

*Bandsaws for Steel*

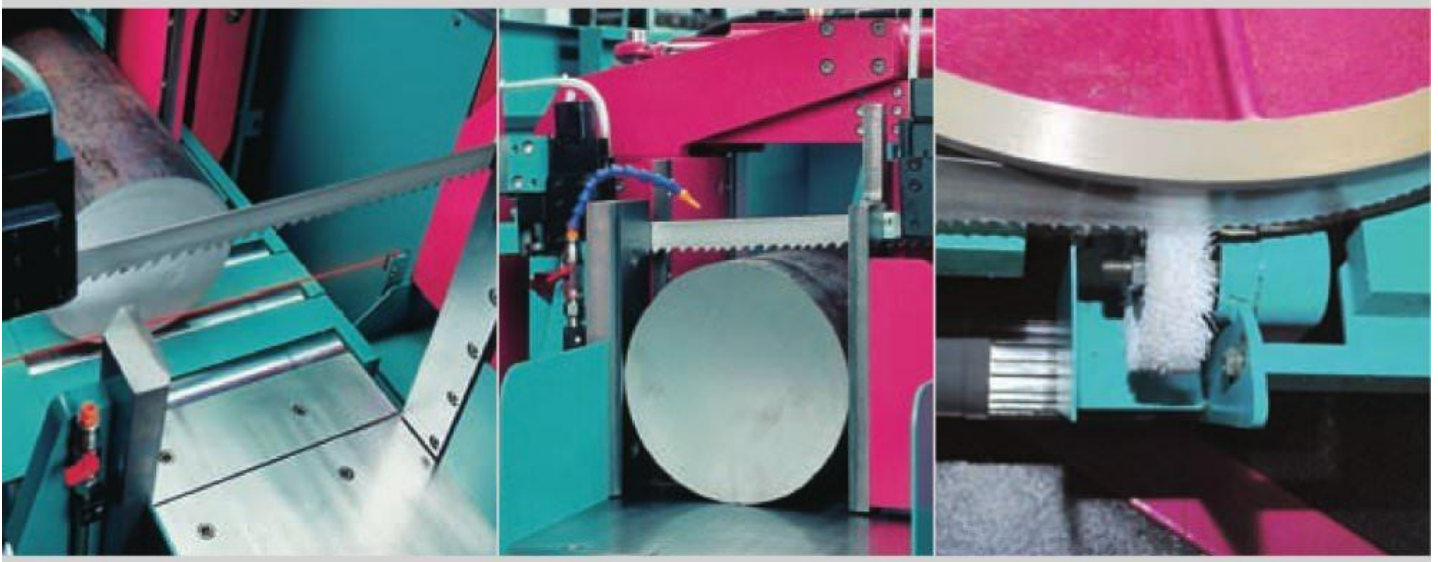
# KBR High-Performance Production Bandsaws



**KALTENBACH**

*KBR High-Performance Production Bandsaws*

# Effortless Cutting at Maximum Productivity



Setting of trim length via laser barrier.

### Horizontal vice

Safe material clamping by horizontal vice with adjustable clamping pressure.

### Saw band feed

Saw band feed is infinitely adjustable from the operator control panel: either constant feed rate (e.g. for solid material) or constant cutting force (e.g. for sections/tubes). Electro-hydraulic monitoring of feed rate/cutting pressure adapts to the combination of material, cutting speed and saw band geometry.

### Chip removal brush

- Efficient chip removal via independently driven chip brush



Simple machine setup and operation.



### Linear guide technology

Pre-tensioned and backlash-free linear bearings ensure precision movements. Kaltenbach uses this technology in all essential units like the saw frame, vices, material feed gripper and sawband guide. Linear guides offer decisive advantages compared with round columns:

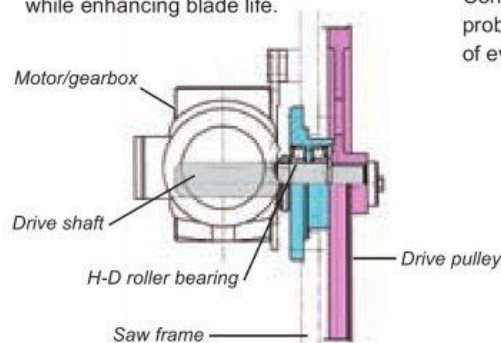
- No backlash
- Low maintenance
- Precision
- High degree of rigidity
- No slip-stick

### Sawband drive

The sawband drive via a frequency-controlled motor ensures maximum performance at the sawband. The cutting speed may be infinitely adjusted at the operator control panel. The conical spur gear guarantees minimum wear and very quiet running.

### STS bandwheel drive system

Independent mounting of driven bandwheel, in a large double-taper roller bearing ensures vibration-free sawing and protects the gearbox – while enhancing blade life.



### Material feed unit

Material feed via ball screw and NC control for precise cut-off lengths up to 9999 mm (multiple stroke). Automatic recognition of bar end.

### Roller table



Continuous infeed roller table for problem-free loading and unloading of even short material lengths.

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# Material Pre-Storage and Outfeed Sorting Systems



Shuttle type infeed conveyor.

Automatic distribution of cut parts to pre-selectable push off positions via a cross moving plate.

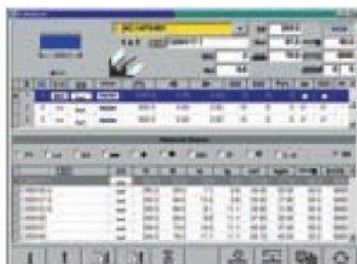


KBR machine connected to a storage system. The saw is automatically supplied with material by the system according to pre-programmed cut orders.

KBR Automatic bandsaws can optionally be fitted with an output gripper and sorting system (ABG).

The output gripper clamps the part during the cut and afterwards removes it from the cutting zone. Trim cuts and remnants are automatically sorted from good parts.

Good parts are deposited into pre-programmed bin or stillage locations (bins/stillages supplied by customer)







All setup, operation and programming on KBR machines is via a touchscreen using PROFICUT software running in MS-WINDOWS.

### PROFICUT Main Features:

- Connection to a network or connection to upstream /downstream machinery
- Graphic input of part dimensions

- Save materials or parts in respective databases
- Display of bar length, bar end and usable bar length
- CNC calculation of speeds and feeds, based on material groups or DIN No. (steel code)

Technical Data			KBR 371 H / KBR 371 NA / KBR 371 NA ABG	KBR 460 H / KBR 460 NA / KBR 460 NA ABG	KBR 550 H / KBR 550 NA / KBR 550 NA ABG
Band dimensions		mm	5.920 x 41 x 1, 3	7.470 x 54 x 1,3	7.820 x 54 x 1,6
Drive capacity					
- Standard		kW	5,5	7,5	9,2
- optional			9,2	15,0	15,0
Cutting speeds infinitely variable					
- Standard		m/min	15 - 120	15 - 120	15 - 120
- optional			10 - 70 / 20 - 200	10 - 70 / 20 - 200	10 - 70 / 20 - 200
Materialnachschieb (NA / NA ABG)					
- single stroke		mm	10 - 760	10 - 760	10 - 760
- multiple stroke max.			9.999	9.999	9.999
Remnant length					
- single stroke			10	10	10
- multiple stroke max.	NA	mm	30	30	30
	NA ABG		100	100	100
Dimensions (L x W x H)					
H			930 x 2.850 x 2.290	1.080 x 3.660 x 2.570	1.080 x 3.660 x 2.710
NA		mm	2.220 x 2.850 x 2.290	2.320 x 3.660 x 2.570	2.320 x 3.660 x 2.710
NA ABG			6.200 x 3.760 x 2.290	7.000 x 4.610 x 2.570	7.000 x 3.660 x 2.710
Weight					
H			2.900	5.000	6.300
NA		kg	4.200	7.500	7.800
NA ABG			6.600	10.800	11.100
Working height		mm	720	720	720
 		mm	400	460	550
 		mm	400 x 370	600 x 460	600 x 550

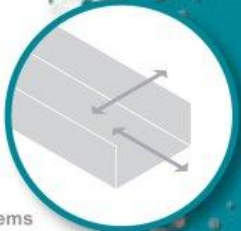
Accessories		KBR 371 H / KBR 371 NA / KBR 371 NA ABG	KBR 460 H / KBR 460 NA / KBR 460 NA ABG	KBR 550 H / KBR 550 NA / KBR 550 NA ABG
Automatic feed/cutting pressure control		■	■	■
Frequency-regulated drive		■	■	■
Horizontal double vice		■ / ○ / -	■ / ○ / -	■ / ○ / -
Hydraulic vertical vice		○	○	○
Clamping pressure control		■	■	■
Flood coolant system		■	■	■
Coolant atomizer system		○	○	○
Chip conveyor		○ / ○ / ■	○ / ○ / ■	○ / ○ / ■
Band deflection monitor		○ / ○ / ■	○ / ○ / ■	○ / ○ / ■
Trim cut setting via laser light barrier		- / ■ / ■	- / ■ / ■	- / ■ / ■
Trim cut plate for layers and bundles		- / ○ / ○	- / ○ / ○	- / ○ / ○
NC control unit		- / ■ / ■	- / ■ / ■	- / ■ / ■
Electrically driven passage of material		- / ○ / ○	- / ○ / ○	- / ○ / ○
Retract fixed clamping jaw		○	○	○

■ Standard

○ Option

- Not available

# KALTENBACH Metall Working Systems: The Full Range.



Transport Systems



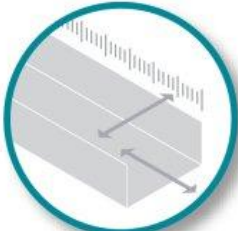
Band- and Circular-  
Sawing Machines



Drilling Machines



Robotic Coping  
Machines



Measuring  
Systems



Contour Marking



Plate Processing  
Centers



Punching/Shearing  
Machines



*In addition to an standard  
extensive programm  
KALTENBACH offers special  
solutions for metal working. Ask for our  
brochure as well as any additional information  
you might require.*



**Kaltenbach GmbH + Co. KG**  
Postfach 17 40  
D-79507 Lörrach  
Blasiring 4  
D-79539 Lörrach

Tel.: +49 (0) 7621 / 175-0  
Fax: +49 (0) 7621 / 175-477

info@kaltenbach.de  
www.kaltenbach.com