



# PAPCEL®

TRADITION • STRENGTH • EXPERIENCE

since 1950

## ITEM No. 5 - 130 TPD – 4,0 m PM for graphic papers

### 1. General information

Location	Europe
Status of the PM	Stopped in 2011, completely assembled, in very good mechanical conditions (repair of some parts required)
Status of the mill	In liquidation procedure
Parts for sale	Paper machinery, approach flow system, auxiliary systems, winder, available spare parts, wrapping machine, de-inking line (offered separately). Dismantling service included for PM and de-inking line.

### 2. PM general

Original manufacturer	Voith
Year of construction	1932 (the PM has been rebuilt several times until 2003, there are no original parts)
Other manufacturers	Escher-Wyss, Metso, Omma, Sonotec
Hand of machinery	Right (drive on the right side when looking at reel from headbox)
Designed for	Uncoated graphic paper grades
Raw material	DIP (de-inked pulp from mixed office waste)
Basis weight range	45 – 150 gsm
Wire width	4000 mm
Paper width at reel	3750 mm
Maximum operating speed	600 mpm
Daily production (average)	130 Tons

### 3. PM main characteristics

Headbox	<ul style="list-style-type: none"><li>Metso, installed in 1995</li><li>Air-cushion type</li><li>Slice width of 4050 mm</li><li>Designed for 150 BDTPD</li></ul>
Wire section	<ul style="list-style-type: none"><li>Manufactured by OMMA in 1992 and rebuilt in 2001 by Metso</li><li>Fourdrinier type, in cantilever</li><li>Structure in stainless steel and carbon steel lined with s.s. plates</li><li>Length of 12850 mm, wire width of 4200 mm</li><li>Suction couch roll of 762 mm diameter</li></ul>
Press section	<ul style="list-style-type: none"><li>1<sup>st</sup> press rebuilt by Metso in 2001, pick-up press with felted suction roll</li></ul>

	<ul style="list-style-type: none"> <li>812 mm diameter and granite center roll 875 mm diameter</li> <li>2<sup>nd</sup> press installed in 1992 by Escher-Wyss, felted bottom overall deflection roll (Nipco) 545 mm diameter, top center roll 955 mm diameter</li> </ul>
Dryer section	<ul style="list-style-type: none"> <li>Rebuilt in 1995 by Metso</li> <li>Pre-dryer section composed by (17) cast iron dryers 1500 X 3950 mm @ 4.9 bar steam pressure</li> <li>Post-dryer section composed by (10) cast iron dryers 1500 X 3950 mm @ 4.9 bar steam pressure</li> <li>Configuration of the pre-dryer section: Uno-run (single-felt) for the first battery, conventional two-tier felt design for the second and third batteries</li> <li>Configuration of the post-drying section: conventional two-tier felt design</li> <li>Completed of rope threading system (rope groove on dryers)</li> <li>Composed by a silent drive system (drive on dryers)</li> <li>Centralized oil lubrication system (Safematic)</li> <li>Steam and condensate system designed by Langbein Engelbracht</li> </ul>
Size press	<ul style="list-style-type: none"> <li>Manufacturer: Sonotec</li> <li>Puddle type, inclined design</li> <li>590 mm top (hard) roll diameter / 600 mm bottom (soft) roll diameter</li> <li>Completed of starch preparation system and working stations</li> </ul>
Calender	<ul style="list-style-type: none"> <li>Installed in 1992 by Escher-Wyss</li> <li>Hard nip type</li> <li>Top roll 660 mm diameter, Equitherm</li> <li>Bottom roll 500 mm diameter, overall deflection roll (Nipco)</li> <li>Completed of hydraulic station</li> <li>Completed of thermal station</li> </ul>
Reel	<ul style="list-style-type: none"> <li>Installed in 1995 by Metso</li> <li>Drum reel type, hydraulic</li> <li>Drum diameter of 1100 mm</li> <li>Parent roll diameter of 2600 mm (max.)</li> <li>Completed of automatic spool loading storage</li> <li>Provided with (5) spools 400 mm diameter</li> </ul>
UTM pulpers	<ul style="list-style-type: none"> <li>(1) couch pit in concrete lined with stainless steel plates composed by an horizontal shaft agitator completed of reducer and AC electric motor</li> <li>(1) dry broke pulper composed by a stainless steel vat, central group (propeller, bearings support, shaft, couplings, safety protections), reducer and AC electric motor</li> </ul>
Drying hood	<ul style="list-style-type: none"> <li>Pre-dryer closed hood 18.5 X 7 X 4.65 m</li> <li>Post-dryer closed hood 8,5 X 7 X 4,65 m</li> <li>Completed of exhausted air conditioning system</li> </ul>
Quality control system	<ul style="list-style-type: none"> <li>ABB QCS</li> </ul>
Control system	<ul style="list-style-type: none"> <li>Completed of MCS, MCC</li> </ul>
Drive	<ul style="list-style-type: none"> <li>AC</li> </ul>

#### 4. Winder specification

Jagenberg Vari Step TR 43	<ul style="list-style-type: none"> <li>Two-drum type</li> <li>Maximum speed of 2000 mpm</li> <li>Unwound roll of 2400 mm diameter (max.)</li> <li>Wound roll of 1525 mm diameter (max.)</li> <li>(10) knives</li> </ul>
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- PLC control system
- (3) DC electric motors (135 kW + 120 kW + 120 kW)
- Completed of roll inertia compensation system (regenerative brake)
- Provided with suction trimming chips system

## 5. Exclusion

- The following parts are excluded from the PM supply: cranes, cogeneration plant.

## 6. PM Pictures



## 7. De-inking line 150 TPD

At the time of writing, the de-inking line is composed by the equipment listed below (some parts have been sold already, they can be supplied as new from Papcel a.s.).

- Pulper HD20 RCM including belt conveyor with weighing system and de-trashing system (pulper screen RCM TSP 1300 type)
- Pulper Escher-Wyss ST6C 9 mc with slat conveyor and electronic weighing system
- Stock chests, built in 1992 by Sonotec, are in stainless steel with reinforcing ribs in carbon steel. They have about 100 cu.mt capacity and are equipped with agitators type Economix by De Pretto - Escher-Wyss
- HDC
- Omnisorter OS2-LR
- Rejectsorter (De Pretto - Escher-Wyss type RS – 2B)
- Omniscreen OS4-BR and Axiguard CS3t
- Flotation cell by COMER S.p.A.
- Cleaning system including:
  - 1<sup>st</sup> stage by PalMac with 28 cones
  - 2<sup>nd</sup> stage by PalMac with 10 cones
  - 3<sup>rd</sup> stage by Celleco with 8 cones
  - 4<sup>th</sup> stage by Sulzer-Escher-Wyss with 2 cones
- Two disks thickeners by Comer
- Wire press is by Andritz, type CPF 2000
- Maule thickening system composed by one inclined screw thickeners with two units (type MB75/2) and a dewatering screw press GR-II type
- Dispersing system including one heated screw having 1100 mm diameter and length 9000 mm,

high consistency disperger De Pretto – Escher-Wyss type HD3 with electric motor of 550 kW - 660V

## 8. De-inking plant pictures



## 9. Enclosures

Front view drawing of the paper machinery

## 10. Contacts

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