

# Rhein Papier GmbH Project Hürth PM1 Germany



Photo: Laubner-Luftbild, Bonn und Berlin

**A greenfield newsprint mill with a production capacity of 280 000 t/a.**

## PÖYRY SERVICES

- engineering management
- time scheduling
- process engineering
- mechanical and piping engineering
- HVAC engineering
- electrical engineering
- process control engineering
- engineering tools: 3D Model, ProElina, WebPub
- CamC web-based surveillance camera application
- assistance in erection supervision
- assistance in commissioning and start-up

## Schedule

Started up at the beginning of July 2002. Project implementation time 16 months.

## Total investment

EUR 280 million

## TECHNICAL DATA

### Product

Standard newsprint in the grammage range 36-48 g/m<sup>2</sup>

### Raw material

Waste paper

### Deinking plant

- one line
- production capacity 880 BDt/d
- supplier: Voith Paper Fiber Systems
- waste paper storage 9300 m<sup>2</sup>

### Paper machine

- PM1 supplier: Voith Paper
- production capacity 280 000 t/a
- furnish 100 % deinked pulp
- production speed 1800 m/min
- design speed 2200 m/min
- wire width 8900 mm
- trim width after winder 8100 mm
- 1-nip Ecosoft calender
- paper storage 12 300 m<sup>2</sup>

## Winders

- 2 winders VariFlex L, supplier: Jagenberg
- 1 rewinder VariFlex S, supplier: Jagenberg

## Roll handling

- capacity 2160 reels/d
- 1 wrapping line, supplier: Lamb

## Effluent treatment system

- coarse and fine screen
- 1 flotation cell, supplier: Meri
- 2 cooling towers
- 2 mixed bed biofilm reactors, supplier: Metso
- external post-treatment at a joint treatment plant

## Automation

- main supplier for process and machine control: Siemens

## Electrification

- main supplier for electrical equipment: Siemens

## Pöyry Forest Industry Oy

P.O.Box 4 (Jaakonkatu 3), FI-01621 Vantaa, Finland

Tel +358 10 3311, Fax +358 10 33 21818, www.forestindustry.poyry.com

**Competence. Service. Solutions.**