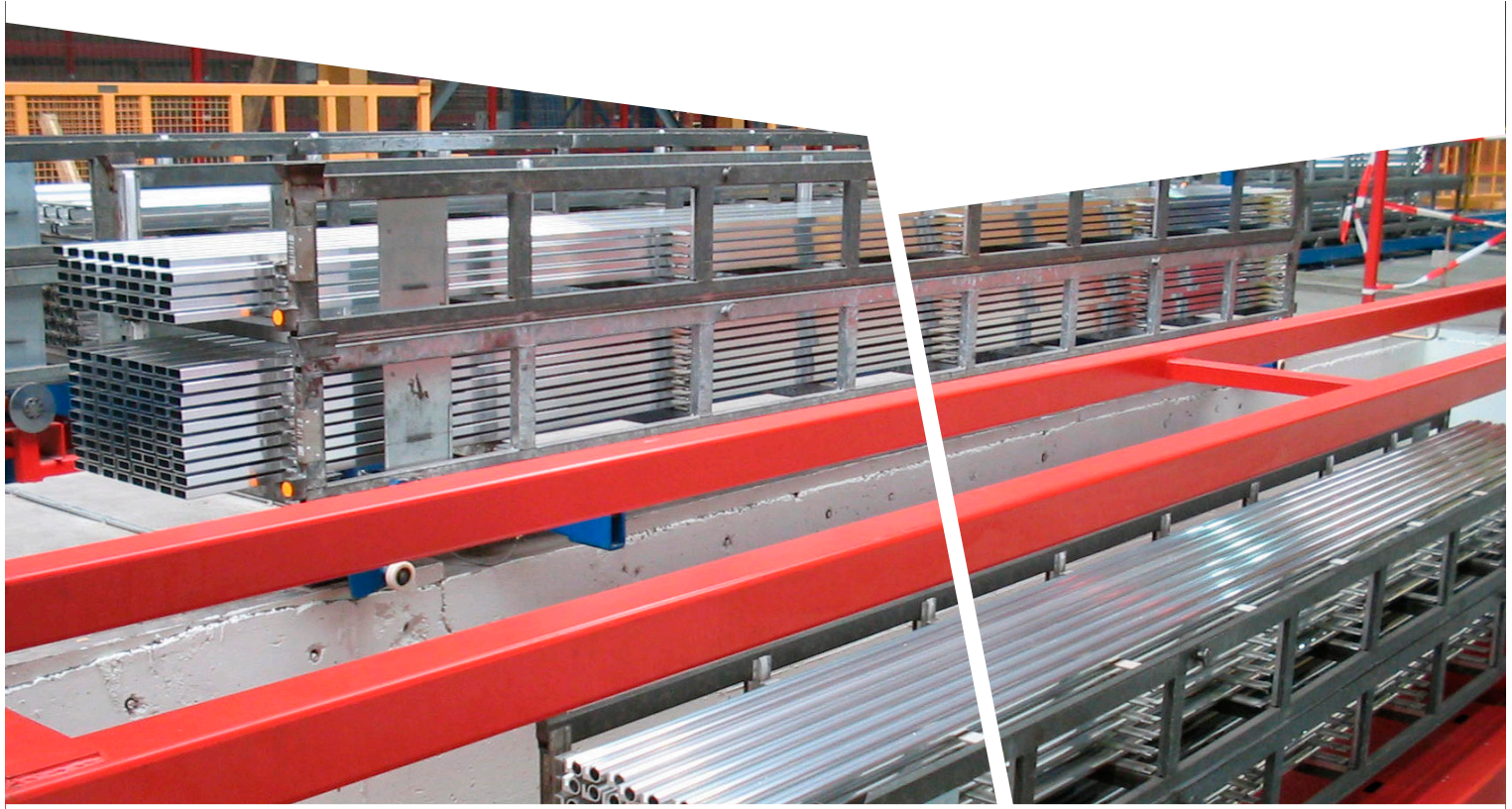


REFERENCE

Production logistics for aluminium profiles



COORDINATE MATERIAL FLOWS
THROUGH TWO SITES

apt[®]
HILLER GMBH
ALU-PROFIL-TECHNIK

Unitechnik
PERFECTION AUTOMATED.



APT HILLER GMBH

DAIMLERSTRASSE 10, 40789 MONHEIM, GERMANY

Key data of the facility

3 storage areas:

- 1 portal crane each stacking height max. 6 transport containers

Conveyor technology:

- Chain conveyors
- 3 hoists / elevators Shuttle vehicle between the sites(14 transports per hour)

Load transporters:

- transport containers for 8.10 m long
- profiles Max. weight 3 tons

Intra logistics in the pressing plant

The company, apt Hiller GmbH, is a manufacturer of aluminium profiles, as are used in respect of windows and doors, football goalposts and trade fair stands. For the manufacture of these profiles a 480° C hot press bar with up to 4,000 tons of pressure is pressed into a mould. The approximately 50 m long profiles are then subsequently stretched, sawn to lengths of 8 meters and placed correspondingly into the transport containers. Depending on the requirements the transport containers run through the further operations of manufacturing: hardening ovens, anodisation, subsequent processing, packing and dispatch. These are combined flexibly through automatic conveyor technology, crane facilities and a shuttle vehicle. 3 storage spaces of different sizes serve as buffer zones in which the transport containers are stacked. A particular requirement for the transport system is the coordination between the pressing plant and the anodising plant, which are at 100 m distance from each other.

Scope of Unitechnik contribution

Control technology:

- Simatic S7-400 Profibus-DP

Transport management system:

- Product administration in the Storage spaces (7 transport container types)
- Handling of transport container stacks
- Coordination of all transports
- Integrated plant visualisation
- Communication with ERP system

Control cabinet construction, assembly, commissioning and training Service contract

Overall responsibility:

Vollert GmbH+Co.KG

Completion: 2006

Unitechnik Systems GmbH

Fritz-Kotz-Straße 14
51674 Wiehl, Germany

Fon +49 2261 987-0
Fax +49 2261 987-588

logistics@unitechnik.com
www.unitechnik.com

Unitechnik
PERFECTION AUTOMATED.