LOCH

PRÄZISIONSBOHRTECHNIK

Deep Hole Drilling Machines

Deep Hole Drilling Machine TB 1

Deep Hole Drilling Machine TB 1 / TB 2

Deep Hole Drilling Machine TB 2 / TB 4

Cylinder Processing Machine

Co-ordinate Deep Hole Drilling Machine

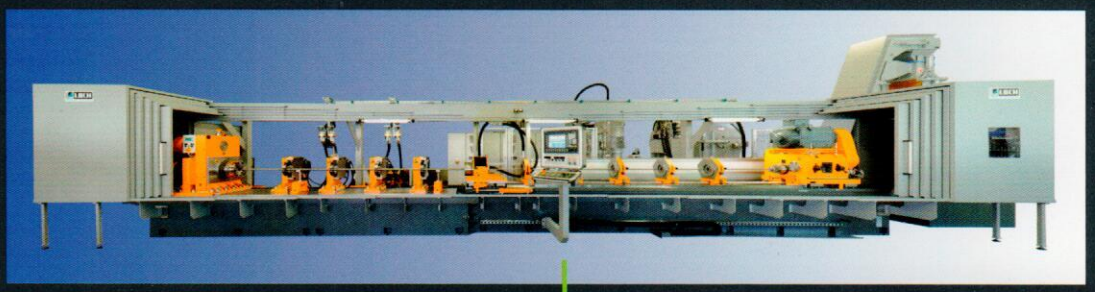
Deep Hole Drilling Machines

TB 4-45-6000
Single spindle Deep Hole Drilling Machine for BTA-solid drilling and counterboring from 16-250 mm ∅
Drilling depth 6000 mm

- Drill spindle drive with frequency-controlled drive
- Feed by frequency-controlled servo-drive
- Feed spindle or rack drive located backlash-free
- Drill spindle with precision bearings for quiet rails combined with rolling elements
- Guide system with hardened and ground steel guide rails combined with rolling elements (almost wear-free and without stick-slip effect)
- Digital drill breakage safety device for best possible tool protection

Deep Hole Drilling Machines are now used profitably in nearly all areas of machine building, metallurgical engineering and semi-finished product manufacturing. Medium and heavy machines are mainly built with 1 spindle. The BTA drilling system is generally used herein. For difficult spot-drilling or sealing situations, the ejector system (dual tube system) is used. By means of an ingenious module system, a change can be carried out in best time from one system to another or between the different drilling diameters or workpiece clamping applications. The following features of these machines guarantee the productivity and drilling accuracy combined with great ease of operation for years:

TB 4-45-1000
Deep Hole Drilling Machine for gun-drilling and BTA-solid drilling and counterboring 6-150 mm ∅
Drilling depth 1000 mm

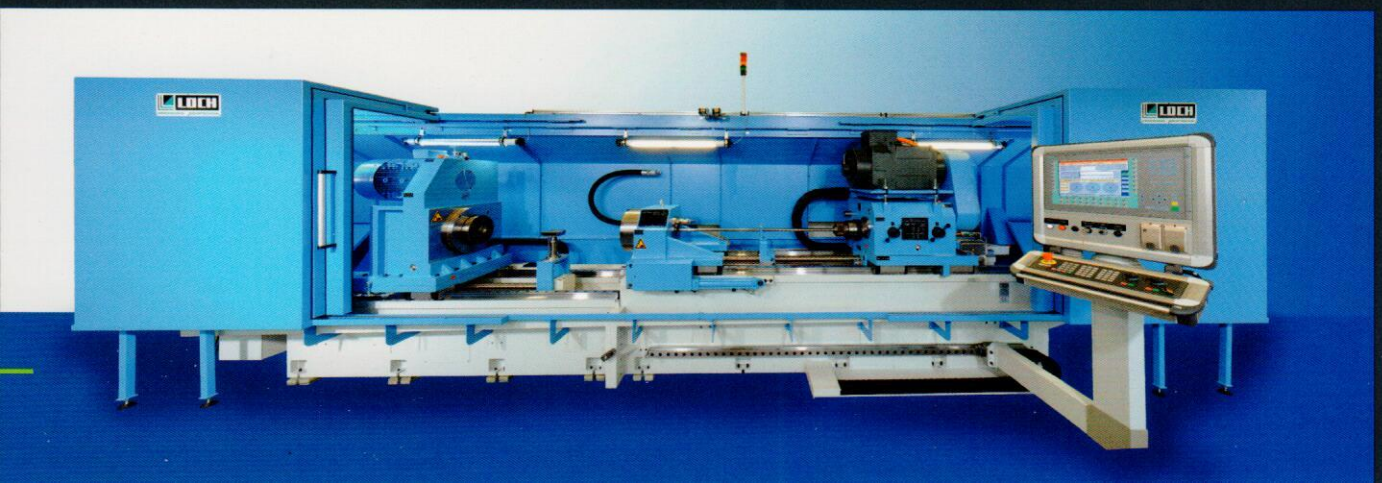


TB 4-45-4000
Deep Hole Drilling Machine for
BTA-solid drilling and counter-
boring 16-250 mm ∅
Drilling depth 4000 mm

LOCH-Deep Hole Drilling Machines of the range TB 2/TB 4

have been known on the market for decades as extremely robust-built machines and are taken as a symbol of simple machines which are, nevertheless, used for a variety of purposes. The experience of many years, especially with machines with high cutting capacity, the special requirements of customers, and the cost-reducing module system, have had a far-reaching impression on the current image of the machines and their conception. Developments on the whole and in detail will, above all, make the machines fulfil the requirements relating to drilling accuracy and to the ever more efficient drilling tools.

TB 6-75-1000
Deep Hole Drilling Machine for
BTA-solid drilling and counterboring/
core drilling 30-350 mm ∅
Drilling depth 1000 mm



The following accessories and special-purpose accessories give LOCH-Deep Hole Drilling Machines their manifold possibilities:

Machine tables	Standard tables, special tables, lifting and sliding tables, also co-ordinate tables and circular indexing tables with and without control gear
Clamping equipment	Centering tailstocks, counterrotating tailstocks and special tailstocks with and without indexing apparatus, also cross adjustment for eccentrically-located bores Radial clamping vices in standard or special design, hand- or power-operated chucks, special workpiece-related clamping devices
Feed equipment	Chain conveyors, lifting beam conveyors, gantry loading equipment and pallet systems with and without interlinking
Control system	Latest CNC- or PLC-control Fault diagnose in clear text or graphically on screen Highly sensitive digital drill breakage safety device, coolant monitoring with signal indication by breakdown, roboter-loading
Other options	Quick-action chuck, back cooling equipment for the coolant, workpiece steady rests at longer workpieces, complete cover of the machine, online-service

Types of machine		TB 2-37	TB 4-51	TB 6-75
Drilling depth from – to	mm	300–8000	300–10 000	300–10 000
Solid drilling range	mm ∅	16–70	16–120	30–175
Counterboring	mm ∅	–150	–250	–350/400
Core drilling	mm ∅	–100	–200	–280
Input power	kW	37	51	74
Drilling system		BTA-Ejector	BTA-Ejector	BTA-Ejector
Spindle speeds		stepless	stepless	stepless
Speed range	min^{-1}	110–1740	64–1540	44–1200
Feed, infinitely variable	mm/min	0–1000	0–1000	0–1000
Rapid traverse, forward & return	mm/min	7500	7500	7500
Height of centres, standard	mm	300–400	300–400	300–400
Coolant tank volume	l	1000–5000	7000–10 000	7000–10 000
Coolant flow rate	l/min	30–400	40–700	100–1400

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