

NEW MACHINE TOOLS
from
THE HIGH TECHNOLOGY DIVISION



WICKMAN EXETER Limited

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MITSUBISHI

WIRE-CUT EDM SYSTEMS

*High-Precision, High-Speed Machining (250mm² p/min)
Standards at the Head of World Technology*

STANDARD FEATURES INCLUDE

- Highly rigid machine frame and bed.
- High precision guide mechanisms.
- Extra rigid workpiece mounting.
- Heat resistant construction.
- New diamond guide system.
- High stability wire tension mechanism.
- High performance power supply.
- Full colour graphics display.
- Interactive programming.
- Automatic second cut machining.
- RS 232 interface.
- Self diagnostics.

OPTIONS

- Automatic wire feed device (including wire breakage recovery).
- Thin wire device.
- Pre hole machining device.
- Fifth axis control.
- Fine surface power supply.



**MITSUBISHI
DWC 110H**



	DWC 70H	DWC 90H	DWC 110H	DWC 200H	DWC 300H
Max W/Piece Size	350 × 350 × 160	350 × 400 × 160	550 × 600 × 260	650 × 250 × 260	750 × 1000 × 260
'X' Axis Travel	250	250	300	400	500
'Y' Axis Travel	200	300	450	750	1000
Max W/Piece Weight	150Kgs	175Kgs	650Kgs	950Kgs	1250Kgs
Max Taper +/- 12 degrees in workpieces up to 100mm thick					

AND THE DWC 90C

A COMPACT & ECONOMIC PRICED VERSION OF THE DWC 90H

Offering cutting speeds of 140mm² p/min, taper cutting +/- 12 degrees in 60mm thick material, plus numerous other features as available on the 'H' series.

CDM

EDM – a production range that is one of the most comprehensive in the world

CDM stands for "Computerised Discharge Machines" the company is based in Turin, Italy. CDM have led the world by introducing the very first micro processor controlled EDM machines controlling both the positioning of the table and the erosion processes. Since that date in 1979 they have continued to develop the automation of the EDM process at the same time considering the requirements of the less demanding user and to this end have maintained production of their range of manual and CNC machines. All machines in the CDM range have the benefits of such things as the 'Rampuls' technology and Mosfet power circuits.



**ELECTRA
MACHINE**



Standard & CNC Machining Centre	Electra Vega E	Hydra Vega H	Sirius Vega S	Tauros Vega T	Vega Z
Tank Size	800 × 500 × 370	1100 × 740 × 420	1370 × 835 × 500	1500 × 1100 × 600	2200 × 1150 × 900
Table Size	580 × 310	700 × 400	800 × 400	1000 × 850	1500 × 950
X Axis Travel	300	420	800	800	800
Y Axis Travel	300	400	400	500	500
Z Axis Travel	200	300	400	400	600
Max. Elect. Wt.	200Kgs	250Kgs	500Kgs	500Kgs	1000Kgs
Max. W/Piece Wt.	600Kgs	100Kgs	1500Kgs	300Kgs	4500Kgs

CDM also build machines to suit customers specifications. The above is the standard range.

All machines feature:-

- PFM RAMPULS
- Stabilised discharge energy
- Machining protection
- Super fine finishing
- ISO gap
- Auto speed up

CNC machines also feature:-

- Orbiting
- Automatic positioning
- Automatic centering
- Vectorial erosion
- Taper machining
- Spherical machining
- Lateral machining
- Automatic parameter setting

Vega E machining centres further feature:

- Dialogue programming
- CAD/CAM interface
- Erosoft data selection
- Tele link
- Interpolation of axis
- Auto zero reset
- Wear compensation
- AEC tool changing
- Programmable flushing
- 'U' axis

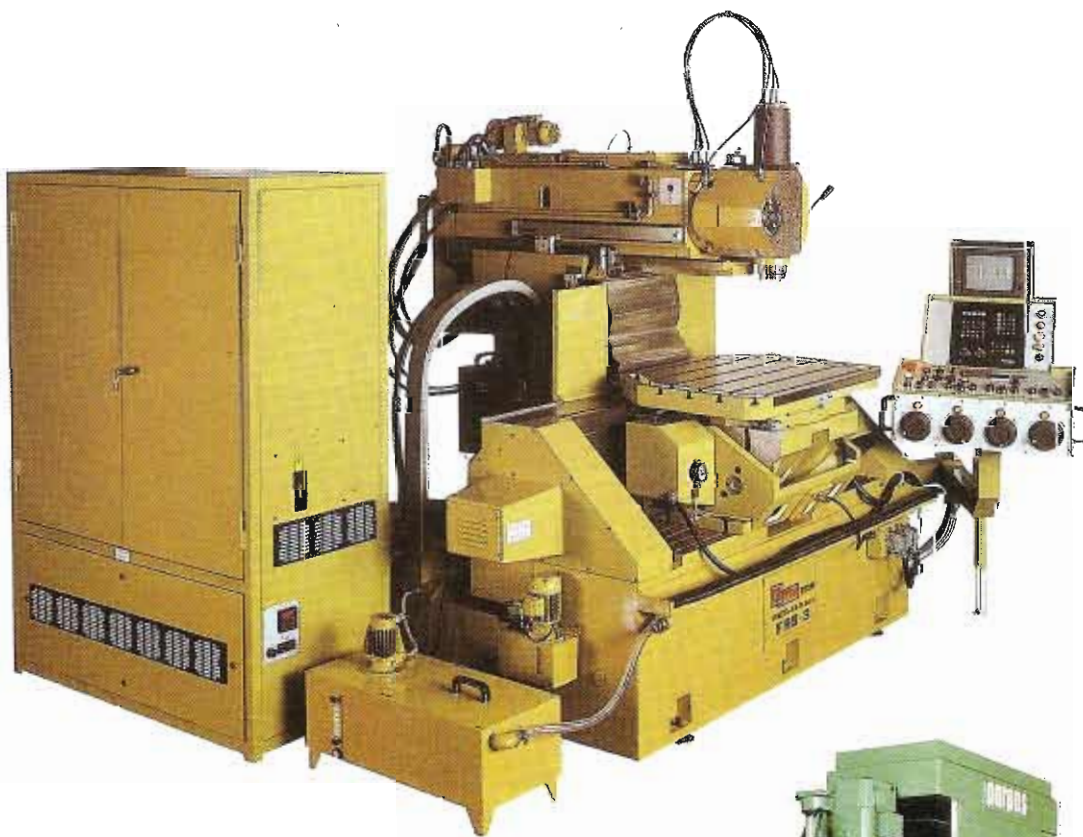
VEGA 'Z' ED MACHINING CENTRE



PARPAS: OMV & FAMU

The Parpas Group which comprises of Parpas Famu and OMV was founded in 1951 to build pantograph engraving machines, the company rapidly achieved a reputation for quality and reliability which in turn encouraged them to increase the size of machines.

Today, Parpas, besides producing a complete range of pantograph engraving machines manufactures a wide range of electronic milling machines from the knee type milling machine to the fixed bed, cross slide type milling machines and the mobile column machines using the modular system. It is possible to have copying or NC controlled or both copying and NC controls. The machine can be supplied with single or multiple heads. The company also produces a series of machines for simultaneously producing two dies symmetrical to each other, these machines are normally equipped with a sophisticated copying system (digitiser) that allows moulds of different sizes to be produced from one model. The total range of machines offered is so diverse in their specification and numerous in quantity that you should refer all your milling requirements to Wickman Exeter.



FAS-3



BF-100

OMZ

The Italian OMZ Turret Drills are well established in the UK and have an excellent reputation for productivity and reliability, this is indicated by the majority of users having more than one machine. OMZ have now increased their range of machines to include Horizontal and Vertical machining centres to complement the Turret Drills.



THE M300 MACHINING CENTRE

DETAIL OF THE DISC
TYPE TOOL CARRIER
AND OF THE FIXTURE

MACHINING CENTRES

Main Specifications	M300 Horizontal	CO BO 30 Vertical
Travels X	460	800
Y	330	500
Z	260	800
Indexing Positions	4 x 90	—
Spindle Nose	ISO 40	ISO 40
Spindle Speeds	0-4000	30-3000
Tool Change	18 pos.	30 pos.
Max. Tool Wt.	6 kgs	6 kgs
Pallet Changing Time	20 secs.	—
Positioning Accuracy	.03mm over 300mm	.01
CNC	Sinumerik	

Options = totally enclosed work area, chip conveyor, large capacity tool changers.

M23/30 CNC TURRET MACHINING CENTRE



**CNC Turret Machining Centres:
For Centre Drilling, Drilling, Milling, Chamfering, Boring and Tapping.**

Main Specifications

	M23	M30	M40	M500
Milling Capacity	—	—	100	100
Drilling Capacity	23	30	40	40
Tapping Capacity	M20	M26	40 x 1.5	40 x 1.5
No. of Spindles	6	6	6	6
Spindle Nose	MT2	MT3	ISO 40	ISO 40
Travels X	550	550	650	800
Travels Y	360	360	400	500
Travels Z	150	150	500	520
Throat Depth	420	420	590	590
Table Size	900 x 300	900 x 300	900 x 300	800 x 500
Spindle Speeds	250 – 2000	200 1600	20 – 2200	20 – 2200
Motor HP.	2	3.5	20	20

ASTECC

High Speed EDM drill for any time high performance, high quality small hole drilling is required.



Work Table (W x D)	mm	500 x 360
Work Tank (W x D)	mm	750 x 400
Distance from Ram Nose to Work table	mm	450
Table Travel (X x Y)	mm	300 x 200
Drilling Diameter	mm	0.5 - 3.0
Ram Servo Travel	mm	250

MAIN FEATURES OF THE CDH-3A

MINIMUM BURRING

Microprocessor varies electrode current density during start up to minimize burring of hole entrance.

STANDARD WORK TABLE

Easy setting table is standard.

RIGID BODY

Solid construction allows workpieces up to 300kg and extended Head travel allows extra thick workpieces.

PIPE ELECTRODE

Brass and Copper construction, water is forced through pipe electrode during drilling for increased metal removal rate

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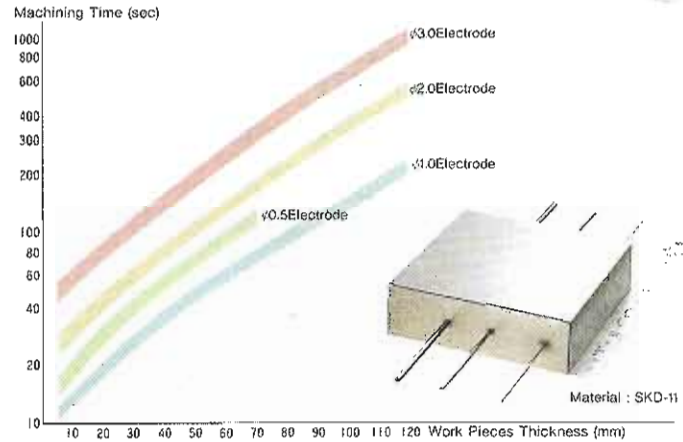
Normal Water or GT1 which reduces wear by 30-50% and increases machining speed.

PIPE DIAMETER

0.5-3.0mm (0.3mm optional).

HIGH SPEED

Will drill through 100mm die steel in less than 2.5 minutes (using 1mm pipe electrode).



ELDIS

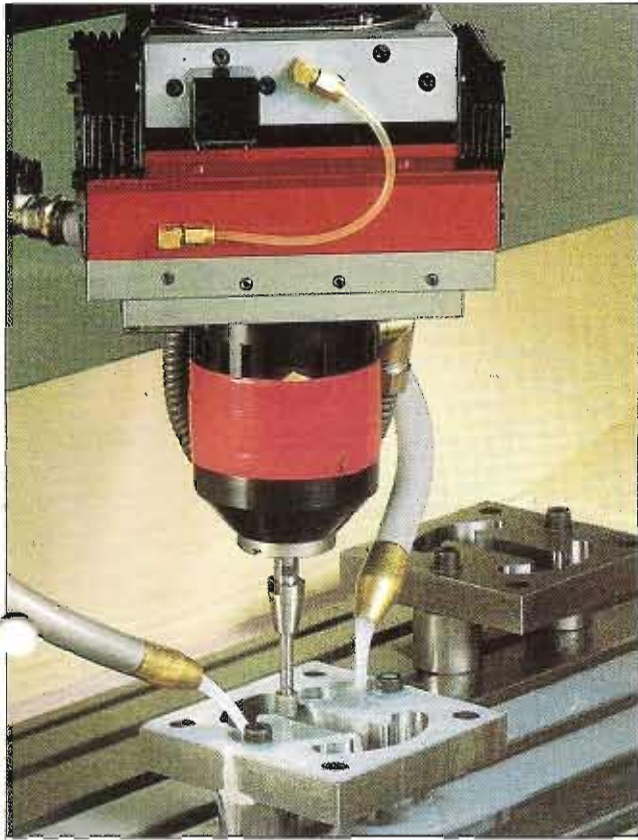
A low cost, easy solution to EDM problems these machines are of rugged construction and come with simple, powerful and compact generators and are intended for the applications that do not require the application of the more expensive CDM machines.

E3.40



	Tank Size	Table Size	Axis Travel	Machining W/Piece Wt.	Machining Stroke	Backslide Travel	Max. Electrode Wt.	Generator Capacity
E1.20	450 x 230 x 130	340 x 110	230 x 135	50Kgs	70	160	5Kgs	20 amp
E2.40	700 x 400 x 280	500 x 250	250 x 150	300Kgs	200		45Kgs	20/35 amp
E3.40	800 x 500 x 300	600 x 300	300 x 200	500Kgs	200	200	55Kgs	20/55 amp

PERRIN RV3 CNC JIG GRINDER THE ULTIMATE 'SWISS' MACHINE TOOL



CAPACITIES

X Y Axis Travel	390 x 260	15% x 10%
Table Top to Spindle	450	18
Backslide Adjustments	350	14 in
Spindle Centre to Column	400	16 in
Spindle Quill Travel	0-400	4 in
Radial Adjustment of Spindle	20	¾ in
Table	620 x 315	24% x 12%
Load	300kg	

ACCURACIES

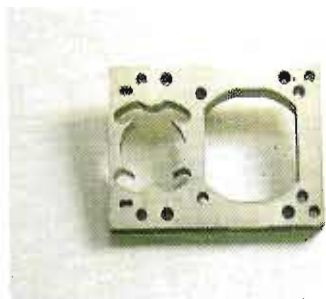
Positioning	.002 mm	.00008
Repeatability	.001 mm	.00004

WORK EXAMPLES

The (6) six axes of this machine in its standard version allows the production of extremely complex forms. The addition of a circular table (7th axis) increases the working possibilities even further. The fact that the spindle can be tilted 3 degrees

(6 degrees total), allows the grinding of contours which are not perpendicular to the surface of the component such as undercutting of any contours or stamping dies, etc. A choice of HF motors as well as an air turbine permits the combination of

speed and production in accordance with the type and dimension of the grinding wheel. A slot grinding attachment with different bases allows other complex form work to be done.



THE WICKMAN EXETER HIGH TECHNOLOGY DIVISION

The aim of the Wickman Exeter High Technology Division is to provide the "Best to the Best."

The division was set up with the objective of satisfying the needs of the TOOLMAKER and PRECISION PRODUCTION ENGINEER. A survey was made of UK users and the worlds suppliers and the BEST of the one was matched to the BEST of the other. The first consideration in looking for the suppliers was the state of their technology, then their acceptance in the world market and finally how competitive they would be in the UK. Having carried out this exercise we sent engineers to inspect the machines and ensure the product matched its description. Each principle was then vetted in turn as to their attitude to the customer, the agents, what their short and long term ambitions were and how they viewed their future in the UK. As a result of this action we have a range of machines that will take you into the 1990's at the head of technology.

The next step was to review our ideas as to the support we should need to effectively market the machine, Sales Personnel, Demonstrators, Service Engineers and all that is necessary to sell the machines and more importantly ensure the repeat orders.

The philosophy is simple, the RIGHT PRODUCT at the RIGHT PRICE and the support needed to guarantee the RIGHT PERFORMANCE.



THE PURPOSE BUILT MACHINE
TOOL SHOWROOM – HOME OF THE
FOLLOWING WICKMAN EXETER DIVISIONS

CNC DIVISION

Late model used CNC machine tools
Rebuilt machines, retrofitted with new technology
Applications – Training – Installation – Commissioning
– Guaranteed

REBUILT DIVISION

Factory rebuilt WICKMAN Multi Spindle Automatics
Factory rebuilt WICKMAN Optical Profile Grinders
Factory rebuilt WEBSTER BENNETT Vertical Turret Lathes
Factory rebuilt MOORE Jig Grinding Machines
Agents for high quality SWISS Machine Tools rebuilt by Muller
Machines, Bienne, Switzerland
Agents for KETLON, premier machine tool rebuilders in Europe

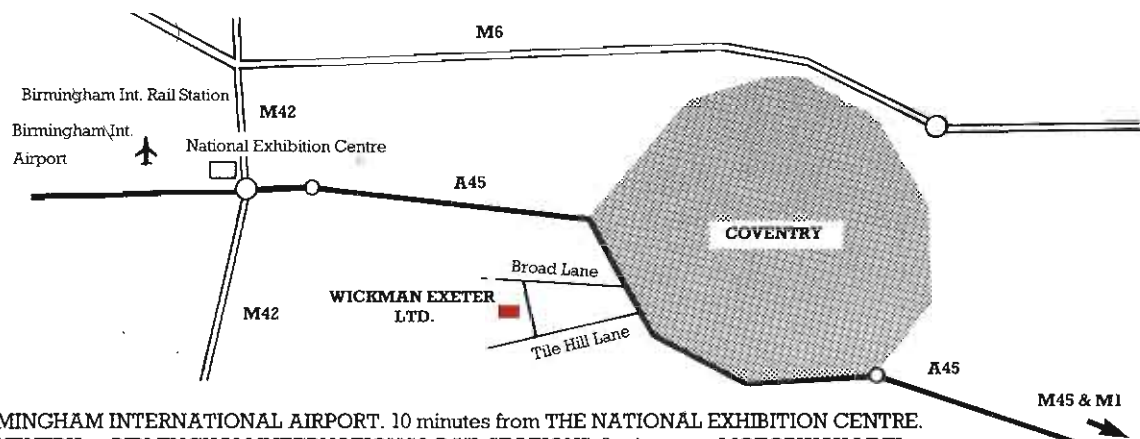
USED MACHINE DIVISION

Late model, high quality machine tools of all types

HOME OF THE BEST QUALITY
AND SERVICE IN THE BUSINESS –

DON'T FORGET

Wickman Exeter have a very active used machine division which is always looking for stock. Why not part exchange your surplus machines against any of the new ones listed in this brochure. A phone call will get an instant response.



10 minutes from BIRMINGHAM INTERNATIONAL AIRPORT. 10 minutes from THE NATIONAL EXHIBITION CENTRE.
10 minutes from COVENTRY or BIRMINGHAM INTERNATIONAL RAIL STATIONS. 3 minutes to MOTORWAY LINK.



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