

# Pulp and Paper

## Smar's Growth Tree

- HSE/Profibus

2008

- Density transmitter

- Foundation Certificate

2004

- Fieldbus, Positioners

1999

- 1st Fieldbus System

- 1st Chip Fieldbus/Hart

1994

- DCS

- Multiloop Controller

1988

- Intelligent transmitter

- Smar is Born

1974

## Some Clients

### Pulp & Paper

- Cambará (Brazil)
- Star Papers (India)
- International Papers (Brazil)
- UPM Kimmene
- Klabin (Brazil)
- Norske Skog (Norway)
- Lwarcel (Brazil)
- Tetrapak (Sweden)
- Billerud (Sweden)
- Metso (Brazil)
- Suzano (Brazil)
- CMPC (Chile)
- Votorantim (Brazil)
- Jingbo (Hong Kong)
- Papelera Massuh (Argentina)
- SCA (Sweden)

### Others Segments

- Basf (Germany)
- Pemex (Mexico)
- Troll (Norway)
- BIPC (Iran)
- Duke Energy (USA)
- Rhodia (Brazil)
- Petrobras (Brazil)
- Parle (India)
- BHEL (India)
- Deten (Brazil)



**smar**  
www.smar.com



CEL PAPEL FE  
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Message





## Applications

### Pulp

- Long fibre
- Short fibre
- Others

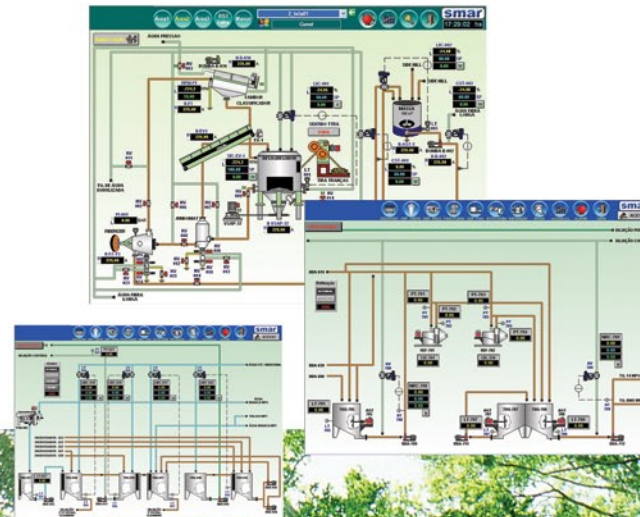
### Paper

- Kraft
- Board
- Printing and Writing
- Toilet Tissue
- Cigarette
- Art
- Photocopy
- Carbon-less
- Thermal
- Laminated
- Others

## Measurement and Control

- Pressure
- Temperature
- Flow
- Level
- Density
- Others

Controls entire plant economising raw material and improving product quality.



## Services

- Basic Engineering
- Detailed Engineering
- Configuration
- FAT
- Installation Supervision
- Commissioning
- Start-up
- Technical Assistance

