

Deep hole drilling unit MDH2000

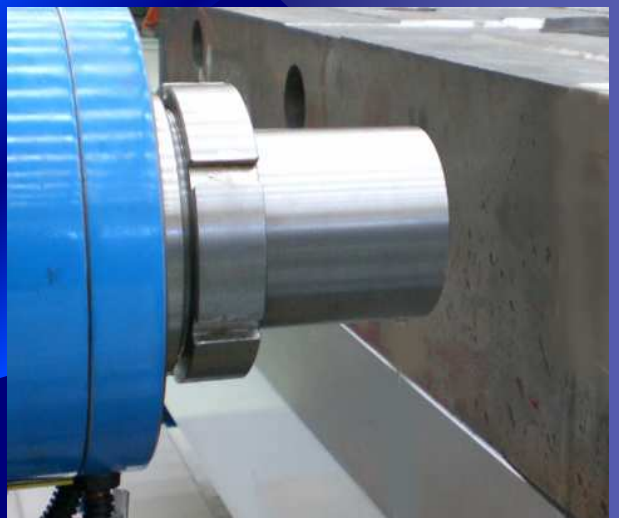
Alesamonti produces boring and milling machines with travelling column which can be equipped with a drilling unit for gundrills (MDH2000). In this way it is possible to carry out milling, boring and deep hole drilling machining with the same machine, optimising the workpiece clamping times as well as the overall dimensions and the investments in machines.

The main features of the deep hole drilling unit MDH2000 are the following:

- solid drilling capacity: from 6 up to 32 mm
- spindle speed: from 0 up to 4500 r.p.m.
- max. drilling depth with single cycle: 2000 mm
- angle of inclination of the drilling unit: $\pm 20^\circ$
- spindle motor power: 9 kW in S1
- vertical travel of the drilling unit: 2500 mm

The main innovations of the MDH2000 are:

- **automation of the workpiece approaching:** the guide bush of the gundrill is integral with a boring spindle. When the guide bush touches the workpiece, the boring spindle moves back of a certain quantity, granting a correct pressure on the workpiece and a high seal of the coolant circuit;
- **automation of the parameters regarding flow and pressure of the coolant :** through the numerical control it is possible to set the parameters of the deep hole drilling (diameter of the drill, cut speed and depth). The CNC will automatically adjust the correct flow of the coolant, keeping it constant during the whole drilling process;
- **optimal filtration of the coolant :** it is possible to obtain filtrations up to 10-20 μm with automatic filtration devices, granting a long working life of the gundrill;
- **characteristic of the spindle motor:** by using brushless drives it is possible to obtain a characteristic of power - rpm which completely satisfy the drilling capacity requested.



**efficiency +
innovation**

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