



LATERAL LOADING SILOS



### **LOADING SILOS**

# High level of flexibility and individual customisation



# Your experts for a comprehensive plant solution

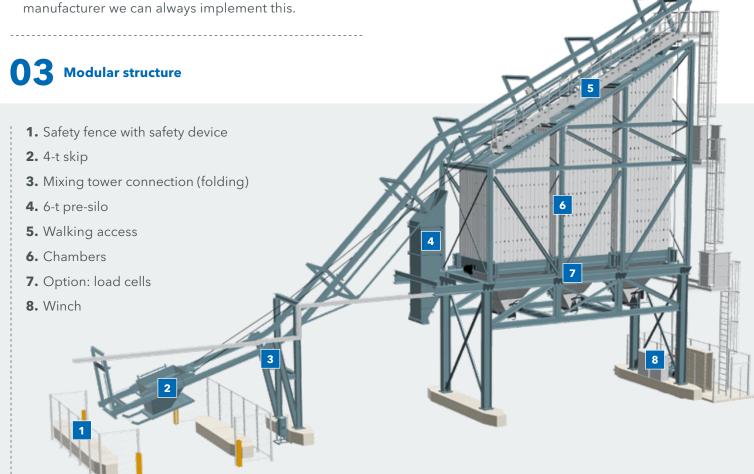
- > Made by BENNINGHOVEN everything from a single source (plant including loading silo)
- > Made in Germany
- > 4,200 mm clearance height
- > Modular structure
- > Can be universally adapted to all plant types new and existing plants
- > Option: TA-Luft compliant housing and extraction system for the bituminous vapours
- > Weigh bridge or load cells (overload protection, loading accuracy ±100 kg)
- > Option: long-term storage
- > Local control for loading a transport vehicle

### **CLEVER MODULAR SYSTEM**

#### The right plant solution for any requirements profile

## **Q** Advantages of lateral loading silos

- > Suitable solution if height restrictions are in place (airport nearby, etc.)
- > Easy to implement installation without concrete foundations possible
- > The connection to the mixing tower is always very individual (especially on existing plants), but as a plant manufacturer we can always implement this.



### **COMPONENTS**

## **04** Silo

- > Clad with profiled sheeting
- > Silo with one filling port including safety grid, filler lid closed
- > Insulated against thermal loss all around (mineral wool, 100 mm, 80 kg/m³)
- > Discharge cone insulated against thermal loss (mineral wool, 130 mm, 80 kg/m³)
- > Filler lid insulated (50 mm, 80 kg/m³)
- > Pneumatically actuated, electrically heated discharge doors

## 05 Pre-silo

- > Pneumatically actuated, electrically heated discharge doors
- > Mastic asphalt optional





# 06 Skip track

- > Material transfer between mixer and lateral loading silo with an inclined skip, guided on a rail system
- > Large skip with a capacity of 4 t
- > Lined with extremely wear-resistant, bolted-on material
- > Skips are drained through mechanically actuated valves in the bottom.
- > Release agent can be sprayed into the skip if necessary to prevent adhesions.



### **COMPONENTS**

#### High working and functional reliability

## **07** Easy and safe maintenance

For inspection and maintenance work, the roof of the loading silo is equipped with stairs with a surrounding hand rail and with a platform at the highest point of the silo. Accessible via a permanently installed ladder with back protection, optionally via stairs along the skip track path.

- > Maintenance of the filler lid
- > Skip mechanically secured for direct loading on the mixing tower

## **08** Protective devices

> Safety fence - through double gates with key transfer system or with a light curtain for securing the loading area underneath the asphalt mixing plant

# 7A-Luft option (German legislation)



## 1 Temperature monitoring

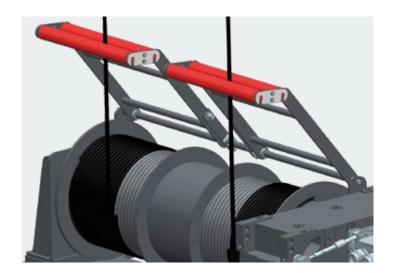
- > Temperature probes (IR probes) for determining the material temperature on the silo outlet, i.e. on all silo chambers and on the pre-silo (option)
- > The data are visualised in the control and documented.

## 1 1 Winch

Inclined skip driven via a winch, positioned for easy maintenance access, close to the ground next to the loading silo

The winch is equipped with an optimised slack cable safety using a floating guide roller mechanism for maximum work safety; the brake on the winch has a triple safety:

- 1. Air gap monitoring
- 2. Wear monitoring
- 3. In case of maximum wear brake locks and remains closed



### **SILO CAPACITIES**

#### TECHNICAL DATA FOR LATERAL LOADING SILOS

General information	
Pre-silo	6 t
Foundations	Transortable. steel foundations / static concrete foundation
load cells	yes / no
Skip	4 t
Skip track, lower section	Folding
Skip track housing	Individual option
Clearance height	4,200 mm
Type 80 t - 1 chamber	
Chamber 1	80 t
Clearance width	3,100 mm
Type 180 t - 2 chambers	
Chamber 1	80 t
Chamber 2	100 t
Clearance width	6,550 mm
Type 300 t - 3 chambers	
Chamber 1	80 t
Chamber 2	100 t
Chamber 3	120 t
Clearance width	10,000 mm
Type 450 t - 4 chambers	
Chamber 1	80 t
Chamber 2	100 t
Chamber 3	120 t
Chamber 4	150 t
Clearance width	13,450 mm





BENNINGHOVEN
Branch of Wirtgen Mineral
Technologies GmbH

Benninghovenstraße 1 54516 Wittlich Germany

T: +49 6571 6978 0 M: info@benninghoven.com

> www.benninghoven.com