

ACE Group

Paper Machine for Waste Based Packaging Grades



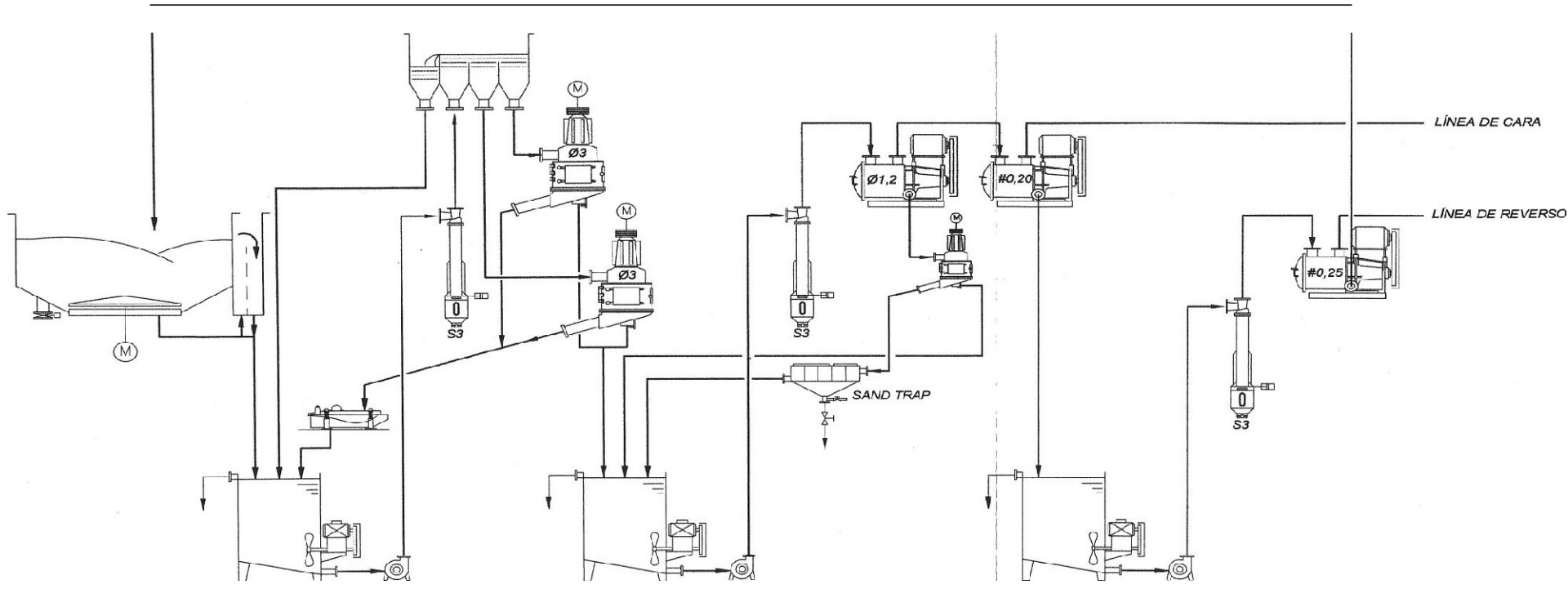
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2260 mm Deckle Yankee Paper Machine



- 50 tonnes per day of waste based fluting & testliner grades.
- Deckle 2260 mm
- Weight range 100-300 g/m³
- Line shaft rated for 200 m/min
- Normal production at 160 m/min
- 5 VAT formers
- 1st and 2nd press
- 5 pre dryers
- 3.2 metre diameter Yankee dryer
- 5 post dryers
- Winder
- Rewired during 2007 to 2009
- CHP plant and boiler

Stock Preparation Process



Stock Preparation Equipment



- 20m³ Continuous low consistency pulper
- Stainless steel construction

- LICAR Poire size 1 unit
- Installed new in 2002
- Spare screen and rotor

Stock Preparation Equipment

- Further cleaning for the material used in the bottom layer.
 - 1 Voith S3 thick stock cleaner
 - 1 Soteras screen 0.25 mm slots
- Please note stock tanks are concrete

- Surface layer cleaning
 - 1 Voith S3 thick stock cleaner
 - 2 Hett separators 3 mm holes
 - 1 vibrating screen
 - 1 Voith S3 thick stock cleaner
 - 1 Soteras screen 1.2 mm holes
 - 1 Soteras screen 0.2 mm slots
 - 1 Hett separator 3 mm holes
 - CTP-500 sand remover



Approach Flow Equipment

- Surface layer
- Head box for consistent feed
- Grammage control valve
- Fan pump
- BTG Consistency control
- LICAR SP-600 screen plus spare screen basket
- Bottom layer
- Head box for consistent feed
- Grammage control valve
- Fan pump
- BTG Consistency control
- LICAR SP-800 screen plus spare screen basket

Forming Equipment

- Vacuum system

- 1 SAFEM L-20 with COPASA separator
- 1 SAFEM L-10
- Spare parts

- 5 Stainless steel Dry-Vat moulds with overflow headboxes and

- Pneumatic top couch roll
- Exhauster for water removal
- Felt suction boxes
- Starch showers
- 2 spare cylinders

Pressing



•1st Press

- Max pressure 90 kN/m
- High pressure shower
- Felt vacuum box
- Roll doctoring
- 1 top & 2 bottom spare rolls

•2nd Press

- Max pressure 130 kN/m
- High pressure shower
- Felt vacuum box
- Roll doctoring
- Broke pulper
- 1 top & 1 bottom spare rolls

Drying



- 5 Pre-dryer cylinder installed 1992
 - 1200 mm diameter with doctors
 - Working pressure 4 bar
 - Brunnschweiler hood

- MG cylinder
 - 3200 mm diameter
 - Working pressure 4 bar
 - Blind drilled 400 mm press roll with load of 100 kN/m + spare
 - Brunnschweiler hood
- 5 Post-dryers installed 2008 (S/hand)
 - 1500 mm diameter with doctors
 - Working pressure 4 bar



- T Bolarin hood

Reel Up & Winding



- Quality Control System
 - Made by Toniolo Iberica
 - Moisture control
 - Weight control through grammage control valve in bottom layer process

- Reel up
 - Auto spool change
 - 4 reel spools
 - Primary and secondary arm loading
- Winder installed 2008 (S/hand)
 - Auto tension control (2009)



General Information



- Line shaft drive motor 222kW
- Reel up drive motor 22 kW
- Electrical panels and wiring replaced from 2007 until 2009
- 380v at 50 Hz



- Spares available for
 - All screens
 - Machine equipment parts
 - Machine clothing
- Drawings as available

Boiler



- VALTEC-UMISA boiler
- RAY gas burner
- Rated at 8 tonnes per hour
- Steam pressure 15 bar
- Associated pumps, safety and control systems
- Water treatment system
- Manuals and drawings available

- 2 RENNERS RS30 rotary compressors
- Ultrapulse refrigeration dryer unit

Co Generation Plant



- Dormen (Perkins) gas fired generator set
- Installed new in 2000
- Electrical generation 800 kW per hour



- Umisa waste heat boiler
- Waste boiler generates 600 kg/hr
- Total boiler output 8000 kg/hr
- Pressure 16 bar