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## **Universal Gundrilling Machine with options to cover a wide range of deep hole drilling applications**

A series of deep hole drilling machines in the drill diameter range 2–22mm and chose drilling depths of either 750mm or 1500mm for centre-line drilling on shafts. Machines can be provided in 1, 2, 3 or 4 spindle configurations depending on drill diameter specification.

All Mollart Machines meet with the latest **CE** specifications and are supplied fully guarded.

## Machine Features & Options



*750mm Drilling Depth Version*



*1500mm Drilling Depth Version*



*GE Fanuc CNC Control System with programmable spindle feed rate, drilling depth & Process Monitoring*



*Work rotation Units for maximum concentricity between bore & outer diameter. Parts can also be fixtured on the machine table*



*CAM-operated Auto-whipguide positioning*



*Turnkey Solutions with gantry system as part of the machine.*

## Applications



*The Drillsprint specialises in gundrilling shafts using counter-rotation units to produce concentric bores where the wall thickness of component is critical, or alternatively tooled with table mounted fixturing for prismatic parts.*



*Autoloading of a Windscreen Wiper Shaft. A 3mm x 150mm hole was Gundrilled to allow Washer Fluid to be pumped through into to washer jets mounted on the Windscreen Wiper Blade Arm. The Feeder unit has the capacity to operate for one full shift.*



*Sporting rifle barrels are fed through the machine with an automatic conveyor that indexes the parts through after drilling. The range of parts were drilling diameters from 5 – 10mm and lengths from 300mm – 750mm and bar max 40mm*

## Specification

<b>Number of Spindles</b>	1, 2, 3 or 4
<b>Gundrilling Diameter Range</b>	2mm - 22mm Single Spindle 2mm - 16mm Twin Spindle 2mm - 12mm Three Spindle 2mm - 12mm Four Spindle
<b>Maximum Drilling Depth</b>	750mm (Optional 1500mm)
<b>Maximum Component Length</b>	850mm (Optional 1600mm)
<b>Worktable Dimensions</b>	Machine dependant
<b>Spindle Nose Bore</b>	25mm (Collet Type)
<b>Spindle Centre Height from Table</b>	200mm
<b>A.C. Spindle Motor Power</b>	5.5kW Continuous (serves two spindles)
<b>Spindle Speed Range (A.C. Infinitely Variable)</b>	0 - 6,000 RPM (Optional 0 - 12000RPM)
<b>Drill Feed Range (A.C. Infinitely Variable)</b>	0 - 1000mm/min
<b>Rapid Traverse Speed</b>	10m/min
<b>Feed Motor Power (Stall Torque)</b>	Machine dependant
<b>Max. Workpiece Diameter with Chuck on Work Rotation Option</b>	70mm (External Jaws) 32mm (Bore Size)
<b>Max. Workpiece Diameter with Cone Locator System on Work Rotation Option</b>	72mm
<b>Work Rotation Speed</b>	100rpm
<b>Work Rotation Motor</b>	0.55kW
<b>Tool Kit</b>	Set of Allen Keys & Spindle Spanners
<b>Floor Area of Machine</b>	3000 x 1500mm (Basic Machine)
<b>Weight of Machine</b>	3500kg (Basic Machine)
<b>Electrical Supply</b>	400 Volts, 3 Ph, 50 Hertz. (460 Volt 60 Hz available as option.)
<b>Control Voltage</b>	24 Volts DC
<b>Rated Supply Current</b>	64 Amps
<b>Control System</b>	GE Fanuc Powermate 'iD'
<b>Mollart Software including Monitoring</b>	Spindle monitoring Feed Power monitoring Coolant Pressure monitoring
<b>Machine colour</b>	Dark Grey base RAL 7043, Light Grey Guards RAL 7004 & Yellow opening doors and tread plates RAL 1003. Other colours optional at extra cost.

All specifications are subject to change without prior notice.

## Contact details

### MOLLART ENGINEERING LTD

Headquarters • Deep Hole Drilling Machines Manufacturing • Subcontract Deep Hole Drilling with full CNC Machine Shop back-up for complete parts • Exclusive UK Agent for BOTEK Deep Hole Drilling Tools - Gundrills, BTA & Ejector

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## Deep Hole Drilling Machine Range



### **drillsprint**

1-4 spindle light-duty Gundrilling machine developed for the production drilling of shafts with deep holes in the drill diameter range 2-25mm



### **omnisprint**

Multispindle 3-axis Knee type Gundrilling machine for off-centre drilling in the drill diameter range 2-25mm



### **MD Boremaster**

1 or 2 spindle medium-duty Gundrilling machine in the drill diameter range 5-50mm and drilling depths up to 2000mm for centre-line drilling of shafts



### **MD Boremaster**

4-8 spindle medium duty Gundrilling machine in the drill diameter range 5-20mm and drilling depths up to 2000mm for centre-line drilling of shafts



### **HD Boremaster**

1 or 2 spindle heavy-duty BTA drilling machine in the drill diameter range 18-150mm and drilling depths up to 3 metres for centre-line drilling of shafts



### **microdrill**

A series of deep hole drilling machines specialising in the diameter range 0.6mm - 6mm. Machines can be provided in 2 or 4 spindle configurations



### **FMC**

Flexible Machining Centre for gundrilling, milling and tapping prismatic parts such as mould and heat exchanger plates and hydraulic manifolds.



### **prismabore**

Large capacity machine for gundrilling and milling of mould and heat exchanger plates, hydraulic manifolds and cylinders for rolling mills



### **Pellet Die**

Special purpose CNC Gundrilling Machine for drilling pellet-extruding dies. 2 - 16 Spindles and up to 36,000 holes in one workpiece