



*Band Saws for Steel and Aluminium*

## **KBC High Performance Band Saws**



**KALTENBACH**



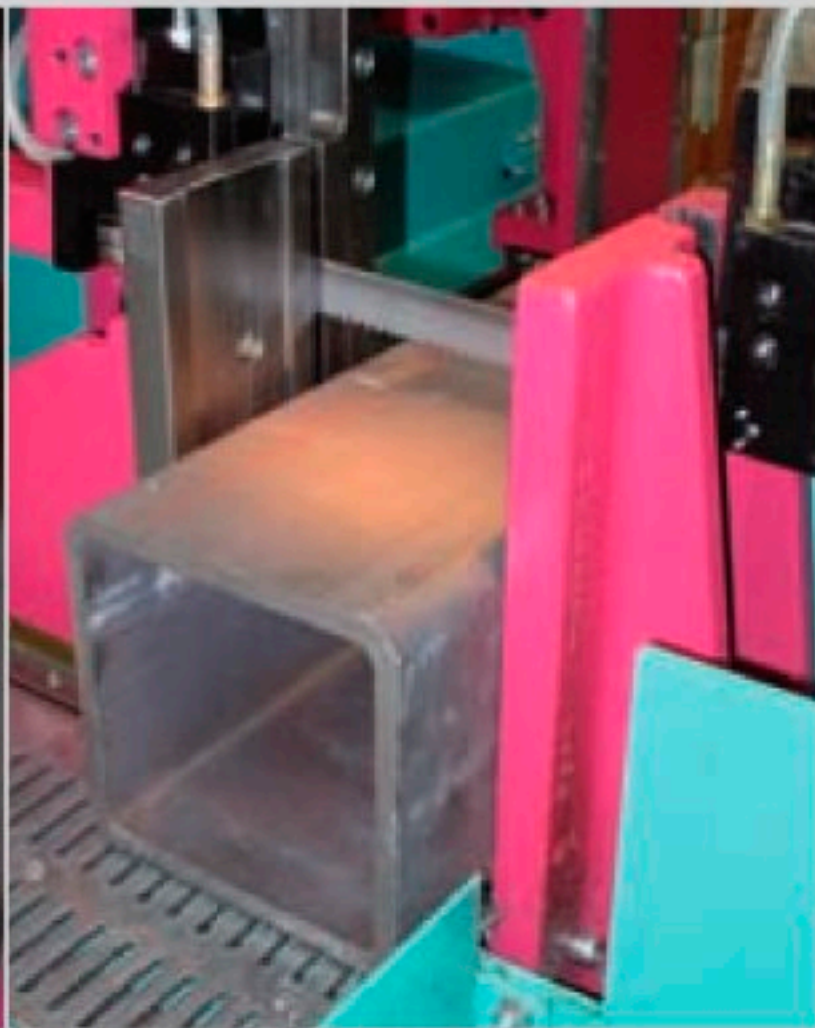
Compact High Performance Band Saws KBC

# Efficient Straight Cutting



Safe and precise sawing of single bars up to max. 410 mm as well as layers and bundles

*The high performance KBC band saws are perfectly designed for precise straight cuts on solid materials and sections, in layers and in bundles.*



Safe material clamping by hydraulic double clamps

The heavy-duty compact construction and easy-to-operate machine controls characterise this machine type.







The more interesting point is the potential saving rate regarding cycle times, material and financial aspects due to the minimal rest piece length of only 70 mm in automatic operation.

High cutting quality and exact cut-off lengths minimise the material allowance and the following finishing processes.



Vertical clamping unit for processing layers and bundles

- Main features of KBC bandsaws:**
- **High performance**  
due to frequency-controlled saw drive with infinitely variable cutting speeds
  - **Double column guided**  
for superior smoothness
  - **Superior cut quality**  
due to hydraulic feed and cutting pressure control
  - **Long blade life**  
due to the efficient cooling by flood lubrication or coolant atomiser system (option)

3 sizes for high flexibility			
Typ	 	 	 
KBC 280 NA	280 mm	400 x 280 mm	400 x 280 mm
KBC 350 NA	350 mm	400 x 350 mm	400 x 350 mm
KBC 410 NA	410 mm	410 x 410 mm	410 x 410 mm





### **Complete housing**

*to assure optimum chip flow and clean machine surroundings. Good accessibility for saw blade change and maintenance.*

Figure:  
KBC 410 NA



### **Machine body**

*Heavy duty torsion-resistant complete-steel version.*

*High cutting performance and precision by inclination of the saw band.*







#### **Saw band guides**

- With tungsten carbide plates
- Combined with guide rollers
- Automatic adjustment of the movable guidance in accordance with material width
- Guide arm running in backlash-free linear guide
- Band back guide with pendular working tungsten carbide plates

#### **Hydraulic horizontal clamp as double clamping vice**

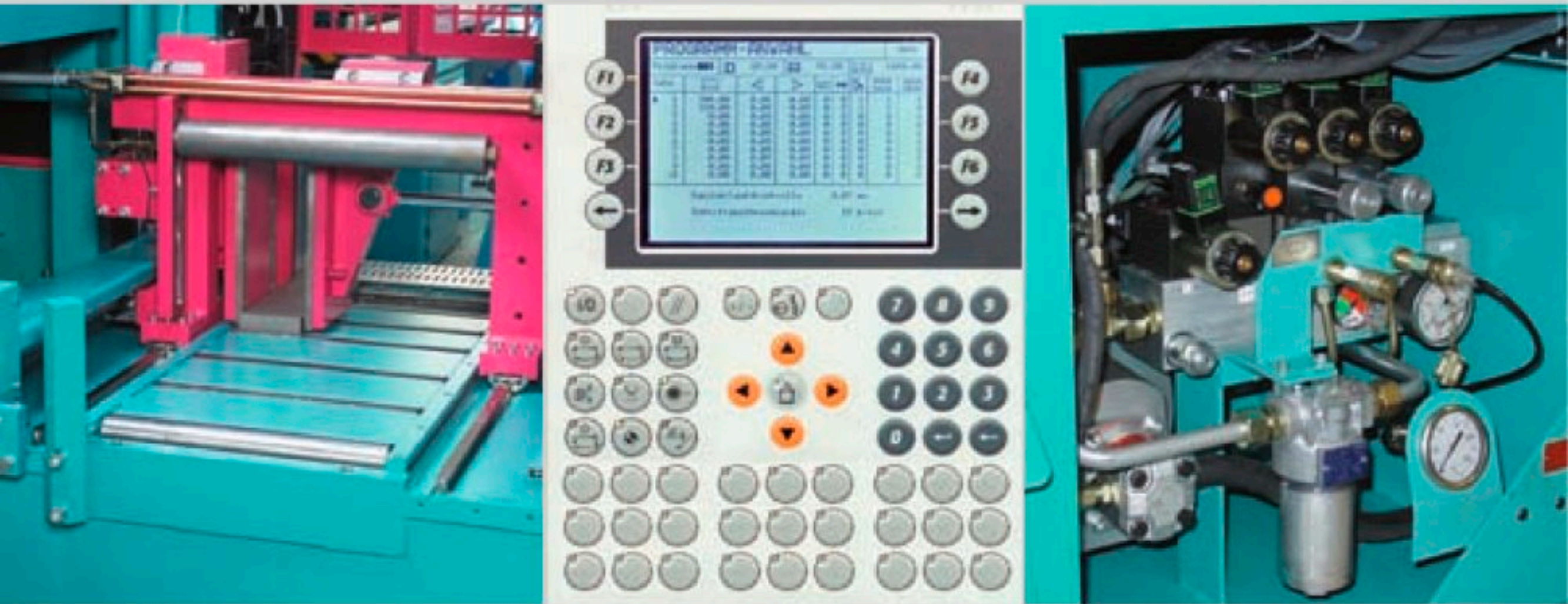
- Universal use for single bars, layers and bundles
- No presetting due to safe clamping with long stroke cylinder and clamping strips
- High cutting quality
- virtually zero burr

#### **Chip conveyor**

- For continuous chip removal
- Mounted at the left or right side of the machine
- Electrically driven
- Standard equipment for KBC 410 NA, optional equipment for KBC 280 NA and KBC 350 NA



# Sawing by Itself – With Maximum Efficiency



## Material feed gripper

- Precise positioning by servomotor and ball screw spindle
- Multiple stroke system
- Automatic material end recognition
- Rear gripper with short stroke clamping cylinder for „contactfree“ return movement
- Roller conveyor with 6 rollers (KBC 280 NA and KBC 350 NA) resp. 7 rollers (KBC 410 NA) integrated in material feed carriage with intermediate plates for the safe transport of short bars

## Integrated operation panel with NC control

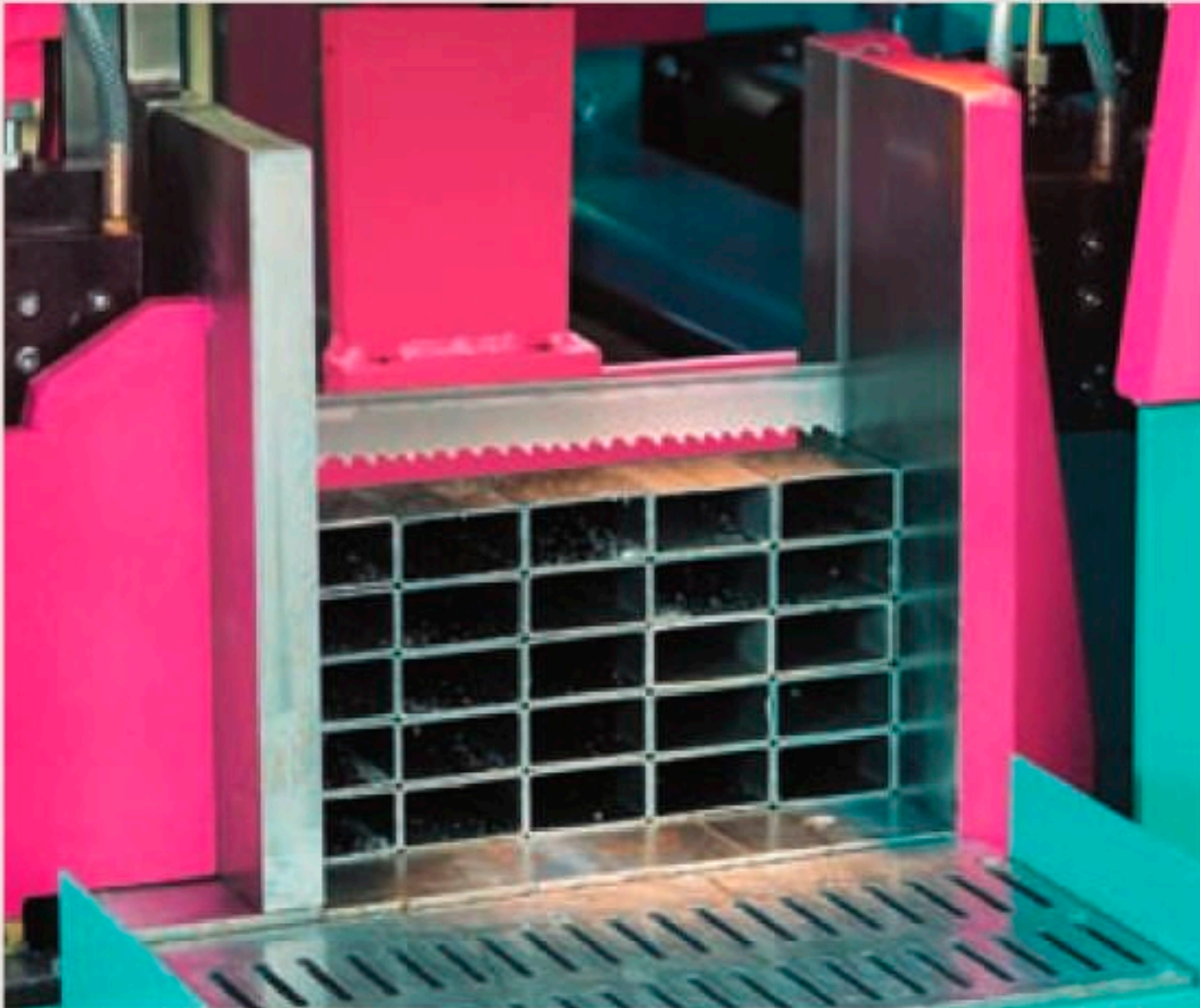
- Easy-to-operate, fast-to-program
- Programming of 20 programmes, each up to 99 sets
- Fully automatic motorised length setting
- Subtracting piece counter with fully automatic switch-off function
- Calculation of band width, stroke length and number of strokes in multiple stroke operation
- Displaying of total machine running time and working time of the saw band

## Hydraulic power pack

- Dimensioned for fast movements
- Large oil tank capacity
- Easily accessible for maintenance operations



# Optional Equipment for Your Security



## Vertical clamp

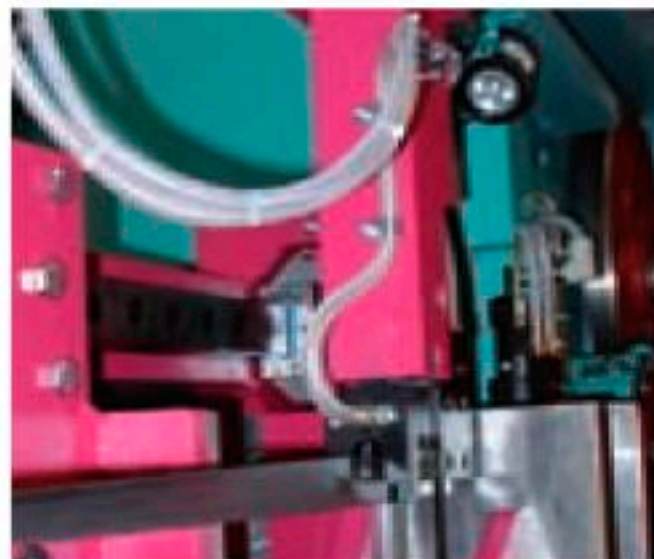
- for the safe processing of layers and bundles
- for the saw (on input side) and for the material infeed gripper

## T9 Roller Conveyor



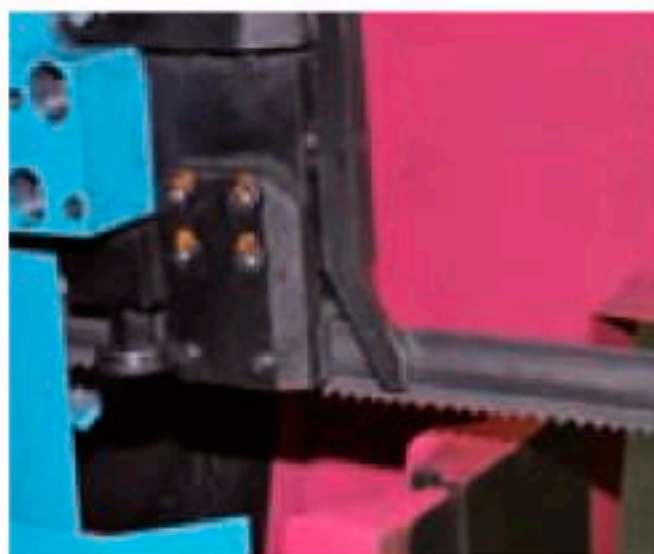
*Roller conveyor in heavy-duty construction in single segment to made up of a solid welded assembly with maintenance-free, ball bearing transport rollers of solid material.*

## Machine lamp



*for well-illuminated working area.*

## Cutting course monitoring system








*Control of saw band deflection regarding blunting*

## Coolant atomiser system



*Optimal cooling and lubrication of saw band.*



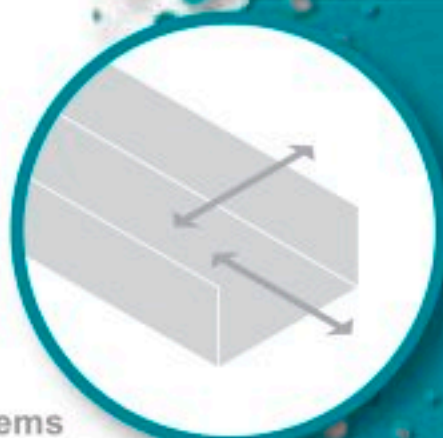
Technical data		KBC 280 NA	KBC 350 NA	KBC 410 NA
Saw band	mm	5.100 x 34 x 1,1	5.100 x 34 x 1,1	5.920 x 41 x 1,3
Drive capacity	kW	3,0	3,0	4,0
Cutting speeds (infinitely variable)	m/min	15 - 90	15 - 90	15 - 120
Cut-off lengths - single stroke - multiple stroke	mm	6 - 610 9.999	6 - 610 9.999	6 - 610 9.999
Bar end length - in manual mode - in automatic mode	mm	10 70	10 70	10 70
Dimensions - Length - Width - Height	mm	1.520 2.450 1.850	1.520 2.450 1.850	1.620 3.310 2.070
Weight	kg	2.800	2.900	3.300
Working height	mm	720	720	720
 	mm	280	350	410
  	mm	400 x 280	400 x 350	410 x 410

Equipment	KBC 280 NA	KBC 350 NA	KBC 410 NA
Hydraulic feed / cutting pressure control	■	■	■
Frequency-controlled saw band drive	■	■	■
Horizontal double clamping vice	■	■	■
Hydraulic vertical clamp	○	○	○
Splash lubrication	■	■	■
Coolant atomiser system	○	○	○
Saw band guide with tungsten carbide plates	■	■	■
Band deflection monitor	○	○	○
Clamping pressure reduction	○	○	○
Chip removal brush	■	■	■
Trim cuts device	■	■	■
Laser light barrier	○	○	○
Horizontal load down roller for mat. feed gripper	○	○	○
Chip conveyor	○	○	■
Tiltable chip wagon (180 l)	○	○	○
Machine lamp	○	○	○

■ Standard    ○ Option



# KALTENBACH Metal Working Systems: The Full Range.



Transport Systems



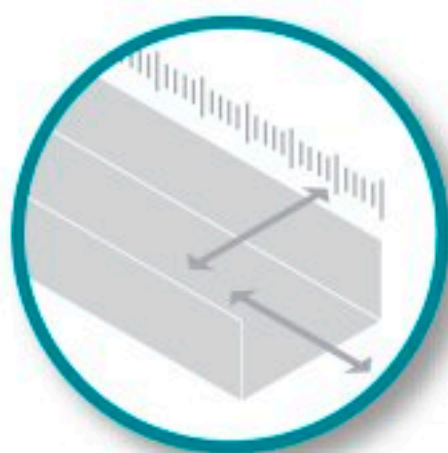
Band- and Circular-  
Sawing Machines



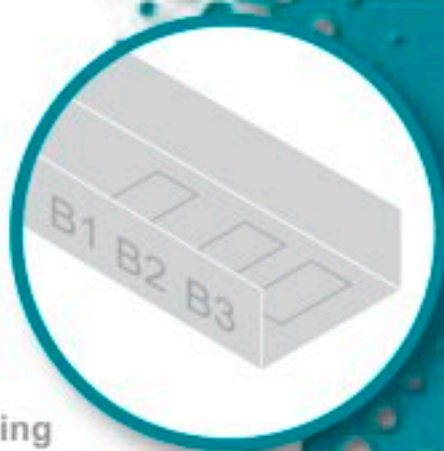
Drilling Machines



Robotic Coping  
Machines



Contour Marking



Punching/Shearing  
Machines

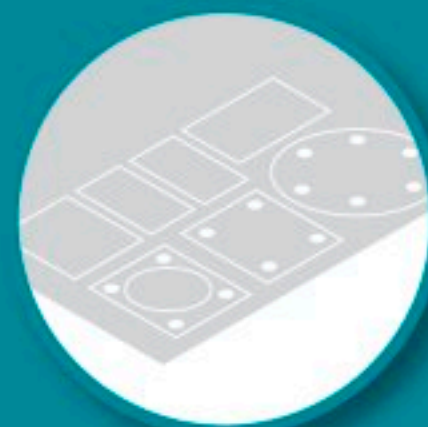


Plate Processing  
Centers

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