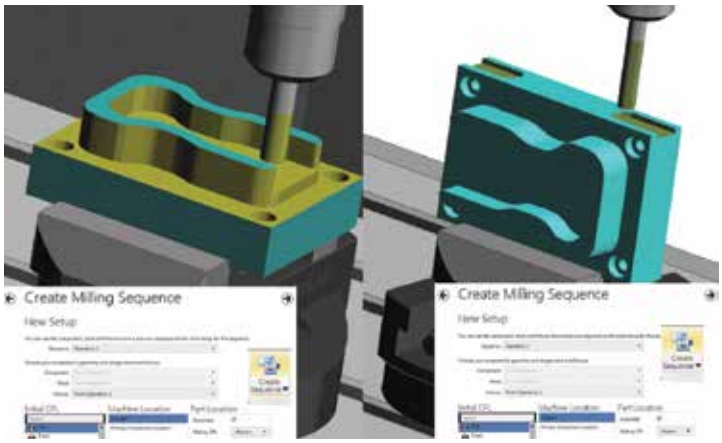
Edgecam Workflow in 2015 R1 release

The swift evolution of Edgecam Workflow is highlighted with over 50 new and enhanced aspects of functionality in the latest release. Waveform turning, multiple machining sequence support, ribbon bar and interface updates, and the inclusion of wire EDM are introduced to Edgecam 2015 R1 from Vero Software.

Vero's strategic product director, Raf Lobato, says having developed waveform roughing for milling during the past two years, the new version of Edgecam also makes it available for turning strategies. And manufacturers say this will be particularly valuable in driving down costs. For instance, Rob Duncan from Linkham Scientific Instruments, says: "We invested in a new turn-mill machine early in 2014, which is reducing cycle times. But using Edgecam's new waveform toolpath generation for turning will make an even bigger difference. We see Edgecam as a vital tool; we look at the latest enhancements and use them to get the very best from our machine tool investment."

In rough waveform turning, the toolpath maintains a constant cutting load, enabling significantly faster cutting data, and prolonging tool life, says Vero. Similar to other turning commands, the cycle is sensitive to the stock condition, eliminating 'fresh air' cuts.

The new release also introduces further Workflow enhancements by supporting multiple set-ups in both the turning and milling environments. This means the component and stock (and fixtures) can be passed to subsequent new machining sequences.



"This enhancement promotes the use of a single CAM file to house multiple machining set-ups – ensuring the stock remains associative between set-ups is a massive improvement," says Mr Lobato.

A wire EDM product is also now available in the Workflow environment, and Edgecam 2015 R1 offers full machine simulation, including stock and cross-section display, while other enhancements include cycles for turning on milling machines, picking 3D faces, engraving, and the ordering of profiling and roughing.

For further information www.edgecam.com

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Gear Hobbing Machie FO 16 Manufacturer TOS

Technical condition good with accessories and change gears
Technical detalis:
Max. module of gear: 16
Max. diameter of gear: 1600 mm
Max. workpiece weight: 7000 kg

MATRIX Thread grinding machine 1600 M/C MKII

new in 1980
Distance between centers: 450 mm
Maximum grinding diameter: 200 mm
Threading length: 200 mm
with accessories
technical condition very good

Heavy Duty Lathe SKODA SRM 1000x8000

new in 1976
technical condition very good
turning length 8000 mm
turning diameter 1000 mm
turning over support 710 mm
machine is available wit accessories

Centreless Grinder CINCINNATI MILACLON

Type 2-200
new in 1974
serial no 78-470173-16
technical condition good
with accessories

Crankshaft Grinder Berco RTM 350/A/3100

Technical condition good
With accessories
Technical detalis:
Center height over table 350 mm.
Max. swing over table 700 mm
Max. distance between centers 3100 mm

Deep Hole Drilling Machine type SIG B16/1

new in 1971
technical condition - good
Number of spindles: 1;
The height of the spindle axis above the floor: 1050 mm;
The height of the spindle axis on rails: 135 mm;
The height of the spindle axis over the table: 74.98 mm;
The maximum depth of drilling: 1000 mm;
Max drilling diameter: 30 mm;
The diameter of the hole in the spindle: 21 mm;
Maximum spindle speed: 6000 r / min;
Scope feeds (stepless): 20-200 mm / min;
Rapid traverse in both directions: 2000 mm / min;

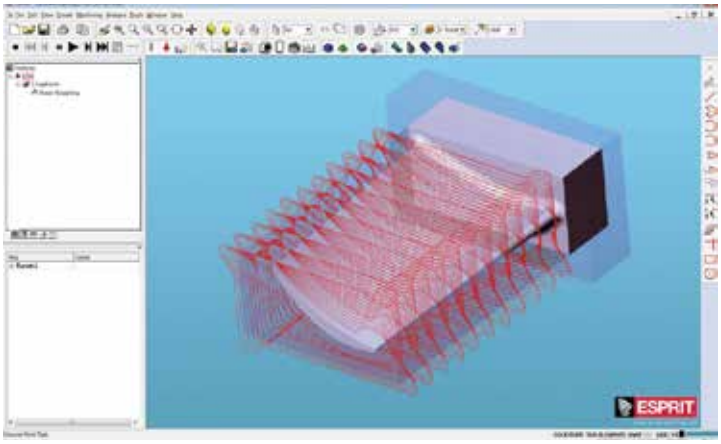
Lathe POREBA TR 100 B1 x 5000

new in 1976
technical condition good
- turning diameter 1000 mm
- turning length 5000 mm
machine available with equipment

Heavy Duty Lathe SCHNEIDER type SFAG T 53

new in 1960
technical condition good
turning length 10.000 mm
turning diameter 2000 mm
bed width 1500 mm
weight of workpiece 30.000 kg
available with all accessories

DP unveils latest Esprit CAM system



DP Technology has released the 2015 version of its flagship product Esprit. The company says that besides increasing productivity, the release provides many new and improved features, specifically in the areas of intelligent machining, strategic machining, CAD-to-CAM data exchange and cloud-enabled CAM.

Intelligent machining features in Esprit 2015 are said to accelerate the machining process by providing new five-axis cycles that reduce cycle time. This makes it possible to completely machine turbine blades, for example, in a single set-up. Here, Esprit´s five-axis blade roughing tool motion is morphed across the blade from any size stock shape to offset stock allowance uniformly so it can be followed immediately by a finishing cycle.

The port roughing cycle, another intelligent machining improvement in Esprit 2015, is a new five-axis cycle. It creates a five-axis roughing operation to remove the material inside an area where the tool must enter through a restricted opening. The shape of the toolpath is an offset of the port surfaces, starting at the surface and proceeding inward at a constant step-over.

Features that are said to increase machining productivity include the new 'bottom up' roughing strategy that helps take Espirt´s ProfitMilling high speed material removal cycle to the next level. The 'bottom up' strategy lets users attain a small residual stock height during the material removal process.

The strategic machining capabilities of Espirt 2015 have been expanded with completely redesigned stock automation capabilities for multi-tasking machines. Available for the facing, contouring and pocketing cycles, the function maintains awareness of the stock removed by previous operations to generate cutting passes only in areas where stock remains. This reduces air cutting which in turn reduces cycle time.

Additional strategic machining improvements have been made by providing support for slot mill tools in the port milling and composite cycles. Slot mill tools save machining time on operations such as tee-slotting and square shoulder milling, and their geometry generates lower cutting forces in soft materials and unstable set-ups which increases tool life, says DP.

For further information www.dptechnology.com

PowerMill 2015 R2 now available

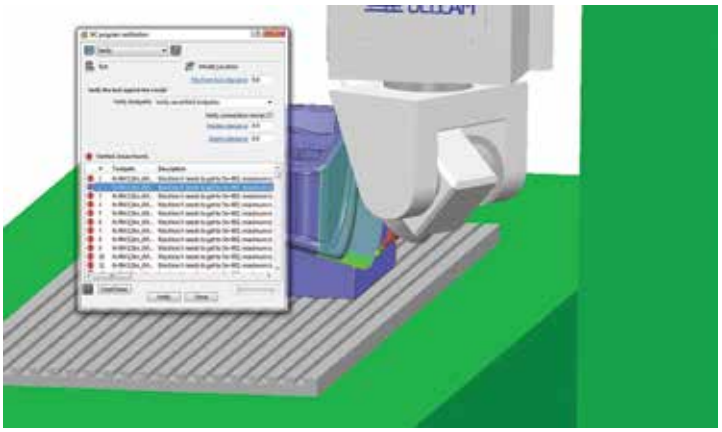
Delcam has released the 2015 R2 version of its PowerMill programming software for five-axis and high speed machining. The latest release includes improvements in toolpath simulation and verification, area clearance and drilling, plus more options for customisation by users.

In the 2015 R2 release, complete verification can be undertaken of a project for machine tool issues such as collisions, rather than having to undertake verification of each individual toolpath in turn. Delcam says that comprehensive verification is performed, including ensuring that the machine tool is capable of running the proposed strategy, as well as checking for both machine tool collisions and tooling collisions. A detailed list is generated of any problems found so that these can be fixed on a case-by-case basis.

In related improvement, automatic collision checking of area clearance toolpaths now takes into account any remaining stock on a model, both when checking the cutter and the toolholder. In addition, all toolholder collision checking for area clearance takes place during toolpath calculation, allowing the user to ensure that these toolpaths can be completely free of toolholder collisions.

Simulation has also been improved with the addition of the ability to simulate machine tool movements as tool changes are executed. Again, a list of any problems found is produced so they can be corrected.

Two enhancements have been made to the drilling options in PowerMill. Firstly, drilling calculations can now reference a stock model instead of the block, with toolpaths created from the point



when the tool touches the stock. This reduces the time spent air cutting. Secondly, drills larger than the milling tool can be used when drilling to create an entry point for area clearance. Alternatively, a larger entry hole can be created by helical ramping of the tool.

Last but not least, user customisation options now include the ability to create keyboard shortcuts for menu items, toolbar items, custom commands or macros, allowing frequently-used commands to be accessed more quickly.

For further information www.delcam.com

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Radial drill Csepel RFh-100/3000

Jig borer Sip Hydroptic 6

International grinder Voumard 3a

Lathe Weisser Senior

CNC Lathe AVM FUTURO 93

CNC Lathe Heyligenstaedt Heynumat 24L-2/2000

Horizontal borer WMW Union BFT 90/3

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TABLE 6000X1000MM

CNC JIG BORING SIP 8000/65
TABLE 1700X1150MM

VERTICAL CENTER MAZAK VTC
20B M PLUS YEAR 1997
CAP 1120X510X510MM 10000RPM CONVEYOR

HORIZ BORING
CORNAC
110MM DIGITAL CROSS 3000MM

CNC GEAR HOBBING
GLEASON PFAUTER P 400
YEAR 2002
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CAP 600MM MODUL 12

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2005 HURCO VMX 42 X-1,060 mm, Y- 610 mm, Z-travel: 610 mm, CNC-control:Ultimax-4 table-size:1,270 x 610 mm, max. table load:1,100 kg, spindle speed:10,000 rpm, drive capacity - spindle motor:15 kW, tool change unit: 24. **Price: €POA**

2006
HAAS TL-3 CNC / MANUAL LATHE
Max cutting dia 508mm,
swing over the cross-slide 330mm,
distance b.c. 1,524mm,
spindle speed 1,800rpm, spindle bore 89mm,
spindle motor power 30hp, chuck size 305mm,
coolant, tailstock, 3-jaw chuck,
q.c.t.p., & 4 holders, manuals.
Price: €POA

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JOHNFORD SL 50
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Fanuc 0i TB Controller
12 station Turret
Tailstock
Tool Probe
Swarf Conveyor.
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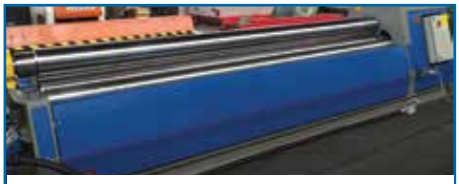
4020500 used pressbrake, make **AMADA**, typ: ITS2 103

4010614 used palteshear, make **AMADA,** typ: GPS 630

4010618 used palteshear, make **LVD,** typ: HST 31/13

4010570 used palteshear, make **MENGELE**, typ: S20-3000

4010622 used palteshear, make **EHT,** typ: EcoCut 10-31



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X/Z/W: 2.000/4.750/800 mm
Rev.drilling head: 20-3.150 r/min.
Stock nr.: boor277

Floorplates

NN

Dimensions: 3.500x6.000 mm
Thickness: 390 mm
Nr. of slots: 12
Stock nr.: taf081

Floorplates

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Dimensions: 1.500x3.000 mm
Thickness: 390 mm
Nr. of slots: 5/ 4x in stock
Stock nr.: taf082

Angle plates

Angle plates

LxH: 2.400x4.250 mm
Depth: 2.400 mm
Weight: 18 ton
Stock nr.: misc491

Angle plate

NN

LxH: 2.000x4.050 mm
Depth: 2.000 mm
6x in stock
Stock nr.: misc564

Rotary table / Turning table

Demmeler DRLN

Dimensions: 2.000x2.000 mm
Table load: 20 ton
Has been linked to TNC530
Heidenhain control
Stock nr.: frees413

Rotary table

NN

Diameter: 3.500 mm
Table height: 800 mm
Max. table load: 25 ton
Flat on ground with gearbox
Stock nr.: draai498

Rotary tabel

Rotary table

Diameter clamping plate: 1.450 mm
Centerheight: 800 mm
Electric driving
Working completely
Stock nr.: misc567

CNC Vertical turret lathe

GTC-20090

Chuck diameter: 1.600 mm
Max. swing: 2.000 mm
Turningheight: 1.600 mm
Stock nr.: draai612

Vertical turret lathe

Cincinnati

Chuck diameter: 2.000 mm
Max. swing: 2.250 mm
Turningheight: 1.900 mm
Stock nr.: draai455

Facing lathe

Legoor 600

Swing over bed: 1.200 mm
Swing over support: 900 mm
Spindle boring: 120 mm
Stock nr.: draai513

CNC lathe

Mori Seiki LL-7A-1500

Between center: 1.500 mm
Centerheight: 500 mm
Swing over bed: 1.000 mm
Stock nr.: draai272

Center lathe

TOS SU125 CNC

Between centers: 4.000 mm
Centerheight: 625 mm
Swing over bed: 1.250 mm
Stock nr.: draai483

Machining center

Schiess Intermill HL 200

Control: Bosch CC 300
Table: 2.000x2.000 mm
X/Y/Z: 2.100/3.150/2.100/1.000 mm
Stock nr.: frees217

Bed milling machine

Zayer 20 KFU 2500

Control: CNC Grundig/Philips
Table: 2.500x1.000 mm
X/Y/Z: 2.300/1.200/1.000 mm
Stock nr.: frees238

Ironworker

Kingsland 115XS

Capacity: 115t
Strip: 380x25mm/600x15mm
Punch: 34x26mm/55x16mm
Stock nr.: pons132

Table type boringmill

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HM TSMS 30/20 H

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Max.: 200 mm
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Stock nr.: zet086

Table type Boringmill

Sacem MSTNC 110 C/N

Control: Heidenhain 355B
Table : 1.200x1.450 mm
Spindle diameter: 110 mm
Stock nr.: kot149

Table type Boringmill

AYCE AC80

Table: 970x1.140 mm
X/Y/Z/W: 1.600/1.700/1.000/600 mm. Spindle diameter: 80 mm
Stock nr.: kot137

Flame cutting machine

Saf Oxytome 30 CNC

Capacity: 12.000x3.000 mm
Max. cutting thickness: 300 mm
CNC controlled
Stock nr.: misc492

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Elec.adj.cutting angle:25-55°
Max.thickness: 50 mm
Feed: 1.500/3.000 mm/min
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Stroke: hydro cylinder 660 mm
Stock nr.: pers209

Eccentric press

Balconi 2DM-S

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Table: 1.530x650 mm
Stroke: 200 mm
Stock nr.: pers106

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Controleld backstop X+R
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Shear

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XYZ VL425, 2005, 3 jaw chuck, qctp & holders, Swing over Bed 480mm, Between Centres1250mm, Spindle Bore 80mm. **£POA**

Mazak Variaxis 500 – 5X II, 2010, Single Pallet, 15 Bar TSC, 12000rpm, cat40, 40atc, Swarf Conveyor. **£POA**

Mazak QTN Nexus 350MY 11 2013, 380mm Chuck, 2 x Steadies Programmable 20 – 150mm & Manual 150 – 310mm , 15 Bar High Pressure Coolant, maximum machining dia 420mm, 1 ½ metre bed . **£POA**

Bridgeport VMC 800/22, 1996, Heidenhain 370 Control10,000 rpm - BT 40 Spindle. **£POA**

Doosan Puma 480L, 2011, Fanuc 32iT, 21" hydraulic steady, toolstter, max turning dia 720mm, max workpiece length 2155mm, bar cap 166.5mm, Cutting Hours 672. **£POA**

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30ton Capacity Between Centres

MODUL ZFWZ 3150

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Control : Fagor 8055
X/Y/Z : 1.300/650/750 mm
Intake : BT 40
Stock nr. : frees442

Boringmills, table type

Sacem MSTNC 110 C/N

Control : Heidenhain 355B
Table : 1.200 x 1.450 mm
X/Y : 2.000/1.400 mm
Stock nr. kot149

Machining center

Hitachi Seiki HC 400

Control : CNC Fanuc 15 M
X/Y/Z : 500/450/450 mm
Intake : BT 40
Stock nr. : frees441

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Matsuura J 300 Control

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Spindle speed 7.000 Rpm Maza-

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CNC Turning Milling Centre

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Turning length: 1005 mm
Spindle boring 51 mm.
Mazatrol Fusion 640 MT control

MAZAK Multiplex 420
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Turning length: 120 mm
Spindle boring 51 mm.
Mazatrol T Plus control

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Horizontal Machining Center

Pallet size 500 x 400 mm (2x)
Traverses 600 x 560 x 560 mm
Spindle speed 8000 Rpm
Siemens 840 D Control

MAZAK H 415
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Traverses 560 x 510 x 510 mm
Spindle speed 15.000 Rpm
Mazatrol M-Plus control

MAZAK Integrex 70
CNC Turning Milling Centre

Max. machining ø 915 mm.
Turning length: 1982 mm
Spindle boring 113 mm.
Mazatrol Fusion 640 MT control

MAZAK Multiplex 630
CNC Turning Centre

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Turning length: 225 mm
Spindle boring 77 mm.
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Heidenhain iTNC 530 control

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1994. Mori-Fanuc MFT6 (Fanuc 16TF) 14in colour CNC control, 21in hydraulic 3-jaw chuck, swing over bed 890mm, swing over cross slide 560mm, centre distance 900mm, X-travel 350mm, Z-travel 860mm, spindle speeds 10-1,800rpm, 3 ranges, 37kW, 12-station turret, fully programmable tailstock, tool pre-setter, swarf conveyor, additional chucks and tooling. Machine in excellent condition

MORI SEIKI SL-65B Heavy Duty Universal CNC Lathe

1992 (refurbished machine). Fanuc 0-TF, 15in hydraulic 3-jaw chuck, swing over bed 890mm, swing over cross slide 560mm, centre distance 900mm, X-travel 350mm, Z-travel 860mm, spindle speeds 10-1,010rpm, 2 ranges, 37kW, 12-station turret, fully programmable tailstock, tool pre-setter, tooling. Machine in excellent condition

NICOLÁS CORREA FP-30/40 ATC Bridge Type CNC Bed Milling Machine. 1999. (3,500mm x 2,000mm)

Equipped with 60-station ATC, interchangeable heavy duty right-angled mill head, thru-spindle coolant and Renishaw probing. Machine has temperature controlled spindle, thermal compensation facility, paper band coolant filtration system, swarf conveyor and stand-alone compressor / receiver / dryer combination

Control	Heidenhain TNC 426-PB	Clearance between columns	1,740mm	Spindle motor	30kW
Table size	4,000mm x 1,250mm	Table to spindle nose	(min/max)	Rapid traverse rate	X & Y 15m/min
T-Slots	8 x 22 – 150mm separated		250 to 1,050mm		Z 12m/min
Travels	X (long), Y (cross), Z (vert)	Spindle nose	ISO 50	Maximum table load	10,000kg
	3,500mm, 2,000mm, 800mm	Spindle speeds (inf var)	2 to 5,000rpm	Machine weight (excl ATC)	24,200kg

SACHMAN RP/3 CNC Bed Type Milling Machine

Year 2000. Heidenhain TNC 426. Table 2,700mm x 700mm. X=2,500mm, Y=815mm, Z=1,037mm. Fully universal milling head with ISO 50. Oil cooler

DUGARD Eagle VMC 1000

Year 2002. Heidenhain TNC 410MA colour CNC control, table size 1,200 x 500mm, X-travel 1,020mm, Y-travel 510mm, Z-travel 510mm, 24-position sidemount arm toolchanger, 8,000rpm spindle, BT40, 11kW main motor, high-pressure thru-spindle coolant, swarf conveyor. Machine supplied with selection of spindle tooling and machine vice

BRIDGEPORT VMC 560/16 Vertical Machining Centre

1994.Heidenhain TNC 2500B CNC control. Table size 840mm x 420mm. X-travel 560mm. Y-travel 410mm. Z-travel 520mm. 16-position tool changer. BT-40 spindle. Spindle speeds 40 to 6,000rpm. 7.5kW main motor. Machine is supplied with a selection of tool holders and machine vice.

Microcut Challenger (Dugard) BNC 1860 CNC Lathe

Year 2008. Fagor 8055i colour CNC control. Swing in gap 710mm. Swing over bed 475mm. Swing over cross slide 240mm. Centre distance 1,680mm. 65mm spindle bore. 200mm 3-jaw chuck. 4-jaw chuck. Face plates. Spindle speeds (2 ranges) 100-4,500rpm. 11kW main motor. 8-station auto turret and 4-way q.c.t.p. Hydraulic tailstock. Comprehensive tooling package. Fully enclosed guards. Very nice condition machine.

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1989. Fanuc 10T-F colour CNC control, swing over bed 914mm, X-travel 60mm, Z-travel 2,465mm, spindle speeds 10-1,250rpm (3 ranges), centre distance 2,150mm, 700mm 4-jaw chuck, 3-point roller steady, quick change "Multifix" tooling

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- 3 Spindle Drilling
- 900 mm Bar Width Processing
- Mitre Cut Band Saw
- x36 Station Marking Unit

Ficep 1101 DZB – CNC Drilling & Sawing Line – Year 2005 (STK-1283)

- 18m In-Feed/16m Out-Feed
- Single Spindle Drilling/8 Station Tool Changers
- 1100mm Bar Width Processing
- Mitre Cut Band Saw/x36 Station Marking Unit
- Material Cross Transfers/Swarf Conveyor
- ISO45 Spindle/Hydraulic Saw Hold Downs

Machine Ref.	Manufacturer	Model	Year	Description	Availability	Category
USSM-STK-1295	Ficep	903 DNB	1999	CNC Drill/Saw Line (18m/18m) Cross/Transfers	In-Stock	Beams/Sections
USSM-STK-1335	Ficep	Tipo D4	2008	CNC Plate Punch/Shear Machine	In-Stock	Plates Punch/Shear
USSM-STK-1311	Ficep Excalibur 10	1003 DFB	2010	CNC Drill/Saw Line (18m/18m) Cross/Transfers	Ex-Site	Beams/Sections
USSM-STK-1312	Ficep	918 DNB	2000	CNC Drill/Saw Line (18m/18m)	Ex-Site	Beams/Sections
USSM-STK-1313	Ficep	Tipo B251	2007	CNC Plate Punch/Plasma/Drill Machine	Ex-Site	Plates Profiling
USSM-STK-1315	Ficep	LPP 803 2N	TBC	CNC Plate Punch Machine	Ex-Site	Plates Punch
USSM-STK-1316	Ficep	Gemini 20	2012	CNC Plasma Profiling Machine	Ex-Site	Plates Profiling
USSM-STK-1317	Vernet	PG80	1990	CNC Plate Punch Machine	Ex-Site	Plates Punch
USSM-STK-1318	Ficep	453 DXB	2005	CNC Drill/Saw Line (18m/18m) Cross/Transfers	Ex-Site	Beams/Sections
USSM-STK-1319	Ficep	1203 DB	2005	CNC Drill/Saw Line (18m/18m) Cross/Transfers	Ex-Site	Beams/Sections
USSM-STK-1320	Vernet	MAP 306	TBC	CNC Section Punching / Shear Line	Ex-Site	Beams/Sections
USSM-STK-1321	Peddinghaus	FDB 600	1993	CNC Plate Drill/Profile Machine	In-Stock	Plates Drill/Profile
USSM-STK-1287	Peddinghaus	BDL 1250/3	1998	CNC Saw/Drill Line (18m/18m)	In-Stock	Beams/Sections
USSM-STK-1274	Ficep	P803A	2004	CNC Plate Punch/Drill Machine	Ex-Site	Plates Punch
USSM-STK-1290	Ficep	P803A (with drill)	2005	CNC Plate Punch/Drill Machine	Ex-Site	Plates Punch/Drill
USSM-STK-1291	Ficep	1001 DX	2003	CNC Drilling Line (15m)	Ex-Site	Beams/Sections
USSM-STK-1292	Bigstone	CF-700 DMS	2001	Semi Automatic Mire Sawing Line	In-Stock	Beams/Sections
USSM-STK-1207	Ficep	Tipo D8	2004	CNC Plate/Angle Punch & Shear Line	Ex-Site	Plates/Angles
USSM-STK-1329	Gietart	GW 1500	2002	Section Blasting Line	Ex-Site	Beams/Sections
USSM-STK-1205	Ficep	Tipo D8	2006	CNC Plate Punch, Plasma & Shear Line	Ex-Site	Plates Shear/Profile
USSM-STK-1301	Kaltenbach	WBZ 1500	1999	CNC Plate Drill/Profile Machine	Ex-Site	Plates Drill/Profile
USSM-STK-1306	Ficep	Ficep SCS100L	2010	CNC Section Band-Sawing Line	Ex-Site	Beams/Sections
USSM-STK-1286	Kaltenbach	KBS1051/KDXS1015	2010	CNC Drill/Saw Line (18m/16m)	Ex-Site	Beams/Sections
USSM-STK-1284	Kaltenbach	KC 1201	2012	CNC Plasma/Gas Coping Line (18m)	Ex-Site	Beams/Sections
USSM-STK-1262	Ficep	1004 DZTT	2004	CNC Plasma/Gas Coping Line (18m)	Ex-Site	Beams/Sections
USSM-STK-1322	Kaltenbach	KC1200	2003	CNC Plasma/Gas Coping Line	In-Stock	Beams/Sections

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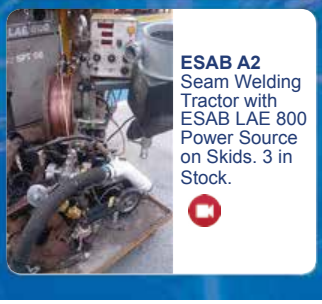

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Nisshinbo	MAP1000	"		"
Nisshinbo	HIQ1250	30 ton	1250 x 2500	47
Danobat	PGA-4	30 ton	1250 x 1250	19
Goiti	GPS1000	20 ton	1000 x 1250	22
Titan	Pierce All	25 ton	1000 x 1000	1
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- **HAAS** VF3 Vertical Machining Centre with HAAS Control (2011)
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- **Matsuura** H Plus -300 Multi Pallet Horizontal Machining Centre with Matsuura GTech 18i Control (2001)
- **Matsuura** RAIG Twin Pallet Vertical Machining Centre with Yasnac CNC Control (1997)
- **Mori Seiki** SV-400 Vertical Machining Centre with MSC-518 Control (1997)
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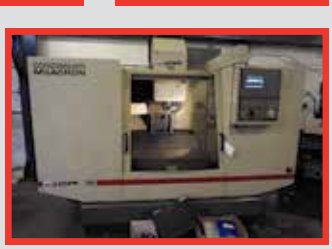

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Plus Lots of Tooling & Inspection Equipment Please Download Catalogue for full Listing

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Colchester Triumph 2000 with DRO

Colchester Triumph 2000

Bridgeport Turret Mill with DRO

Abwood Rotary Grinder

J&S 540 Grinder

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- Richmond Horizontal Mill
- Colchester Round Head Lathe
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- Ward 7DS
- Ward 3DS
- Ward 2CA
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- Pedestal Grinder 12" wheel.
- Bench grinder. Seliberate 6NE

- Bench grinder 6" heavy duty
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- Elliot Progress 3A Drill
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- Man Egerton T1 Pressure cleaning Tank with Extractor.
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- Combat 020 POP Heater (Red)
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- Earlex Wet and Dry vacuum
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Unsold Lots from Complete Precision engineering Plant sale due to retirement.

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Mazak H630N HMC

Mazak H630 HMC

Okuma MC 600 HMC

- Hitachi Selki 630 HMC
- Herbert 4 Senior Preoptive Capstan Lathe
- Richmond Consol 3 Foot Radial Drill
- 5 x Cat 50 Side Lock Holders x 10
- 4 x Cat 50 Spriggot Mill Face Cutter Holders x 10
- 5 x Morse Taper CAT 50 Tool Holders x 10
- Walter Modular Tooling System - Large Selection of 16 Various Cutting Heads with 12 CAT 50 Holders
- Selection of 12 boring bars & tips

- Walter Modular Tooling System - Large Selection of 19 Various Cutting Heads with 11 CAT 50 Holders
- BT50 Side and face holders with through coolant spindle adaptors x 3
- Selection of Cat 50 Microbore bar and Porcupine cutters
- Moore & Wright internal micrometer
- 7 x Moore & Wright Depth Gauge sets
- 450mm height gauge

- John Bull Groove Callipers
- Acratork Model L3 Electric Torque Wrench, up to 1500nm with Crane & Hoist
- 4 Boxes of Cat 40 Tool Holders
- 2 Boxes BT40 Tool Holders
- Selection of 7 BT40 microbore & tip cutters, Mill face & U drill holders

Plus More Download Catalogue for Full Listing.

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5 Axis Gantry Composite Milling Machine available after purchase of new machinery

Location: Near Loughborough. Viewing by Appointment only Online Auction Date: Ends Thursday 16th April 2015 - 3pm BST

COLLECTIVE MACHINERY ONLINE AUCTION — April 16th

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More lots being added

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AUCTION CLOSES: *Thursday 30th April, 2015 at 3pm — All lots to be uploaded by mid-April*
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CNC FLOOR TYPE HORIZONTAL BORER JUARISTI TYPE MD 150 WITH HEIDENHAIN TNC 430
9 Axis controlled. X-8.000 mm; Y-4.000 mm; W-750 mm(Column) V-spindle travel 1.000 mm. Table size 2.500x 2.500 mm/ 30 Tons/ 360.000°. New 1997.

CNC FLOOR TYPE HORIZONTAL BORER FPT M-ARX M 120 WITH HEIDENHAIN TNC 430I S.P
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CNC SINGLE COLUMN VERTICAL BORER CKD BLANSKO SKJ 50-100 B WITH SIEMENS SINUMERIK 880
Live Drilling and Milling spindle ISO 50 in Vertical support. C-axes 360.000°. ATC 8. Table diam. 4.770 mm; Max Swing 10.000 mm;Working height 4.300 mm.Table load 100 Tons. New in 1995.

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Max. Diam 9000 mm!
Max. turning Height.
Table load 90.000 tons.

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CNC SINGLE COLUMN VERTICAL BORER DÖRRIES CTE 3000/4500 WITH SIEMENS SINUMERIK 840D
Table diam. 3.000 mm. Max swing 4.500 mm.Turning height 2.650 mm.Table load 25 Tons. New in 1982.Modernised 2008.

CNC VERTICAL LATHE FRORIEP 25/40 KZ
with CNC Sinumerik 840 D SI. 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.

SKODA SK-50A VERTICAL BORING MILL.
Table diam 4.750 mm, Max swing 5.180 mm, Table load 45 tons.Max Turning height 3.260 mm Built 1972

GEAR MILLING MACHINE MODUL ZFWZ 8000
New 1973.
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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 HEIDENHAIN 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.

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