

THERMAL CUTTING OF SHEET STEEL

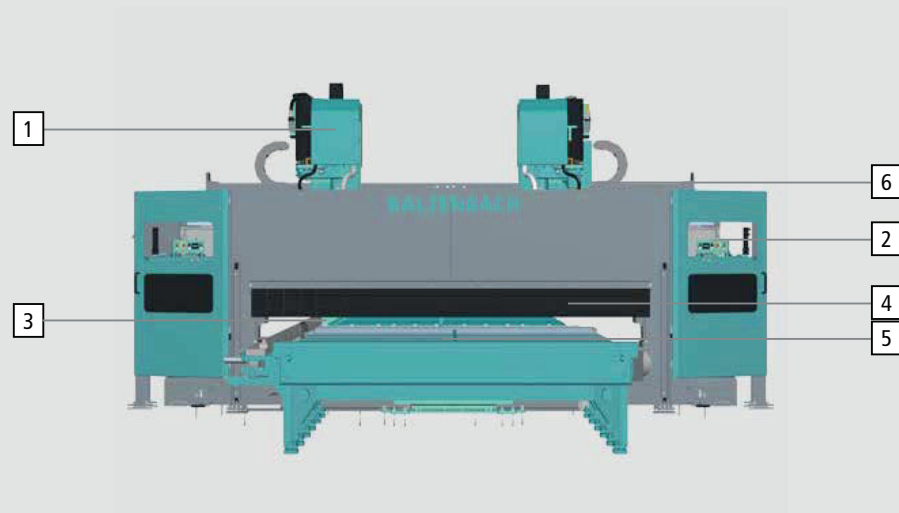
KALTENBACH PLATE PROCESSING CENTRES

KF 1614 | 2114/28 | 2614/28 | 3114/28

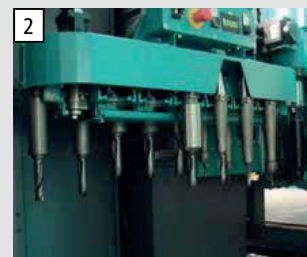
- ▶ For drilling, milling, thread-cutting, counter-sinking, centre-marking, contour-marking and plasma or oxy-fuel cutting sheet steel
- ▶ Powerful drill spindle with high torque; ideal for the very latest drilling tool technologies and large diameters
- ▶ Measuring carriage takes up little space
- ▶ Fast axis traversing speeds
- ▶ Durable designs provide the basis for this long-term investment
- ▶ Professional software suite from Lantek
- ▶ Common cut and cross-cut technology ensures less wastage
- ▶ Four different models to cover the 1600, 2100, 2600 and 3100 plate widths – easily adapted to customer specifications
- ▶ Powerful milling operations with optional hold-down roll and different milling strategies in order to do justice to the requirements of different milling tools and to enable more efficient, more cost-effective production
- ▶ Optional hard marking unit for fast marking operations
- ▶ Use of oxy-fuel and/or plasma cutting methods
- ▶ High spindle speeds ideal for milling
- ▶ 14-place tool changer for faster setup times
- ▶ Measuring carriage at the side runs through the machine to optimise plate fixation throughout the entire machining process
- ▶ Two processing units for parallel machining and higher efficiency
- ▶ Fully automatic handling of small parts
- ▶ Rotating swarf brush for automatic clearing of chips in front of cutting processes
- ▶ Various infeed/outfeed transport options for more effective material flows
- ▶ Automatic material and tool sensing

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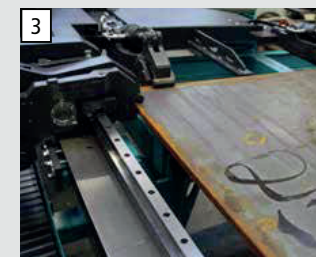
THE MACHINE FOR VERSATILE AND PRODUCTIVE PLATE PROCESSING



Second machining unit available as an option for increasing productivity by up to 100%.



14-place tool changer per axis for faster setup times.



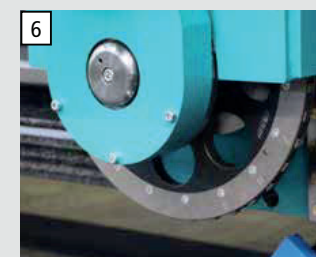
Two measuring carriages measure plates automatically and position them exactly. Material fixed by side grippers that pass through the machine portal.



Prior to the thermal cutting process, a special brush removes swarf automatically and reliably to ensure good thermal cutting and reduce the risk of wear.

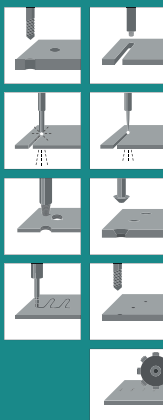


Fast, automatic ejection of small parts for greater automation and machine utilisation.



Fast, reliable marking system for short production times and good traceability.

TECHNICAL DATA	KF 1614	KF 2114 /28	KF 2614 / 28	KF 3114 /28
Plate starting material max. [mm] (optional)	1600 x 6000 (12000)	2100 x 6000 (12000)	2600 x 6000 (12000)	3100 x 6000 (12000)
Plate starting material min. [mm]	220 x 500	220 x 500	220 x 500	220 x 500
Plate thickness, starting material [mm]	6 - 100	6 - 100	6 - 100	6 - 100
Machining unit	1	1/2	1/2	1/2
Max. speed [rpm]	3500 (5150)	3500 (5150)	3500 (5150)	3500 (5150)
Max. torque [Nm]	544 (368)	544 (368)	544 (368)	544 (368)
Spindle drive power [kW]	34.5	34.5	34.5	34.5
Spindle feed [mm/min]	0 - 2000	0 - 2000	0 - 2000	0 - 2000
Machining unit – positioning – rapid traverse [m/min]	24	24	24	24
Material transport speed [m/min]	30	30	30	30
Tool changer x magazine places	1 x 14	1/2 x 14	1/2 x 14	1/2 x 14
Drill type	HSS, carbide, solid carbide	HSS, carbide, solid carbide	HSS, carbide, solid carbide	HSS, carbide, solid carbide
Cooling	internal + external	internal + external	internal + external	internal + external
Drill diameter range [mm]	6.8 - 50	6.8 - 50	6.8 - 50	6.8 - 50
Thread diameter range [mm]	M8 - M30	M8 - M30	M8 - M30	M8 - M30



Drilling, counter-sinking, milling, thread-cutting, contour-marking, hard stamping and thermal cutting on a single machine.



KF 2128 at H. Hardeman BV.