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.

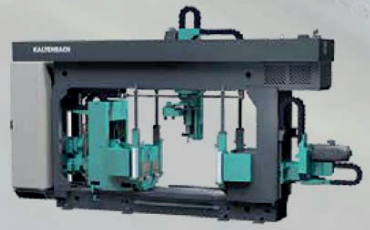
- Manual quick-change chuck and tool length measuring
- Tool-oriented processing minimises tool changes



KDM 615 | 1015

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

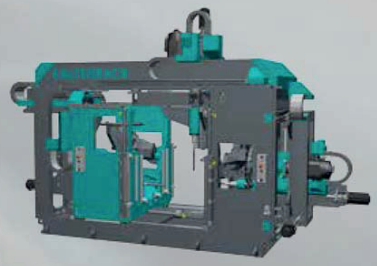
- Powerful drives and modern spindle construction for high-performance machining
- Automatic tool-change system with space for 5 tools per drilling axis
- Software macros for simple, fast programming when milling standard contours
- Carbide and solid carbide drills can be used to significantly reduce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

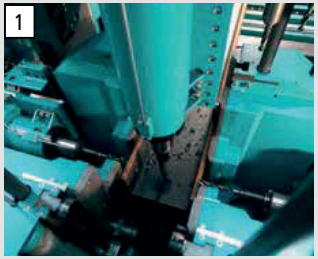
Fully automatic drilling machine for small, medium and large steel profiles for users with highly diverse machining requirements and large tonnages.

- 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

KDE 603 | 1003

THE SOLUTION FOR LIGHT TO MEDIUM-DUTY STEEL FABRICATION





Efficient drilling, contour-marking, centre-marking, counter-sinking and thread-cutting on all three drill axes.



Intelligent material measurement integrated into clamping system for greater process reliability.



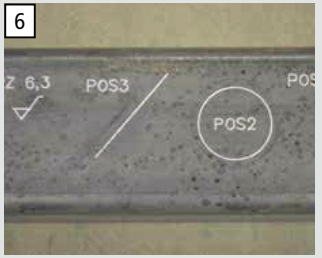
Quick-change chuck for simple, manual tool changes.



Swarf conveyor or swarf tray for convenient swarf removal.

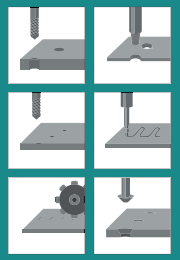


Servomotor and ball screw for exact drill axis positioning and feed control.



Contour marking of the material on up to four sides is possible in order to shorten downstream processes.

TECHNICAL DATA	KDE 603	KDE 1003
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]	1600	1600
Max. torque [Nm]	146.7	176.7
Drive power per axis [kW]	5	5
Feed [mm/min]	1500	1500
Positioning - rapid advance [m/min]	11	11
Material transport speed [m/min]	30	30
Cooling	internal + external	internal + external
Drill type	HSS	HSS
Drill diameter [mm]	6 - 31.75	6 - 31.75
Machine weight [kg]	3500	3800
Machine dimensions (L x W x H) [mm]	3510 x 1500 x 2470	3910 x 1500 x 2470



"Our KALTENBACH machines have enabled us to increase our productivity. KALTENBACH's comprehensive package is perfect and totally reliable."

Heinz Hirt, managing director of
Hirt Schlosserei und Metallbau GmbH



KDE 603 at Hirt Schlosserei und Metallbau GmbH.