

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.

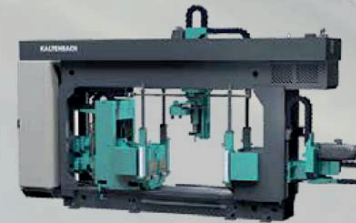
- ▶ Manual quick-change chuck and tool length measuring
- ▶ Tool-oriented processing minimises tool changes



KDM 615 | 1015

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

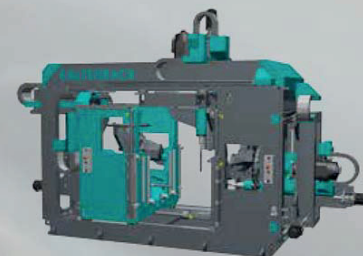
- ▶ Powerful drives and modern spindle construction for high-performance machining
- ▶ Automatic tool-change system with space for 5 tools per drilling axis
- ▶ Software macros for simple, fast programming when milling standard contours
- ▶ Carbide and solid carbide drills can be used to significantly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

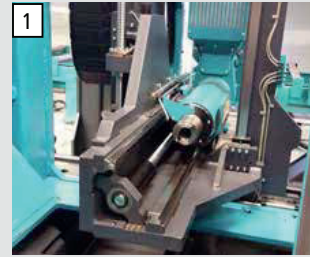
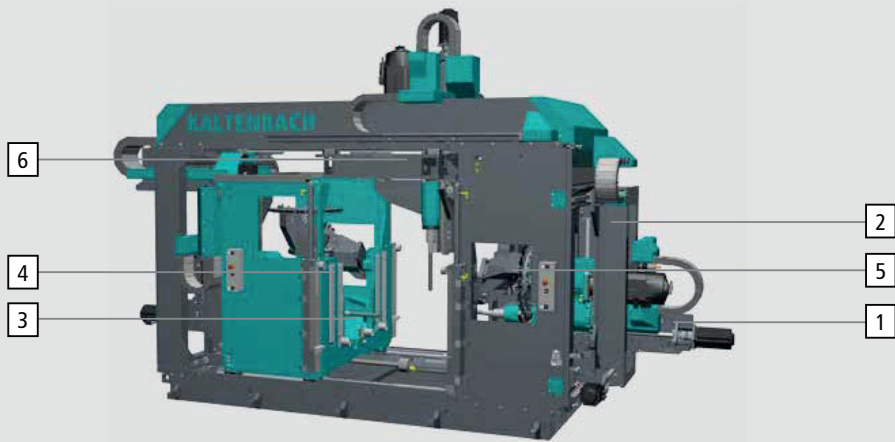
Fully automatic drilling machine for small, medium and large steel profiles for users with highly diverse machining requirements and large tonnages.

- ▶ 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

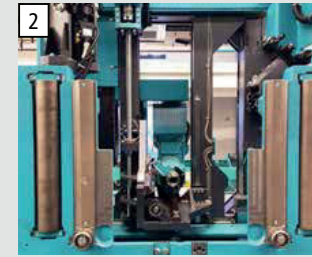
KDP 736 | 1036 | 1336

PRODUCTIVE, PARALLEL, VERSATILE MACHINING

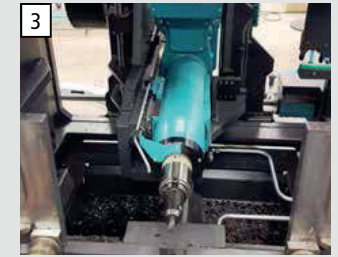
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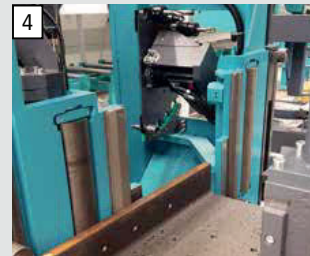
Powerful drill drive with gearbox for very high torques; ideal for the very latest drilling tool technologies and large diameters.



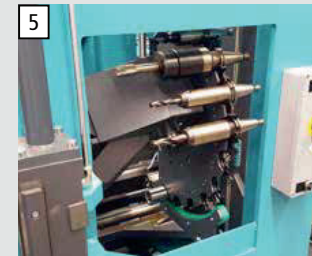
Drilling axes mounted directly on machine portal and clamping device ensure short traversing distances for shorter processing times and low-vibration machining.



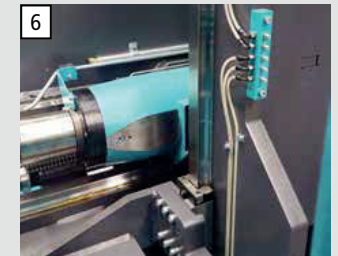
Additional feed axis traversing max. 500 mm in material flow direction so that a workpiece can be machined from all three sides simultaneously and independently.



Powerful clamping system based on a combination of rollers and clamping jaws to reduce vibrations and shorten throughput times.

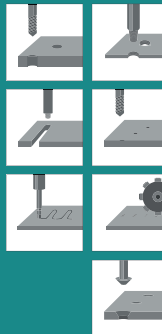


Large tool-changer with space for 12 tools per drilling axis to ensure short setup and tool-change times plus a good selection of tools.



Readily accessible centralised lubrication point for quick and simple maintenance.

TECHNICAL DATA	KDP 736	KDP 1036	KDP 1336
Working range max. [mm]	750 x 600	1030 x 600	1330 x 600
Working range min. [mm]	50 x 5	50 x 5	50 x 5
Machining unit	3	3	3
Max. speed [rpm]	3500 (5150)	3500 (5150)	3500 (5150)
Max. torque [Nm]	544 (368)	544 (368)	544 (368)
Drive power per axis [kW]	34.5	34.5	34.5
Feed [mm/min]	2000	2000	2000
Positioning - rapid traverse [m/min]	22	22	22
Material transport speed [m/min]	30	30	30
Tool changer x magazine places	3 x 12	3 x 12	3 x 12
Cooling	internal + external	internal + external	internal + external
Drill diameter [mm]	6.8 - 50	6.8 - 50	6.8 - 50
Machine weight [kg]	12900	13200	13500
Machine dimensions (L x W x H) [mm]	6260 x 2100 x 3900	6560 x 2100 x 3900	6860 x 2100 x 3900



Powerful parallel machining for drilling, countersinking, thread-cutting, milling, contour marking and centre-marking.



KDP 1336 in the KALTENBACH Technology Centre.