30 MARCH 2015

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HEDELIUS BC 50
CNC HEIDENHAIN TNC 426
indexer
Table: 2800 x 520 mm
Working travel X/Y/Z: 2100/520/500 mm

CNC 5 axis Vertical Machining Centre
OKUMA VH 40
CNC OKUMA OSP 7000 M-H
Year of production: 2000
swivelling table
Working travel X/Y/Z: 560/450/437 mm
Table diameter: 300 mm

CNC Vertical Machining Center
DAEWOO ACE V 400
CNC FANUC
double pallet
Pallet size: 650 x 450 mm
Working travel X/Y/Z: 560/40/570 mm

CNC Gantry 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
Tool magazine: 40 pcs

CNC Lathe
MAX MULLER MDW 40
steady rest,
tool magazine
CNC SIEMENS
Year of production: 1998
Turning diameter over bed: 1200 mm
Spindle bore diameter: 128 mm
Tool magazine: 40 pcs

CNC Lathe
COLCHESTER TORNADO 300
CNC FANUC 0 - T
Year of production: 1995
Turning diameter over bed: 530 mm
Turning length: 500 mm
Turret head: 12 pcs

Cell with robot
ABB IRB 2400/16
2 pallet
Cell CNC SIEMENS SIMATIC OP 17
Robot CNC ABB
Year of production: 2004
Max. robot reach: 1550 mm
Robot capacity: 20 kg

Portal Type Bevelling Machine
IGM iBS
Year of production: 2002
Table: 2 pieces x 4 400 x 2 400 mm
Distance between columns: 3 180 mm

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Machinery Trade International is a controlled circulation publication, published every Monday by MTI Ltd.

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SUBSCRIPTION RATES:
Within U.K: £70 pa. Overseas: £105 pa.
To receive your free copy every week please call +44 (0)1622 859404

Printed in England by The Magazine Printing Company
www.magprint.co.uk

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IMTMA names latest OEA recipient

The Indian Machine Tool Manufacturers' Association (IMTMA) has named the 2015 winner of its Outstanding Entrepreneur Award: Dr Arvind Lavjibhai Patel, the founder and director of Sahajanand Laser Technology Ltd. Originally a graduate in electronics and biomedical instrumentation from Gujarat University, he has been recognised for his visionary pursuit of entrepreneurial excellence. While expressing his sincere thanks, Dr Patel said: "I will continue to do my bit for the growth of the machine tool industry." The award is given to people who have shown an outstanding record of first generation entrepreneurship in building machine tool companies in India.

For further information
www.imtma.in

Business Minister visits 600 UK

600 UK welcomed the Rt Hon Matthew Hancock MP, the Business Minister to its Heckmondwike facility recently where he was able to see, at first hand, the results of recent investments. The visit was part of the Minister's 'Great Business Tour', where he is visiting 100 businesses in as many days.

Mike Berry, 600 UK managing director says: "It was a real pleasure to meet the Minister and explain to him the significant changes already completed together with our ongoing new developments. These have resulted from a real team effort and total involvement by all employees, making our factory

vision a reality. The Minister was shown our benchmark Colchester and Harrison training lathes being manufactured in preparation for delivery to both UK and overseas training establishments."

For further information
www.600uk.com

Open house success for Trumpf

Confirmation that Trumpf UK is on course to register another record sales year came at the end of a very successful open house week during which more than 250 visitors were welcomed. Trumpf received several orders at the event, including one from Nottingham-based Lasershape *(pictured)* for a TruLaser 5030 fibre laser. The company also had the opportunity to introduce its new TruServices Centre; a £160,000 hub that supports customers throughout the life cycle of their machines and beyond.

The Trumpf open house featured a number of notable firsts. The star attraction was the world's first public showing of the new TruLaser 3030 laser with BrightLine fibre technology. Trumpf says that

BrightLine makes it possible to cut both thick and thin materials on a solid-state laser machine with equal quality and cost efficiency. Also new to the UK was the compact TruPunch 2000 punching and profiling machine, and the TruMark 5010 laser marker.

For further information
www.uk.trumpf.com

FD at KMF

KMF (Precision Sheet Metal) has strengthened its senior management team by appointing Jon Eeles as finance director. While managing financial relationships with existing partners, Mr Eeles has also been tasked with being involved in the strategic growth of the £35m turnover, 385 employee company, a supplier of bespoke metal work, precision sheet metal fabrication and electrical integration.
For further information www.kmf.co.uk

AIA uncut

The Manufacturing Technologies Association has welcomed the announcement by George Osborne in the Budget statement that he had listened to representations from manufacturers and would not be cutting the Annual Investment Allowance (AIA) from £500,000 to just £25,000 at the end of the year. MTA CEO James Selka says: "Having the AIA fall of a cliff edge on 31 December would be disastrous for manufacturing investment. What we need now is for an end to the seemingly annual changes to the capital allowance regime and for the Government to settle long term on a system that makes investing in the UK internationally competitive."
For further information www.mta.org.uk

Easy assembly

Bosch Rexroth has announced that developments in its Linear Motion Designer 2.1 will make it easier and quicker to design tailored assembly and production lines. One of the key developments in the free to use program is that it's now much easier to design profiled rail systems and screw drives independently. Likewise, process data such as dynamics, masses and forces, only need to be entered once, with users able to configure and compare a range of variants in order to design a solution that's optimised for the specific application, both technically and economically.
For further information www.boschrexroth.com

Breaking records with 3D printing

FTSE listed British engineering company Renishaw is featured in the 2015 edition of Guinness World Records for manufacturing the world's first 3D printed titanium alloy bicycle frame. The project was completed in collaboration with British bike manufacturer Empire Cycles.

The original design for the 3D printed bike frame was supplied by Empire Cycles and Renishaw initially arranged to topologically optimise and manufacture the bike seat post bracket. When this proved successful, Renishaw agreed to embark on a project to additively manufacture the entire frame. The final result was a strong, functional bicycle frame that was 33% lighter than the original. Since manufacture, the bike has been exhibited at trade shows and museums on almost every continent.

For further information www.renishaw.com

MTA names next president

Mollart Engineering's managing director, Guy Mollart, is the new acting president of the Manufacturing Technologies Association (MTA). He takes over the role from Mark Ridgway OBE DL, managing director of Group Rhodes, with the announcement made at the association's annual dinner and awards event held at the ICC in Birmingham earlier this month. Mr Ridgway held the position for just over two years, while Mr Mollart's term will be confirmed at the MTA's AGM in December.
For further information www.mta.org.uk

NCMT announces open house dates

The full gamut of machine tools, tooling and ancillary products offered in the UK and Ireland by NCMT under numerous sole agency agreements, mainly with Japanese companies, will be presented at an open house to be held at the company's Midlands showroom and technical centre on 13-14 May. Additionally, on 15 May, there will be an open day for apprentices and students.

The latest machine tools from Okuma, Makino and Okamoto will be on display, along with tooling from BIG Daishowa, presetters from Speroni and workholding products from Techni-Grip and Blue Photon. Partner suppliers involved at the open house will include control system company, Fanuc, metrology specialist, Hexagon, CADCAM software developer, Delcam, and tooling firm, Kennametal Stellram.

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Below is a selection from a large machine stock. Please visit: **http://www.ortner-maschinen.at/**

Roll grinder Voith Herkules

Radial drill Novisa RTP100

Jig grinder Hauser 3SM

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

Planing machine Eisenwerke Muelheim

CNC Universal grinder Studer S50-12CNC7

Oerlikon DM 5A

NC-Autom. flute milling Wyssbrod NC6

Seco roadshows

Seco Tools (UK) and Edgecam have joined forces and are holding three roadshows in April and May to help launch two new turning products into the market. The roadshows, taking place at venues in Alcester (28 April), Milton Keynes (12 May) and Glasgow (19 May), are free to attend and are aimed at precision component manufacturers looking for the latest turning innovations and best practice turning solutions. This year sees Seco launch its latest Duratomic insert technology and Edgecam introduce its new Waveform turning strategy.
For further information www.secotools.com

SME secures investment

Surface Generation, a 30-employee composite processing equipment manufacturer based in the Midlands, has secured £3.1m from investors to help maintain growth. The company has invented a solution focused around 'intelligent' moulding which helps manufacturers make high technology goods more efficiently. The firm says the technology can reduce cycle times by up to 95% and produce energy savings of over 90%. Last year, it secured its biggest ever contract win with IHI Corporation, which will use the patented process to create lightweight jet engine parts.
For further information www.surface-generation.com

CAV deal

Durham's CAV Aerospace, which has sites in the UK, Poland and Mexico, has been acquired by private equity firm Better Capital, the fund belonging to renowned investor Jon Moulton. An initial £40m has been committed to the deal, which Better Capital says will provide working capital and investment for CAV's future growth. CAV supplies metal components and sub-assemblies to customers including Airbus, Embraer and Gulfstream. In 2013, the firm reached revenue of £74m.
For further information www.cav-aerospace.net

Westermans identifies market trends

According to Peter Westerman *(pictured)*, managing director of welding equipment specialist Westermans International, preowned welding machinery sells better in emerging economies because companies located in those markets are far more price conscious. "With the infrastructure that companies need to build huge new installations in order to support their growing populations and their new economies, and given the rapid depreciation of new welding machinery during the first couple of years of ownership, it makes sense to purchase second hand equipment," he says.

Welding equipment is being used in emerging economies for a variety of applications, from oil pipelines to water supplies, and a single investment can go a long way. "Many developing countries still use the public-private partnership procurement [PPP] model to develop their infrastructures, and while this model is often successful, it can sometimes backfire," says Mr Westerman. "There are examples of failed PPP projects in Africa, Asia and Latin America. Given that so many countries struggle with developing infrastructure under the PPP model, it makes sense for those who wish to employ it, to look for ways to minimise their spending."
For further information www.westermans.com

CBI reports steady growth

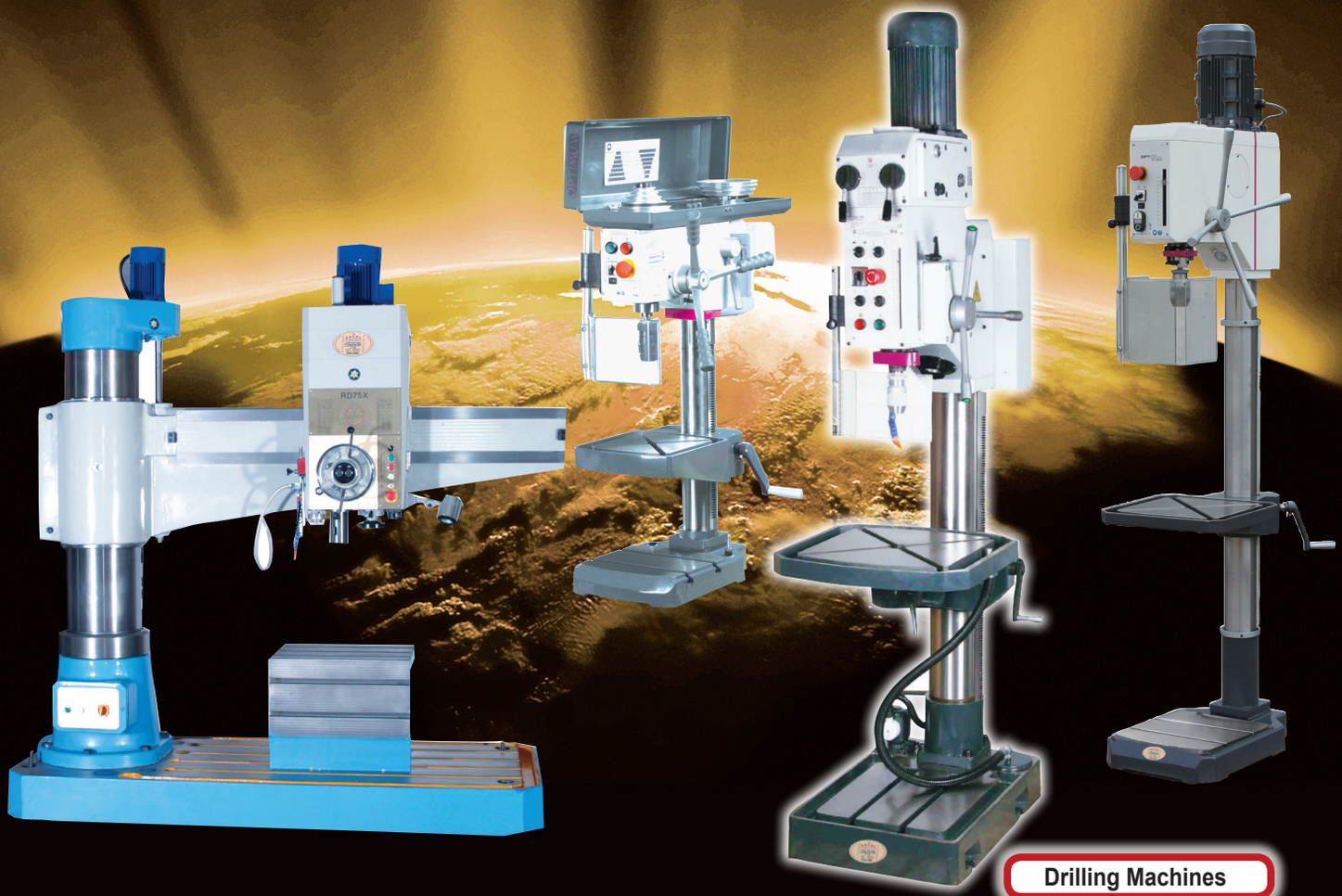
Activity in the manufacturing sector remained broadly steady in March, according to the CBI's latest Industrial Trends Survey. Output has been growing at a decent pace since last August, and despite easing slightly from the previous month, remained above average in March. Manufacturers expect to ramp up production even further in the next three months, just short of February's robust prediction. The survey of 468 manufacturers found that total order books climbed down a little from February's six month high, but remained well above average, with 15 of the survey's 18 sub-sectors reporting stronger than average orders.
For further information www.cbi.org.uk

Ultrawave expands aftersales operations

Ultrawave, a British manufacturer of ultrasonic cleaning technology has expanded its aftersales department to meet growing demand for its products at home and internationally. Celebrating its 25th anniversary this year, Ultrawave has established a dedicated aftersales department, manned by a team of four specialist engineers. Heading up the new department is David Musto *(pictured)*, who was previously service co-ordinator for the company and now moves up to aftersales manager.

Mr Musto joined Ultrawave in 2004 and has 20 years' experience in the manufacturing and engineering environment. He has been involved in customer service, training provision and aftersales across all industries.
For further information www.ultrawave.co.uk

DRILLS AHEAD



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Supply chain threat

A third (35%) of businesses in the manufacturing industry are extremely concerned about potential supply chain disruption according to research released by BSI. More than three quarters of manufacturing firms (77%) report increasing supply chain complexity as the fastest growing risk in business continuity, with malicious attacks via the internet (68%) and increased regulatory scrutiny (58%) taking second and third place. Among the sectors reporting the highest risk include automotive (53%) and aerospace (51%).
For further information
www.bsigroup.com

GTMA event

Once again the GTMA will be holding its Manufacturing UK event at Yamazaki Mazak on 23 April. The event will provide an opportunity to learn more about the latest tooling, precision machining and mould and die support available from British precision engineering companies, as well as key measurement and inspection technologies and service providers. There is no charge for attendance, but spaces are limited, so visitors are advised to register in advance.
To register email
david@gtma.co.uk

Manufacturing breakfast

Monahans, one of the largest accountancy firms in the west of England, has announced details of its next 'Manufacturing Breakfast'. The free-to-attend event will take place at UTC Swindon on 16 April, commencing at 07:30. Attendees will hear from Dr Simon Farrell, head of apprentice and associate training at BMW. Dr Farrell will discuss the car manufacturer's apprenticeship programme, which attained the highest grade of 'Outstanding' from Ofsted, through his talk, 'Providing enviable positions in an ever changing automotive world'.
To register email
marketing@monahans.co.uk

Best ever year for Bystronic UK

Reflecting on the business performance of Bystronic UK in 2014, managing director David Larcombe says it was the company's best-ever year. Order intake was nearly £47m, well ahead of budget and 40% up on 2013. That year and the previous two all saw increases of between 20 and 25%. One driver for Bystronic's growth has been the uptake in fibre laser profiling at the expense of machines powered by CO2 lasers. Sales of the latter practically halved between 2012 and 2014, whereas BySprint fibre machine sales rocketed in the UK from 15 to 54.

Waterjet machine sales are also holding up well. A three-axis CNC head for 3D cutting on a ByJet Flex was introduced recently, allowing bevelled edges to be produced, for example. There will be further initiatives regarding waterjet cutting during 2015, says the company.
For further information
www.bystronic.co.uk

Mirage results are no illusion

It may be named Mirage, but the 50% saving in cutting cycle times for titanium 6Al-4V achievable using this Quickgrind carbide tool is very real, says the company. In tests, titanium 6Al-4V was machined using a Quickgrind four-flute, 12 mm diameter Mirage tool at a cutting speed of 180 m/min and with a feed rate of 2200 mm/min. According to Quickgrind, the tool maintained its performance through as much as 450 minutes of contact time.

Managing director Ross Howell says: "To find out how we can give your business a cutting edge and make higher profits a reality, come and meet us at the Manufacturing UK 2015 event at Yamazaki Mazak in Worcester on 23 April."
For further information
www.quickgrind.com

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Search for "Dugard Machine Tools"

Auction Spotlight

CJM Asset Management is holding a sale by negotiation of equipment used previously by TS Sheerness Steel, Kent, UK. Lots include: a VAI Fuchs 105t EOBT electric arc furnace; two Fuchs ladle arc furnaces; a Concast 4-strand billet caster; an SMS 16-strand non-twist continuous bar mill with a maximum capacity of 120 ton/hr for 12-50 mm diameter bar; and a Morgan-Hyundai 10-strand non-twist rod mill block (5.5 to 17 mm diameter). For immediate sale as a whole or piecemeal. Viewing is by appointment.
+44 (0)7831 854971 www.cjmasset.com

GoIndustry DoveBid is hosting an online auction of equipment used previously by Eaton, Poland. Lots include: a complete valve forging line comprising loader, cut-off, wash, four upsetters, Comau robot and friction screw press; a Samputensili RSB/14 CNC resharpening machine; an ABB IRB1400M2000 robot; an Okuma & Howa ACT-2SP3 twin-spindle lathe; a Hsiu Fong CNC 640/75A EDM; and a Kapp AS 305B resharpening machine. Sale closes on 31 March.
+44 (0)207 098 3792 www.go-dove.com/en/events?cmd=details&event=551013

Cottrill & Co is staging an online auction of machines used formerly by Precision Engineering Services and others. Lots include: XYZ SMX 2000 and 4000 CNC bed mills; a Hydrafeed ML1 short magazine barfeed; an Amada Promecam APX50 press brake; a Europa Milltech 1500VS turret mill; an Excel FUV321LT universal mill; various Jones & Shipman surface and cylindrical grinders; and Colchester Triumph and Mascot centre lathes. Viewing is by appointment only. Bidding ends on 31 March at 15:00.
+44 (0)121 328 2424 www.cottandco.com

New England is conducting a sale direct from site of modern plastic injection moulding machines used previously by What More Ltd, Lancashire, UK. Lots include: three Sandretto Serie Nove HP485-2650 injection moulders (2006 and 2007), all with robots and outfeed conveyors; and one Sandretto Serie Nove S485-2650 injection moulder (2002) with robot and outfeed conveyor. Sale closes from 14:00 on 15 April.
+44 (0)121 544 9867 www.newengland.co.uk

Cottrill & Co is staging an online auction of machines used formerly by Component Supplies. Lots include: a Mori Seiki SL4 CNC lathe with 300 mm chuck; a Famup MXC 700 twin-pallet (600 x 440 mm) CNC vertical machining centre; a Mazak H400 multi-pallet (400 x 400 mm) CNC horizontal machining centre; and a Chiron FZ12W twin-pallet CNC vertical machining centre. Viewing is by appointment only. Bidding ends on 14 April at 15:00.
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UPCOMING FEATURES

6 April
CNC lathes and turning centres

13 April
CNC and CAM

20 April
Cutting tools and toolholders

27 April
Bending and forming

FOR MORE AUCTIONS, SEE Pages 38 – 45

Auction Spotlight

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Hexagon unveils CMM developments

Hexagon Metrology has announced a new frame size for its co-ordinate measuring machine (CMM) range. The Leitz Reference HP 7.7.5 offers a compact solution for measuring small workpieces with tight tolerances, says the company. With a measurement range of 700 x 700 x 500 mm, the Leitz Reference HP 7.7.5 is equipped with a Hexagon HP-S-X3 scanning probe head as standard, which can carry stylus configurations of up to 360 mm in length and 150 g in weight. Available with PC-DMIS or Quindos metrology software, Leitz Reference line machines can also be configured as gear inspection centres.

In another CMM-related development from Hexagon, the company has announced feature enhancements to the non-contact Precitec LR solution for CMMs, enabling the optical sensor to be used for roughness measurement on a range of part types.

Designed to deliver accurate inspection results on challenging workpieces, the Precitec LR uses focused white light to take measurements at sub-micron level. Featuring a large acceptance angle and high axial resolution, the sensor enables users to inspect complex parts with inclined, curved and aspherical surfaces, and dispersive or reflective material types.

Available for the Leitz PMM-C, Leitz Ultra and Leitz Infinity models from Hexagon Metrology, the Precitec LR can be exchanged automatically with tactile sensors within a measuring program, turning the CMM into a multi-sensor solution for a variety of applications. With no handling differences compared with tactile probes and a measurement range that corresponds to that of the machine, minimal operator training is required, says the company.

"The Precitec LR is a really versatile optical sensor that integrates quickly and easily into a system, and significantly improves the measurement potential of a CMM," says Micha Neininger, product manager for sensors at Hexagon Metrology. "A very small spot diameter enables operators to use this non-contact solution for optical roughness measurements, making it possible to check surface variations even on fragile or malleable parts where tactile inspection is not an option."

For further information
www.hexagonmetrology.co.uk

Gearing up for quality with Faro portable arm

A recently installed Faro Gage at Chesterfield-based Ondrives is helping to accelerate in-process inspection tasks, reduce machine tool downtime and increase productivity.

"To help expand the range of accurate measurements our operators are able to make while components are located in the machines tools, we recently purchased a Faro Gage measuring arm," says an Ondrives spokesperson. "Not only has the Faro Gage improved the accuracy and repeatability of our on-machine checks, it allows us to correct errors at source. Its ease of use has accelerated our in-process inspection tasks considerably and resulted in reduced machine tool downtime and increased throughput.

"As the Gage is so user-friendly and intuitive, our operators who underwent the original product training have been able to explain its use to all other relevant colleagues. Now, each of our operators has become proficient in the Gage's use. Given its popularity with our staff and its highly portable nature, the Gage is now used throughout the facility.

"In addition to inspection-related use, the Faro Gage is also used for other applications, such as completing dimensional checks on our jigs and fixtures, and performing important build-up checks in the assembly area."

In addition, measuring arms such as the Faro Gage can quickly capture a prototype part's, or first-off's geometric features and compare them to nominal data in a CAD file, ensuring they meet all engineering, design and specification requirements and adhere to first article documentation requirements.

The Faro Gage measuring arm, as purchased by Ondrives, is a 3D gauge with a spherical working volume of 1.2 m. Designed specifically for use by shop floor personnel, Faro says the Gage can be set-up in seconds. It can be used to replace a range of traditional measurement tools such as calipers, height gauges and micrometers, while accurate (0.018mm) shop floor use is aided by the Gage's use of temperature and overload sensors that allow it to detect and react to change.

For further information
www.faro.com

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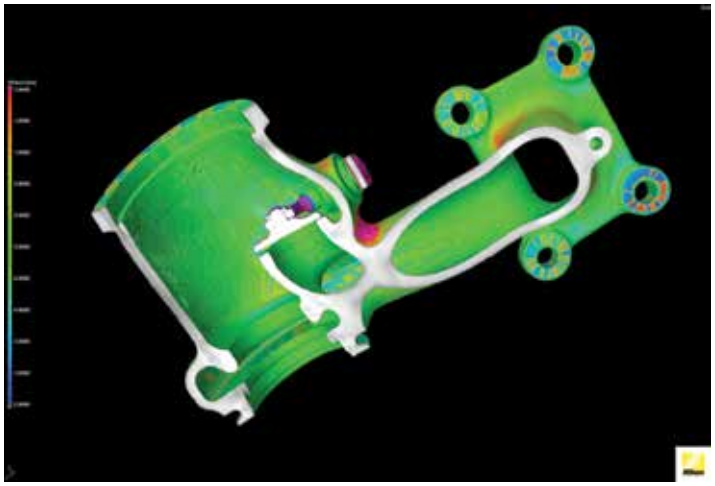
CT system suits large and dense components

The XT H 450 from Nikon Metrology is aimed at the non-destructive testing and inspection of turbine blades and cast metal parts. At the core of the system is the in-house-designed, 450 kV micro-focus source, the only one on the market, which Nikon says provides superior resolution and accuracy compared with traditional mini-focus sources. The micro-focus source features a spot size of 50 to 320 µm (depending on power), three to eight times smaller than corresponding mini-focus systems. Thanks to its open-tube design with user-replaceable filaments, the source has a virtually unlimited lifetime with low maintenance costs.

The system is available with a flat panel or curved linear diode array (CLDA) detector. The latter optimises the collection of X-rays by eliminating scatter



phenomena that typically corrupt 2D radiographs of metal parts.

For demanding applications, the high brilliance version delivers 450 W of continuous power without any measurement time restriction, while maintaining a smaller spot size of 50 to 113 µm depending on power. Compared with the standard source, the high brilliance version allows data to be collected typically three to five times faster for a given spot size and power. Alternatively, for a given power or measurement time, the available resolution will be higher, so the data quality is improved.

The system is available with a flat panel for radiography and 3D cone-beam CT, or a proprietary CLDA for 2D fan-beam CT that optimises the collection of the X-rays without capturing undesirable scatter. By avoiding image pollution and associated contrast reduction, the CLDA realises stunning image sharpness and contrast, says Nikon.

A newly designed, walk-in cabinet features a large, pneumatically controlled door, while the measurement volume of 400 x 600 x 600 mm is sufficient to measure larger parts such as engine components. The manipulator can accommodate samples weighing up to 100 kg. Generators, safety systems, power distribution and pneumatics are easily accessible through the wide service doors, enabling simple maintenance.

For further information
www.nikonmetrology.com

Tapping into new opportunities

Taps have joined the range of round tooling that can be measured automatically on Walter Helicheck tool inspection machines available from Walter Ewag UK, part of the United Grinding group, with the result that measuring times and the need for skilled labour input is reduced.

Enhancements to the Helicheck's Quick Check Modular (QCM) measurement software mean that all relevant parameters of taps can be measured – especially pitch diameter and flank angle – thus eliminating the traditional need for dedicated hand-held inspection routines that depend on skilled inspectors and manual data logging.

Tools can be measured on the Helicheck either by probe or via cameras, with QCM providing 'parameterised templates' that contain tool-specific data such as chamfer length, nominal diameter, thread pitch, neck length, first tooth position and flank angle. These automatic measuring programs therefore allow operators to simply and consistently measure even the most complex geometries, says Walter Ewag.

The Walter Helicheck tool measuring machine range extends from the three-axis Basic 2 to the four-axis Helicheck Plus and Pro models – the latter having a repeatability of ±1 µm, a measuring resolution of 0.25 µm, and the capability to handle tools up to 200 mm diameter by 300 mm long.

Quick Check Modular controls all CNC measuring machines in the Helicheck series. The software package is divided into two main components: QCM order management, the database-supported management of order data, measuring data and measuring programs; and QCM measuring technology software – fully parameterised software for tool measuring and creating measuring programs.

Among recent Helicheck developments from Walter Ewag is the release of the Helicheck 3D measuring machine for the digitising of tools and production parts. The machine generates 3D model data that can be saved, processed, analysed and measured.

Once the tools or parts have been

digitised, the machine's 3D Tool Analyser software can lay horizontal, vertical and freely selectable cutting planes at any position on the 3D model. These are analysed automatically and the resulting parameters made available for use.

For further information
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X - 2500 mm.

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Manufacturer: Modul Germany.
New in '80 years.
serial no 600605.
Max gear diam. 500 mm.
Technical condition – good.

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Universal Lathe POREBA TPK 110X8000
Rebuild in 2014 - never used. Technical condition - like new machine, all cables, electrical was changed. All rebuild was done in 2014. Technical details: Swing over bed: 1100 mm. Working length: 8000 mm. Available with - 4 Jaw chucks - 800mm - Two rest 400 mm.

Thread Rolling Machine UPWS 16
New in 1989
Technical condition very good.

Cold Rolling Machine GROB ZRM 6
New in 1973 / general overhaul 1996.Technical condition very good.
Technical details: Workpiece ø: 75 mm; Workpiece length: 900 mm; Max. Number of teeth: 12 -96; Work feed - steeples regulated: 40 - 400 mm/min; Tooth Indexing Min/Max: 10 - 40 mm; Turning Speed Range: 2500 U/Min; Total Power Requirement: 10.5 kW; Weight Of The Machine Ca.: 4 T.

Boring Machine DROOP + REIN
New in '70 years/ overhaul in 1991.
Technical condition very good.
Spindle 180 mm.
Taper iso 60.
Cross travel 6000 mm.
Vertical travel 2500 mm.
Machine available with rotary table 2500x2500 mm.
Plate 4000x 5000 mm.
Digital readout.

Pipe Lathe RIAZAN 1M983
New in 1981.
Technical condition: very good.
Machine has 2 chucks front & rear.

Overview opts for Baty Venture Plus

Due to increasing demand, a manufacturer of CCTV cameras and control mechanisms, London-based Overview Ltd, recognised the potential for bottlenecks in the company's inspection department. To help avoid the prospect of delays, a decision was made to review the optical measuring systems available in the market. Mindful of the need to accommodate higher future production levels, the company considered systems that featured a larger measuring range able to accommodate multiple parts, with the added benefit of automatic CNC operation.

Having applied the company's CCTV and electro-mechanical systems knowledge to the review process, senior staff recommended the purchase of a Venture Plus, multi-sensing, CNC vision measuring system from Baty International, part of the Bowers Group.

Xanadu Hewitt, operations and quality assurance manager, says: "In addition to its optical measuring capability, the Venture Plus has the advantage of a tactile probing system. The machine is also very easy to program, we have now written part programs and recall them when needed, enabling us to perform fully automatic CNC inspection routines. Baty's software is very intuitive and provides all of the information we need; it also generates very useful statistics and allows us to store inspection reports electronically."

Fusion metrology software has been the foundation for Baty's camera-based inspection systems for more than a decade. The use of Fusion renders CNC programming a simple teach and repeat process, says Baty. By measuring a part in straightforward manual mode, a full CNC program is produced automatically. The system's zoom lens and fully segmented LED lighting system can also be controlled from software so that all magnification and lighting changes are recorded into the program, recreating the same conditions every time a new component batch is measured.

Measurements from data points taken using the Venture Plus's touch probe can be combined with those taken using video edge detection, optimising speed and reducing inspection times, says the company.

For further information www.bowersgroup.co.uk

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PartInspect M enclosed scanner introduced

Fully automated scanning of different materials and surfaces, irrespective of the environmental conditions, is the claim by Breuckmann, part of Aicon 3D systems, when using the scanning concept of the company's new PartInspect M.

For fast digitisation, the system comes with its own measuring chamber: the 3D scanner captures the measuring objects inside an enclosed housing. Therefore, PartInspect M can be used at any user-defined location: in production, in the laboratory or at the designer's workplace. The integrated turn-tilt unit provides automated digitisation without any user intervention, says the company, and can even handle complex surfaces. PartInspect M operates irrespective of material (plastic, metal, composite) or surface properties, while the contact-free scanning process even captures fragile or deformable objects, such as those made of modelling clay or ceramic.

Depending on individual measuring requirements, the delivery scope of PartInspect M comprises a Breuckmann StereoScan or a configuration of the SmartScan product series. The measuring fields ranging from 75 to 350 mm are suitable for test objects measuring a maximum of 300 x 400 mm and a weight of up to 15 kg, achieving feature accuracy of up to 0.008 mm.

Inspection of small batch series, random sample checks, reverse engineering or component measurements are application areas of PartInspect M. Thanks to patented technology, the enclosed scanning system is suited to the inspection of edges, such as the leading and trailing edges of turbine blades.

Irrespective of the surface characteristics of the measuring object, even radii in the tenth of a millimeter range are measured at true-to-detail accuracy, says Breuckmann. The operation of the system is supported by an easy, workshop-fit user interface, while scan data can be compared with the CAD draft automatically, providing evaluations for each captured component.

For further information
www.aicon3d.com

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Collision avoidance added to PowerInspect

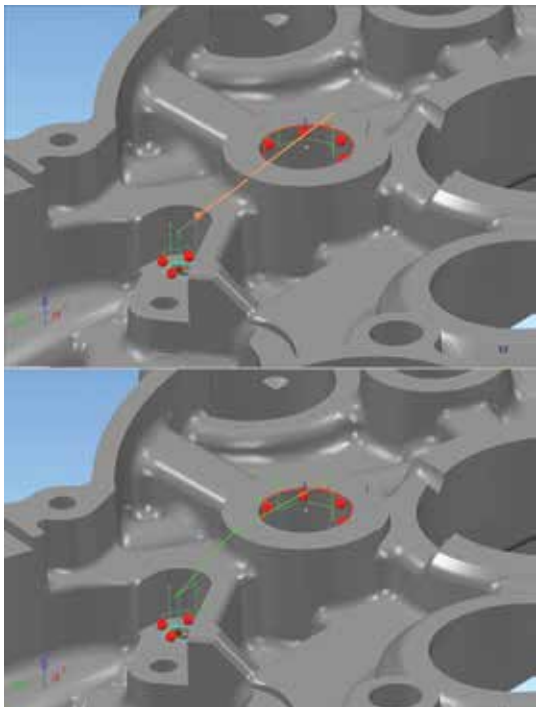
Delcam has released the 2015 version of its PowerInspect hardware-independent metrology software. The new version includes automatic collision avoidance, faster import of large CAD files, quicker preparation of longer inspection reports, and improved display of results from point-cloud data.

PowerInspect has included collision detection for many years to warn the user when there was a possibility of any collision between the probe and the item being inspected. Until now, the user then had to make the required changes to the probe path to avoid the collision. However, with PowerInspect 2015, the software adjusts the probe path automatically if a direct move between inspection features has the potential to produce a crash. The software will calculate a new motion path that avoids the collision, typically by moving up and over the obstruction, or around it.

Collision avoidance is carried out when the initial probe path is generated, when the sequence of measurements is re-ordered, and when features are added or removed. As well as preventing collisions, automatic collision checking will save significant programming time, especially when inspecting more complex items. The user still has the option to override the path produced by the software. This might be required if any accessories not modelled in the CAD data are present, for example, any clamps or fixtures being used to hold the part.

A number of improvements to PowerInspect 2015 have also made both data import and report generation much faster. The differences will be particularly apparent when reading large CAD models, such as a complete car body, and when producing longer reports with more graphical images. Another improvement in reporting gives users much greater control over the content of any report. For example, it is easier to produce a summary of the complete set of results as a management report. Similarly, a more concise report can be produced when greater detail is not needed.

For further information www.powerinspect.co.uk



Latest generation LaserTracer-NG unveiled

Etalon's LaserTracer was developed for sub-micron geometric analysis, monitoring and accuracy improvement of machine tools and measuring machines. It is a self-tracking laser interferometer that tracks a reflector automatically, and hence allows for the identification of geometrical deviations. The compensation data determined by the system can be imported directly into the control software of the machine or CMM.

The follow-up model, LaserTracer-NG, is a redesigned system that consolidates Etalon's experiences of machine calibration gained during the past 10 years.

The LaserTracer-NG is smaller, weighs less and offers a larger angular range. As a result, it facilitates measurement in limited machine space. Moreover, it can deal with dynamic machine movements: the accelerations of the machine permitted during measurement have nearly doubled.

Factory floor suitability was a major aspect of the redesign effort. Originally, the LaserTracer had been used mainly under laboratory conditions. In recent years, it has been developed into production applications, and now faces much harsher conditions. To prepare the new LaserTracer-NG for this challenging environment, it is equipped with a closed housing, just two connectors and a more flexible cable.

The LaserTracer-NG, like the previous model, features high centre of rotation accuracy thanks to a patented measurement technique: a sphere with a form deviation of just 50 nm is used as an optical reference for the interferometer. As a consequence, the mechanical errors of the rotation and swivel axes are compensated.

For measuring, the LaserTracer-NG is placed at several different positions inside the working volume of the machine tool. Then, the reflector is mounted to the tool or probe. In the subsequent automated measuring process, the system tracks the actual path of the machine across its entire working volume. Meanwhile, the system acquires measurement values that are processed and analysed by Etalon's software package, Trac-Cal.

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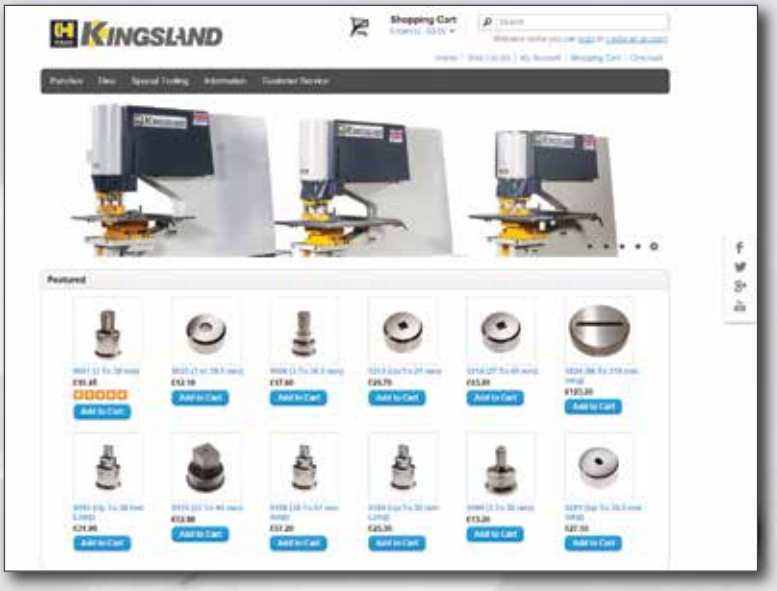

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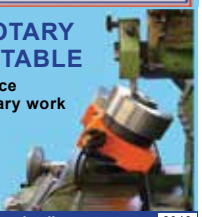

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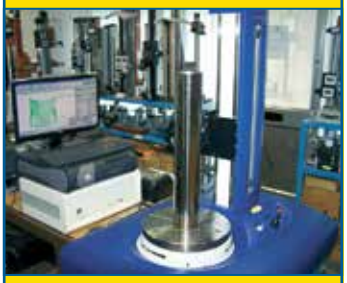

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Foundry

Core / Shot

Laempe L20 automatic core shooter with SM-3 core sand mixer (2005), gas generator, hopper & hydraulics (1998)

Laempe LKFZ120 automatic core moulding production centre with 1 ton handling beam, SM6 9/2 mixer, L6 gas generator, hopper & hydraulic, dryer (1997)

Tilghman Wheelabrator WTB 28 tumble blast with control, shot recovery, extraction & load / unload

Doug Booth HP- EU80-TW tumble blast with control, shot recovery, extraction & load / unload (refurbished 2008)

Tilghman Wheelabrator LE/M3/1500 hook blast machine with overhead loading gantry & shot recovery

Doug Booth supplied hook blast machine with overhead loading gantry & shot recovery

Melt / Furnaces

Fuchs 3 ton electric arc furnace, 90" bowl, hydraulic lift & swing lid, mechanical body tilt / pour with Metropolitan Vickers 3500kva transformer, controls, C02 fire suppression system etc (refurbished 1997 & PLC upgrade 2006)

2x Saflame gas fired ladle pre heaters. 7x Roper geared crane ladles. 2x furnace scrap charging buckets. 2x Chatburn Chantry (Furnace Service & Maintenance) F9342 high temp batch ovens, 205-625degC temp (1997)

5x Chatburn Chantry (Furnace Service & Maintenance) F9500 gas fired high temp batch furnace, 1200degC max temp (3x 1997, 1x 2005 & 1x 2010)

Chatburn Chantry gas fired core drying tunnel oven, 150degC max temp, loading system (1997)

Furnace Service & Maintenance furnace loader / heat treat charger, 5 ton approx max cap.

Quenching tank with overhead gantry, electric chain hoist, cooling pumps, BAC quench cooling tower etc

Sand Plant / Mould Handling

Sand Plant inc: FTL tip loader, shakeout deck, OMEGA attrition unit (2014), blower, Richards cooler classifier, blower to 3x sand hoppers, controls, extraction unit etc (2003). BAC TXV 135 sand reclaim cooling tower (2003)

FTL stack mould handling system complete with mould pouring, storage & cooling conveyor system 813x813mm pallet size, 55 slabs per hour moulding rate, loading station, transfer cars, pallet lift, jacket lift & tip over unit.

Extraction / Filtration / Sundry Equipment

Luhr DWF 3.0/7.5/2.3/68/98 dust collection plant, full PLC monitoring, 56,000 CFM (1997 - refurbished 2006)

BMD Garant FS722 / 5.00 / 700 furnace extractor, 60,000 CFM (1998)

Rotary dust extraction unit. Reverse pulse dust extraction unit. Marley MDG26-1-9-12D cooling tower (1997)

AB Dust Control Ltd vertical tower packed acid scrubber, 6000CFM (1997)

FTL sand distribution hopper, 2800mm dia x 5500mm high with blower, control & low sand level alarm (2006)

Ronan XSD-1000 Auto Start radiation detection system with monitor panel (1990)

Machine Tools

Archdale 1100mm radial arm drill, 40-2000rpm, 870x600mm table. Herbert twin spindle drill, 36x16" RF table, powerfeed, 106-2850rpm. RJH Bandfacer 100mm horizontal belt linisher (1999). Excel d/e grinder. 2x 12" disc sanders. Fintec 75mm vertical belt linishers, 1 with extraction (1997 & 2006). 2x Fintec 521 70mm belt linishers, 2x Morrisflex CG1-7P Cougar 100mm linishers with Mardon MS100 extraction. 3x RJH Cougar 100mm linisher with Mardon MS100 extraction. Promach UE-330SA 13" metal horizontal bandsaw (2009). Battipav Elite 80 concrete table saw (2012). 2x Makita 2414B pull down saws. Brown & Sharpe 1024VSL centre lathe, 5" CH x 24" b.c., 40-2500rpm with hydraulic copy attachment

Inspection / Laboratory / NDT

Brown & Sharpe MXCEL 7-6-5DCC CMM, 950x840mm granite bed, 900mm b.c., Renishaw PH10M probe (1998)

ARL Model 3460 Spectrometer. 950x850mm granite surface plate. KF MAB09 hardness tester. Ridsdale swing impact tester. Endecotts 1mk1.1 test sieve shaker. Magnaflux crack detector in enclosure.

Factory Plant / Lifting

Worthington Creyssensac RLR150V7 compressor, 110kW (2011). CompAir L160-7.5A compressor, 160kW (2007).

CompAir L75SR compressor, 87.6kW (2001). CompAir Broomwade 6020E07A compressor, 16.6kW (1994).

Ingersol Rand SSR M18.5 compressor, 18.5kW. RP compressor on 100ltr air receiver. Ingersoll-Rand RS-32 air dryer (1996). Hankison air dryer (2003). CompAir SmartAir system controller. Hi-Line Industries HPS950 twin tank air dryers. 3x Reservoirs X Pauchard 2000ltr air receivers (2007). Winder Electrical 3500kva transformer (refurbished 2006). 1400kva transformer. 5x Demag & Morris 10 ton / 20 ton overhead cranes, 15m approx span, pendant / remote controls (1x crab upgrade 2008)

Qty various flour mounted & girder mounted swing jibs with electric chain hoists, pendant control to 2 ton (to 2005)

Demag overhead gantry, 4m span x 10m runway, 630kg SWL, Stahl electric chain hoist, pendant control

Demag floor mounted type overhead gantry with Demag electric chain hoists (dismantled)

2x Linde H25D01 & H20D01 diesel fork lift trucks, triple mast, side shift, hydraulic fork width adjustment (2012)

Miscellaneous

Tennant 6400 ride on floor sweeper (1997). Clarke StrongArm AHP25 garage press (2008). Ridgid 300 pipe threader. BOC oxyacetylene profile cutter. Rockweld oil filled welder. 2400x1200mm steel welding table. 2x paint dip tanks. Qty Rhino YWF4E-500 industrial fans. Alpheus Miniblast SDI-5 dry ice blast cabinet (1997). Josef Kihlberg BT stapler. Qty manual pallet trucks. Wagetechnik Tipgrip 2 ton electric crane scales. Salter Weigh-Tronix WI-125 & Avery Berkel L116 digital scales. 2x Igranic etc electric crane magnet. Qty wooden railway sleepers. Tecmix TM1100 mixer, angle grinders, torque wrenches etc. Qty Dexion etc heavy duty boltless pallet racking. Qty 600mm wide roller conveyor. Industrial hoover. Larzep hydraulic power pack. Manual metal strap bander.

Qty metal tipping skips, metal storage bin etc. 2x Mardon Engineering MS100 dust extraction units. Qty 2700x1700mm stove trays. MIM 063-13 twin pump vacuum system. Qty ABB, SEW, Rossi etc motors / gearboxes to 37kW, single / multicore / 3 phase / SWA etc cables. Invicta Vibrators 6.2kW vibratory motor. Fenner 160kW inverter drive unit (unused). Qty maintenance spares inc: FAG, SNR, BSL, Renolds etc bearings, Vee belts, chains & sprockets, rotary valves, probes, sensors, actuators, nuts, bolts, gearboxes etc. Qty various steel bar stock inc: round, bar, plate etc. Qty office furniture inc: desks, book cases, meeting tables, partition screens, chairs etc

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WELDING: 2 Esab LAH 630, 2 Lincoln Electric Bester Magster 401, SAF-FRO Filcord 453SW, Murex Transmig 500, GKN Lincoln Electric FCR 400 VC Arcmaker; Murex VMMF-1; Mobile Welding Fume Extractors; Welding Screens; Oxyacetylene Cutting Torches; Bottle Carts etc.

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FABRICATION AND FINISHING: TRUMPH Trumatic L2530 CNC Laser Cutting Machine (2001); TRUMPH TrumaBend V855 Press Brake (2007); DAYLESFORD Vacuum Lifter; AMADA SP30 Punch; Pyramid Rolls; AIRFLOW Spray Booth (2014); PEDRAZZOLI Chop Saws; Pillar and Bench Drills; MIG/TIG Welders; Fume and Dust Extraction by KEMPER; Fly Presses by NORTON and EDWARDS; Linishers.

WOODWORKING: SCM Pratix 48 NST CNC Router (2005); SCM Pratika Trimmer (2004); Contura Edgebander (2004); Sandya 1K Belt Sander (2000); S520 Thicknesser (2000); T110 Spindle Moulder; EBM KDP103 (2010) and KDP111 (1997) Edgebanders; PUTSCH MENICONI SVP145 Wall Saw (2005); WADKIN SP Dimension Saw and 12BFT Planer; STARTRITE Bandsaw; Morticer; Spray Booth by AIRFLOW and others; DCE Extraction Systems; Mobile Scissor Lifts; Power Tools; Workbenches.

ACRYLIC FABRICATION: AXYE CNC Acrylic Router (2001); CLARKE 1250B Hot Wire Bender (1999); Diamond Edge 1550 Polisher (2000) and Flame Polishers **(x3)**.

HANDLING, STOCKS, SUPPORT AND WORKSHOP: SAMSUNG SF20L LPG Forklift Truck (1998); Compression Plant by HYDROVANE and INGERSOLL RAND; 20' and 10' Shipping Containers **(x4)**; Stocks of Sheet and Section Timber; Bar and Angle in Aluminium and Steel.

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- **Famup** MCX 700 Twin Pallet Vertical Machining Centre with OM Control, (2) 600 x 450mm Pallets, 24-Station ATC
- **Mazak** H400 Multi Pallet Horizontal Machining Centre with Mazatrol M32 Control, 400 x 400mm Pallets, 1 degree Indexing, 90-Station Toolchanger
- **Chiron** FZ12W Twin Pallet Vertical Machining Centre with Fanuc OM Control, Coolant & Swarf Conveyor

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- **Fanuc** Alpha 1C Type A04B-0310-3001/E5 Wire Eroder with Fanuc Series 16-W Control (1997)
- **Cincinnati** Sabre 1250 Vertical Milling Machine with GE Fanuc Series 0-M Control
- **Cincinnati** Arrow 750 Vertical Machining Centre with FNC Control
- **Brown & Sharpe** Validator Coordinate Measuring Machine
- **Huron** KU4 Milling Machine with Digipac 3-Axis DRO
- **Bridgeport** Series I 2HP Turret Mill
- **Bridgeport** Turret Mill
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- **Herbert** Pillar Drill
- **Pollard** Model 15AY Pillar Drill
- **QS** QDM 625 Pillar Drill
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Okuma MA60HB Horizontal FSM Machining Cell, CNC Milling, Turning & Manual Machine Tools available due to Restructuring within a Multinational Precision Engineering Group

Bidding Ends: Thursday 23rd April 2015 at 3.00pm (UK Time)

Viewing by Appointment only with the Auctioneer

- Horizontal Machining Cell comprising; (2) **Okuma** MA60 HB Horizontal Machining Centres, **Fastems** FSM System & Wash Station (2001)
- **Makino** MC-86 Multi Pallet (12) Horizontal Machining Centre
- **Makino** FNC74 Vertical Machining Centre
- **Victor** VTPlus-15 CNC Lathe with Fanuc OT Control
- **Olkuma** LB25II CNC Lathe
- **Okuma** LB15II CNC Lathe with OSP 7000L Control & Iemca Barfeed (1997)
- **Okuma** LB15II CNC Lathe with OSP 7000L Control (1996)
- **Okuma** LB15 Twin Turret CNC Lathe with OSP 500L-G Control, Iemca KID 70 Barfeed
- **Weldprep** Planishing Machine
- **Guyson** 10PF Gritblast Machine
- **Turbex** Wash Machine
- **Pollard** Drilling Machine
- Spray Booth, Pallet Wrapper, Scissor Lift, Light Duty Table Lift
- Plus many more items

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For Further Information please contact our Office:
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HN Harben Ltd Engineering
April 30th

HN Harben Ltd

Aviation Engineering And Engineers in Wolverhampton. Complete Engineering Plant sale due to retirement.

Location: Wolverhampton, Open Day to be confirmed. Auction Ends: Thursday 30th April 2015

Hardinge Talent CNC Lathe

Bridgeport Interact 1 Heidenhain TNC145

Bridgeport Interact 1 Heidenhain TNC151

Adcock Shipley 2ER Horizontal Mill

Adcock Shipley Horizontal Mill

Richmond Horizontal Mill

Colchester Triumph 2000

Colchester Round Head Lathe

Abwood Rotary Grinder

J&S 540 Grinder

- Colchester Triumph 2000 DRO
- Bridgeport Turret Mill with DRO
- Bridgeport Turret Mill 2
- Bridgeport Turret Mill 3
- Bridgeport Turret Mill 43 x Bench Grinders
- Myford Grinder
- Ward 7DS
- Ward 7DS With copy attachment
- Ward 3DS
- Ward 2CA
- Draper Pillar Drill
- Elliot 3A Drill
- Elliot 5E Drill
- Speedmax vertical saw
- RJH 3" Belt Linisher
- Shot Blaster
- Taylor Bobson Engraver
- Fly press
- Oven
- Pulsair Compressor & Drier Package
- Fork lift
- Pallet trucks
- 6 x benches With Bench Vices
- Combat heater White (Nearly New)
- Combat heater Red
- Industrial Vacuums
- Toggle Press
- Pope Bender
- Spary Booth with Extraction Welder
- Inspection Equipment
- Inspection Table
- Tooling

Much More to be added

TWYMAN ENGINEERING LTD
Online Auction

80+ Lots

Twymann Engineering Limited

Unsold Lots from Complete Precision engineering Plant sale due to retirement.

Location: Thurmaston, Leicester LE4 8HN
Auction Ends Between 15:00-15:30 GMT on Thursday 9th April 2015

Mazak FH680 HMC

Mazak H630N HMC

Mazak H630 HMC

Okuma MC 600 HMC

- 2 x Cincinnati Maxim 630 HMC
- Hitachi Selki 630 HMC
- 2 x Cincinnati 10HC 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
- Walter Modular Tooling System - Large Selection of 19 Various Cutting Heads with 11 CAT 50 Holders
- CAT 50 Extended Sidelock Holders + Other CAT 50 Tool Holder
- BT50 Side and face holders with through coolant spindle adapters x 3
- Selection of Cat 50 Microbore bar and Porcupine cutters
- Moore & Wright internal micrometer
- Baty depth gauge with clock
- 7 x Moore & Wright Depth Gauge sets
- 450mm height gauge
- John Bull Groove Callipers
- Seletion of Callipers
- Acratork Model L3
- Electric Torque Wrench, up to 1500nm with Crane
- 4 Boxes of Cat 40Tool Holders
- 2 Boxes BT40 Tool Holders
- Selection of 7 BT40 microbore & tip cutters, Mill face & U drill holders
- Selection of 12 boring bars & tips
- Selection of 6 boring bars & tips
- Pair of modular boring bars with

5 AXIS GANTRY COMPOSITE MILLING MACHINE
April 16th

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 GMT

COLLECTIVE MACHINERY ONLINE AUCTION
April 16th

1st Machinery Auctions are offering various Machines from Various UK Sites.

Please see each lot for details
Online Auction Date: Thursday April 16th 2015 - 3pm GMT.
Viewing Dates: Appointment only Call us for more details: 0845 287 1290
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Daewoo VC500

Kingsland Metalworking Machine

Asquith Radial Drill

Richmond Envoy Radial Drill

- Union Pedestal Grinder
- Dormer Drill Grinding Machine
- Fendo Bandsaw
- Cincinnati Vertical Milling Machine
- Meddings Pillar Drill

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Great Plains Alloys UK Ltd has a large selection of Excess Manual Machines and Plant used to fulfil a Defence Contract to be auctioned

Online Auction Date: Thursday 9th April 2015 – 3pm GMT Location: Brierley Hill, West Midlands
Viewing Dates: Appointment only All machinery must be removed by 22nd April.

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Ward 10/13 Lathe

Ward 10 Lathe

Ward 10 Lathe

Ward 10 Lathe

Ward 10 Lathe

Ward 10 Lathe

Herbert 9C-30 Lathe

Ward 7D Lathe

Ward 7D Lathe

Ward 7D Lathe with copy turning attachment and DRO

Ward 7C

Ward 7 Lathe

Ward 7 - with old roller box and collet attachment

Ward 7 Lathe

Herbert 7 Lathe pneumatic chuck and turret

Herbert 7B Lathe

Herbert 4 Senior - no gear box on carriage

Herbert 5 Senior lathe - hand wheel collet attachment

Lot of Lathe Parts

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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
With Automatic Steepless Microhead, Spindle Extension 400 mm,Hydrostatic guide-ways for all axis. X-12.000 mm; Y-4.000 mm; Z-1.500 mm. Table 3.00 x 3.000 mm/ 60 Tons/ 360,000°. New 2005.

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.

SCHIESS 3/2 VKE 420/900
Table diam 4.200 mm
Max. Diam 9000 mm!
Max. turning Height.
Table load 90.000 tons.

DOUBLE COLUMN VERTICAL BORER STANKO 1550
Max. ø of workpiece: 5000mm. Max. height of workpiece: 2500mm. Table ø : 4500mm. Max. weight of workpiece: 100t. Completely retrofitted with new electrics …etc in 2011.

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 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.

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.
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 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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