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.

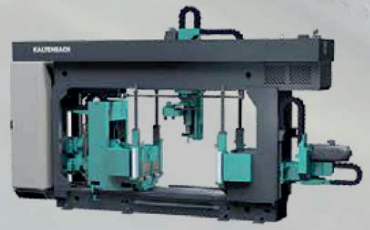
- Manual quick-change chuck and tool length measuring
- Tool-oriented processing minimises tool changes



KDM 615 | 1015

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

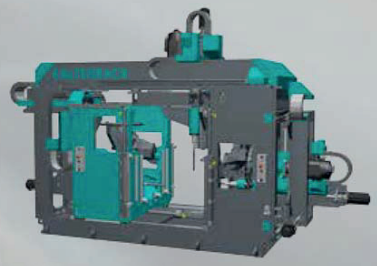
- Powerful drives and modern spindle construction for high-performance machining
- Automatic tool-change system with space for 5 tools per drilling axis
- Software macros for simple, fast programming when milling standard contours
- Carbide and solid carbide drills can be used to significantly reduce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



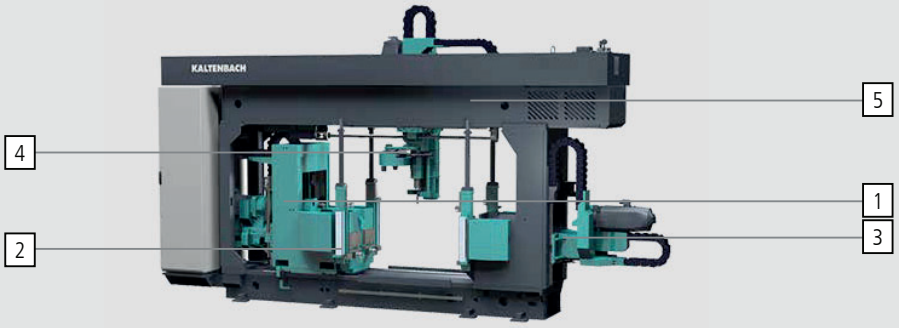
KDP 736 | 1036 | 1336

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

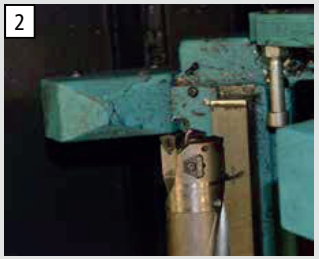
KDL 1318 | 2118

HIGH-PERFORMANCE FOR HEAVY-DUTY STEEL FABRICATION AND STEEL SERVICE CENTRES





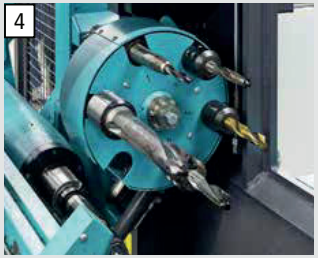
Tool change operation for simple and secure change of tools.



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



Machining axis with powerful drives travels with clamping device for greater rigidity and stability.

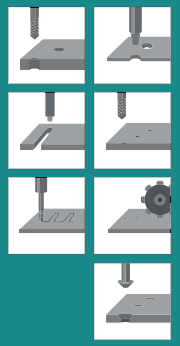


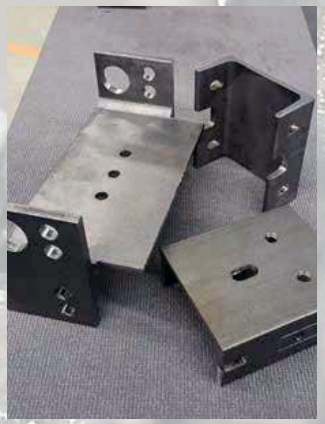
Automatic, reliable, low-maintenance tool changer with space for six tools per drilling axis.



Robust design for long machine life.

TECHNICAL DATA	KDL 1318	KDL 2118
Working range max. [mm]	1300 x 500	2100 x 700
Working range min. [mm]	60 x 10	60 x 10
Machining unit	3	3
Max. speed [rpm]	2500	2500
Max. torque [Nm]	544	544
Drive power per axis [kW]	34.5	34.5
Feed [mm/min]	2000	2000
Positioning - rapid traverse [m/min]	15	15
Material transport speed [m/min]	30	30
Tool changer x magazine places	3 x 6	3 x 6
Cooling	internal + external	internal + external
Drill type	HSS, carbide, solid carbide	HSS, carbide, solid carbide
Drill diameter [mm]	6.8 - 50	6.8 - 50
Machine weight [kg]	11600	14500
Machine dimensions (L x W x H) [mm]	6260 x 1190 x 3700	7750 x 1190 x 4000





Handles particularly large and heavy profiles with ease.



KDL 1318 at China Construction Second Engineering Bureau Co., Ltd.