

Vertical TANDEM band saw with 1200 mm wheel diameter, type UHM-120H-T

Wheels made of specially alloyed and heat-treated cast iron, crowned profile, dynamically balanced



- main motor power	2 x 45 kW, 1450 rpm
- wheel diameter	1200 mm
- wheel width	140 mm
- maximum band blade width	150 mm
- band blade tensioning	hydraulic
- blade guide adjustment	hydraulic
- upper wheel tilting	electric
- maximum cutting height	1000 mm
- maximum cutting width	720 mm
- height from ground level	3,850 mm
- net weight	10 tonnes

Automatic band blade tensioning system with tension indicators and automatic control from the operator console.

- vertical movement of the **blade guide is hydraulically actuated and controlled from the console**
- **upper wheel tilting by electric motor** – makes it easier to position the blade on the wheel
- diesel tank for cleaning the band blade
- **centralised lubrication** system with manual pump
- emergency stop system for the main motor and the wheels in the event of a failure
- automatic star-delta starting for the main motor
- safety devices and protective guarding for the saw blade and the upper wheel

The machine is fitted with anti-friction guideways.

Plain bearings and roller bearings are of special construction – manufactured by **SKF-FAG**.

Chain conveyor for removing the bark and sawdust generated by cutting.



Hydraulic log carriage with 3 clamping dogs, type UTA Z3

- carriage length	5,600 mm
- carriage width	2,200 mm
- track gauge	1220 mm
- maximum opening of the knees (headblocks)	1000 mm
- maximum opening of the clamping dogs	1000 mm
- maximum log diameter	1000 mm
- control system for the log-turning arms	hydraulic
- vertical control system for the dogs	hydraulic
- dog extension at two preset positions	15 mm; 170 mm
- distance between the clamping dogs	1200; 2300
- maximum log length	5 m

Independent control console for remote operation, equipped with:

- Ergonomic operator seat
- **Two joysticks with 6 buttons each** for controlling: the knees, the clamping dogs, the lifting of the turning arms and the turning chains, the setting of cutting thicknesses and the optimisation;
- The carriage feed is controlled by means of a foot pedal with potentiometer.



The transverse feed movement of the knees relative to the blade is driven by an electric motor, with a positioning speed of up to **200 mm/s**.

BOSCH – REXROTH hydrostatic feed system developing a tractive force of **12,000 N**, short dwell times when reversing direction and rapid acceleration on the return stroke up to **120 m/min**.



Projection of the dogs at two preset positions for fast positioning into the log;
Two fixed working pressures (selectable within the 0 ÷ 200 bar range);

- Motor

22 kW

Log turning system with 3 arms tiltable to 90°, equipped with hydraulic lift and driven chain;
Sliding and protection of the electrical cables by segmented cable carrier;

Centralised automatic lubrication system with **SKF** timer.

The components and the power switchboard are supplied entirely by **SCHNEIDER ELECTRIC**

Plain bearings and roller bearings are manufactured by **SKF-FAG**.

Linear encoder for measuring the cutting thickness



12" Schneider Electric touchscreen PLC.

Memorisation of the knee positions during cutting; after the log has been turned, the knees return to the stored position.

100 programs with 16 cutting thicknesses can be stored.

Cutting optimisation is available by simply pressing button 2 on the joystick, after which 4 of the 100 saved cutting programs appear on the display.

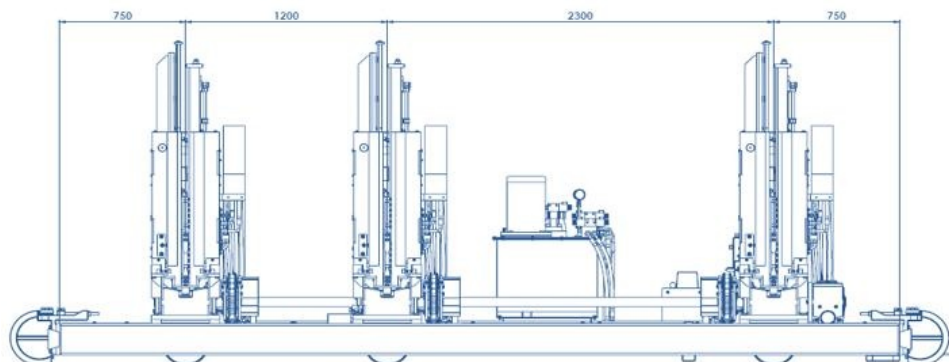
The operator can select the first optimisation program by pressing the same button, or select it directly on the display.

The cutting programs can be optimised by quality, log length, etc.

Remote diagnostics via the Internet, in order to reduce service response times and high personnel costs.



CARRIAGE SET CUT mm	CARRIAGE CANT mm	DATE	CANTER CANT mm	
21	233	26/10/20 09:14:01	22	
SET CUT 1 21	CANT 1 188	ÜSTÜNKARLI LOG SAWING LINES For Saw Current 55 Canter Current 34		
SET CUT 2 35	CANT 2 218			
SET CUT 3 69	CANT 3 254			
SET CUT 4 89	CANT 4 284			
SET CUT 5 75	CANT 5 225			
SET CUT 6 60	CANT 6 125			
OPTIMIZATION PROGRAM	SET CUT + MEMORIZED POSITION ACTIVE	RECALL MEMORIZED POSITION 0	POSITION MEMORIZATION	MULTI CUT MENU



Hydraulic edger with one fixed and one adjustable blade, type UDKY/500 – 1+1



- | | |
|--|-----------------|
| - maximum cutting height | 100 / 120 mm |
| - maximum cutting width | 700 mm |
| - maximum working width | 500 mm |
| - variable feed speed with hydraulic motor
(the feed speed may vary depending on the wood species, the quality of the circular blades, the cutting thickness and the quality of the timber) | 0–80 m/min |
| - circular blade diameter | Ø350 / Ø400 mm |
| - main motor power | 15 kW |
| - hydraulic motor power | 3 kW, 1450 rpm |
| - weight | 3 tonnes |



Fitted with one fixed and one independently hydraulically adjustable saw collar over a working width of 500 mm.

Mobile control console for remote operation (cutting width and cutting thickness adjustment, etc.)

Fast positioning of the cutting widths by joystick from the console;

Continuously variable feed speed; **hydraulic** feed system with powerfully driven rollers;

Two upper rollers (Ø240 mm diameter) and three lower rollers (Ø165 mm diameter);

Hydraulic system for raising / lowering the feed rollers (cutting thickness change);

Extra-thick steel frame – **heavy-duty** construction;

Tool-holder shafts made of specially alloyed, hardened and heat-treated steel;

Side access door for blade changing and maintenance;

Lubrication system for the blade shaft with external reservoir;

1350 mm infeed table fitted with 3 idle rollers and a **special guiding system for aligning the workpieces.**

Horizontal band resaw for timber, PLC control with memory – 3 heads



SPECIFICATIONS	UYYM-100
Wheel diameter	1000 mm
Wheel width	115 mm
Main motor power	30 kW
Maximum cutting height	300 mm
Minimum thickness	30 mm
Maximum cutting width	450 mm
Feed speed	40 m/min
Air pressure	6 bar
Pressure roller motor power	1.1 kW
Motor power for vertical adjustment	0.75 kW
Feed motor power	3 kW
Weight	7500 kg

Robust frame made of extra-thick steel

Fitted with a diesel tank for cleaning the wheels and the blade;

Automatic blade tensioning system.



Semi-automatic cross-cut saw for cants



Technical details of the automatic cross-cut saw:

Width: 1210 mm

Length: 13,400 mm

Infeed conveyor: 6200 mm – Outfeed conveyor: 6200 mm

Main motor: 11 kW

Maximum cutting height: 110 mm – Maximum cutting width: 600 mm

Maximum cutting length: 6000 mm – Minimum cutting length: 300 mm

Infeed and outfeed conveyor motors: 2 pcs x 1.5 kW

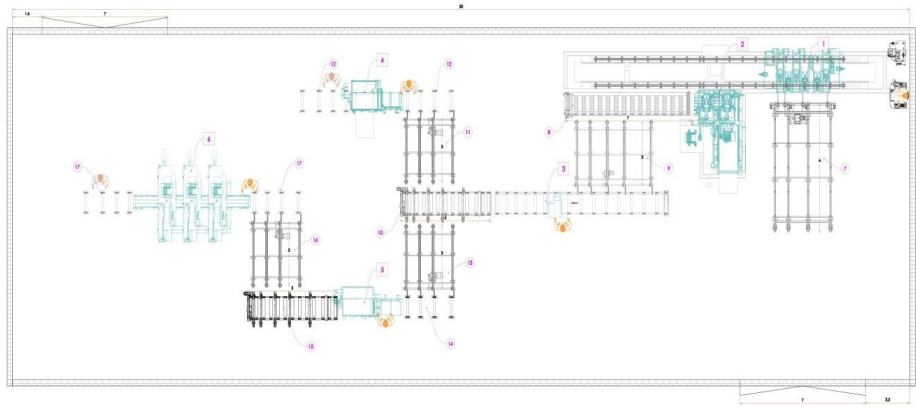
Waste evacuation conveyor: 1 piece

The PLC allows cutting / breakdown dimensional data to be imported via the communication interface (Ethernet/IP)





Cant alignment system at the infeed.



* MACHINERY

01-	UTA_NH3_120_320_AK_P	LOG CARRIAGE WITH 3 KNEES, HYDRAULIC DRIVE	1 PC	(55 kW + 3 kW)
02-	UHM_120_H_T	TANDEM BAND SAW FOR LOGS	1 PC	(93.7 kW)
03-	UDKB	CROSS-CUT SAW	1 PC	(15 kW)
04-	UDKY_500_120_1	EDGER WITH ONE FIXED AND ONE MOVABLE BLADE	1 PC	(40 kW)
05-	UDKM_500_160	MULTI-RIP SAW WITH ROLLER FEED	1 PC	(58 kW)
06-	UYYM_100_3	HORIZONTAL BAND RESAW, PNEUMATIC DRIVE	1 PC	(116.5 kW)