

Prinzing Pfeiffer GmbH, 89143 Blaubeuren, Germany

# Handling systems for optimum manhole manufacturing

**Prinzing Pfeiffer can provide customers both with very high-quality pipe and manhole ring machines, and also supply appropriate handling systems for optimised manufacturing processes with base pallets and other products. Their product portfolio is rounded off by this important segment of a comprehensive range of high-performance solutions that have been proven in practice. In addition to self-sufficient, stand-alone solutions, e.g. for removal of base pallets as well as cleaning and oiling them, handling systems can also be integrated into entire production lines.**

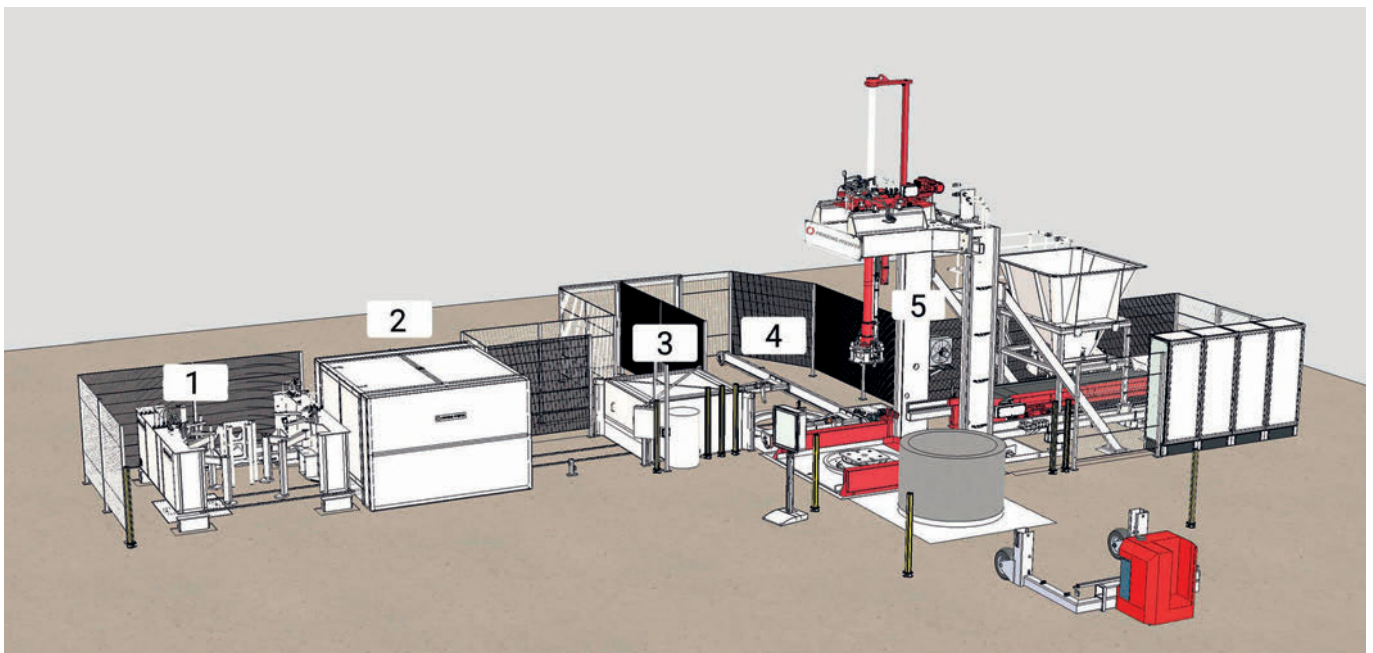
The Prinzing Pfeiffer base pallet handling system can take over the complete handling process, thereby supporting the high-performance concrete manhole production line and optimising quality requirements. In most cases, the base pallet handling system is connected directly to the production machine. The steel, sheet metal or casted base pallets required for manufacturing pipe and manhole elements are thus prepared and made available for the production process.

Depending on requirements and individual design, the base pallet handling segment comprises six main areas: removal, separating, cleaning, oiling, stacking up and finally feeding

into the production machine. The individual steps are automated in most cases. Different stations are freely configurable among each other and can be combined according to customer requirements.

The process begins, for example, with separating base pallets that have been removed from concrete manholes in advance and delivered in a stack. Prior to cleaning, base pallets are placed in a stack of up to 20 pieces in the stacking station. An adjustable stop or a centering station aids in attaining an exact depositing position with a ground conveyor vehicle. After separation, the base pallet is fed via a chain conveyor into the cleaning station, which is encapsulated to prevent dust from escaping. In the cleaning station, the base pallet is fixed in position after reaching the stop point detected by sensors. The base pallet is then cleaned along its contours by several rotating steel brushes. Scrapers remove any concrete residue adhering to the inner and outer diameters at the same time. Two large doors on both sides allow very good access for modification or cleaning work.

After the cleaning process, it is possible for the base pallet to travel to a position for mounting integrated sealing systems.



3D drawing of the handling system for optimum manhole manufacturing: 1 Stacking station for separation; 2 Base pallet cleaning; 3 Oiling station; 4 Feeding by ratchet feeder; 5 Tornado 150/150

# AGRUSAFE CONCRETE PROTECTION

AGRU-Ultra Grip concrete protection liners  
for the ultimate grip in concrete



#### HIGHEST PULL-OUT STRENGTH

50 % higher pull-out strength than conventional concrete protective liners

#### RESISTANT TO BACKPRESSURE

Water backpressures of up to 1.75 bar are permanently withstood

#### HIGH NUMBER OF STUDS

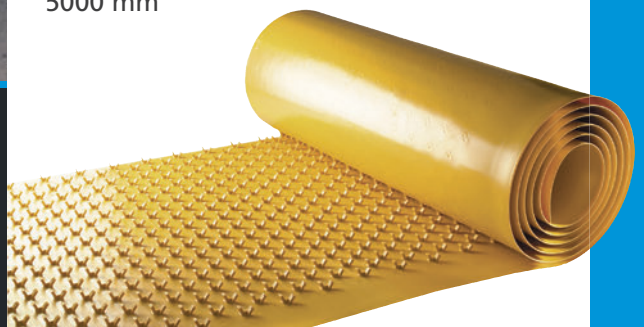
420 anchor studs per m<sup>2</sup> are an integral part of the liner

#### DURABLY SEALED SURFACES

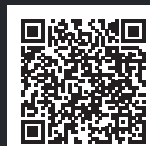
>2200 N/stud shear resistance and 82 t/m<sup>2</sup> pull-out resistance for maximum safety

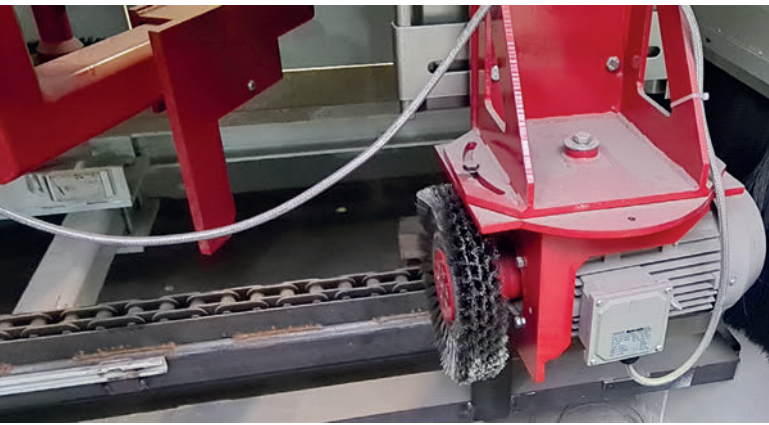
#### WIDE PRODUCT RANGE

Available in PE and PP in widths up to 5000 mm

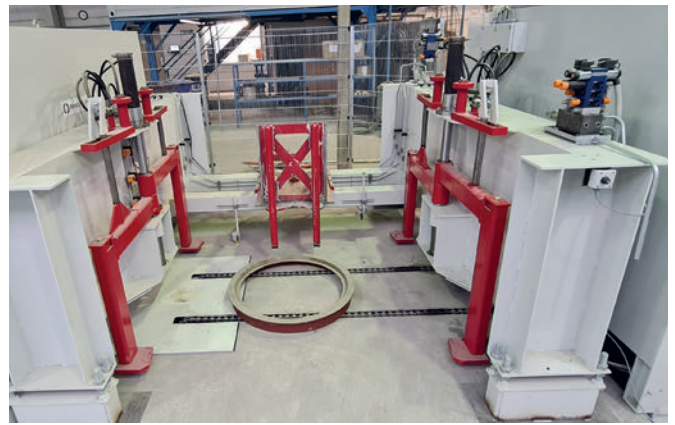


The Plastics Experts.





Cleaning with several steel brushes



Stacking station for base pallets

The base pallet oiling station is also completely enclosed so that no oil mist can escape into the hall area. The oiling station does not have to be modified to accommodate differing nominal diameters, thus saving a great deal of time when changing dimensions.

The cleaned, oiled base pallet is now ready for the production process. A ratchet feeder pushes the base pallet into the centre of the machine. If required, this feeder can also eject freshly produced concrete products next to the machine for removal. Various configurations of the base pallet handling system allow it to be adapted to given space conditions and customer requirements.

State-of-the-art manhole manufacturing must be flexible, fast, safe and cost-efficient. It is no longer possible to get by without comprehensive handling equipment if a company is to remain competitive in the value creation process, meet customer expectations and adapt its level to advanced standards. Reliability, robustness, low-maintenance solutions and ease of operation are all demanded. Many concrete pro-

duction facilities are aware of the need of modernising their production lines in this respect. Prinzing Pfeiffer can offer an appropriate all-inclusive package. ■



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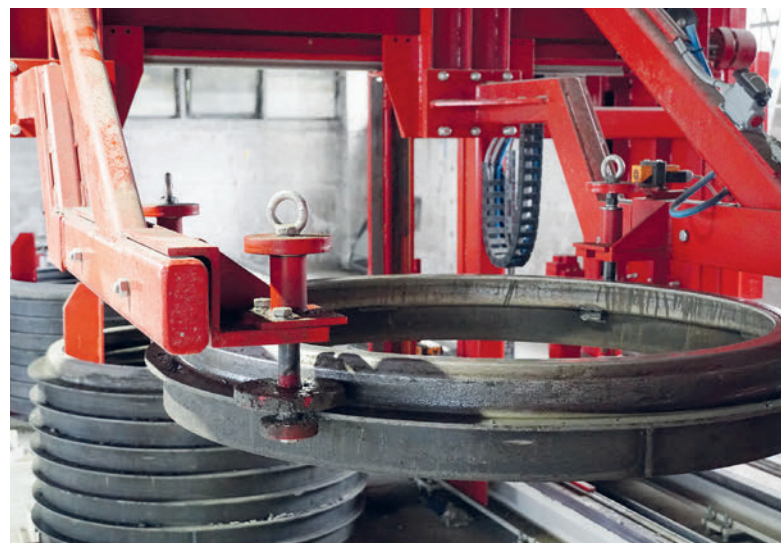
FURTHER INFORMATION



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Stacking



Base pallet feeding into the production machine