MAMMUT

BOX CULVERT SYSTEMS FOR YOUR SUCCESS – BFS – THE TECHNOLOGY LEADER

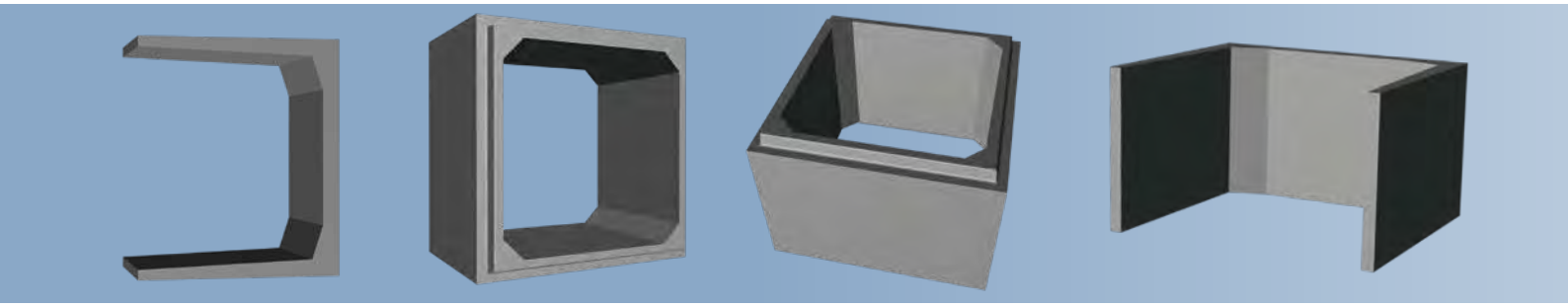
BFS

Part of the Afinitas family

MAMMUT

The MAMMUT from ***BFS*** is the high-performance, robust powerhouse for the production of box culvert products and other large-size concrete elements. Powerful vibrating table technology ensures streamlined manufacturing in line with the highest demands on quality.

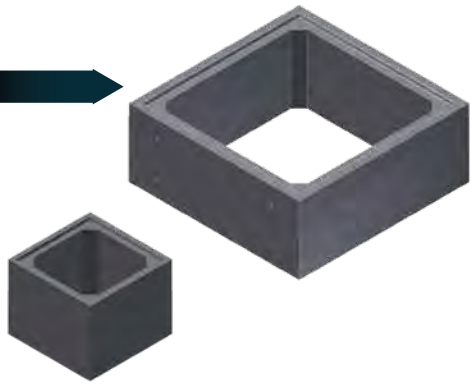
MAMMUT-PRODUCTS:



MAMMUT ADVANTAGES AT A GLANCE

1 Range

Depending on the requirements, different machine sizes are available for selection – from the small M4030 (table surface 4m x 3m) up to the large M8668 (table surface 8,6m x 6,8m).

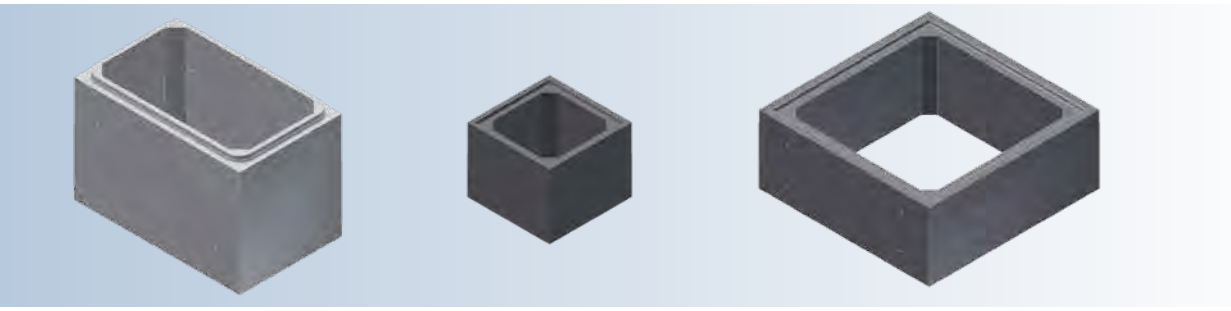


2 Product quality

The **MAMMUT** is characterized by perfect dimensional accuracy and clean product surfaces.

3 Low-maintenance

Temperature-resistant vibrators, with external central electromotor drive, require extremely low-maintenance, even under the toughest climatic conditions, and ensure a trouble-free production.



Watch the product video here:

The prepared reinforcement cages on the base pallets are collected via crane by the mould jacket and placed into the system over the core.

With stable hydraulic clamping jaws, the jacket (including base pallet) is braced to the vibrating table…

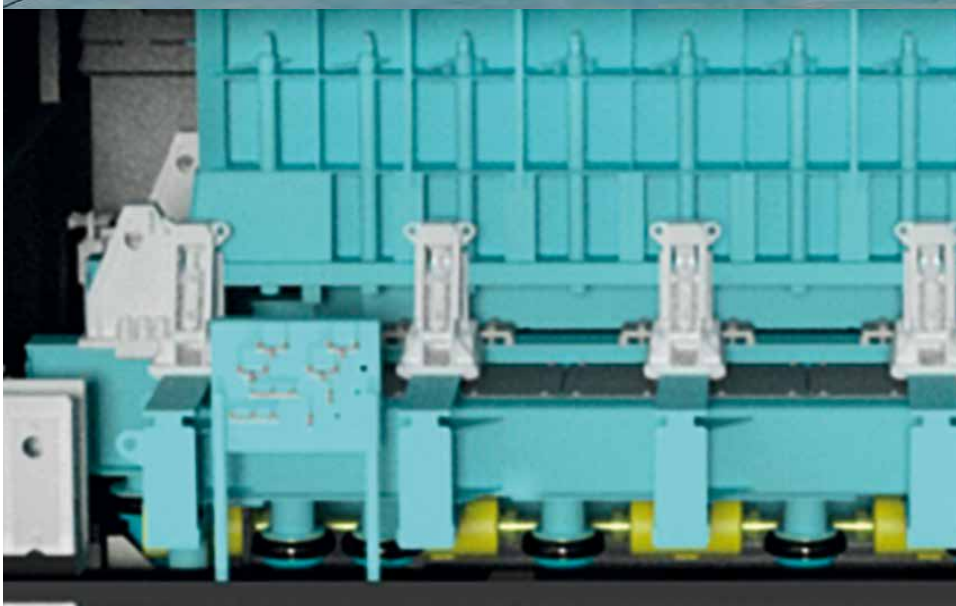
After the production process is completed, the jacket, including base pallet, product and spigot end shaper are gently lifted, ensuring maximum dimensional accuracy and allowing the box to be stored for curing. After the clamps between the jacket and base pallet have been released, the jacket can be lifted and is available for the next cycle.
To optimize the spigot end, the spigot end shaper remains on the fresh product for a defined period of time.

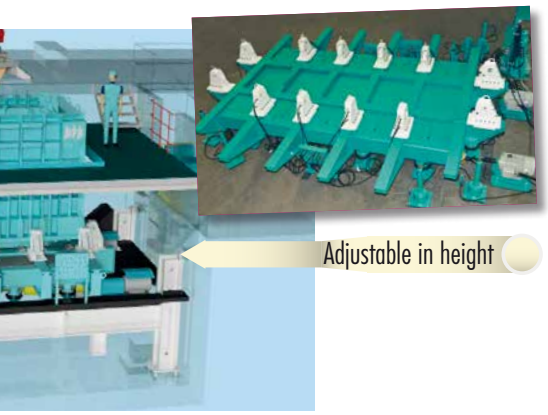
Customised designs are available for the spigot end. The spigot end is shaped under vibration, by eight hydraulic clamping cylinders integrated in the core. This production step is also completely automated. All parameters can be selected via the integrated touch screen.

The following options are available:

- Height-adjustable base frame for the vibrating table for using different mould heights
- Swivel pressing device for shaping the pipe spigot ends
- Semi or fully automatic crane demoulding
- Pipe handling equipment
- Equipment for turn over moulds (e.g. for manhole bases and container production)

BFS-MAMMUT



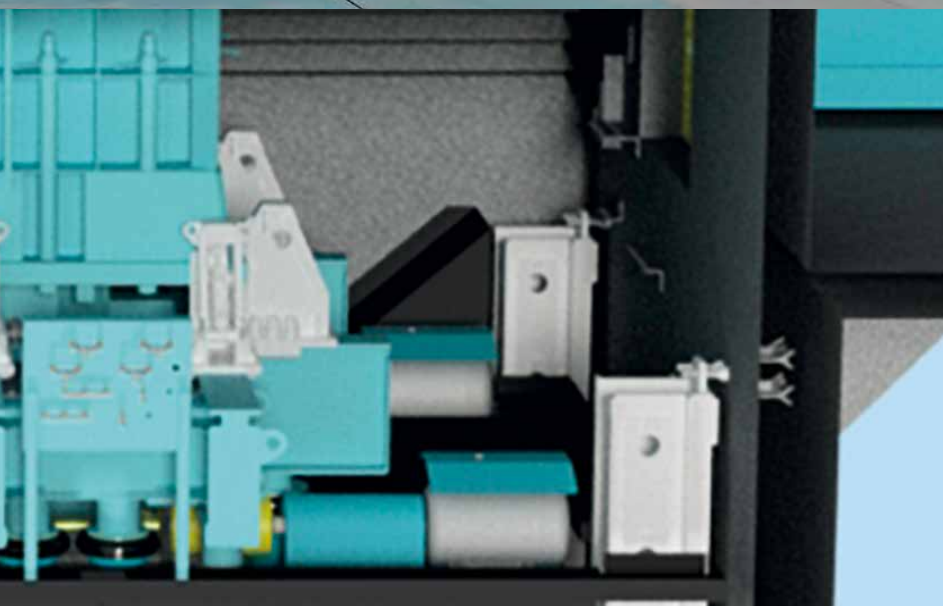


…the quick locking allows them to be moved freely over the table, enabling the production of different product sizes and types. The MAMMUT vibrating table is very stable and rigid, and is characterized by very smooth and powerful vibration, unfolding over the entire table surface. Here, the pneumatic controlled leveling system is used. As a result, the vibrating table's enormous power reserves can even cope with the biggest products.

The hopper of the concrete feeder is filled via conveyor belt or travelling bucket.

The CNC-controlled system precisely follows the respective product geometry, while the exact interaction between the pre-programmed control of the feeding quantity and the integrated laser measuring system guarantees a uniform mould fill level.

This process requires no manual intervention by the operator, as the contour control and frequency-controlled vibration are completely controlled by CNC. The Mammut achieves optimal, uniform compaction.



1

2

Two concrete feeding systems are available for selection.

- Linear feeding (x/y) for very large products and dual-box production (Figure 1)
- Swivel feeding with rotating discharge belt and CNC contour control (Figure 2)

Optionally, both concrete feeding systems can be equipped with laser fill height controls.

MODU-MOULD

With the sophisticated MODU-MOULD modular system, ***BFS*** offers a homogeneous concept. In small size increments, different components can be combined in a wide range of mould dimensions.

Mould cores, jackets, base pallets, spigot end shapers – all these elements belonging to the modular system reduce investment costs and increase production flexibility. MAMMUT moulds can be equipped with:

- Lifting anchor holding devices
- Transport hole device
- Assembly traction devices
- Reinforcement centering devices
- HDPE liner equipment
- Holding devices for mounting rails

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„Depending on the product and load, each MAMMUT is tailored to the needs of our customers with regard to load capacity, vibrating performance, and machine controls."

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