



TAD TISSUE MACHINE FOR SALES



General information:

Manufacturer: **VALMET**

Year of construction: **1987 and STILL WORKING UNTIL MAY 2026**

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

Width (paper): **3.400 mm**

Max Capacity: **120 ton/day (B.W. 30 gsm on width 3.400 mm)**

Forming Section: 1400 m/min

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

Speed and Consumptions:

Actual production speed: 900 – 1350 m/min, depends on paper type to be produced

Average Overall Electric consumption: 1.900 kWh/Ton paper

Average Overall Gas consumption: 4.800 kWh/Ton paper



Products:

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

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

Reel Diameter: max **2800 mm**

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

- Power motor: 250 kW

- Power motor pump: 75 kW

Pulper Short fibers:

- Power motor: 200kW

- Power motor pump: 45 kW

Pulper Broke: **New Kadant Year 2016**

- Power motor: 200kW

- Power motor pump: 30 kW

Pulping system complete of piping, valves and sensors

- 1 Beloit disc refiners DD 4000, model J24R (power motor: 250 kW) + Escher Wyss DSR
- 2 de-flakers VOITH E2 (power motor: 170 kW + 200 kW)
- 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 DAF krofta and Algas
- Vacuum system: 1 Man Turbine 1,6 MW + 1 Nash 400 kW
- Flow rate and consistency regulation valves supplied by METSO



Forming section:

3-layer headbox: VALMET HTB-3L
Twin Wires Former
Vacuum box forming roll
10 Showers

Dewatering section:

Compressor Atlas Copco 250 kW
Vacuum boxes
1 air knife powered by turbofan

Drying section:

2 x 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: 1,6 MW + drice Siemens each
4 TAD Hoods by Flakt Ross with gas burners
1 Yankee Dryer, diam.: 3600 mm, length: 4200 mm, operating pressure: 8,5 bar; max pressure: 10 bar, T max: 205 °C
1 Yankee coating system
1 Yankee Hoods by Flakt Ross with gas burners (power motor centrifugal fan: 250 kW)

Reeling section:

1 Pope Reel max diameter reel 2.800 mm
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 Reel overturning system



Additional details:

All drive motors and its control cabinets for Tissue machine were supplied by ABB CC

DSC Honeywell, QCS ABB and PLC Rockwell

QCS scanner with infrared scanning system

Control room

Complete water system (motors, piping, etc.)

Mainly all motors 50 Hz are powered in medium voltage:

- 400 V
- 700 V
- 3.000 V

Spare parts available (motors, rolls, wire formers, etc.)



