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# Santander - portal reclaimer

## Reference



## Description

**Project** Montanjes Industriales MASA

**Investor**

**Place** Santander, Spain

**Year** 2008-2009

**Delivery scope** *Control cabinets for AC drives, control system and visualization*

## Specification



**Control system**

§ *Simatic S7-300*

(with Siemens ET200 remote I/O's)

**Storages of friable materials**



## HMI

- *Operator panel OP170*  
Visualization in ProTool

## Communication

- § *Profibus, Profibus-DP*



## Drives

- § *SIEMENS Micromaster*



## Technology

- § Machine: 2x portal reclaimer
- § Machine output: 1 500 t / h
- § Installed power : 470 kW
- § Drives: chain, 2x hoist, travel