OFFER LIST

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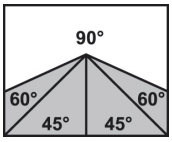
ARG 1100 DC GR



6760 x 34 x 1,1

	90°
■	1100 x 100 (400)

Main motor	400 V, 50 Hz, 4 kW
Saw blade speed	50-200 m/min.
Saw band guiding wheels diameter	540 mm
Angle of band output	0°
Working height of vice	880 mm
Hydraulic system oil	cca 20 l (ISO 6743/4-HM, DIN 51 524 část 2-HLP)
Machine dimensions (min.)	1470 x 3300 x 1860 mm
Machine dimensions (max.)	9400 x 3300 x 1860 mm
Machine weight	2800 kg

DESCRIPTION

Dual-column band saw is designed for cutting sheet material such as metal grids or large metals or other materials. The machine allows only perpendicular cuts. Massive dual-column support of the saw band arm moving on linear guidance and sturdy construction of the saw band arm ensure excellent stiffness of the whole system, accurate cutting and long service life even in continuous operations. In comparison with standard band saws with saw band speed of ca. 40–80 m/min. the industrial cutting of grids requires high saw band speed, up to 200 m/min. For this reason the machine is fitted with large-diameter running wheels. That reduces the stress on the saw band and ensures its high service life even at high cutting speeds.

Vertical fixtures behind and before the cut allow for ideal clamping of large materials. They reliably clamp the material along the entire length of the cut. In order to facilitate optimum seating they are fitted with replaceable rubber belts on the lower side. All this prevents unwanted vibrations when cutting and increases the service life of the saw band.

Standard cutting height 200 mm and width 1100 mm The height and width can be increased depending on the requirements.

The machine is equipped with a high-performance industrial hydraulic unit. Pressing a single switch will execute complete cutting cycle – material clamping, uplift of the hinged stop on the conveyor, saw band start, cutting, saw band stop, arm uplift to the original adjustable position and unclamping vices. Both saw band guiding heads are fitted with automatic regulation of feed into cut, which significantly increases the rate and accuracy of cutting and service life of the saw band. Hydraulic unit allows you to set the required pressure of vertical clamps. When you switch to the manual mode you can control all functions separately. Setting the optimum saw band speed by a frequency converter within the range from 50 m/min. up to 200 m/min. contributes to the achievement of maximum productivity. Saw band tensioning by a manual hydraulic pump ensures optimum tension and control of it during the operation of the machine. Optimum tensioning of the saw band is essential for its service life and cutting accuracy.

Special roller conveyors facilitate the easiest possible manipulation with large materials and they help to achieve maximum productivity:

S 1100 – length 2960 mm, width 1200 mm

• Basic roller conveyor. Both installation before and after the cut possible. Manual material feed.

SP 1100 – length 2960 mm, width 1200 mm

• Motor-driven rollers for material feed. Both installation before and after the cut possible.

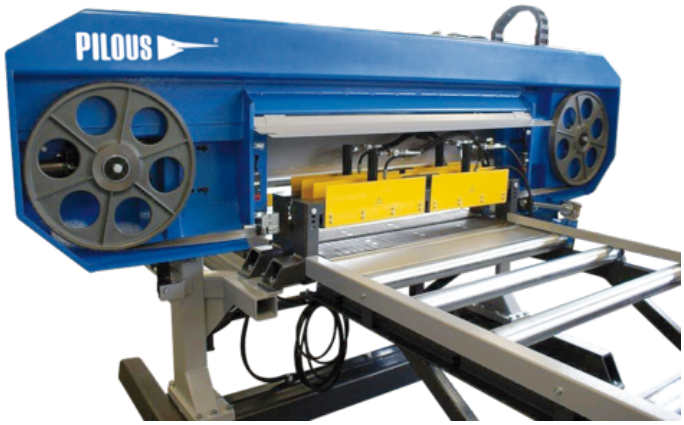
SA 1100 – length 3140 mm, measuring length 2500, width 1200 mm.

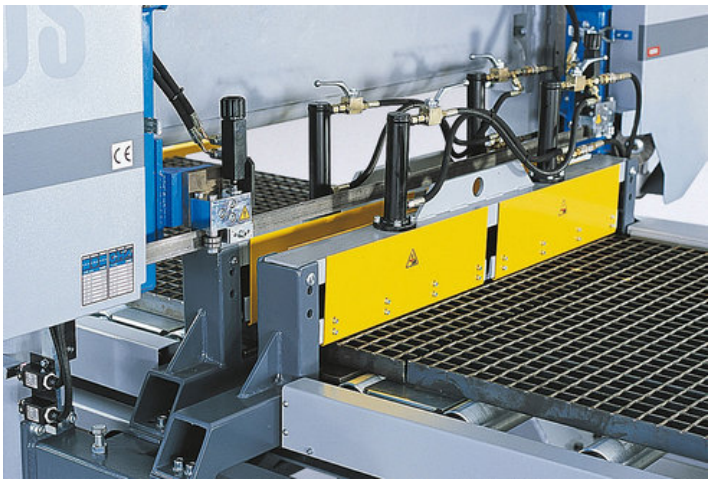
• With electrically powered measuring device. Large stop along the whole width of the conveyor can be folded hydraulically which prevents material from jamming. You can carry out required length setting from the central control panel of the machine. The operating cycle is automatically synchronized with the whole operating cycle of the band saw.

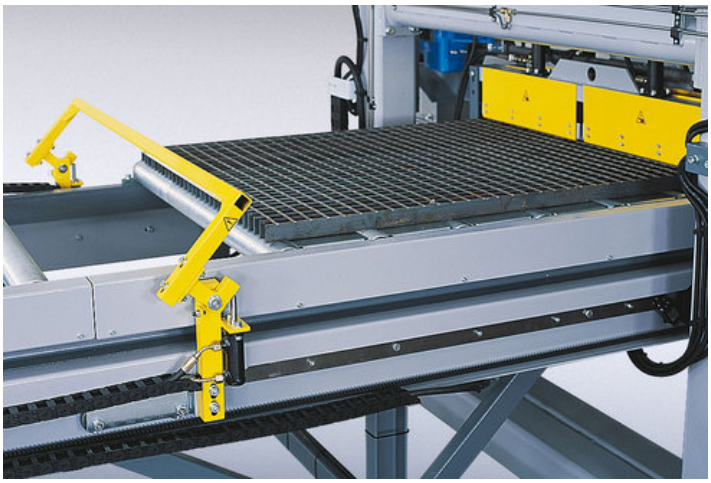
SAP 1100 – length 3700 mm, width 1200 mm.

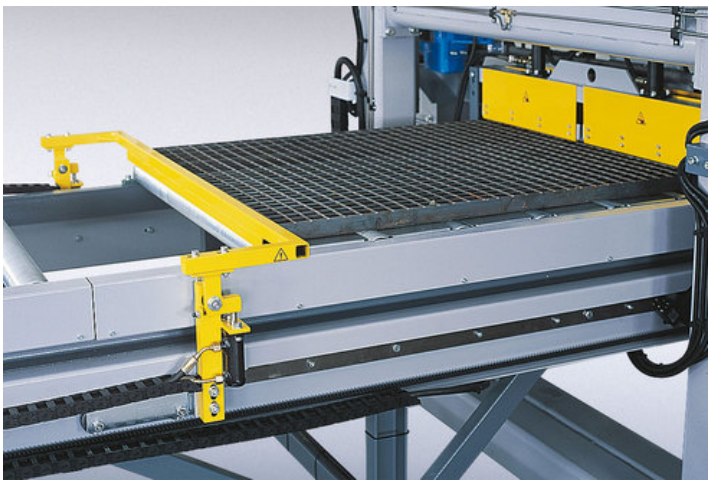
• In contrast to SA 1100 this version is fitted with driven rollers for material feed.
• Large diameter running wheels and precise three-side hardmetal guiding ensure long service life of the band and cutting accuracy.
• Overdesign of running wheel bearings, tensioning wheel system and all rotary parts ensures long service life of the machine.
• Noiseless and maintenance-free band drive is provided by an industrial electric motor with worm gearbox.
• The machine checks correct tension or break of the saw band. If the saw band breaks the machine automatically switches off.
• Easy control by ergonomically placed controls of the saw band and the conveyor (electrical and hydraulics) on a central panel.

PHOTOGALLERY

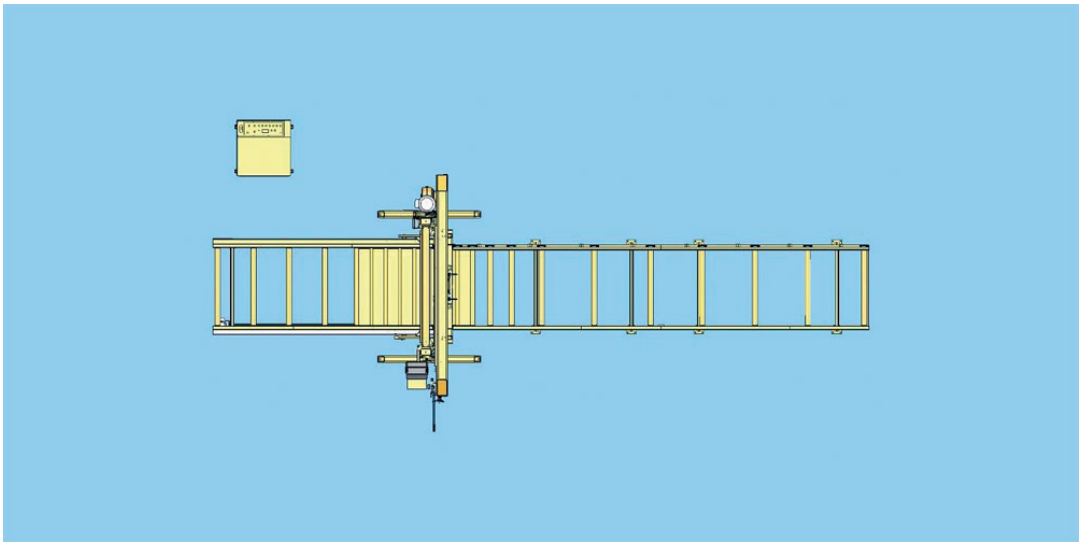






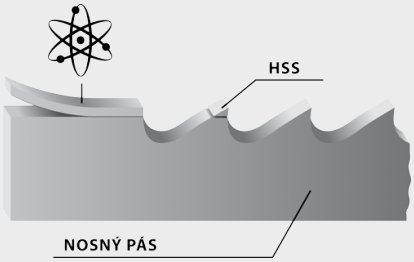


CONVEYORS



MAXtech

- Original bandsaw blades produced using the latest technology with top-quality German materials, while strictly complying with all stated production and control procedures.
- High productivity and precision of cut with the maximum service life of the blade is ensured.
- Wide range of produced types of sawblades and toothing enables the professional cutting of almost all available materials.



Bi-metal blade

Consists of bearing band from special steel on which a layer of HSS material is welded into where the teeth are milled.

Constant toothing

The distance of the teeth are always the same.

Variable toothing

The distance of teeth vary and is periodically repeated. This results in a greater cutting range, ability to further eliminate vibrations caused by the impact of the tooth blade on material, longer service life of the blade.

M42

Universal blade recommended for a wide palette of material, including tool steels and stainless steel up to hardness 45 HRC. Teeth are made from steel HSS-M42 containing cobalt.

M51

Blade for tool and stainless steel with hardness up to 50 HRC. Tooth tips are made from steel HSS-M42 containing cobalt and wolfram

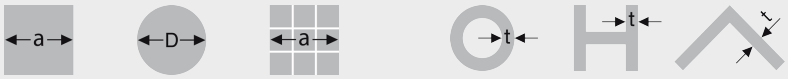
Carbide

Consists of bearing band from special steel into which the teeth are milled on which especially grinded carbide plates are welded. The carbide mounted blade is recommended for cutting surface hardened materials, chrome parts, forged pieces and materials with external tenacity and hardness up to 62 HRC.

Cutting range

For optimal output of the blade, the correct selection of the size of the blade tooth is important depending on the size of the divided material.

SOLID MATERIALS	PROFILED MATERIALS



Variable toothing		Constant toothing		Variable toothing		Constant toothing	
a(D) [mm]		a(D) [mm]		t [mm]		t [mm]	
0–25	10/14	0-10	18	0-4	10/14	0-1	18
20-40	8/12 (8/11)	5-20	14	3-6	8/12 (8/11)	0-3	14
30-60	6/10	20-40	10	6-9	6/10	4-7	10
40-70	5/8 (5/7)	40-80	6	9-13	5/8 (5/7)	8-11	6
60-110	4/6	80-120	4	12-16	4/6	12-15	4
80-140	3/4	120-200	3	16-22	3/4	16-20	3
120-350	2/3	200-400	2	20-35	2/3	21-30	2
250-550	1,4-2	300-800	1,25	30-85	1,4-2	31-90	1,25
380-750	1/1,5			40-85	1/1,5		
550-3000	0,75/1,25			80-200	0,75-1,25		

When selecting the number of teeth for the blade, the general principle applies of a minimum of 4 teeth, but no more than 30 teeth are in contact with the work piece.

Be careful when unpacking welded saw blades. They are in a shipping container in tensioned condition. Remove the saw blade cover only after fitting it onto the machine.