



TAD TISSUE MACHINE FOR SALES



General information:

Manufacturer: **VALMET**

Year of construction: **1989-1990**

Raw material: **Virgin cellulose bales + Broke coming from internal production**

Width (paper): **3630 mm**

Max Capacity: **120 ton/day (B.W. 30 gsm on width 3600 mm) o**

Forming Section: 1400 m/min

- TAD's/Yankee: 1400 m/min
- Pope Reel: 1400 m/min
- After 1º transfer: 12-13%
- After 2º transfer: 26-27%
- After: TADs: 83-85%
- After Yankee Dryer: 97-98%

Maximum drawing speeds:

Actual production speed: 900 – 1250 m/min, depends on paper type to be produced

Sheet Dryness (%)

Average Overall Electric consumption: around 8 MWh

Average Overall Gas consumption: 2000 m³/h

The machine is fully functional, it produced about 20,000 tons in 2021, at the moment the width is set up at 2800 mm and we produce paper from 2560 mm width (shipping on container) to 2700 mm width (shipment by truck)

Products:

Paper type: **BT (bath tissue) and/or KT (kitchen towel)**

Reel basis weight: from **18 gsm to 30 gsm**

Reel Diameter: max **2400 mm**

Paper grades: HB (**high bulk**) caliper range from 2,7 to 4,1mm/12ply or LB (**low bulk**) caliper range from 2,3 to 2,7 mm/12ply

Stock preparation:

1 Automatic chain conveyors supplied by SICMA feeding Long and Short fibres to the pulpers

1 Long Fibers line

1 Short Fibers line

1 broke line

3 cellulose conveyors (for each pulper: long fibers, short fibers and broke one)

3 Pulpers (Long Fibers: 46 m³; Short Fibers: 30 m³; Broke: 23 m³)

Pulper Long fibres:

- Power motor: 250 kW

- Power motor pump: 75 kW

Pulper Short fibers:

- Power motor: 200kW

- Power motor pump: 45 kW

Pulper Broke:

- Power motor: 200kW

- Power motor pump: 30 kW

Pulping system complete of piping, valves and sensors

- 2 Beloit disc refiners DD 4000, model J24R (power motor: 250 kW)
- 2 de-flakers VOITH E2 (power motor: 170 kW + 200 kW)
- 6 HD Cleaners (n.2 for Long Fibers + n. 2 for Short Fibers + n.2 for Broke)
- 5 chest agitators of tina storage + N.3 chest agitators of tina machine
- 3 fan pumps ALHSTROM ZTT 50 (power motor: 735 kW each one)
- 3 pressure screens BELOIT B50 S (power motor: 90 kW each one)
- 1 Fiber recovery system – BELOIT POLYDISK 2000 + N. 3 vibro screens
- Vacuum system complete of piping, valves and sensors
- Flow rate and consistency regulation valves supplied by BTG



Forming section:

3-layer headbox: VALMET HTB-3L
Twin Wires Former
Solid Forming Roll
10 Showers

Dewatering section:

2 high vacuum centrifugal pumps ROOTS/DRESSER 36 SS (power motor: 1000 kW each one)
Vacuum boxes
1 air knife powered by turbofan

Drying section:

TAD cylinder (Through Air Dryer) diam.: 3658 mm, length: 4005 mm with gas burners heating by PCC (Process Combustion Corporation)
2 Fan for of TAD system, flow 424000 m³/h, power motor: 1350 kW each
4 TAD Hoods by Flakt Ross with gas burners
1 Yankee Dryer, diam.: 3600 mm, length: 4200 mm, operating pressure: 7,5 bar; max pressure: 20,68 bar, T max: 205 °C
1 Yankee coating system
2 Yankee Hoods by Flakt Ross with gas burners (power motor centrifugal fan: 250 kW)

Reeling section:

1 Pope Reel
1 Shaft puller system + crane for core reels movement
1 Lift for jumbo reels
1 Dust removal system installed at the machine wet end & Pope reel section
1 shuttle of jumbo reel
1 Reel overturning system

Additional details:

All drive motors and its control cabinets for Tissue machine were supplied by ABB
DSC and QCS supplied by ABB.
QCS scanner equipped with radioactive source sensor to measure BW & moisture in line.
Investment in place to upgrade DCS system and substitute QCS scanner with new model NP800, with infrared scanning system
Control room
Complete water system (motors, piping, etc.)
Mainly all motors are powered in medium voltage, 6000 V, 50 Hz
Spare parts available (motors, rolls, wire formers, etc.)



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