

AUCTION

2-DAY SALE · Thurs & Fri 12th & 13th JULY

1st DAY – Thurs 12th JULY – commencing at 10.30am
MACHINE TOOLS · FABRICATING · FACTORY EQUIPMENT
2nd DAY – Fri 13th JULY – commencing at 10.30am
INSPECTION · COMPUTERS · OFFICE FURNITURE & EQUIPMENT

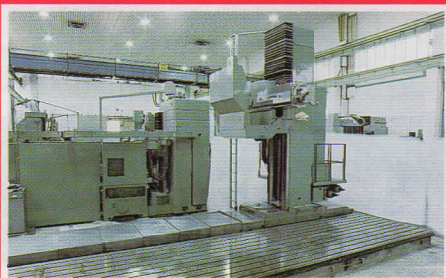
PRIVATE TREATY ITEMS – SALE NOW ON!
Contact the Auctioneer for Viewing arrangements

By order of the Board of Directors, Surplus Manufacturing Plant no longer required in the continuing business of

MORFAX LIMITED

WILLOW LANE · MITCHAM · SURREY · ENGLAND

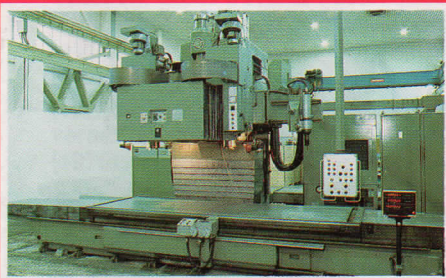
*(Southern Suburb of London – with quick access to Heathrow & Gatwick Airports)**



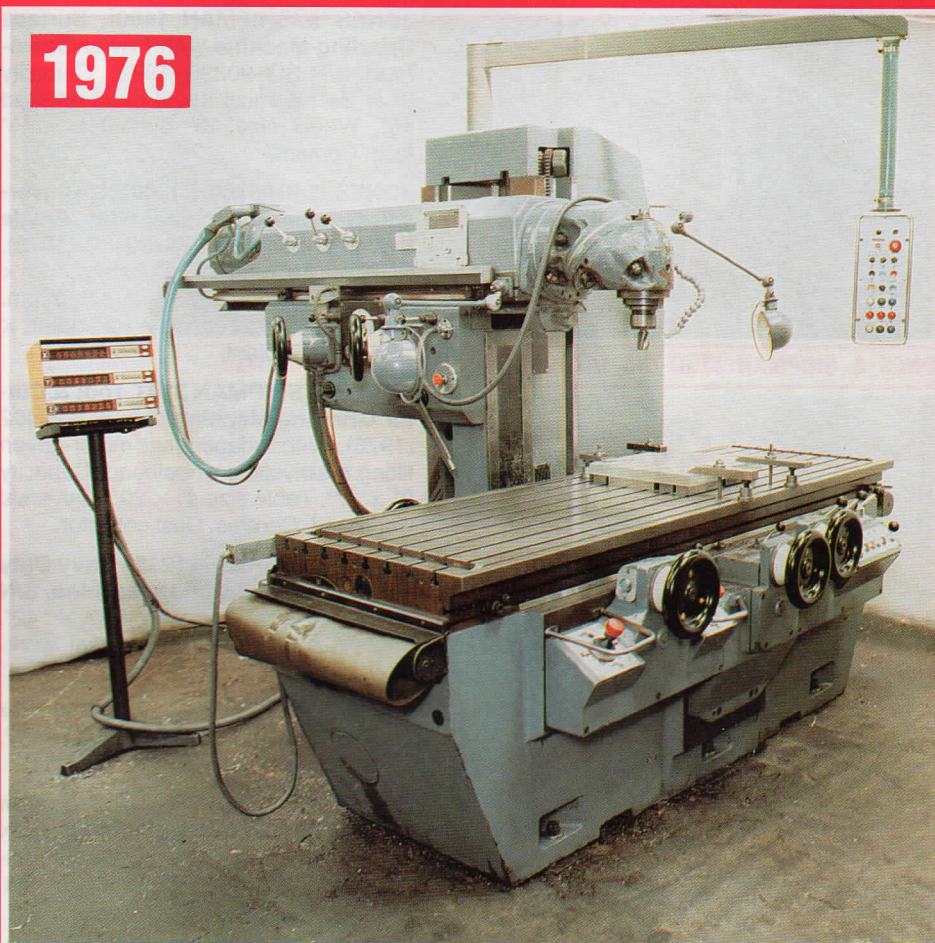
**... and
FOR SALE BY
PRIVATE TREATY
ONLY**

**LARGE CAPACITY CNC
PRECISION MACHINE TOOLS
1978 TO 1988**

*See Pages 7 to 11 of this
Brochure for full details*



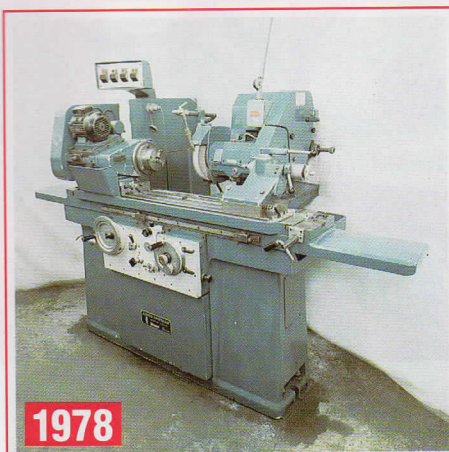
1976



**A SUPERB RANGE OF MACHINE TOOLS
SHEET METAL & FABRICATING PLANT
WELDING · FINISHING · INSPECTION · TEST · TRANSPORT
& General Factory Equipment**

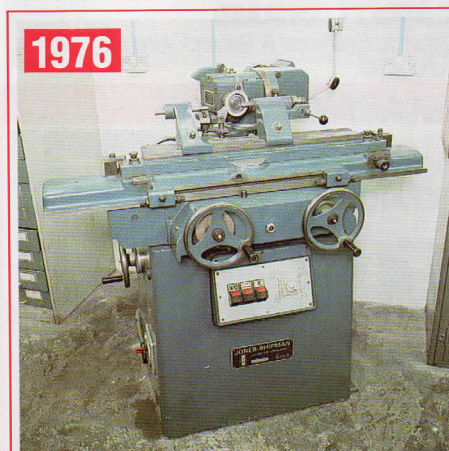
**NO BUYER'S PREMIUM
CHARGED AT THIS SALE**

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Auctioneers/Valuers



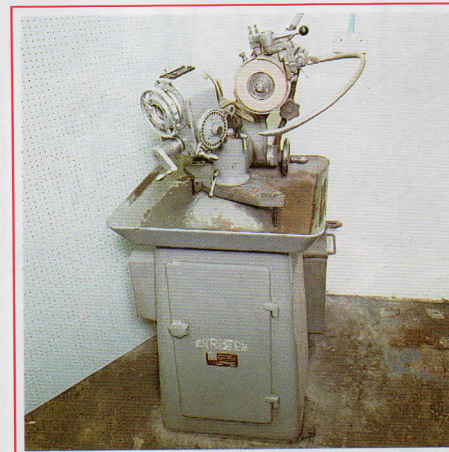
1978

J. & S. 1300EIU UNIVERSAL GRINDER



1976

JONES & SHIPMAN 310T T & C GRINDER



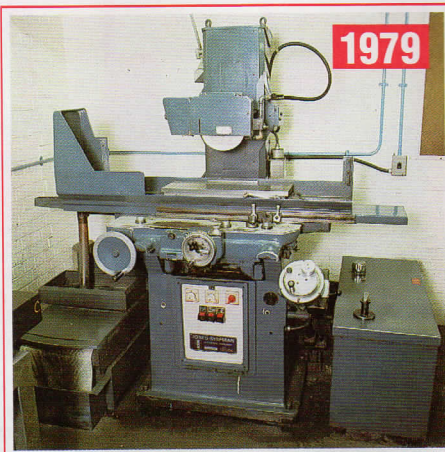
CHRISTEN 2-32 DRILL POINT GRINDER

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Auctioneers/Valuers



1979

J. & S. 1400L SURFACE GRINDER

GRINDING MACHINES

For sale by Auction – Thurs. 12th July (1st day)

1—JONES & SHIPMAN 1400L Surface Grinding Machine with Power Down-feed. S/N BO-90398 (1979). Capacity 8" x 24". Vertical travel of wheelhead 16". Wheel size 10" diameter x 3/4" face. Coolant.

1—JONES & SHIPMAN 1300EIU Universal Grinding Machine with Single Swivel Slide. S/N BO-92491 (1978). With raised centres. Capacity 14" x 27". 6 workhead speeds 40 to 320 rpm. Cylindrical wheel size 12" diameter x 1 1/2" face. Coolant.

1—JONES & SHIPMAN 310T Tool & Cutter Grinding Machine. S/N BO-90402 (1976). With independent motor-driven tilting & swivelling wheelhead. Capacity 8" x 27". Table size 4" x 29". Universal workhead. Centres. Dust collector.

1—JONES & SHIPMAN 1235 Heavy Duty Tool & Cutter Grinding Machine. S/N 65757 (1970). Capacity 14" x 42". Table size 7" x 43". Universal workhead. Centres.

2—CLARKSON 12" x 6" Tool & Cutter Grinding Machines. S/N 1687, 10137. Table size 13" x 4 1/4".

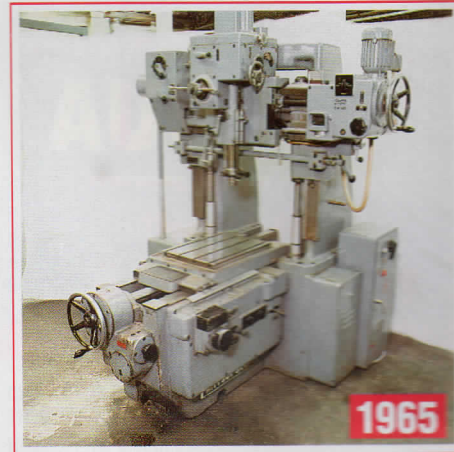
2—CHRISTEN Model 2-32 Precision Drill Point Grinding Machines. S/N 1134, 1335. Capacity to 32mm diameter. Wheel size to 150mm dia. Coolant.

1—TOS Model BNV75 Drill Point Grinding Machine. S/N 052399. Capacity to 75mm diameter (3"). Wheel size 9" dia.

1—JONES & SHIPMAN Cone Centre Grinding Machine. Capacity 13" diameter x 42" between centres. 2 wheel speeds 745 & 1420 rpm.

1—DIAFORM Table-mounted Wheel Dresser. S/N 3136 AT.

**NO BUYER'S PREMIUM
CHARGED AT THIS SALE**



1965

MITSUI SEIKI 3A JIG BORER

2-DAY PUBLIC AUCTION

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Plant no longer required in the continuing business of

MORFAX LIMITED

WILLOW LANE · MITCHAM · SURREY · ENGLAND

commencing at 10.30am each day on

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VIEWING: Tuesday 10th & Wednesday 11th July – from
9am to 4.30pm, and on mornings of sale

TOOL GRINDERS & LAPS

For sale by Auction – Thurs. 12th July (1st day)

1—ABWOOD 8" d/e Tool Lap with Chip-breaker attachment. Main table size 9" x 20". Reciprocating Chipbreaker table 7" x 14".

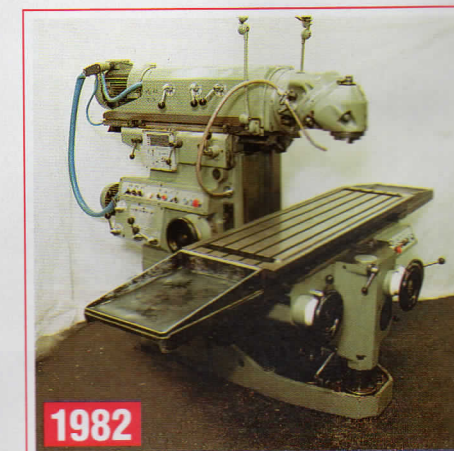
1—WICKMAN 14" d/e Tool Lap. Table size 10" x 31".

1—ABWOOD 6" d/e Tool Lap. Table size 7 1/2" x 15".

1—NEVEN 6" Diamond Lap. Table size 10" x 7".

2—BRITAN 4-wheel Tool Grinders
Wheel diameter 6".

18—d/e Tool Grinders by BLACK &
DECKER, WOLF, GRIMSTON.



1982

HURON NU4 UNIVERSAL MILL

DIXI & MITSUI SEIKI JIG BORING MACHINES and Equipment

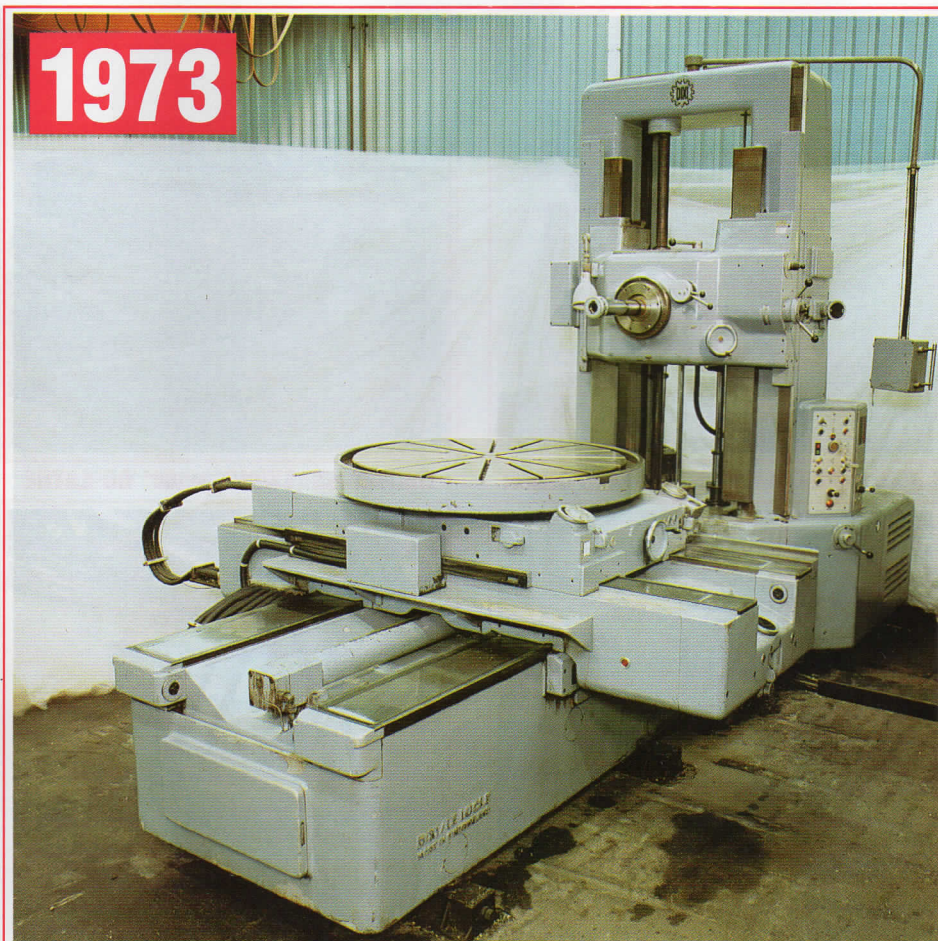
For sale by Auction – Thurs. 12th July (1st day)

- 1—DIXI 75 OME Optical Horizontal Jig Borer. S/N 1119 (1973). Optical rotary table 1200mm diameter. Longitudinal table travel 1550mm. Cross travel 960mm. Vertical travel of head 870mm. Moving quill 75mm diameter × 450mm travel. Hollow spindle flange 235mm diameter. Infinitely variable spindle speeds 32 to 1600 rpm. Inf. var. feeds 0 to 4000 rpm. Pendant control. Metric execution. Dixi Vidimatic control. Extensive range of 'Dixi taper' tooling. Dixi 710 × 610mm angle plate.
- 2—DIXI 450P Vertical & Horizontal Optical Rotary Tables.
- 1—MITSUI SEIKI Model 3A Double Column Jig Borer. S/N TA 348. (1965). Table size 15" × 20". Between columns 23½". Longitudinal travel 20". Cross travel of head 14½". Distance under spindle 21". Quill travel 6". 12 speeds 50 to 2100 rpm. Extensive range of tooling.
- 1—MITSUI SEIKI 13¾" diameter Optical Rotary Table.
- 1—MITSUI SEIKI 9" diameter Tilting Rotary Table.
- 1—OMT 30" diameter Optical Rotary Table. S/N JP34–49. Height 10".
- 1—SIP PI-4 Tilting Rotary Table. S/N 580. 11½" diameter.
- 1—HOFFMAN 12" Rotary Table.
- 1—32" diameter Rotary Table.

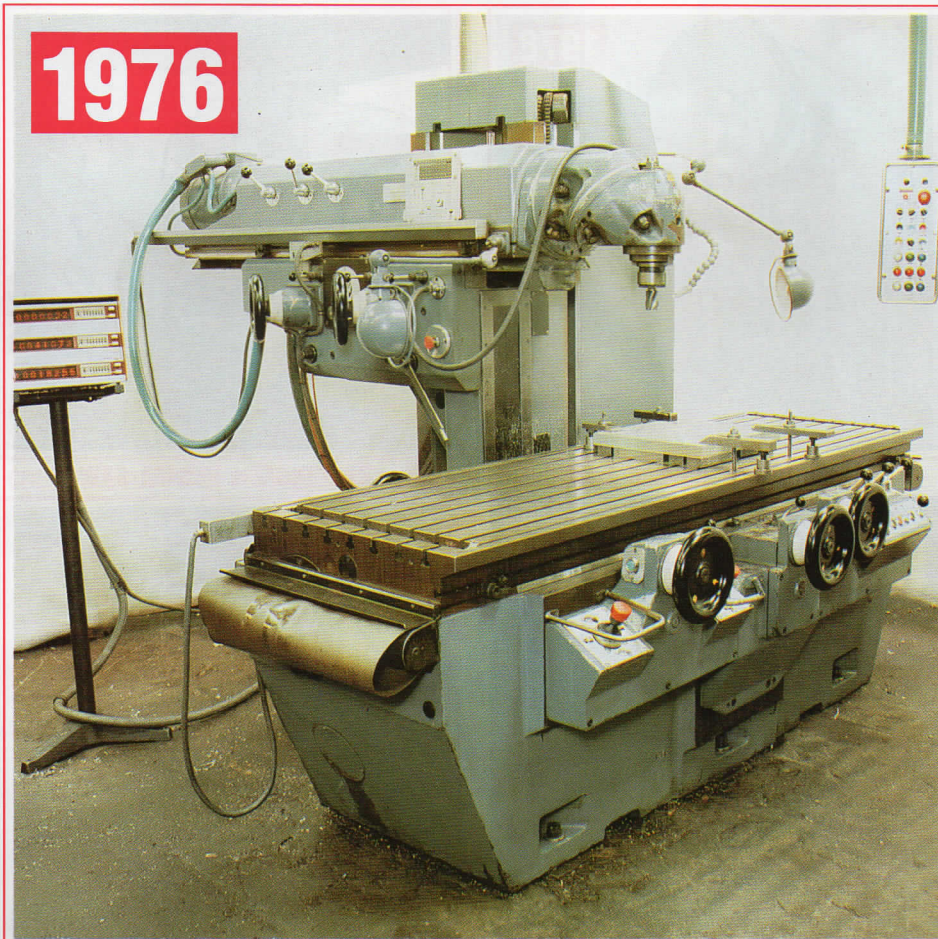
HURON BED-TYPE & UNIVERSAL MILLING MACHINES

For sale by Auction – Thurs. 12th July (1st day)

- 1—HURON Model NU4 Universal Milling Machine. S/N 16602 (1982). Table size 460 × 1430mm. Longitudinal travel 1100mm. Cross travel of head 700mm. Vertical travel of knee 500mm. Speeds to 2066 rpm. Feeds 1.6 to 820 mm/min. Metric execution.
- 1—HURON Model PU771 Bed-type Universal Milling Machine. S/N 1448 (1976). With 3-axis DRO. Table size 700 × 2240mm. Longitudinal travel 1900mm. Cross travel of head 1000mm. Vertical travel of head 1000mm. Speeds to 2066 rpm. Feeds 1.6 to 820 mm/min. Metric execution. Pendant control.
- 2—HURON High Speed Drilling Attachments.
- 1—HURON Slotting Attachment.
- 1—JONES & SHIPMAN 9" dia. Indexer.

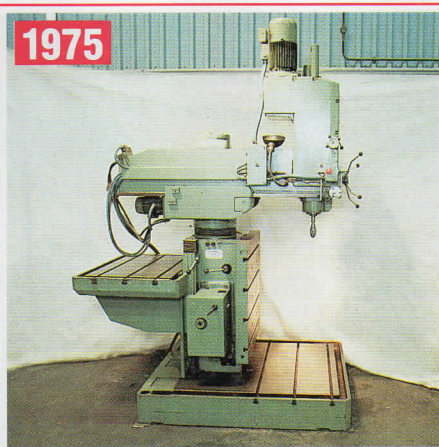


DIXI 75 OME OPTICAL HORIZONTAL JIG BORER

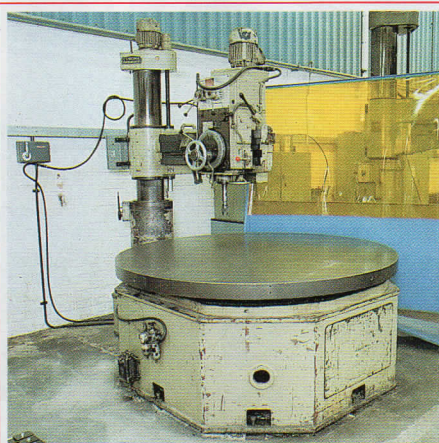


HURON PU771 BED-TYPE UNIVERSAL MILL – 3-AXIS DRO

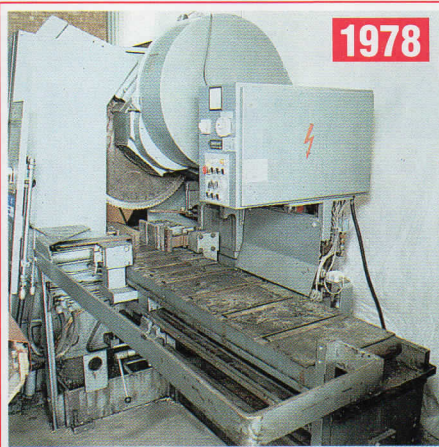
1975



SCHLUMBERGER COMBINATION DRILL

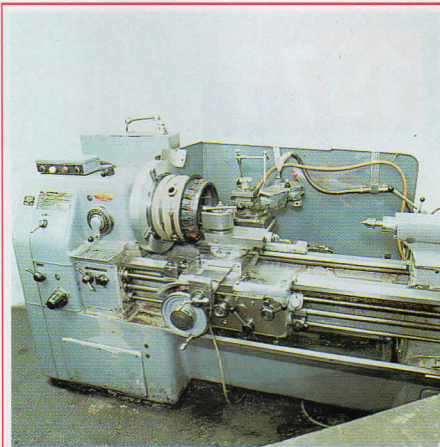


POLLARD 420 RADIAL DRILL & 72" TABLE

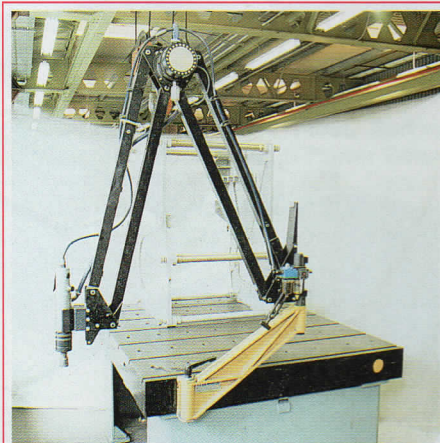


KALTENBACH KSV630 SAW

1978



OKUMA 22" SWING x 60" BC LATHE



S & L MASKIN SINGLE HEAD TAPPER



KALTENBACH KKS400 SAW

1978



DO-ALL V36PG BANDSAW

CENTRE LATHES

For sale by Auction - Thurs. 12th July (1st day)

- 2—**OKUMA Model LS Centre Lathes.** S/N 4511-2817, 4803-4336*. Swing over bed 22". Swing over slide 14". Between centres 60". Spindle bore 2 1/2". 12 speeds 35 to 1800 rpm. Feeds & screwcutting. Multifix quick-change toolpost. 12" 3-jaw chuck. 16" faceplate. 3-point steadies.
*Fitted Hepworth Hydraulic Copy Turning Unit.
- 1—**NORDIC Model 15 Gap Bed Centre Lathe.** S/N NA. Swing in gap 20" x 7". Swing over bed 15". Swing over slide 8 1/2". Between centres 42". 16 speeds 50 to 1600 rpm. Feeds & screwcutting. Multifix quick-change toolpost.

DRILLS & TAPPERS

For sale by Auction - Thurs. 12th July (1st day)

- 2—**SCHLUMBERGER Model RF6 Combination Sensitive Radial Drills.** S/N 1101/2 (1975). Throat 900mm. Rise & Fall Table size 1000 x 650mm. Spindle to table max 850mm. Quill 90mm diameter x 330mm travel. Working surface of base 700 x 1170mm. Vertical table size 800 x 800mm. 18 spindle speeds 35 to 1800 rpm. Power feeds.
- 1—**STANKO Model 2M55 Radial Drill.** S/N 2527. Spindle to base 77". Quill 3 1/2" diameter x 12" travel. Working surface of base 40" x 70". Speeds 20 to 2000 rpm. Feeds .056 to 2.5 mm rev. Box table 41" x 33" x 20" deep.
- 1—**POLLARD Model 420 Radial Drill with 72" diameter Index Table.** S/N 27941A. Spindle to table max 40". 7" quill feed. 9 speeds 86 to 1920 rpm.
- 1—**ACIERA Model 22A Layout Drill.** S/N 12991. Table size 14 1/2" x 27 1/2". Longitudinal travel 12". Cross travel 7". Table to spindle max 16". 5" quill feed. Infinitely variable speeds 250 to 4000 rpm.
- 1—**ELECTRISKA Type EB47S Pillar Drill.** Table 14" x 12 1/2". Throat 9 1/2". 8 speeds 190 to 2400 rpm.
- 1—**MEDDINGS Model MB4 Geared Head Bench Drill.** S/N 77039. Capacity 15". Table 13" x 14". 10 speeds 80 to 4000 rpm.
- 1—**MEDDINGS Model MB2-2 Bench Drill.** S/N 28510.
- 8—**BAX Magnetic Drill Stands.**
- 1—**S & L MASKIN Type 30240 Single Head Tapping Machine.** Table size 4' x 4'6". Swivel bracket. Parallel arm gantry with 60" reach. Speeds 240 to 750 rpm.

DISINTEGRATOR

- 1—**ELECTRO-ARC Model 2S Portable Disintegrator.** S/N 201. Capacity 10Kva. With portable magnetic base head.

SAWING MACHINES

For sale by Auction - Thurs. 12th July (1st day)

- 1—**KALTENBACH Model KKS400 Automatic Hydraulic Mitre Cold Circular Sawing Machine.** S/N 53482 (1978). Blade diameter 400mm. Capacity - rounds 130mm diameter, flats 315 x 50mm. 48" auto stock feed. 180° swivel blade. 3 blade speeds 10 to 30 m/min. Conveyor tables.
- 1—**KALTENBACH Model KSV630 Automatic Cold Sawing Machine.** S/N 42559 (1978). Max blade diameter 750mm. Max stock width round, flat or square 320mm. Hydraulic clamping. 1200mm auto stock feed. Infinitely variable blade feeds 0.3 to 20 mm/sec. 8 blade speeds on 630mm dia blade 6 to 26 m/min. Coolant.
- 1—**DO-ALL V36PG Bandsaw.** S/N 181. Throat 36". Depth in throat 12". Tilting main table size 30" x 30". Infinitely variable blade speeds to 1600 ft/min. Blade welder/annealer.
- 1—**EISELE 10" diameter Pull-down Cut-off Saw.** Table size 17" x 7".
- 1—**CURLEY 16" diameter Pull-down Abrasive Disc Cut-off Saw.**

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VERTICAL BORER

For sale by Auction - Thurs. 12th July (1st day)

- 1—**BERTHIEZ Type IR 9320/3 Elevating Rail Vertical Boring and Turning Machine, with Side Head.** S/N 6058. Chuck 1000mm diameter. Max swing 1100mm. Ram travel 1100mm. Elevating rail to table min 250mm, max 1250mm. Horizontal travel of side head 500mm. Chuck rotation speeds 6 to 315 rpm. 16 feeds .008 to .250 in/rev. Screwcutting. 25Kw motor. Separate 2-axis DRO's to ram and side head.



STRIPPIT 'SUPER 30' FABRICATOR



PROMECAM UPSTROKING PRESS BRAKE

SHEET METAL AND PLATEWORKING MACHINERY

For sale by Auction - Thurs. 12th July (1st day)

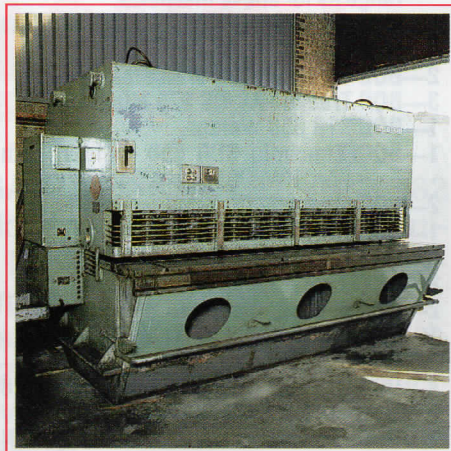
- 1—**STRIPPIT Super 30 Fabricator Hole Punch & Notching Machine.** S/N 703261. With 2-axis DRO. Punch capacity 30 tons. Work capacity 36" x 32". Overall table size 72" x 45". Throat 34". 1 1/4" & 3 1/2" toolholder body assemblies. Extensive range of punches & strippers.
- 1—**PROMECAM Model RG50 Upstroking Hydraulic Press Brake.** S/N 1146. Capacity 50 tons. Bed length 2000mm. Between frames 1500mm. Throat 380mm. Extensive range of swan-neck tooling.
- 1—**AMADA Model CSW220 Combination Corner & Edge Notcher.** S/N 564025 (1979). Capacity 3.2mm (1/8"). Corner notch length 8 3/4", table size 42" x 32". Edge notch size 4" deep x 2 3/4" wide, table size 17" x 32". Pedal control.
- 1—**ECKOLD 'Kraftformer' Sheet Metal Stretching & Shrinking Machine.** Throat 14 1/2".
- 1—**BACHOFEN & MEIER Type NA1000 Nibbling Shear.** S/N 237. Capacity 6mm (1/4"). Throat 1000mm. Circle cutting attachment.
- 1—**OLIVER 6ft Box & Pan Folder.** S/N 6BB/100/OS. Capacity 14g.
- 1—**Power Swaging Machine.** 15" throat. Guide rolls.
- 1—**KEETONA 48" Hand Rolls.** 3" roll diameter.
- 1—**40" Hand Rolls.** 2 1/2" roll diameter.
- 1—**Hand-operated Beading Machine.**
- 1—**VERSION Model 400 HD2 14PB Hydraulic Downstroking Press Brake.** S/N 9727. Capacity 400 tons. Bed size 24" x 18ft. Stroke 24". Shut height 10". Distance between frames 10ft. Light guards. With NEW, un-commissioned 'Lucas Hi-Power' hydraulic power pack.
- 1—**BRONX Type PBA36 Initial Rolls.** S/N 22159. Capacity 6ft x 1/4". Top roll 8" diameter. Drop-out end.
- 1—**FINLAY V120 Open Front Hydraulic Press.** S/N 764. Capacity 120 tons. Bed size 48" x 48". Daylight 21 1/2". Throat 28". Pedal control.
- 1—**CORPET LOUVET Type CC 10'5" x 3/4" Hydraulic Beveling Shear.** S/N 839632. Straight cut and beveling blades. Hydraulic hold-down. Pedal control.



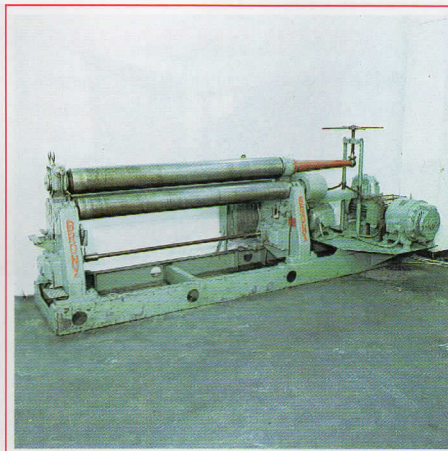
AMADA CORNER & EDGE NOTCHER



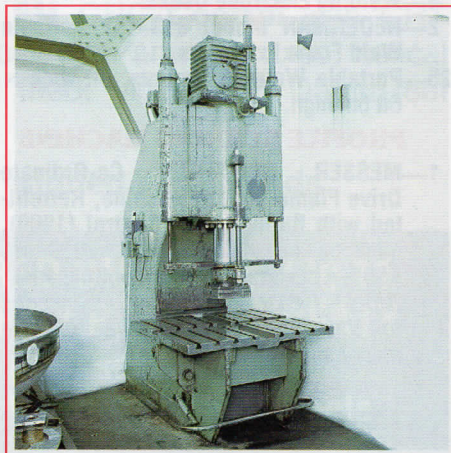
OLIVER 6ft BOX & PAN FOLDER



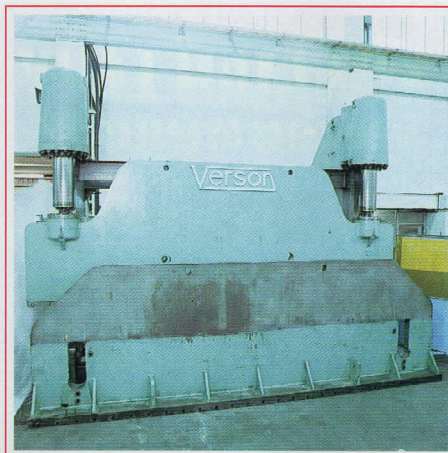
CORPET LOUVET HYD BEVELLING SHEAR



BRONX PBA36 INITIAL ROLLS



FINLAY V120 HYDRAULIC PRESS



VERSION 400 ton PRESS BRAKE

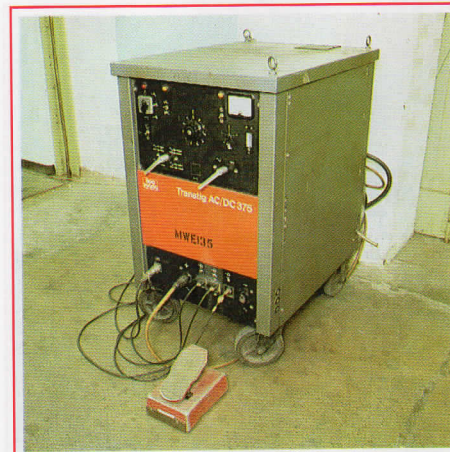
* See also WELDING EQUIPMENT (Page 6)



BODE TILTING WELDING POSITIONER



MILLER 500 WELDING POWER SOURCE



BOC TRANSTIG AC/DC 375 MIG WELDER

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WELDING MACHINES & EQUIPMENT

For sale by Auction – Thurs. 12th July (1st day)

WELDING MANIPULATORS & ROTATOR

- 1—BODE 1/VP3 Tilting Table Welding Positioner. S/N M29240 (1985). Table diameter 60". Height in horizontal position 49". Infinitely variable rotation speed.
- 2—BODE 20/HV Power Welding Positioners. Table 36" diameter. Universal swivel.
- 2—1½ton capacity Power Rotators. 10" wheel diameter × 3" wide.
- 2—ACCESS EQUIPMENT Type AAP Elevating Work Platforms. S/N 80 AAP 3382. SWL 200Kg. Platform size 3ft × 7ft. Closed height 4ft. Open height 6'6".

WELDING MACHINES

- 4—MILLER Synchrowave 500 AC/DC Gas Tungsten Arc Welding Power Sources. Output range 30 to 500 amps. AC & DC voltage range – low 5 to 75v, high 15 to 375v.
- 1—MILLER Synchrowave 500(S) AC/DC Gas Tungsten Arc Welding Power Source. Details similar to above machines.
- 4—MILLER Synchrowave 300 AC/DC Gas Tungsten Arc Welding Power Sources. Output range 15 to 300 amps. Voltage range as for above machines.
- 2—MILLER 320A/BPLA AC/DC Inert Gas Welders.
- 2—BOC Transmig 600 Welders.
- 3—BOC Transtig AC/DC 375 Mig Welders.
- 1—BOC STR 650 Welder.
- 1—BOC Transmig SPR 500 Welder, with Sabre Arc PW200 Plasma Set.
- 2—BOC MNR 400 DC Welding Rectifiers.
- 1—QUASARC ACP300 Welder.
- 1—QUASARC ACP450 Welder.
- 2—BUTTERS NBC400 Mig Welders.
- 2—AGA 200 Mig Welders.
- 1—LINCOLN SA200 Arc Welder.
- 1—ESAB 400amp Arc Welder.
- 4—UCAR SE400 CC/DC Welders. 36 to 78 volts. 400 amps.
- 1—CROMPARC TC-12 Stud Welder. S/N 2571. 45Kva.
- 4—Welding Electrode Ovens.
- 2—NEDERMAN Model 613-162 Portable Weld Fume Extractors.
- 25—Portable Welding Screens. 6ft wide × 6ft 6in high.

PROFILE BURNING MACHINE

- 1—MESSER GRIESHEIM Co-Ordinate Drive Flame Cutting Machine, Retrofitted with Burny 3 CNC Control (1990). Machine capacity 2600 × 2000mm. K507-A co-ordinate drive control panel. (Note – Please check with Auctioneer as to the time of availability of this machine).

PLASMA CUTTING

- 2—BOC Sabre Arc PC120 Plasma Cutting Sets.

PRODUCT FINISHING

For sale by Auction – Thurs. 12th July (1st day)

PAINTING EQUIPMENT

- 1—DRY-BACK SECTIONAL SPRAY BOOTH. Size 10ft wide × 10ft deep × 8ft high. Associated spray guns and filters.
- 1—FYNA Double Door Gas-fired Hot Air Drying Oven. Size 6ft wide × 6ft deep × 4ft 6in high. Temperature range 100 to 270°C.
- 1—HOLMES 'Speedy Agitator' Paint Shaker. S/N 2662. Max can height 10½".

DEGREASING

- 2—ICI Gas-fired Degreasers. Size 30" × 50" × 54" deep and 12" × 24" × 24" deep.

BEAD & SHOTBLAST UNITS

- 1—VACU BLAST Beadblaster. S/N VAB63 (1986). Cabinet size 20" × 24" × 15" deep.
- 1—METCO Shotblast Cabinet. Size 4'6" × 3' × 3'. S/N 43867.

POLISHING & FETTLING

- 1—CANNING Type 2577 Double End Independent Motor Polishing Spindles. S/N A4247. 3HP motors.
- 2—VANCO 1" Vertical Linishers. Table size 8½" × 9".
- 1—ACE Major 7" × 24" Bandfacer Linisher.
- 7—MORRISFLEX Flex Shaft Grinders.
- 2—PLYMOUTH 3Kw Portable Dust Collectors.

COMPRESSED AIR EQUIPMENT

For sale by Auction – Thurs. 12th July (1st day)

- 1—COMPAIR BROOMWADE Model 6000, Type 6004, Screw-type Packaged Air Compressor. S/N F078-2388 (1985). Capacity 166 cfm @ 7 bar. 30 Kw (40HP) motor.
- 1—BINKS BULLOWS 30" diameter × 6'6" Welded Air Receiver.
- 1—COMPAIR 20" diameter × 5ft Welded Air Receiver.

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**FOR
SALE BY
PRIVATE TREATY**

1988



7m CNC ELGAMILL

with Siemens Sinumerik Sprint 8m Control

1—BUTLER NEWALL CNC ELGAMILL Model LE. S/N 28282 (1988). Capacity: X 7000mm (longitudinal), Y 2800mm (vertical), Z 1050mm (transverse). Min distance spindle to floorplate 1090mm. T-slotted floorplate size 2000 × 10,880 × 370mm deep. Spindle speeds in two ranges 16 to 177 to 1600 rpm. Feed range 5 to 2500 mm/min. Rapid 5m/min. Main spindle 50 Int taper. Universal heavy duty 50 Int taper right angle head with power drawbar.

SIEMENS Sinumerik Sprint 8M CNC Control with CRT display, circular interpolation between any two axes, helical interpolation with incremental feed. Model 256 Datum set unit. 38Kw spindle motor.

5—1 × 1 × 1m cube Cast Iron 'T'-slotted Workstands.

**THE MACHINES FEATURED ON PAGES 7 to 11
ARE OFFERED FOR SALE BY PRIVATE TREATY**

All subject to prior sale.

Contact the Auctioneer for Viewing arrangements.

IMPORTANT NOTICE

Although information has been obtained from sources deemed reliable, the Auctioneer makes no warranty or guarantee, expressed or implied, as to the accuracy of the information herein contained.

It is for this reason that buyers should avail themselves of the opportunity to make inspection prior to sale.

**ALL MACHINES LOCATED
AT MORFAX LIMITED
MITCHAM, SURREY, ENGLAND**

(Southern London Suburb — with quick access to Heathrow & Gatwick Airports)

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Fax: (313)-353-1442

Auctioneers/Valuers

G&L 80DP130 5" HORIZONTAL BORER – with MEMORY

1—GIDDINGS & LEWIS – FRASER Model 80DP130 Table-type Horizontal Boring and Milling Machine. S/N 150 1476 (1978). Spindle bar 130mm dia. (5.1") × 1000mm (39") travel. Longitudinal travel of table 2500mm (98.5"). Cross 3000mm (120"). Vertical travel of head 2500mm (98.5"). Table size 1524 × 3708mm (60" × 146"). 34 spindle speeds 7.5 to 975 rpm. Spindle bar feeds .05 to 6 mm/rev. Milling feeds 1.1 to 3360 mm/min. Power tool lock. Pendant control. CRT display. Metric scales.

Retrofitted 1989 with G & L Model NS6 point-to-point Programmable Control with Memory.

G & L EQUIPMENT

- 1—G & L 32" reach Right Angle Milling Head, 24" spindle support bush.
- 1—G & L 5ft × 8ft Airlift Rotary Table. S/N 040472 (1978). Overall height 16 1/4".
- 2—G & L Box Plates. (1) 6ft high × 3ft wide × 45" deep. (1) 4ft high × 2ft wide × 36" deep.
- 7—G & L Cubes. (4) 24" × 12" × 15". (3) 15" × 9" × 12".



SIP HYDROPTIC 7P HIGH COLUMN JIG BORER

- 1—SIP HYDROPTIC 7P High Column Jig Borer. S/N 146 (Rebuilt by Sogenique 1978). Working surface of table 40" × 62". Longitudinal travel 58". Distance between columns 63". Table top to cross rail max 56". Cross rail elevation 32". Table to spindle max 51". Quill travel 12". Cross travel of spindle head 41". 18 spindle speeds 40 to 2000 rpm. Table feeds to 12 in/min. Right angle head attachment. 'L'-Bar set.

SIP ROTARY TABLES

- 1—SIP PD-6H Rotoptic Optical Rotary Table. S/N 460. Table diameter 800mm.
- 1—SIP PI-5 Tilting Rotary Table. S/N 1231. Table diameter 17 3/4". Height (horiz position) 15 5/8".

See also
**DIXI 75 OME & MITSUI SEIKI 3A
JIG BORERS**

To be sold at Auction – Thurs 12th July
(Details on Page 3)

Contact the Auctioneer
for Viewing arrangements

**NORMAN LEVY
ASSOCIATES OVERSEAS INC.**

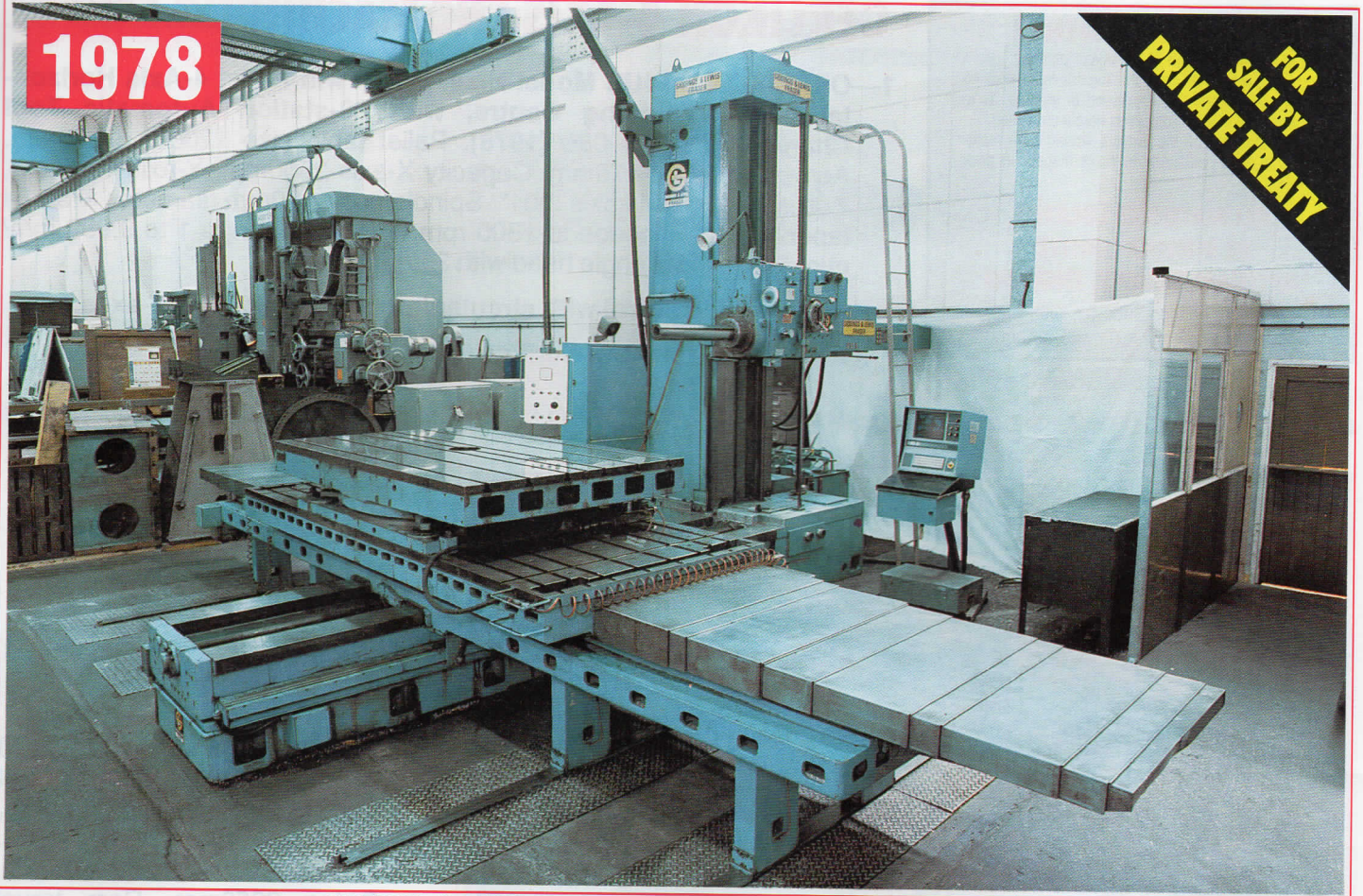
Station Tower · Station Square
Coventry CV1 2GR · England
Tel: 0203-632277 · Telex: 312297
Fax: 0203-632226
Auctioneers/Valuers

TWIN SPINDLE VERTICAL COPY MILL

- 1—STARRAG LA RIGIDE Model KE 275 Twin-spindle Vertical Copy Milling Machine. S/N 6925 (1980). Overall table size 1200 × 4000mm. Copying stroke longitudinal 2500mm, transverse 1000mm, vertical 900mm. Copying feeds for 360° profiling and line-by-line copying 15 to 800 mm/min. Linear vertical feed 2 to 750 mm/min. 16 spindle speeds 23 to 1800 rpm. 20HP spindle motor. Spindle nose 50 ISO. Quill adj to each spindle sleeve 100mm. Distance between spindles 1300mm. Extension unit to LH spindle to increase distance to 1600mm. Accessories include two 3-spindle milling heads with spindles on 300mm centres, depth of heads 395mm. Type UT3 Copying System capable of line-by-line, profile and pencil copying. Extensive range of styli and dedicated tooling.

1978

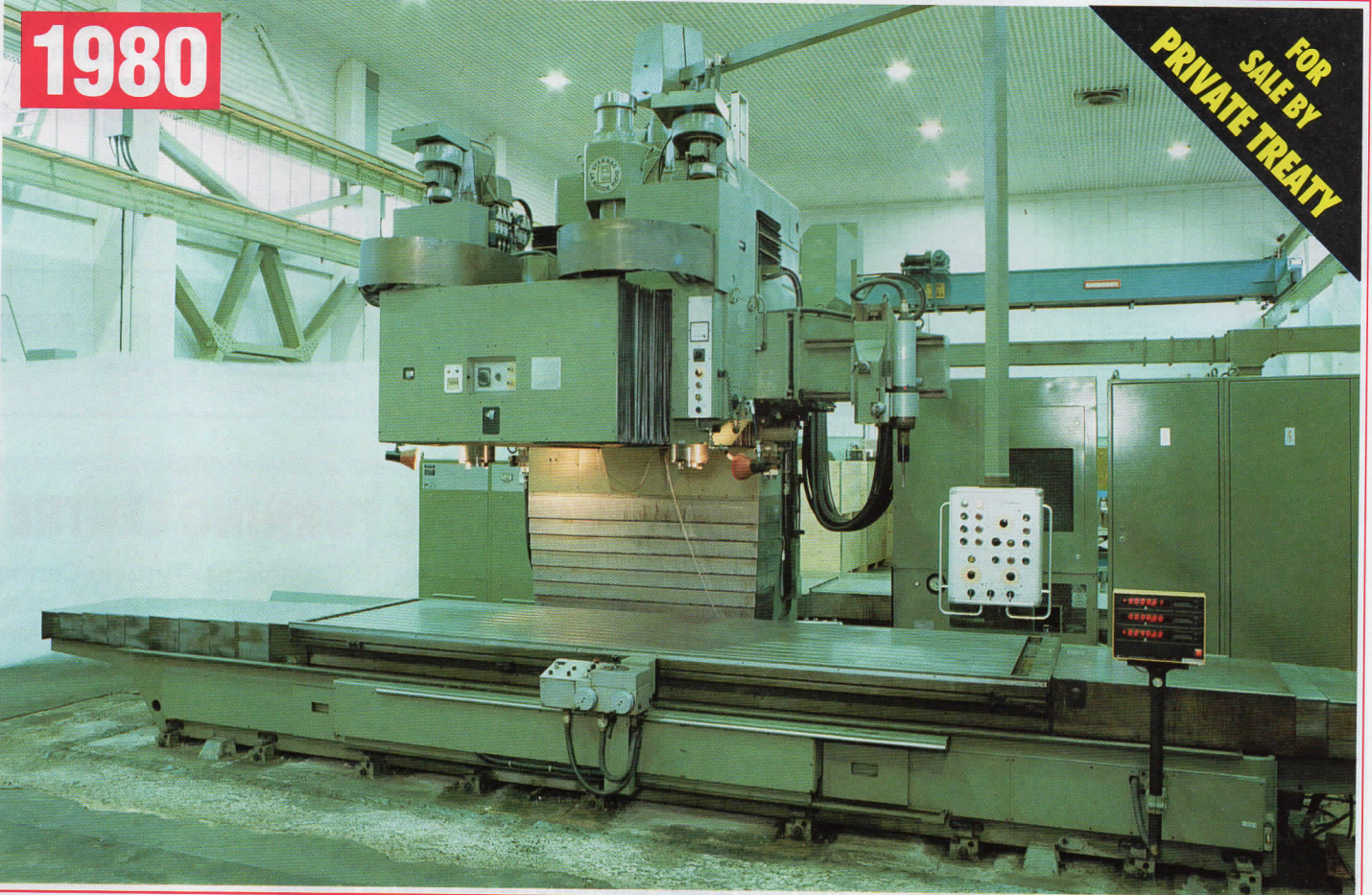
**FOR
SALE BY
PRIVATE TREATY**



GIDDINGS & LEWIS-FRASER MODEL 80DP130 HORIZONTAL BORER

1980

**FOR
SALE BY
PRIVATE TREATY**



STARRAG LA RIGIDE MODEL KE275 TWIN SPINDLE VERTICAL COPY MILL

IMPORTANT NOTICE

Although information has been obtained from sources deemed reliable, the Auctioneer makes no warranty or guarantee, expressed or implied, as to the accuracy of the information herein contained. It is for this reason that buyers should avail themselves of the opportunity to make inspection prior to sale.

**ALL MACHINES LOCATED
AT MORFAX LIMITED
MITCHAM, SURREY, ENGLAND**

(Southern London Suburb – with quick access to Heathrow & Gatwick Airports)

OERLIKON 4-AXIS CNC MACHINING CENTRE

1—OERLIKON SIRIUS Model HM4—MCP Twin Pallet 4-Axis Horizontal CNC Machining Centre, with 60-station Automatic Tool Change. S/N 275—085 (1978). Pallet table size 1200 × 1200mm. Across corners 1470mm. Capacity X-axis 2500mm, Y-axis 1600mm, Z-axis 1200mm, B-axis .001°. Spindle nose 130mm diameter × 50 Int taper. Spindle speeds to 1800 rpm. Feed rate range 1 to 9,999 mm/min. Swivel right angle head with 350mm reach.

Sirius CNC Control with circular interpolation on X & Y axes.

A wide range of 50 Int Oerlikon flange toolholders.



DORRIES CTE 180 ELEVATING RAIL CNC VERTICAL BORER

1—DORRIES Model CTE 180 CNC Elevating Rail Vertical Boring and Turning Machine, with 16-station ATC (1978). Chuck diameter 1800mm. Swing 2050mm. Ram travel 1000mm. Elevating rail to table min 600mm, max 1240mm. Ram section 198 × 198mm. Infinitely variable chuck rotation speeds 4 to 210 rpm. Feeds & screwcutting.

**Siemens Sinumerik 520C
CNC Control.**

See also
BERTHIEZ IR 9320/3 VERTICAL BORER

To be sold at Auction – Thurs 12th July
(Details on Page 5)

Contact the Auctioneer
for Viewing arrangements

**NORMAN LEVY
ASSOCIATES OVERSEAS INC.**

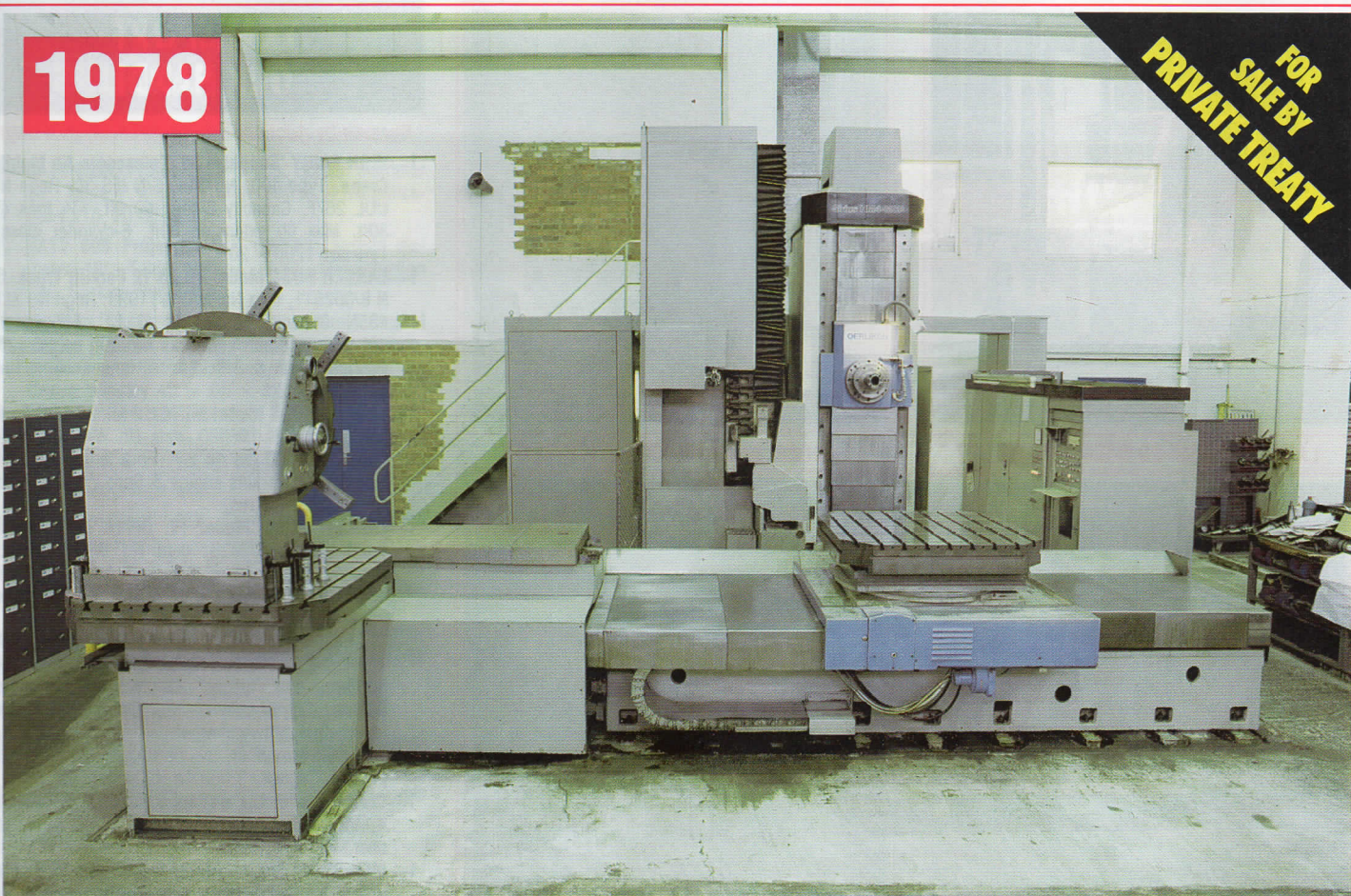
Station Tower · Station Square
Coventry CV1 2GR · England
Tel: 0203-632277 · Telex: 312297
Fax: 0203-632226
Auctioneers/Valuers

VDF BOEHRINGER CNC TURNING CENTRE

1—VDF BOEHRINGER Model PNE 710L CNC Universal Turning Centre. S/N 1112—8066—12 (1980). With VDF BIT Control with CRT Display. Swing over bed 710mm (28"). Swing over carriage 490mm (19 1/4"). Max turning diameter 450mm (17 3/4"). Distance between centres 2350mm (92.5"). Spindle bore 103mm (4"). Tailstock quill 125mm diameter × 200mm stroke, with hydraulic action and pedal control. VDF drum-type tool turret with 6 external turning tools with shank section 32 × 25mm; and 6 internal boring bars with 60mm diameter shank. Infinitely variable spindle speeds 11 to 2800 rpm. 50Kw spindle drive motor. Feed range 0.1 to 6000mm/min. Forkardt Model 3KTNC 400mm 3-jaw hollow centre hydraulic chuck. Extensive range of turret tooling.

1978

**FOR
SALE BY
PRIVATE TREATY**



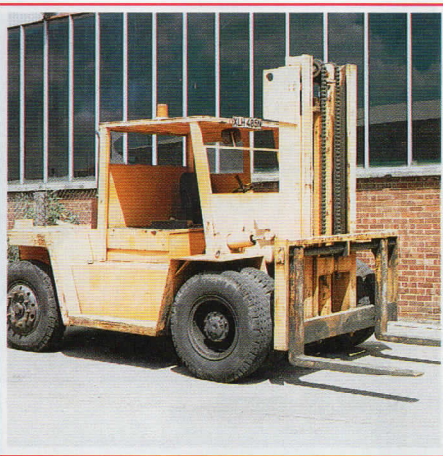
OERLIKON SIRIUS MODEL HM4-MCP 4-AXIS CNC HORIZONTAL MACHINING CENTRE

1980

**FOR
SALE BY
PRIVATE TREATY**



VDF BOEHRINGER TYPE PNE 710L CNC UNIVERSAL TURNING CENTRE



LANCER BOSS 23,000lbs FORKLIFT



LANCER BOSS 5,000lbs FORKLIFT



CARRUTHERS MONOBOX 25 tonne & 7½ tonne ELECTRIC OVERHEAD CRANES



IRON FAIRY 'Sapphire 30' TELESCOPIC JIB MOBILE CRANE

TRANSPORT & WORK HANDLING

For sale by Auction – Thurs. 12th July (1st day)

- 1—**IRON FAIRY 'Sapphire 30' Telescopic Jib Mobile Crane.** Type 400, No 348. S/N IFS 30. Regn No UUL 267F. Capacity 6 tons @ 9ft, 1½ tons @ 30ft. Max jib extension 30ft. 6-cylinder diesel. Tyre size 1200 × 20.
- 1—**LANCER BOSS Model BD 23/12 Forklift Truck.** S/N B/002611, data No W/O B/11999. Regn No XLH 485N. Capacity 23,000 lbs @ 24". Fork length 48". Distance between forks 84". Lift height 12ft. Perkins diesel & Brockhouse transmission. Tyre size 1000 × 20.
- 1—**LANCER BOSS Model ML7G/12 Mk 3C LPG Forklift Truck.** S/N 706590, data No W/O M/28469. Capacity 7,000 lbs @ 24". Fork length 48". Lift height 12ft. Perkins engine & Borg Warner transmission. Solid tyres.
- 1—**LANCER BOSS Model PL SP/12 LPG Forklift Truck.** S/N P702339, data No W/O P/19545. Capacity 5,000 lbs @ 24". Fork length 48". Lift height 12ft. Perkins engine & Borg Warner transmission. Solid cushion tyres.
- 1—**CLARK Model TM12S Battery Forklift.** S/N TM 145-0668 GEF 7000 (1988). Capacity 1250Kg @ 500mm. Lift height 3300mm. Fork length 900mm. Solid cushion tyres. Safety cage. Chloride traction battery charger.
- 1—**WESSEX Model FE 30-24 Battery Forklift.** S/N W5774. Capacity 3,000 lbs. Lift height 9ft.
- 1—**CLARK Model 40P Battery Pallet Truck.** Capacity 4,400 lbs. Fork length 40". Legg VC 85/95 battery charger.
- 1—**MEL-BOOM Model Sas-a, forklift attached, Elevating Work Platform.** S/N 25/180/001398. Jib length 10ft.
- 1—**POWER LIFT 700V Engine Crane.** S/N 108009. Capacity 750Kg.
- 1—**NEWTON ½-ton Die Lift Truck.** Table size 30" × 30".

CRANES & CRANE SCALES

- 1—**CARRUTHERS MONOBOX 25-tonne EOT Crane, with 5-tonne Auxiliary.** (1981). Span 71ft 6in. Lift height 30ft.
 - 1—**CARRUTHERS MONOBOX 25-tonne EOT Crane** (No auxiliary). Other details as for above unit.
 - 2—**CARRUTHERS MONOBOX 7.5-tonne EOT Cranes.** (1981). Spans 68ft & 23ft. Lift height 22ft.
 - 2—**STREET 7.5-tonne Underslung EOT Cranes.** (1981). Span 36ft. Runway centres 27ft. Lift height 15ft.
- FELCO 3-ton Electric Chain Hoists.**
ELEPHANT 2-ton Electric Chain Hoists.
SALTER 5-ton & 10-ton Crane Scales.
SALTER 1000Kg Crane Scale, Model 199.

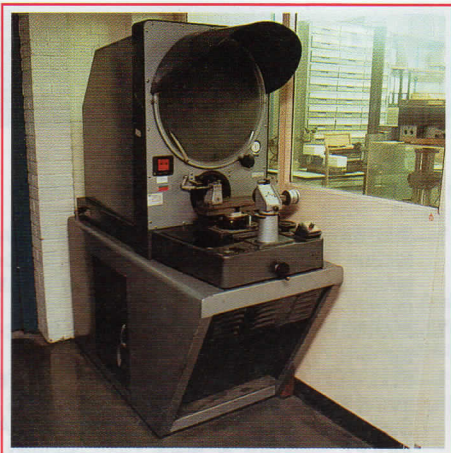


CLARK 1250Kg FORKLIFT

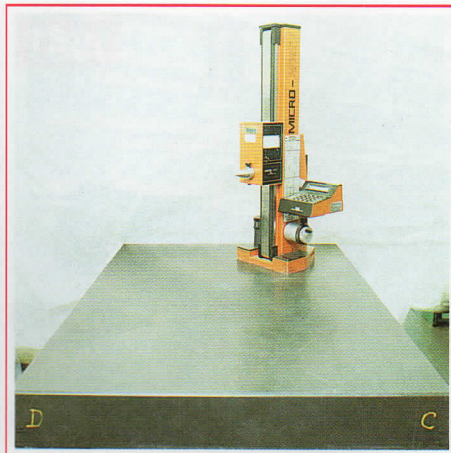
INSPECTION EQUIPMENT

For sale by Auction – Fri. 13th July (2nd day)

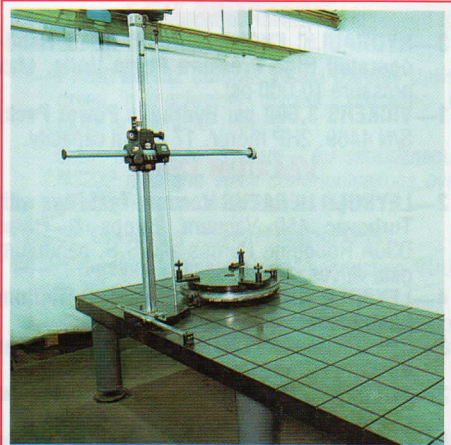
- 1—**BATY R20C Projector.** S/N 135. Screen diameter 20". Table 4" × 16". 3" high centres. 4 magnifications X10, 20, 25 & 50.
 - 1—**BATY 600 Projector.** S/N 600582. Screen diameter 13". Table 4½" × 12½". Magnification X10. Surface illumination.
 - 1—**LK Mini Check 38" Single Co-ordinate Digital Height Gauge, with 2 co-ordinate micro-processor.** S/N 449. Stroke 20". Mounted on Crown Windley 4ft × 6ft × 8" thick granite surface table, S/N 6244, Grade 2.
 - 1—**TESA Micro-hite I Digital Height Gauge.** Capacity 600mm. S/N 7E0016701. Mounted on 3ft × 4ft × 5" thick granite table.
 - 1—**CEJ Cordimet 700 Co-ordinate Measuring Machine.** Granite table size 550 × 880mm. Z-axis 350mm. Computer automation programmable control. Cifer 2632 CRT display & keyboard. Printer. Renishaw PH1 probe.
- Accessories (to be sold separately) include:**
ISOMA X15 Centering Microscope & ISOMA ZP72 Small Screen Projector.
- 1—**TESA 'Tesatronic' 6" Electronic Comparator.**
 - 1—**SIGMA Model 201-15 Comparator to 22" capacity.**
 - 1—**VICKERS Hardness Tester.** S/N 250617. Table size 8" × 18".
 - 1—**AVERY 1412 Hardness Tester.** S/N 404.
 - 1—**WILSON PC-JR Hardness Tester.** S/N 170.
- GRANITE TABLES & PLATES** to 4ft × 5ft × 8" deep.
- Bench Magnifiers. Electro-etch T25 Etcher.**
- 1—**SIGMA O – 4" Screw Thread Diameter Measuring Machine.** 11" between centres.
 - 1—**HILGER & WATTS No 2 Microptic Theodolite.** Type ST200. S/N 116603. With tripod.
 - 1—**HILGER & WATTS Dumpy Level.**
 - 1—**TAYLOR HOBSON Micro Alignment Telescope.** With right angle heads and targets.
- TESA Bore Micrometers to 4". Micrometer Height Gauges** to 300mm. Caliper, depth, inside, pin, flange & plate micrometers. Gear Tooth Verniers. Vernier Calipers to 72". Height Gauges & Depth Gauges. Sine Bars. Standard & Compound Sine Tables. Protractors. Levels. Thermometers. Hygrometer. Mercer Clearline 2 Dial Air Gauges. Dial Snap Gauges. Indicators. Bore Gauges. Caliper Gauges and Depth Gauges.
- Engineers' Squares. Straight Edges. Parallels and Cylinder Squares. Carbide & Steel Slip Gauges. Slip Gauge Clamps.
- Torque Wrenches and Torque Test Meters. π (Pi) Tapes. Radius and Chamfer Gauges. Centres to 36" dia × 64" between.



BATY R20C PROJECTOR



TESA MICRO-HITE GAUGE



PORTAGE 48A LAYOUT MACHINE



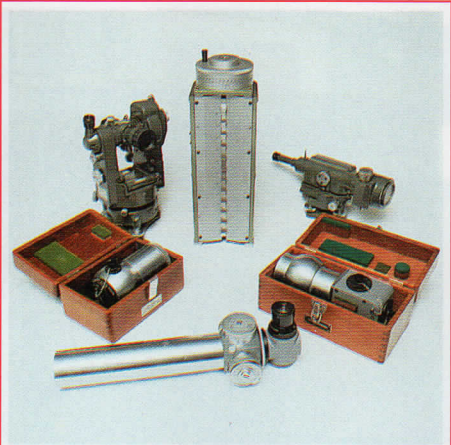
TESA ELECTRONIC COMPARATOR



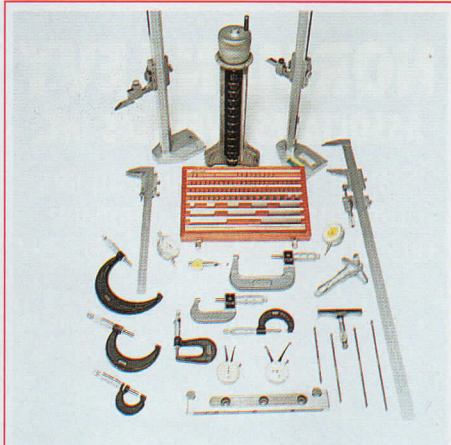
ISOMA ZP32 SMALL SCREEN PROJECTOR



CEJ CO-ORDINATE MEASURING MACHINE



THEODOLITE, DUMPY LEVEL, TELESCOPE



SAMPLE OF OTHER INSPECTION ITEMS

LAYOUT MACHINES

For sale by Auction – Fri. 13th July (2nd day)

- 1—**PORTAGE Model 72A Layout Machine.** S/N 670251. Vertical 74". Transverse 25".
- 1—**PORTAGE Model 48A Layout Machine.** S/N 4701417. 5ft × 13ft table. Vertical 48". Transverse 20".
- 1—**PORTAGE Model 36A Layout Machine.** S/N 36645. With 2-axis DRO & 50" × 70" table. Vertical 1000mm. Transverse 15".
- 2—**PDQ 30" diameter Rotary Index Tables.**



LEYBOLD HERAEUS VACUUM TEST RIG



LEYBOLD HERAEUS HELIUM LEAK TESTER



PANTAK HF160 PORTABLE X-RAY UNIT

NORMAN LEVY ASSOCIATES OVERSEAS INC.

Station Tower · Station Square
Coventry CV1 2GR · England
Tel: 0203-632277 · Telex: 312297
Fax: 0203-632226

and at 21415 Civic Center Drive, Southfield
Michigan 48076, USA. Tel: (313)-353-8640
Fax: (313)-353-1442

Auctioneers/Valuers

CRACK DETECTION PRESSURE & VACUUM TEST · X-RAY

For sale by Auction — Thurs. 12th July (1st day)

CRACK DETECTION

- 1—**MAGNAFLUX Model TAEH 1005 Crack Detection Machine.** S/N 8208064 (1982). Distance between head & tailstock 100". Max current 4Ka. Uv Lamp. Controls.
- 1—**MAGNAFLUX 'Compactflux' Crack Detector.** S/N 1036.
- 1—**FELL-ELECTRIC De-magnetiser.** Aperture size 18" × 12". Dye penetrant dip tanks. Swirl tanks. Powder spray booth. ULTRA VIOLET Standard & Black Light Sources. UV Radiometer.

PRESSURE TEST

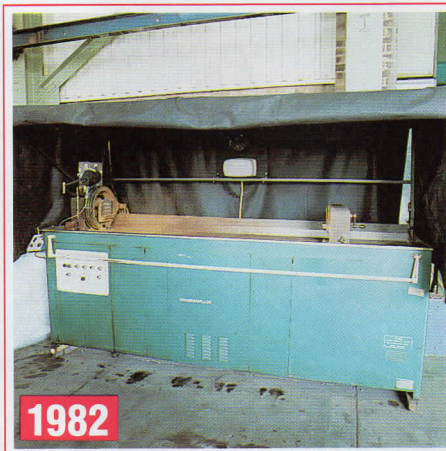
- 3—**HYDRAULIC ENGINEERING/TANGYE Hand-operated High Pressure Pump Units.** Max pressure 10,000 psi.
- 1—**VICKERS 3,000 psi Hydraulic Power Pack.** S/N 4469. 2HP motor. 17 gallon capacity.

VACUUM TEST

- 2—**LEYBOLD HERAEUS Vacuum Test Rigs** with Turbovac 450 Vacuum Pumps & Trivac D30A Roughing Pumps and S.S. pendulum gate valves (1981).
- 4—**LEYBOLD HERAEUS Ultratest F Helium Leak Testers** (1981/83).
- 2—**BULZER Model TSU 510 Turbo Molecular Vacuum Pumps** (1980).
- 2—**AUTOVAC Ultra High Vacuum Valves** (1983).
- 6—**EUROTHERM Type 812 Programmable Controllers.**
- 2—**SX 200 VG Gas Analysers.** Pirani Vacuum Gauges. Flexible Pipes & Fittings. Couplings. Flanges. Gaskets & Clamps.

X-RAY EQUIPMENT

- 1—**PANTAK Model HF160 X-Ray Unit.** S/N 161 (1987). Capacity mA 20. With Comet MXR180 tubular head & remote control panel.
- 1—**PANTAK Model 250 Portable X-Ray Unit.** KV 250. mA 15. Remote control.
- 1—**ANDREX 300 Portable X-Ray Unit.** Model CMA 306. S/N 44277. KV 300. mA 6.
- 1—**LEAD X-Ray Chamber,** size 24ft long × 15ft wide × 9ft 6in high. Double doors each end. Portable lead screens.
- 1—**AGFA GEVAERT Pako Type GC Auto Processor.** S/N 058407-OF.
- 2—**Viewing Screens.** 1—Radiation Monitor.



MAGNAFLUX CRACK DETECTOR

MISCELLANEOUS

For sale by Auction — Thurs. 12th July (1st day)

- 1—**ALEXANDER Model 3A Universal Pantograph Diesinking Machine.** S/N NA. Max height worktable top to spindle 14³/₁₆". Copy table top to stylus 7³/₈". Size of worktable 8" × 14". Cross travel 6". Longitudinal travel 16". Vertical travel 14¹³/₁₆". Size of copy table 12⁵/₈" × 17³/₄". Vert adj of copy table 7³/₈". Pantograph ratio 1.5:1 to 10:1. 14 spindle speeds 475 to 9000 rpm. Collet capacity ³/₈".
- 1—**PILOT Type 5 20-ton Hydraulic Press.** S/N 570802. Table size 15" × 12". Daylight 18". Throat 9".
- 1—**LAYCOCK Model 1551, 60-ton Hand-operated Double Column Hydraulic Garage Press.** S/N 2148. Between columns 29". Max daylight 40". Shaft straightening attachment & ratchet arbor press.
- NORTON 4S, 6 and HORN Flypresses.**
- 1—**DAWE 40 KHz Soni-clean Generator.** Type 8404 A36.
- 1—**DAWE Ultrasonic Cleaning Tank.** Type 6900-1519. Size 48" diameter × 36" deep.
- 1—**COOPERHEAT 800°C 'Top Hat' Electric Oven.** Size 36" × 36" × 24" deep.
- 1—**FRANK Impact HW606 DMI-4 Steam Cleaner.**
- 1—**CLARK 1HP Pressure Washer.**
- 1—**ELGA Water Purification Unit.**
- 1—**LACY HULBERT 2-Cylinder 2HP Vacuum.** 2HP motor. Tank size 24" diameter × 48". Anvil & Stand. Bar Straightening Press.
- 1—**JIGAMAC Drilling Machine Jig Boring Kit.**
- VERSATOOL & NU-ERA Tool Cabinets & Benches.**

2-DAY PUBLIC AUCTION

By order of the Board of Directors, Surplus Manufacturing
Plant no longer required in the continuing business of

MORFAX LIMITED

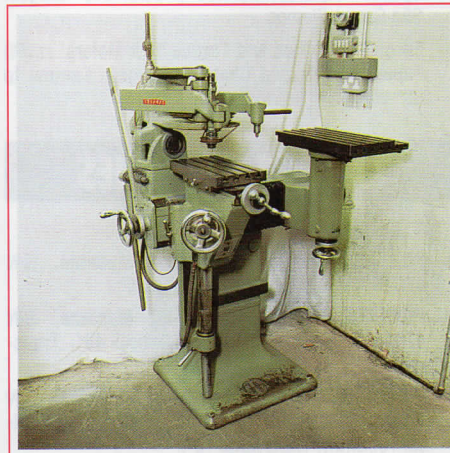
WILLOW LANE · MITCHAM · SURREY · ENGLAND

commencing at 10.30am each day on

Thurs & Fri 12th & 13th JULY

VIEWING: Tuesday 10th & Wednesday 11th July — from 9am to 4.30pm, and on mornings of sale

**NO BUYER'S PREMIUM
CHARGED AT THIS SALE**



ALEXANDER 3A PANTOGRAPH DIESINKER

CAST IRON PLATES & TABLES

For sale by Auction – Thurs. 12th July (1st day)

- 4—**NOBLE & LUND 15ft × 7ft 6in × 15in deep Cast Iron Surface Plates.** Maximum combined size 30ft × 15ft.
- 6—**Cast Iron T-slotted Plates.** 7ft × 9ft × 6in deep.
- 1—**Cast Iron T-slotted Table.** 13ft × 27ft 6in × 14in deep.
- 12—**Cast Iron Tables.** Sizes 6ft × 4ft (5), 5ft × 3ft (2), 4ft × 3ft (4), 2ft × 2ft (1).

PLATES AND CUBES

For sale by Auction – Thurs. 12th July (1st day)

Swivel Angle Plates to 32" × 30". Angle Plates to 30" × 40" and 68" × 27". Tilting Tables to 22" × 30". Cast Iron Cubes to 24" × 15" × 18½".

MACHINE ACCESSORIES

For sale by Auction – Thurs. 12th July (1st day)

- 1—**KENDALL & GENT 72" dia Power Rotary Table.** Height 14½". Speeds .42 to 4in. feed on 43" diameter.
- 3—**40" diameter Power Rotary Tables.**

Machine Vices. Dividing Heads. Dividing Chucks.

CONSUMABLE TOOLING

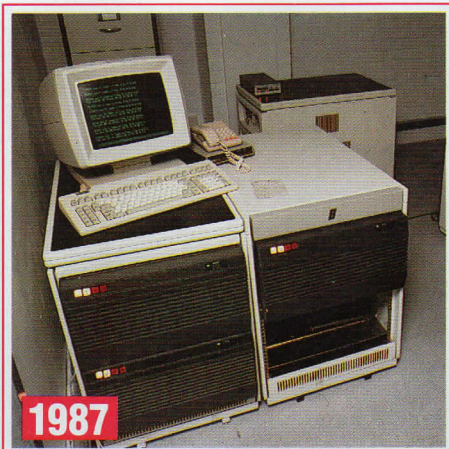
For sale by Auction – Thurs. 12th July (1st day)

Extensive range of double flange 50 Int tooling to 'Cat' standard. C.O. 50 Int modular toolholders, adaptors and boring heads. Floating toolholders. Milling chucks. Wohlhaupter boring heads. Drill chucks & adaptors. Turning toolholders. Consumable tooling including drills, taps, adjustable & solid reamers, side and face cutters, spotface and countersink cutters. Large quantities of carbide inserts. Grinding wheels etc.

OFFICE FURNITURE

For sale by Auction – Fri. 13th July (2nd day)

- (40) **Double Pedestal Wooden Desks.** (6) **Conference Tables.** Typists, Swivel & Arm Chairs. 2-, 3- & 4-drawer Filing Cabinets. (14) **Interlocking Acoustic Screens.** Coat Stands.
- 1—**NESTLER FLORETT-R Draughting Machine** and **ASTER NEOLT Stand.**



PRIME COMPUTER

COMPUTER SYSTEM & ASSOCIATED EQUIPMENT

For sale by Auction – Fri. 13th July (2nd day)

PRIME 64-User Computer System, consisting of Computer, Disk/Tape Storage, VDUs, Printers and Communications. (New March 1987)

Components include:

- 1—**PRIME P2655 Processor,** with 8Mb of main memory utilising the PRIMOS operating system. With controller cards for communication, disk drives, tape drive & line printer.
 - 3—**WINCHESTER 315Mb Hard Disk Drives,** with controller cards.
 - 1—**1600 bpi ½" Tape Sub-System,** with auto-loading.
 - 1—**ICS2 Communication Interface,** equipped for 64 RS232 ports (lines).
 - 3—**PT200 80/132 Column Visual Display Units,** green monochrome display, operating in block or character modes.
- Case 'Grapevine' System – for simultaneous RS232 data and voice communications over existing internal telephone wiring.*
- 2—**30 'Grapevine' Channel Master Units.**
 - 50—**'Grapevine' Access Units,** connecting VDUs to Telephone.
 - 3—**8-channel Statistical Multiplexers,** allowing upto 8 VDUs to be connected via one telephone point.

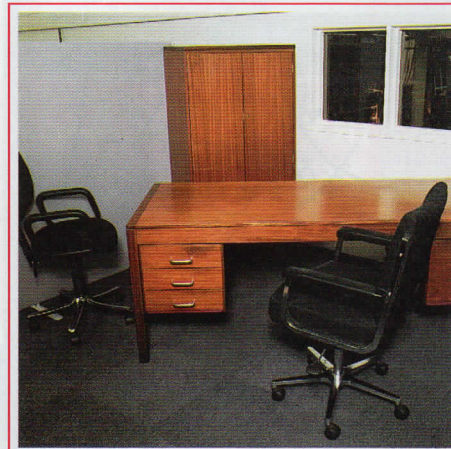
PERIPHERAL EQUIPMENT

- 50—**WYSE 50 Visual Display Units.** RS232 Slave Printer Port.
- 2—**GENICOM 3310 Heavy Duty Dot Matrix Printers.**
- 2—**GENICOM 3410 Heavy Duty Dot Matrix Printers.**

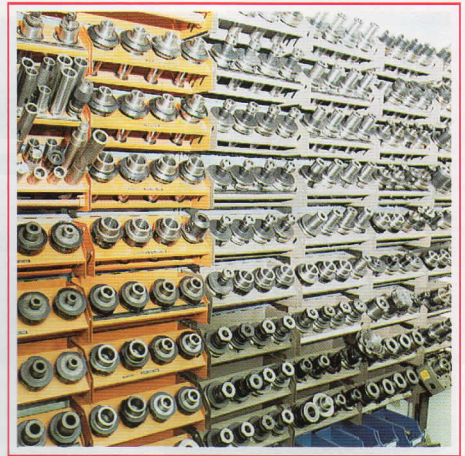
CNC PROGRAMMING

For sale by Auction – Fri. 13th July (2nd day)

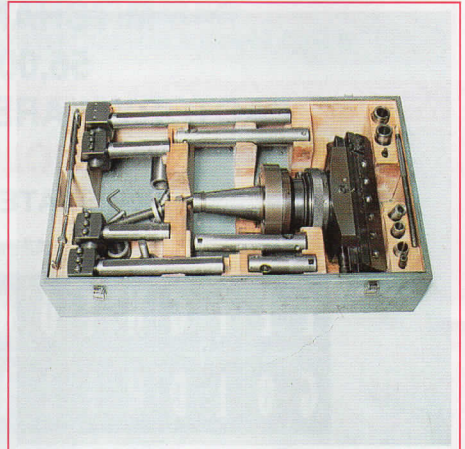
- 2—**WESTWARD 1015 Raster Graphical Display Units,** with RS232 Printer & separate Joy-Stick.
- 1—**WESTWARD Anadex Model DP 9620A Dot Matrix Printer.**
- 1—**FACIT 4047 Reader/Punch Combination.** S/N 744-0031.



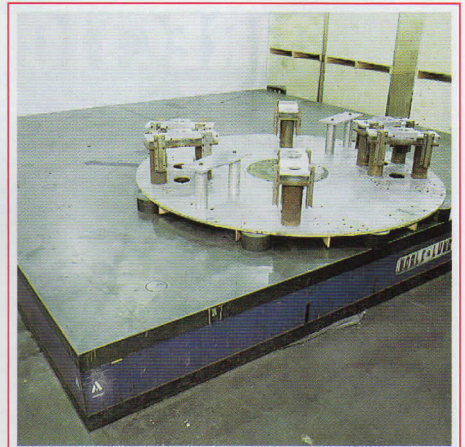
SAMPLE OF OFFICE FURNITURE



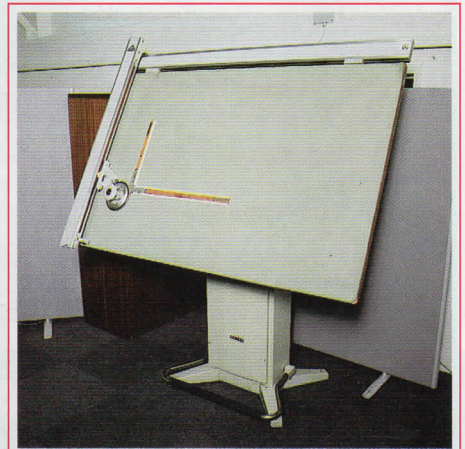
PARTIAL VIEW OF TOOLING



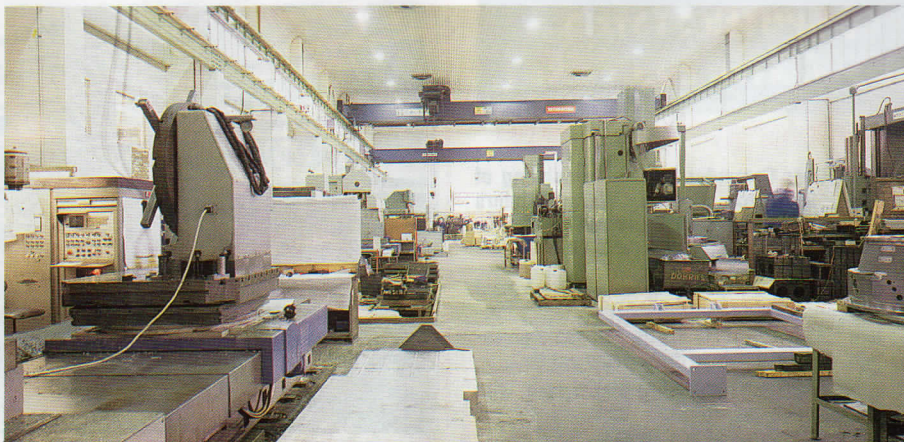
WOHLHAUPTER BORING HEAD



NOBLE & LUND PLATE – 15ft×30ft max.



NESTLER FLORETT DRAUGHTING MACHINE



MITCHAM, SURREY
56,000 sq. ft.
FACTORY/WAREHOUSE BUILDING
FREEHOLD FOR SALE
IMMEDIATE OCCUPATION

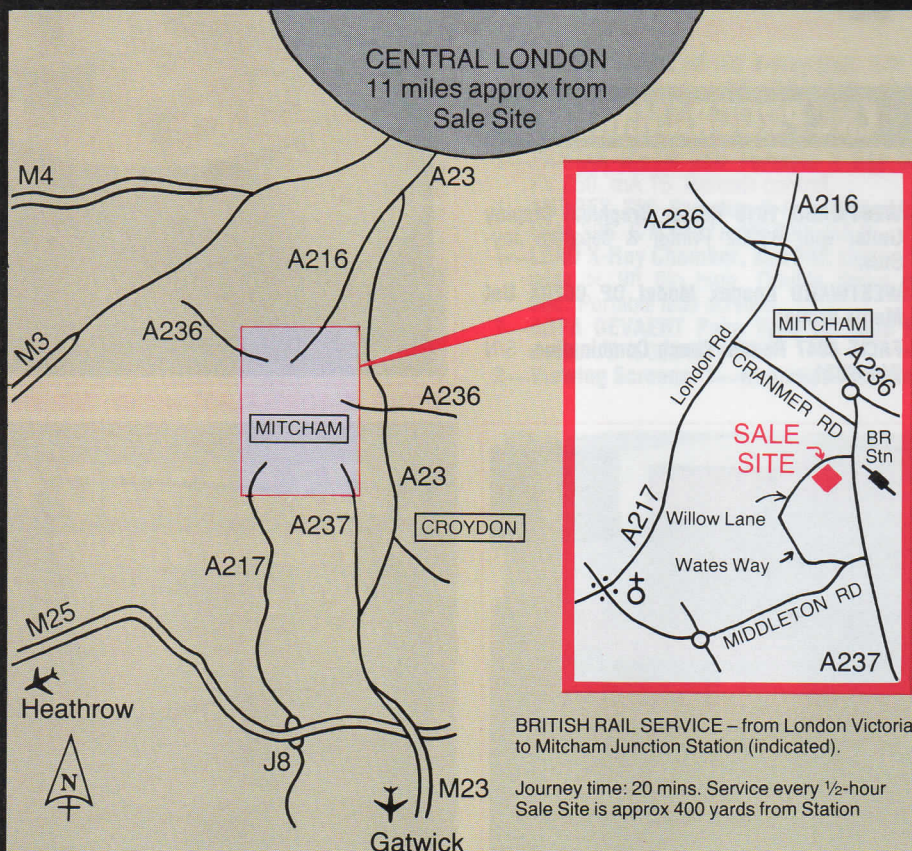
All enquiries:

LEIGHTON
GOLDHILL

Chartered Surveyors,
 Business Property Consultants,

7 & 8 Conduit Street,
 London W1R 0DA
 Telephone 071-734 4177
 Fax 071-493 0555

DIRECTIONS TO SALE



2-DAY PUBLIC
AUCTION
 commencing 10.30am each day on
Thurs. & Fri.
12th & 13th JULY

By order of the Board of Directors, Surplus Manufacturing
 Plant no longer required in the continuing business of

MORFAX LIMITED
 Willow Lane · Mitcham · Surrey · England

... and FOR SALE BY
PRIVATE TREATY ONLY
LARGE CAPACITY CNC
PRECISION MACHINE TOOLS (to 1988)

AUCTION – Approx. Order of Sale

1st day – Thurs. 12th JULY

MACHINE TOOLS · FABRICATING · FACTORY EQUIPMENT

2nd day – Fri. 13th JULY

INSPECTION · COMPUTERS · OFFICE FURNITURE

VIEWING: Tuesday 10th & Wednesday 11th July
 9am to 4.30pm, & on mornings of sale.

PRIVATE TREATY ITEMS

Sale NOW ON!

Contact the Auctioneer for Viewing arrangements.
 All machines offered subject to prior sale.

TERMS OF SALE – AUCTION

Everything will be sold to the highest bidder for cash, in accordance
 with the Auctioneer's customary Terms of Sale, copies of which will be
 posted on the premises. All sales are for cash. A deposit of 25% by
 cash or cheque will be required on all purchases. All payments must be
 made by cash or cheques made payable to Norman Levy Associates
 Overseas Inc. Norman Levy Associates Overseas Inc. assumes no
 liability for errors in this listing.

IMPORTANT NOTICE

Although information has been obtained from sources deemed reliable,
 the auctioneer makes no warranty or guarantee, expressed or implied,
 as to the accuracy of the information herein contained. It is for this
 reason that buyers should avail themselves of the opportunity to make
 inspection prior to sale.

NO BUYER'S PREMIUM
CHARGED AT THIS SALE

NORMAN LEVY
ASSOCIATES OVERSEAS INC.

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 Coventry CV1 2GR · England
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 Fax: 0203-632226

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Auctioneers/Valuers