



Matchless Machines Ltd.

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PRESS RELEASE

NEWALL-AGIE Jig Erosion Machine, 1520-75K

At the Brussels Machine Tool Exhibition in 1965 Newall, Agie and Matchless Machines decided to build a genuine jig erosion machine. The start of a completely new range of machines was thus made. Very small jig erosion machines have been built before but never has such a large machine using a high capacity generator been used.

The base of the machine tool, column and cross slide are taken from the well proven range of Newall Jig Borers. Manufactured in Peterborough these components have the normal guaranteed accuracy of machines built to date.

The generator, or power pack, as well as the hydraulic servo head is built in Switzerland by Agie, the head having been specially designed for this machine.

The cross slides are positioned by precision leadscrews or a completely zeroing optical system is available. The possibility of digital read-out is there.

A free-standing hydraulic power pack feeds the servo system; in the event of electrical mains failure the system is completely fail-safe, i. e. no quill movement.

The generator is the well proven Agiepuls 75 amp (optionally 45 amp) fully transistorised impulse unit with built-in relaxation networks.

The knowledge and ability of two well-known firms in their respective fields have thus been combined and the machine shown today is an example of European co-operation.

Matchless Machines have undertaken the final assembly, sale, installation, and service of these machines. A demonstration machine will be permanently in the Company's premises at Horsham.

14th March 1967

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DATA

Machine Tool

Table clamping surface	20" x 14"
Economic working area of electrode	15 sq. ins (75 amp unit) 8 sq. ins (45 amp unit)
Traverse of longitudinal slide	14.5"
Traverse of transverse slide	10"
Accuracy of co-ordinate slide displacement within	.0002"
Accuracy of repetition of slides	.0001"
Maximum distance table top to spindle nose	18"
Hydraulic servo movement of quill	8"
Range of head adjustment	9"
Spindle nose prismatic clamping	IMEA 201
Provision for special equipment	

Generator

Maximum working amperage	75 amps 45 amps (optional)
Maximum stock removal of roughing	.05 cu. ins. per minute (.02 cu. ins. per minute 45 amps)
Surface finish	12 micro. ins. CLA
Transistorised impulse circuit and relaxation	standard
Built-in time cycle control	
Anti-arc circuits	
Switchable polarity reversal	
Power drawn at mains	75 amp 8 KVA (45 amp 3.4 KVA)

Pump and Filtration Unit

5 μ m filtration	
1 pressure pump	
1 vacuum pump	
Built-in heat exchanger	
Capacity of dielectric	65 gallons

Hydraulic Power Pack

Free standing	
Working pressure	375 lbs. per sq. in.
Filtration	2 μ m
Fail-safe hydraulics	

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