OFFER SHEET

PILOUS®
PROFESSIONAL BANDSAWS

Pilous
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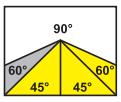
ARG 220 plus

Universal band saw is appraised for general use in continuous uninterrupted production plants and in workshops (work on locks, maintenance) as well. Industrial band 27 x 0.9 mm is manufactured in many versions and allows for cutting of wide range of materials, including stainless steel or tool steel.
The band saw arm uplift is manual; the feed into cut is carried out by the weight of the arm, with the possibility of continuous regulation by the oil damper butterfly valve. When the cut is finished the band saw drive automatically switches off. To facilitate easy arm uplift the machine is equipped with adjustable tension springs that allow for setting of optimum force required for the arm uplift according to characteristics of the material to be cut.
Vice system contributes to versatility of use by providing bilateral continuous setting of the cutting angle within the ranges 60° to the right and 45° to the left.
The turntable rotates along with the saw band. Thanks to that the saw band does not cut into the loading surface of the vice.

- Robust machine framework composes of castings from grey cast iron and therefore ensures vibration absorption.
- Modern concept of the band saw arm allows for large cutting ranges in upright and angular cuts.
- Simple locking and adjusting of the desired cutting angle on the angle scale with stops fixed at 45°, 60° and 90°.
- Massive quick-clamping vice ensures easy and reliable material clamping.
- Large diameter running wheels and precise three-side hard-metal 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.
- Three-phase two-speed motor (400 V) allows for the selection of band speed between 40 and 80 m/min.
  The machine is connected to a complete cooling system with a high-performance pump and possibility of regulating the flow on both guiding heads independently. Coolant tank with a pump is placed in the base of the machine.
- Easy control by ergonomically placed controls (electrical and hydraulics) on the base of the machine.
- The machine is equipped with a 250mm workpiece stop.



2600 × 27 × 0,9

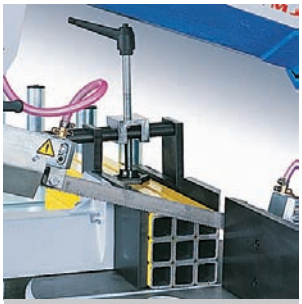
	90°	−45°	+45°	+60°
●	220	150	170	105
■	220	135	160	75
▬	270×150	175×60	175×80	105×75

		kg
400 V / 50 Hz / 0,9/1,4 kW	40/80 m/min.	270 kg

Main motor	400 V /50 Hz / 0,9/1,4 kW
Pump motor	400 V / 50 Hz / 0,05 kW
Saw blade speed	40/80 m/min.
Working height of vice	900 mm
Coolant tank	cca 15 l
Machine dimensions (min.)	1400 × 750 × 1400 mm
Machine dimensions (max.)	2000 × 1300 × 1700 mm
Machine weight	270 kg

PACKING: is non-returnable and invoiced separately. Machines are fixed on pallets or balks and packed in a stretch foil.

ACCESSORIES



VP

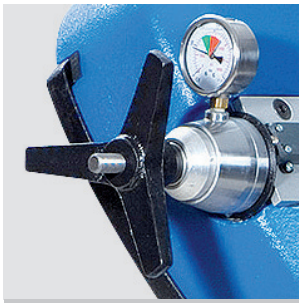
Pressure device

Used to clamp the bundles of material to be cut. Ensures simple and reliable material clamping using a vertical contact pressure.

KL

Material chute

Continuously joins the vice behind the cut and allows for easy slide of cut pieces into a container when cutting larger series. The chute construction consisting of 2 parts prevents leakage of the coolant.



CD

Saw band tension indicator

Ensures accurate tensioning of the saw band to a required value according to the pressure gauge and its control during the use of the machine. Optimum tensioning of the saw band is essential for its service life and cutting accuracy.

FR

Frequency converter

Enables continuous blade speed regulation between 15 – 90 m/min. and thus setting the optimum cutting conditions for the given material.

LA 50

Halogen lamp

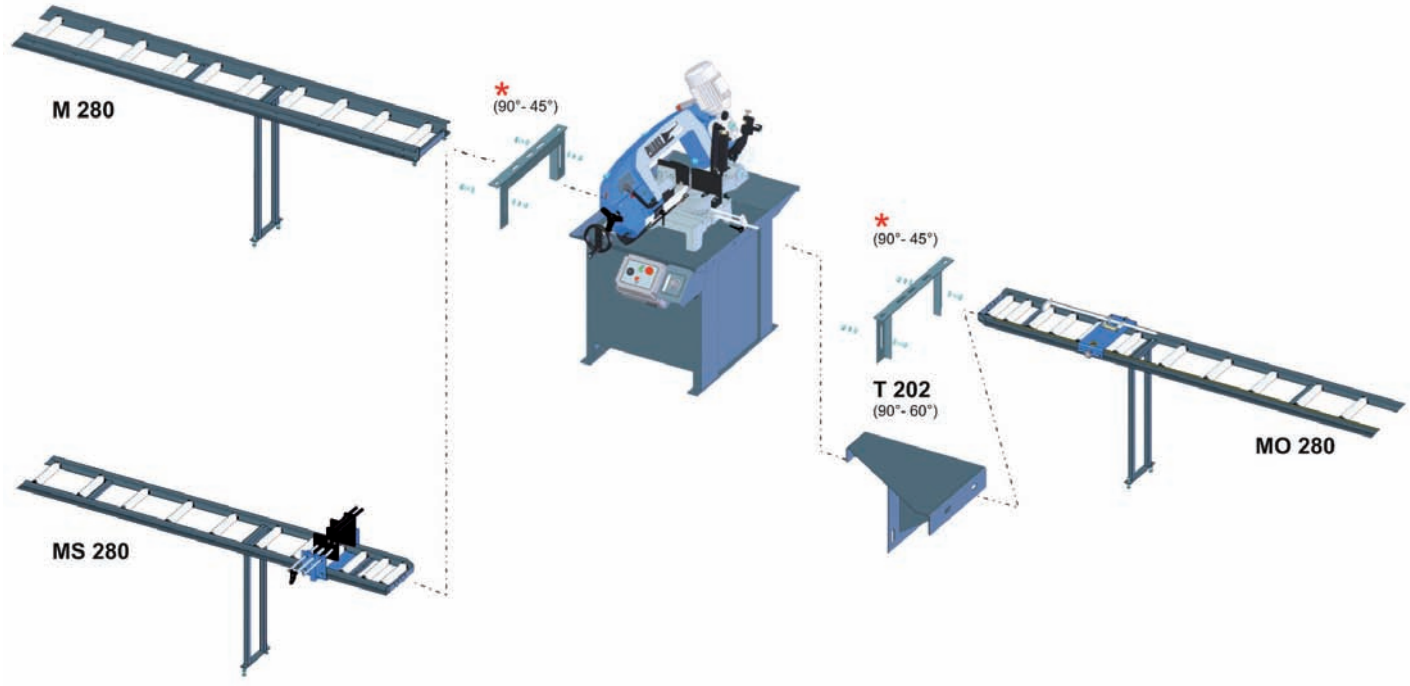
Provides good lighting of the workplace of the machine. An invaluable tool especially when the lighting at the workplace is insufficient.

MM

Oil mist lubrication

Creates an oil mist that is sprayed onto the cutting edge. It replaces the use of a classic coolant, especially when cutting sections during which leakages may occur. Possibility of using organic oils.

ROLLER CONVEYORS AND THEIR CONNECTION



* *Is always a part of the conveyor.*

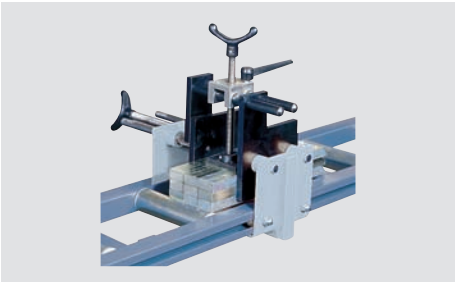
Note: *You can connect M 280 behind the cut as a conveyor only if angular cutting isn't required.*

M 280

M 280 AB

N 280

MO 280



MS 280

ROLLER CONVEYORS

M Standard roller conveyor. Possibility of connecting the individual conveyors.
MO Roller conveyor with measuring equipment. Indispensable for cutting long material.
T Spacer for connecting MO conveyors to band saw base.
N Leg with roller.

Conveyor type M:
A with cover iron plate,
B with vertical supporting rollers,
AB with cover iron plate and supporting rollers.

	M 200		M 280		M 400	
mm	–	–	1500	3000	–	–
	–	–	280	280	–	–
⌀	–	–	50	50	–	–
1 2 . . . x	–	–	6	12	–	–
1 | 2 . . x |	–	–	1	2	–	–
1 2 . . . x	–	–	4	7	–	–
mm	875 – 915					

	MO 280 / MS 280		
mm	2000	3000	6000
	280	280	280
⌀	50	50	50
1 2 . . . x	10	13	25
1 | 2 . . x |	1	2	3
mm	875 – 915		

	N 280
	280
⌀	50
mm	800 – 1120

SAWBLADES *Pilous MaxTech*

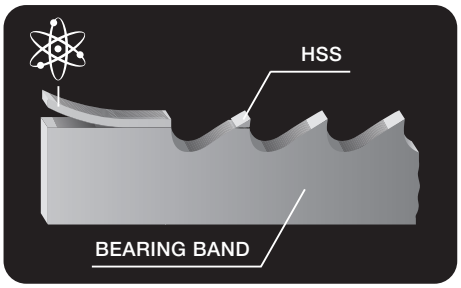
High-quality band saw is the second most important factor (just after the machine construction) for cutting speed and accuracy and maintenance of long service life. Choose your saw band from a wide selection of excellent professional ***Pilous MaxTech*** saw bands.

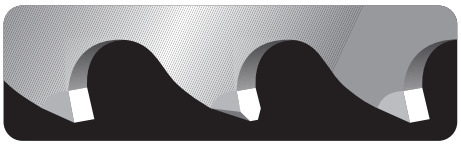
ARG 220 plus uses the saw band sized 2600 × 27 × 0,9 mm. The band is manufactured in following versions:

Bi-metal blade M 42										
Variable toothing	10/14	8/12	8/11	6/10	5/8	5/7	4/6	3/4	2/3	
Constant toothing	14	6	4	3	2					

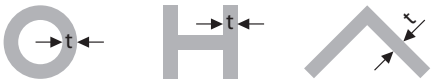
Bi-metal blade M 51										
Variable toothing	5/8	4/6	3/4	2/3						
Constant toothing										

Carbide blade M 42										
Variable toothing	2/3									
Constant toothing	4	3								





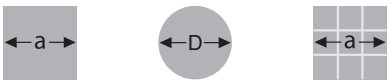
SOLID MATERIALS



VARIABLE TOOTHING	
t [mm]	
0–4	10 / 14
3–6	8 / 12 (8/11)
6–9	6 / 10
9–13	5 / 8 (5/7)
12–16	4 / 6
16–22	3 / 4
20–35	2 / 3

CONSTANT TOOTHING	
t [mm]	
0–3	14
8–11	6
12–15	4
16–20	3
21–30	2

PROFILED MATERIALS



VARIABLE TOOTHING	
a(D) [mm]	
0–25	10 / 14
20–40	8 / 12 (8/11)
30–60	6 / 10
40–70	5 / 8 (5/7)
60–110	4 / 6
80–140	3 / 4
120–350	2 / 3

CONSTANT TOOTHING	
a(D) [mm]	
5–20	14
40–80	6
80–120	4
120–200	3
200–400	2

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.

EMULSION

COOLcut Standard

***COOLcut Standard** – universal coolant and lubricant.*

– fluid allows achievement of optimal lubricating and cooling properties during the machining process
– low aromatic, highly refined paraffinic oil
– effective corrosion inhibitors provide permanent protection of the workpiece and the machine from corrosion
– bio stability and excellent wettability ensure excellent cooling and lubricating effect even in very hard water
– minimum tendency to foaming ensures effective lubrication
– high efficiency and profitability of use

Except use on log band saws the product is designed for machining operations carried out both on conventional machines and NC and CNC machining centres. ***Recommended concentration 5–10 %. Balení 5 litrů. Ředění 1:20.***

COOLcut Opti

***COOLcut Opti** – universal coolant and lubricant. Such machining fluid allows achievement of unique lubricating and cooling properties during the machining process.*

– low aromatic, highly refined mineral oil
– effective corrosion inhibitors provide permanent protection of the workpiece and the machine from corrosion
– above average stability and excellent wettability ensure excellent cooling and lubricating effect even in very hard water
– minimum tendency to foaming ensures effective lubrication
– high efficiency and profitability of use
– long-term biostability

In addition to use in saw bands the product is designed for machining operations carried out both on conventional machines and NC and CNC machining centres. ***Recommended concentration 4–7 %. 1 and 5 litres pack. Dilution 1:20.***

COOLcut Eco 65

***COOLcut Eco 65** – universal cooling and lubricating emulsifying oil, well biodegradable according to OECD 301-D test. Biodegradability of 65 % in 21 days.*

– Such machining fluid allows achievement of unique lubricating and cooling properties during the machining process
– highly refined synthetic ester oil
– effective corrosion inhibitors provide permanent protection of the workpiece and the machine from corrosion
– above average stability and excellent wettability ensure excellent cooling and lubricating effect even in very hard water
– minimum tendency to foaming ensures effective lubrication
– high efficiency and profitability of use
– long-term biostability

In addition to use in saw bands the product is designed for machining operations carried out both on conventional machines and NC and CNC machining centres. ***Recommended concentration 4–7 %. 5 litres pack. Dilution 1:20.***

COOLcut Bio 90

***COOLcut Bio 90** – universal cooling and lubricating emulsifying oil, well biodegradable according to OECD 301-D test. Biodegradability of 90 % in 21 days. Due to its biodegradability it can be used in any outdoor environment without environmental damage.*

– Such machining fluid allows achievement of unique lubricating and cooling properties during the machining process
– highly refined synthetic ester oil
– effective corrosion inhibitors provide permanent protection of the workpiece and the machine from corrosion
– above average stability and excellent wettability ensure excellent cooling and lubricating effect even in very hard water
– minimum tendency to foaming ensures effective lubrication
– high efficiency and profitability of use
– long-term biostability

In addition to use in saw bands the product is designed for machining operations carried out both on conventional machines and NC and CNC machining centres. ***Recommended concentration 4–7 %. 5 litres pack. Dilution 1:20.***

COOLcut Micro

***COOLcut Micro** – an easily biodegradable semi-synthetic cooling and lubricating micro-emulsion. Due to its biodegradability it can be used in any outdoor environment without environmental damage. Such machining fluid allows achievement of unique lubricating and cooling properties during the machining process.*

– highly refined synthetic ester oil
– effective corrosion inhibitors provide permanent protection of the workpiece and the machine from corrosion
– above average stability and excellent wettability ensure excellent cooling and lubricating effect even in very hard water
– minimum tendency to foaming ensures effective lubrication
– high efficiency and profitability of use
– long-term biostability

In addition to use in saw bands the product is designed for machining operations carried out both on conventional machines and NC and CNC machining centres. ***Recommended concentration 4–7 %. 5 litres pack. Dilution 1:20.***

COOLcut Antifreeze

***COOLcut Antifreeze** – low-freezing ingredient for water miscible coolants used in winter in outdoors environment, up to minus 20 °C, depending on the dosage.*

– effectively lowers the freezing point of the fluid
– very good resistance to oxidation guarantees long service life
– does not act aggressively on the sealing elements (elastomers), to which it comes into contact.

5 litres pack. Dilution 1:20.

Optima Antifreeze	[%]	10	20	30	40	50
Flowability temperature	[°C]	–5	–10	–17	–26	–40

RECOMMEND

OH 90

Deburring machine OH 90

Simple and very fast deburring of all kinds of sections (including the internal edges) or full material by a rotary steel brush. High quality construction of the machine along with a three-phase motor make use of the machine possible in specialized workshops as well as in production plants. Compared to manual deburring it reduces the required time and hence reduces your costs. While maintaining incomparably higher and balanced quality of deburring.

OHE 90

Deburring machine OHE 90 *(Lighter version of OH 90)*

Simple and very fast deburring of all kinds of sections (including the internal edges) or full material by a rotary steel brush. High quality construction of the machine along with a three-phase motor make use of the machine possible in specialized workshops as well as in production plants. Compared to manual deburring it reduces the required time and hence reduces your costs. While maintaining incomparably higher and balanced quality of deburring.

We recommend using stainless steel brush for stainless steel products. Example of the difference between manual deburring (including internal edges) and OH 90:					
Hollow section 60 x 60 x 2 mm:	manual deburring	32 s	machine OH 90	8 s
Tube diameter 50 x 2 mm:	manual deburring	21 s	machine OH 90	4 s