



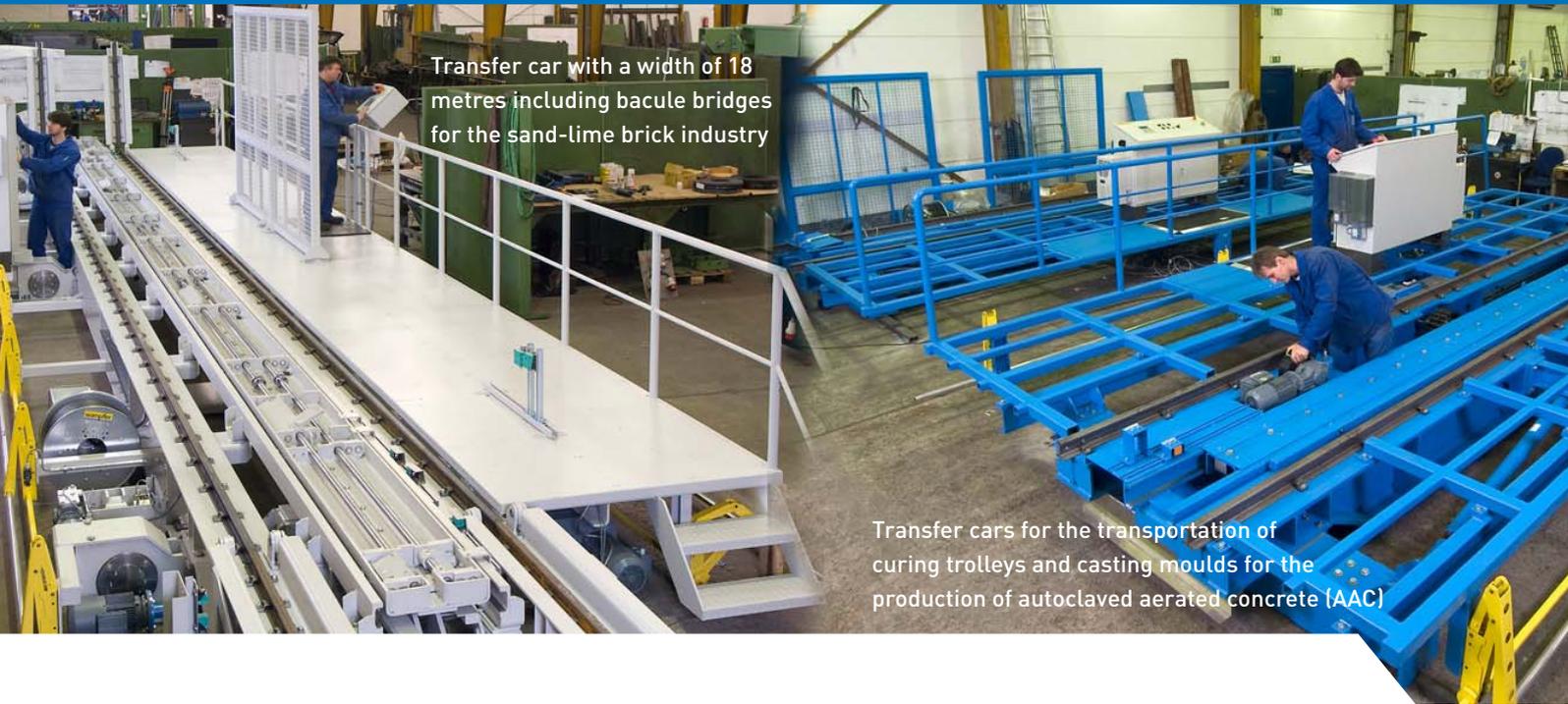
DRYING



CONVEYING



DE-DUSTING



Transfer car with a width of 18 metres including bacule bridges for the sand-lime brick industry

Transfer cars for the transportation of curing trolleys and casting moulds for the production of autoclaved aerated concrete (AAC)

Custom-made transfer cars

Münstermann's transfer cars are specially designed for a particular task in hand. This can mean the modernization of existing plants, extensions or completely new plants which are to be designed and developed. The customers profit from the experience from the different fields of application. This can range from the simplest version to servo-technical equipment for highly-dynamic types of operation. The transfer cars have a load capacity of up to 85 tonnes and the used conveyors pushing forces of up to 50 tonnes. Depending on use and the customer's requirements every special solution is in principle realizable. Typical uses are for tunnel kiln cars, tunnel dryer cars or trolleys.

Advantages at a glance:

- Specially designed cars for specific tasks
- Exchange of existing transfer cars without additional work on the foundations
- Modernization of old plants with the minimum of down time founded on sound project management
- Careful transport of materials including products which are liable to tip over
- Highly dynamic drive systems for short cycle times
- Multifariously applied and well-tried engineering methods and technologies
- Much experience in a variety of fields of application
- Cost-effectiveness as a result of the use of the modular assembly methods
- Customer's wishes can be fulfilled working directly together with our designers

Technical specifications

- Measurements of the products to be transported can be up to 16 metres in car length or width
- Car weight up to 85 tonnes
- Speed of conveyor up to 90 metres per minute
- Design for up to 4-lane cars

Examples of experience made in different branches and field of application:

- Ceramic industry (bricks and tiles, china etc.)
- Refractory materials
- Sand-lime brick industry and AAC producers
- Vitrified clay production
- Production of fireproof glass
- Chemical industry
- Food industry



MÜNSTERMANN

WE DEVELOP SOLUTIONS

INNOVATIVE PLANT ENGINEERING FROM GERMANY

Platforms with four rails for picking cars of different track width

Transfer cars with a shifting force up to 50 tonnes for a brick works

Transfer car with integrated laser scanners for handling of large-sized vitrified clay pipes

Transfer cars for transportation of kiln cars when loaded with chinaware



Solutions for special applications

Münstermann's transfer cars are specially designed and developed to the customer's specific requirements and optimized to fit the use on hand. In some fields of application, in addition, special standard solutions are offered in the modular form. The transfer cars are capable of taking a shift force of up to 50 tonnes where, in principle, single or two-lane conveying models are possible. The use of a wide range of conveyors on the platform allows that a whole chain of cars can be shifted on the landside rails.

Examples of conveyors are

- Mechanical conveyors such as chain conveyors (even telescopic), tooth raked conveyors, friction wheels (up to a contact temperature of 170°C)
- Hydraulic pushing devices also with high shifting forces

Control system included

The core component of a modern transfer car is its optimized control system. Münstermann's transfer cars have the control cabinet sited mainly on the platform. The cabling of the sensors and actuator can be fitted into a terminal box from which the customer's control system can be connected and operated.

The control of the unit itself is possible via luminous

push-button keys, touch panels and mobile panels. The control concept makes it possible, on request, to make all driving machinery frequency regulated.

The right position

The positioning of the transfer cars is made accomplished by means of up-to-date sensors. The track selection switches are all fitted as inductive proximity switches. As well as this laser distance sensors or shaft encoders are brought into use on the rotary encoder depending on the application.

Integrated safety concept

The demands of working safety are permanently increasing. This is especially true with regard to the modernization of production machinery which requires much experience to seize upon the right safety measures. Münstermann's transfer cars can be provided with, amongst other things, the following safety devices:

- Safety strips for the safety of the operating personnel fitted to the outside of the unit
- Optional bumper boards or ultrasonic sensors
- Laser scanners with a high speed of over 30 metres per minute which will identify either personnel or objects on the tracks ■

