Deep Hole Drilling Machines

MOLLART – The world leader in the design, development, manufacture and application technology for standard, single and multi-spindle machines able to satisfy all deep hole drilling requirements between 0.5 mm to 300 mm diameter by up to 3,000 mm in depth. In addition to standard machines, special purpose, trepanning and machines incorporating the flexibility of multi-axis CNC technology to include up to 5-axis milling, boring and threading can be supplied.

With our application-led philosophy Mollart is a world leader in providing: “The Hole Solution”.

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MICRODRILL Series (0.5 mm – 8 mm)

The Microdrill range of deep hole drilling machines has a capacity from 0.5 mm – 8 mm diameter in 2 or 4 spindle variants with or without auto loading. A wide range of expertise is available from application experience gained from installations in fuel injection, medical, automotive, MIG welding tips, hydraulic and instrumentation sectors.

DRILLSPRINT Series (2 mm – 25 mm)

One to 4-spindle range of machines developed for shaft production requiring holes between 2 mm – 25 mm diameter with drilling depths of 750 mm, 1,200 mm or 1,500 mm. Full machine table provides flexibility for fixturing including offset hole drilling. Auto loading options range from single belt to fully integrated robotic systems.

PELLET DIE Series (1.2 mm – 10 mm)

A series of special application deep hole drilling machines with capacity ranging from 1.2 mm – 10 mm diameter and the ability to drill up to 100,000 holes in a single workpiece. Machines available in 4, 8 or 16-spindle variants with die component capacity from 400 mm to 1,550 mm.

Gundrilling Machines
MD Series (5 mm – 50 mm)

The MD Series of deep hole drilling machines has a capacity range from 5 mm – 50 mm diameter with centre line depths up to 3,000 mm. Machines available with gundrilling or BTA option in 1 or 2-spindle variants.

Single spindle gundrilling/BTA machine

MD Series (5 mm – 20 mm)

Between 4 and 8 spindles can be applied for centre line deep hole drilling with machines developed for higher volume production of holes between 5 mm – 20 mm diameter having drilling depths up to 2,000 mm.

Autoloaded 6-spindle, opposed head gundrilling machine

HD Series (18 mm – 150 mm)

Dedicated deep hole drilling machines with drilling range between 18 mm – 150 mm diameter developed using BTA system for oil and aerospace industries able to produce holes up to 3,000 mm deep.

BTA machine 150 mm diameter x 3,000 mm drilling depth

TREPANNING TPA Series (80 mm – 300 mm)

The Mollart TPA Trepanning Centers are capable of producing holes 80 mm – 300 mm diameter by up to 1,200 mm deep with the ability to recover the material core for further use. Ideal for tubular or cored lengths produced from up to 600 mm diameter material.

Mollart TPA for large bores
OMNISPRINT Series (2 mm – 25 mm)

A range of deep hole drilling machines with a capacity between 2 mm – 25 mm hole diameter and up to 1,000 mm deep with an off-centre production capability. Machines are available with up to 4-spindles for higher production requirements.

MATRIX Series (3 mm – 35 mm)

A competitively priced versatile 7 machine range of 3 to 5-axis deep hole drilling centres with the capability to perform milling, rigid tapping and thread milling. Capacity is 3 mm – 25 mm by up to 1,500 mm depth. Options include rotary table (4th-axis) and tilting spindle + 24° to -15° for compound angle machining.

PRISMABORE Series (5 mm – 65mm)

A range of 3, 5-axis bed type machines with capacity between 5 mm – 65 mm diameter by 2,000 mm depth, the Prismabore PRB Series is able to provide full secondary operations of counterboring and tapping. By utilising a ram design the drilling axis over the table is extended to allow 4-sided machining and enhanced flexibility.

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Prismatic Series Deep Hole Machining Centres

**FMC Series (6 mm – 50 mm)**

The full ‘lights-out’ capability automated deep hole drilling, milling and threading machining center is able to combine deep hole drilled holes between 6 mm – 50 mm diameter by up to 2,000 mm deep with conventional machining center operations. Machines can be provided with part and tool probing and twin pallets for extended production. Gundrills up to 1,350 mm in length and guide bushes can be changed automatically from the on-board magazine.

*Twin pallet FMC with automatic tool and bush changing*

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**CENTEPLEX Series (6 mm – 80 mm)**

The Centeplex 6-axis combination deep hole drilling machine and conventional machining center is able to produce deep holes 5 mm – 80 mm diameter by up to 2,000 mm in depth while having the capability to perform milling, drilling, boring and threading from an under/over shotgun style secondary spindle. The spindle arrangement has an in-cycle capability to tilt up to 25° to produce compound angles. Spindle power is 22 kW, ISO 50 taper with fully automatic tool changing.

*Centeplex with tilting spindle gives higher flexibility*
A full range of gundrill and BTA tooling is available for standard and special applications

Mollart Engineering Ltd
Chessington Industrial Estate
Roebuck Road
Chessington, Surrey
KT9 1EU, England

Tel: +44 (0) 208 391 2282
Fax: +44 (0) 208 391 6626
E-mail: info@mollart.co.uk

THE HOLE SOLUTION

Mollart America
2680 Spencer Lane
Brookfield
WI 53045, USA
Tel: (262) 784-3922
E-mail: tom.bruders@mollart.com

Mollart Canada
8 Seton Park Road
Toronto,
ONM3C 3Z6
Tel: (416) 423-6660
E-mail: Mollart.canada@mollart.com

www.mollart.com