DRILLING

KALTENBACH DRILLING MACHINES

ADVANTAGES AT A GLANCE:

- Robust, low-vibration design prolongs machine and tool life
- Efficient drilling, contour-marking, centre-marking, counter-sinking and thread-cutting on all three drill axes simultaneously
- Powerful clamping system reliably holds material and reduces vibrations to prolong tool life
- Intelligent material measurement integrated into clamping system for greater process reliability
- Rapid/working feed concept for shorter idle times
- Servomotor and ball screw for high-precision drill axis positioning and feed control
- A saw can be incorporated to create a saw-drill combination



KDE 603 | 1003

Basic drilling machine for small businesses with simple drilling applications and relatively small machining requirements.

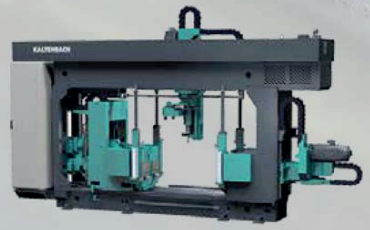
- Manual quick-change chuck and tool length measuring
- Tool-oriented processing minimises tool changes



KDM 615 | 1015

Fully automatic drilling machine for small and medium steel profiles for users with more extensive machining requirements.

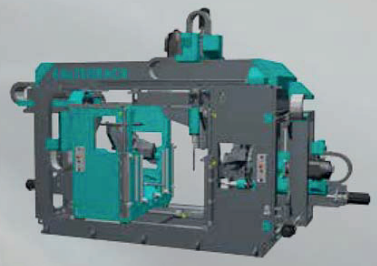
- Powerful drives and modern spindle construction for high-performance machining
- Automatic tool-change system with space for 5 tools per drilling axis
- Software macros for simple, fast programming when milling standard contours
- Carbide and solid carbide drills can be used to significantly reduce production times



KDL 1318 | 2118

Fully automatic drilling machine for medium and large steel profiles for users with more extensive machining requirements.

- Powerful drives and modern spindle construction
- Automatic tool-change system with space for 6 tools per drilling axis
- Software macros for simple, fast programming when milling standard contours
- Carbide and solid carbide drills can be used to significantly reduce production times



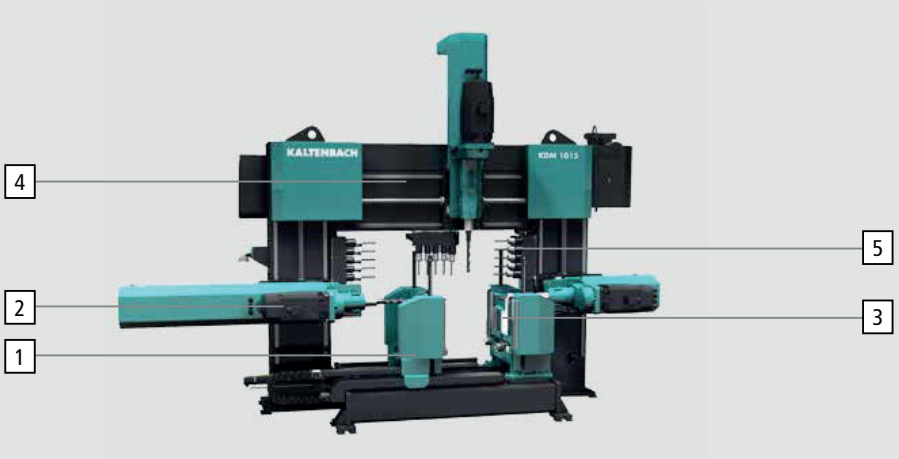
KDP 736 | 1036 | 1336

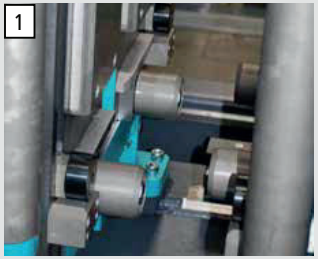
Fully automatic drilling machine for small, medium and large steel profiles for users with highly diverse machining requirements and large tonnages.

- Powerful drives and modern spindle designs ensure excellent machining results
- Additional feed axis traversing max. 500 mm and simultaneous sawing for boosting productivity by up to 50%
- Two spindle configurations optimised for milling and drilling operations
- Automatic tool-change system with space for 12 tools per drilling axis ensures short setup times and greater flexibility
- Software macros for simple, fast programming when milling standard contours
- Carbide and solid carbide drills can be used to significantly reduce production times

KDM 615 | 1015

DYNAMIC PROCESSING FOR COMPLEX TASKS

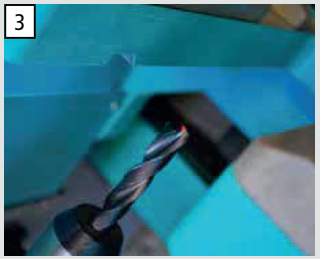



1

Sturdy, low maintenance system for optimum material clamping and longer tool life.


2

Powerful drives and modern spindle construction for high-performance machining.


3

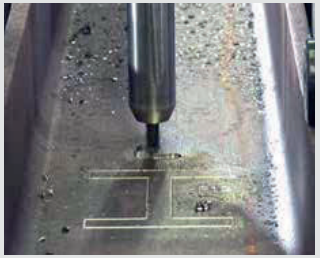
Tool length sensing with self-cleaning laser light barrier for low-maintenance operation plus high process reliability and short idle times.


4

Robust, low-vibration machine design for long service life and low maintenance and tool costs.

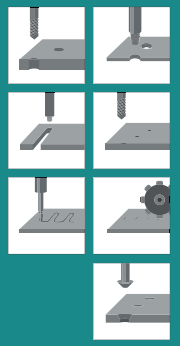

5

Automatic, reliable, low-maintenance tool changer with space for five tools per drilling axis.



Milling operations are easy to perform with macros and made more efficient through the use of KALTENBACH Power Tools.

TECHNICAL DATA	KDM 615	KDM 1015
Working range max. [mm]	600 x 500	1000 x 500
Working range min. [mm]	50 x 5	50 x 5
Machining unit	3	3
Max. speed [rpm]	2500	2500
Max. torque [Nm]	422	422
Drive power per axis [kW]	29.5	29.5
Feed [mm/min]	1500	1500
Positioning - rapid traverse [m/min]	11	11
Material transport speed [m/min]	30	30
Tool changer x magazine places	3 x 5	3 x 5
Cooling	internal + external	internal + external
Drill type	HSS, HM, VHM	HSS, HM, VHM
Drill diameter [mm]	6.8 - 50	6.8 - 50
Machine weight [kg]	6000	6500
Machine dimensions (L x W x H) [mm]	4570 x 1670 x 3750	5370 x 1670 x 3750





Drilling, thread-cutting, contour-marking, counter-sinking, milling of long holes and notches.



KDM 615 at Stahl- und Anlagenbau Schädlich GmbH.