



DEEP HOLE DRILLING & ENGINEERING SOLUTIONS

## **Heavy Duty BTA BOREMASTER**



### **BTA Deep Hole Drilling machines developed for the production of components with deep bores**

A series of dedicated BTA hole drilling machines with drilling range 18–150mm and drilling depths up to 3000mm for centre-line drilling of shafts utilising the BTA System. Machines can be provided in 1 or 2 spindle configurations depending on drill diameter specification.

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

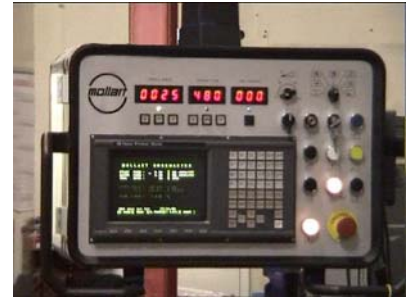
## Machine Features & Options



*Mollart Boremaster (shown without guards) available with up to 3m drilling depth*



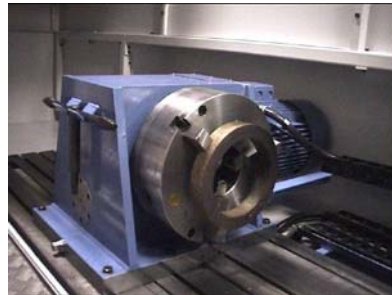
*Optional Component Workholding with Hydraulic self centering vices*



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



*BTA Coolant Pressure Head & Tube Damper tooling to suit all drilling applications*



*Optional Work Piece Counter-rotation for maximum concentricity between bore & outside diameter*



*Special filtration to suit application. Unit shown is a cartridge system fitted with a 300 litre / min triple screw pump to feed the application oil and a fan cooler to maintain oil temperature*

## Applications



*BTA Production Line with gantry loading facility supplied to the oil industry*



*Truck Drive Shaft machine is part of an automatic cell being fed by 5 axis robot*



*Machine supplied to the aerospace industry to drill hollow ballscrews*

## Specification

<b>Number of Spindles</b>	1 or 2 (Drilling Diameter dependant)
<b>Solid drilling Diameter</b>	18mm – 65mm or 18mm – 100mm
<b>Counterboring Diameter</b>	Up to 100mm or Up to 300mm
<b>Maximum Drilling Depth (Programmable)</b>	1000 / 1500 / 2500 / 3000mm
<b>Maximum Component Length</b>	850mm (Optional 1600mm)
<b>Spindle Nose Bore</b>	Machine dependant
<b>Spindle Centre Height from Bed</b>	Machine dependant
<b>Workholding Vice</b>	Various ranges available
<b>Clamping Load per Vice</b>	Dependant upon the vice selected.
<b>A.C. Spindle Motor Power</b>	Up to 60kW (Application dependant)
<b>Spindle Speed Range (A.C. Infinitely Variable)</b>	Application dependant
<b>Drill Feed Range (A.C. Infinitely Variable)</b>	0 – 1000mm/min
<b>Rapid Traverse Speed</b>	4m/min per minute
<b>Feed Motor Power</b>	Application dependant.
<b>Maximum Drill Thrust</b>	Application dependant.
<b>Weight of Machine</b>	10500kg (1500mm machine) 13500kg (2500mm machine)
<b>Electrical Supply</b>	400 Volts, 3 Ph, 50 Hertz.
<b>Control Voltage</b>	24 Volts DC
<b>Rated Supply Current</b>	Dependant upon final spec
<b>Control System</b>	GE Fanuc Powermate 'iD'
<b>Mollart Software including Monitoring</b>	Spindle & Feed Power Coolant Pressure
<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

<b>Address</b>	Chessington Industrial Estate, Roebuck Rd., CHESSINGTON Surrey, KT9 1EU
<b>Tel</b>	020 8391-2282
<b>Fax</b>	020 8391-6628
<b>Email</b>	mailto:info@mollart.co.uk
<b>Contact</b>	Ian Petitt



## 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



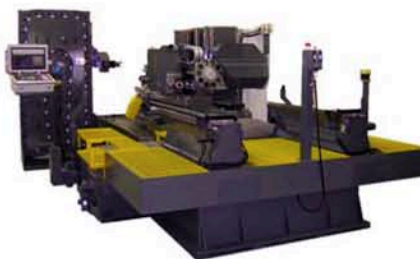
### **HD Boremaster**

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



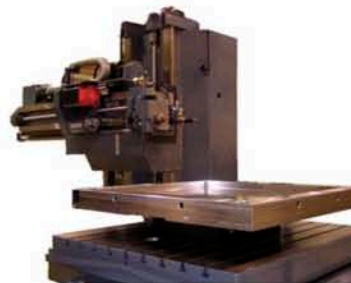
### **microdrill**

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