

 > MADE IN GERMANY

GREAT COMBINATION

KBS 620 + KDE 603

SAW-DRILL-LINE

POWERFUL SOLUTIONS –
PASSIONATE PEOPLE



KALTENBACH



KBS 620 + KDE 603 SAW-DRILL-LINE



ADVANTAGES AT A GLANCE:

- ▶ Minimal production time
- ▶ Optimal automation solution for small and medium enterprises
- ▶ Best price-performance ratio
- ▶ Working range for profiles with a width of 50–600 mm
- ▶ Three drill axes from 6,8 – 31,75 mm
- ▶ DSTV-Interface, processing of NC-files from part list programs
- ▶ Mitre range $-45^{\circ}/90^{\circ}/+30^{\circ}$

HARD FACTS KBS 620 DG:

- ▶ Sawband: 6.175 x 41 x 1,3 mm
- ▶ Drive performance: 4 kW
- ▶ Cutting speed: 15–90 m/min
- ▶ Feedrate: 0–300 mm/min
- ▶ Rapid return movement: 2.500 mm/min
- ▶ Machine weight: 2.600 kg
- ▶ Machine dimension (L x W x H): 3.000 x 1.160 x 2.280 mm
- ▶ Working range
 - Max. 620 x 350 mm
 - Min. 10 x 10 mm
- ▶ Mitre range: $-45^{\circ}/90^{\circ}/+30^{\circ}$
- ▶ Tools: Bi-Metal



- 1 Electro-Mechanical Drill Feed (KDE 603)
- 2 Quick-Change Chuck with Tool Holder (KDE 603)
- 3 Saw-Band Drive / Saw-Band Feed (KBS 620 DG)
- 4 NC-Controlled Cutting-Angle Setting (KBS 620 DG)

HARD FACTS KDE 603:

- ▶ Feedrate: 10–1.500 mm/min
- ▶ Rapid return movement: 11.000 mm/min
- ▶ Machine weight: 3.500 kg
- ▶ Machine dimension (L x W x H): 3.520 x 1.500 x 2.470 mm
- ▶ Working range
 - Max. 600 x 500 mm
 - Min. 50 x 5 mm
- ▶ Drilling units: 3
- ▶ Drill diameter: 6,8–31,75 mm
- ▶ Number of tools per axis: 1
- ▶ Drive performance per axis: 5 kW
- ▶ Spindle speed max.: 200 – 1.600 min⁻¹
- ▶ Tools: HSS-Tools

Some of the listed features are optional. More information here:

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 > MADE IN GERMANY

WITH COMBINED FORCES

KBS 1051 DG + KDM 1015
SAW-DRILL-LINE

POWERFUL SOLUTIONS –
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KBS 1051 DG + KDM 1015 SAW-DRILL-LINE



- 1 Saw Band Drive (12,9 kW)/Saw Band Feed (KBS 1051 DG)
- 2 AFC – Auto Feed Control (KBS 1051 DG)



- 3 Tool change unit (KDM 1015)
- 4 High Speed Contour Marking (KDM 1015)

ADVANTAGES AT A GLANCE KBS 1051 DG:

- ▶ Vertical Saw in robust twin-column construction
- ▶ AFC (Auto Feed Control) variable saw band incline angle 3 – 10°
- ▶ Mechanical feed with ballscrew spindle and servomotor
- ▶ Self-adjusting profile clamping including cross-section measurement
- ▶ Machine operation via modern steel-construction software package

ADVANTAGES AT A GLANCE KDM 1015:

- ▶ Machine operation via modern steel-construction software package
- ▶ Efficient drilling, centre marking and counter-sinking (standard) – thread cutting (optional)
- ▶ Use of HSS, carbide and solid carbide drills
- ▶ Three drill axes with a total of 15 tools and automatic tool-changing system
- ▶ Combinable to a Saw-Drill-Line or a Coping-Robot
- ▶ High Speed Contour Marking (optional)
 - Application of reference boundaries for welding add-on pieces
 - DSTV-Data Import
 - Use of high-speed carbide tools
 - In addition to the three drill axis – marking from the bottom (4th axis)

HARD FACTS KBS 1051 DG:

- ▶ Sawband: 8.900 x 54 x 1,6 mm
- ▶ Drive performance: 12,9 kW
- ▶ Cutting speed: 15 – 150 m/min
- ▶ Feedrate: 0 – 600 m/min
- ▶ Rapid return movement: 6.000 m/min
- ▶ Machine weight: 5.800 kg
- ▶ Machine dimension (L x W x H): 4.370 x 1.435 x 2.650 mm
- ▶ Working range
 - Max. 1.030 x 500 mm
 - Min. 30 x 10 mm
- ▶ Mitre range: -40° / 90° / +30°
- ▶ Tools: Carbide/Bi-Metal

HARD FACTS KDM 1015:

- ▶ Feedrate: 0 – 1.500 mm/min
- ▶ Rapid return movement: 0 – 17.000 mm/min
- ▶ Machine weight: 6.500 kg
- ▶ Machine dimension (L x W x H): 5.400 x 1.700 x 3.800 mm
- ▶ Working range
 - Max. 1.000 x 500 mm (W x H)
 - Min. 50 x 5 mm (W x H)
- ▶ Drilling units: 3
- ▶ Drilling diameter: 6,8 – 40 mm
- ▶ Number of tools per axis: 5
- ▶ Drive performance per axis: 29,5 kW
- ▶ Spindle speed max.: 150 – 2.500 min-1
- ▶ Tools: Carbide/Solid Carbide/HSS

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 > MADE IN GERMANY

TWO STRONG MACHINES COMBINED

KBS 1301 + KDL 1318
SAW-DRILL-LINE

POWERFUL SOLUTIONS –
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KBS 1301 + KDL 1318 SAW-DRILL-LINE



- 1 Saw Band Drive/
Saw Band Feed
(KBS 1301)
- 2 Horizontal and Vertical
Profile Clamping
(KBS 1301)



- 3 Tool Change Unit
(KDL 1318)
- 4 High Speed Contour
Marking (KDL 1318)

ADVANTAGES AT A GLANCE KBS 1301:

- ▶ Vertical saw in robust twin-column construction
- ▶ Single, layer and bundle cuts
- ▶ Excellent band life and the best cutting quality due to an inclined saw band
- ▶ High cutting performance due to a powerful drive motor
- ▶ NC-controlled cutting-angle setting
- ▶ Machine operation via modern steel-construction software package

HARD FACTS KBS 1301:

- ▶ Saw band: 9.800 x 67 x 1,6 mm
- ▶ Drive performance: 9,2 kW
- ▶ Cutting speed: 15–100 m/min
- ▶ Feedrate: 0–300 m/min
- ▶ Machine weight: 7.000 kg
- ▶ Machine dimension (L x W x H): 5.010 x 1.650 x 3.105 mm
- ▶ Working range
 - Max. 1.300 x 700 mm
 - Min. 50 x 15 mm
- ▶ Mitre range: -45°/90°/+30°
- ▶ Tools: Bi-Metal

ADVANTAGES AT A GLANCE KDL 1318:

- ▶ Clear and easy machine operation
- ▶ Simplified tool change
- ▶ Reduced tool change time during operation, due to tool changing device with disk magazine fixed at the drill carriage
- ▶ Minimum quantity lubrication system (booster system) for optimal internal and external cooling
- ▶ Automatic drill length measuring during running process, without additional non-productive time

HARD FACTS KDL 1318:

- ▶ Feedrate: 0–5.000 mm/min
- ▶ Rapid return movement: 0–15.000 mm/min
- ▶ Machine weight: 11.600 kg
- ▶ Machine dimension (L x W x H): 6.260 x 1.190 x 3.700 mm
- ▶ Working range
 - Max. 1.300 x 500 mm (W x H)
 - Min. 60 x 10 mm (W x H)
- ▶ Drill units: 3
- ▶ Drill diameter: 8–50 mm
- ▶ Number of tools per axis: 6
- ▶ Drive performance per axis: 34,5 kW
- ▶ Spindle speed max.: 150–2.500 min⁻¹
- ▶ Tools: Carbide/Solid Carbide/HSS

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**HIGH PERFORMANCE
3 AXIS DRILLING AND
MACHINING.**

**KDP SERIES
PROFILE DRILLING MACHINES**

POWERFUL SOLUTIONS –
PASSIONATE PEOPLE



KALTENBACH

KDP SERIES

PROFILE DRILLING MACHINES



The KDP series (**K**ALTENBACH **D**rilling **P**erformance) offers three machine models and a maximum material width capacity of 750 mm, 1030 mm and 1330 mm, respectively. The machines are optimised for use with our high-performance band saws to give the highest levels of performance and automation. A key advantage of the KDP series is that the drilling axes have a movement range of 500 mm along the material length. This boosts productivity by up to 50%, through the ability of each axis to independently carry out drilling and milling operations without the need to adjust the material position.

The KDP series can be used with standard, heavy duty spindles or an alternative version, specifically designed for a higher proportion of milling work. Both are complimented with large, 12 position tool changers on each axis, providing increased capacity to permit a wide range of processes.

ADVANTAGES AT A GLANCE:

- ▶ Efficient drilling, centre-marking, milling, contour marking, counter-sinking and thread-cutting on all 3 axes simultaneously
- ▶ Axes able to move by 500 mm to boost productivity by up to 50%
- ▶ Powerful indirect drive concept for high-performance machining
- ▶ Two spindle options to optimise the machine for the customers' process requirements
- ▶ Large, 12 position tool changers on each axis, ensuring process versatility with low setup times
- ▶ Robust clamping system and spindle design to reduce vibration and extend tooling life
- ▶ Modern software package for simple programming, efficient nesting, flexible evaluation and production data reporting
- ▶ Sturdy machine construction to guarantee a long service life and high return on investment
- ▶ Low-maintenance lubrication concept, with grouped lubrication points for easy access during maintenance

HARD FACTS:

- ▶ Working range
 - max. 750/1030/1330x600 mm (W x H)
 - min. 50x5 mm (W x H)
- ▶ Number of drilling axes: 3
- ▶ Drive power per axis: 34.5 kW
- ▶ Drill diameter: max. 50 mm
- ▶ Spindle speed: max. 5150 RPM
- ▶ Number of tools per drilling axis: 12
- ▶ Drilling axis speed: max. 22 m/min



Robust clamping system and large tool changer.



Solid spindle guide ideal for lateral milling force.

More information:

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