

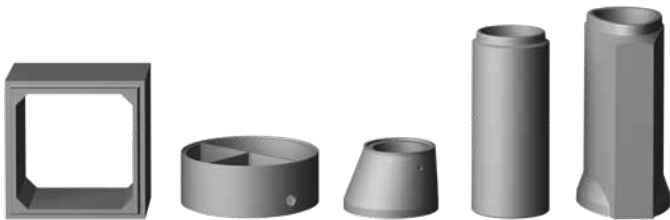


Flexible, efficient production
of large diameter products:

- up to 4000mm (12') diameter
- Quick changovers to produce almost any type of products.

Reliable versatility for Pipe and Manhole Plants

Afinitas knows a versatile piece of a equipment can be invaluable to your operations. That's why the BFS Jumbo has become a trusted machine for the production of reinforced and non-reinforced concrete pipes and manholes up to 4000mm (12') diameter. In addition, the Jumbo also produces manhole products such as manhole rings and base units.



High Quality Concrete Products in All Sizes

While the BFS Jumbo is ideal for producing reinforced and non-reinforced concrete pipe, the machine also allows for quick changeovers to produce almost any concrete product. Here's a brief overview of how the Jumbo system is able to maintain consistent levels of quality no matter the product size:

- The rotating concrete feeding unit of the Jumbo together with rotating distribution conveyor belt efficiently transports concrete into the mold.
- A frequency-controlled drive handles the uniform filling of the concrete to ensure optimal distribution for the specific concrete products being produced.
- A central vibrator that contains several vibrator units, depending on concrete pipe length, gives intensive and continuous compaction.

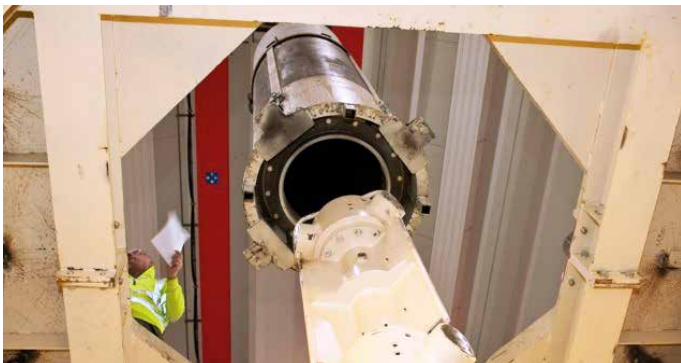


| Types of Jumbo R | | Maximum Length | |
|------------------|----------|----------------|----------|
| Maximum DN | 2.500 mm | 3.000 mm | 3.500 mm |
| 1.500 mm | JR 1525 | JR 1530 | JR 1535 |
| 2.000 mm | JR 2025 | JR 2030 | JR 2035 |
| 2.500 mm | JR 2525 | JR 2530 | JR 2535 |
| 3.000 mm | JR 3025 | JR 3030 | JR 3035 |
| 3.600 mm | JR 3625 | JR 3630 | JR 3635 |

Powerful Central Vibration

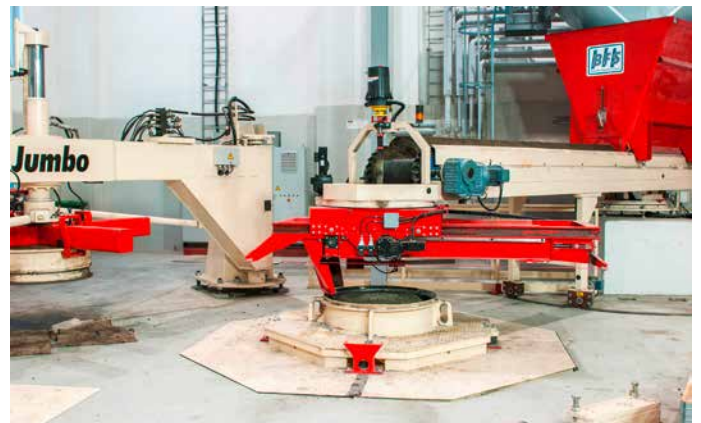
There are many advantages to Jumbo's multi-level central vibration system, including:

- hydraulic-quick-clamping system in every vibrator for fast conversion
- modular construction system for vibrator units for production of different lengths and optimal adaptability to the products
- generously calculated vibration forces and a standard number of revolutions of 4200 rpm guarantee intensive compaction
- additionally equipped with a frequency converter or a frequency regulator for optimizing the concrete quality
- maintenance friendly with grease lubrication: easy, reliable and problem-free
- vibration cross: non-flexible with quick clamping system



BFS Concrete Feeding System Options

- Feeder with rotating feeder belt is a standard concrete feeding system available with CNC feeding track control, laser filling system and remote control
- Feeder filling system with filling box and rotating distributor star. This system is for manhole base and septic tank rings that are fast filling without a cage.
- Combi-feeder with cross movement. This is an exchangeable filling system filling box and rotating belt.
- Feeding unit with rotating chute and scraper.
- Feeder with height-adjustable distributor star designed for manhole and manhole base production.



Quick Changeovers with Jumbo

BFS Jumbo change-overs to concrete elements in different lengths can be accomplished in minutes utilizing a lifting frame with stable guiding columns and quick connectors to enable fast height adjustment.

- Quick clamping device for inner mold/vibrating cross
- Spigot former quick release



Jumbo Liner

Jumbo – flexible and efficient production of concrete pipes and manholes as well as various special elements up to a diameter of 3.600 mm. Extension: Version Jumboliner for manufacturing of PVC and HDPE lined products.



Afinitas adds more BFS technology to meet your requirements:



Lifting, Tilting Devices

- Single beam
- Cross beam
- Single beam yoke with hydraulic load center adjustment
- Hydraulic pipe claming/tilting



Lubrication System

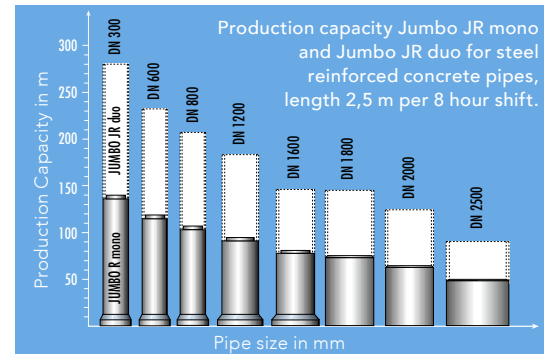
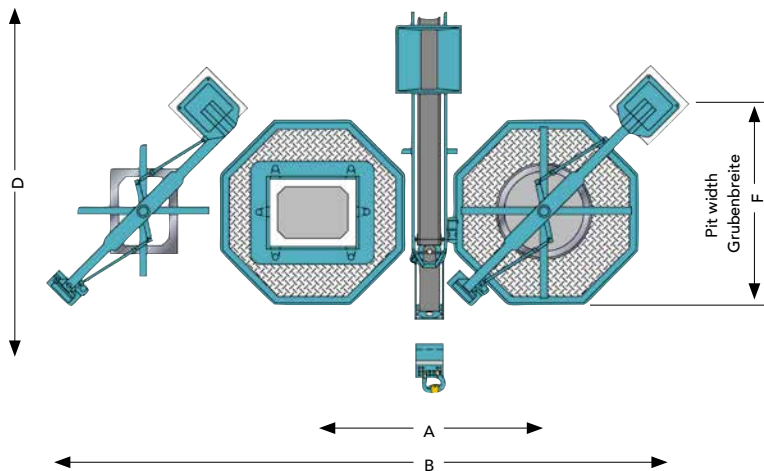
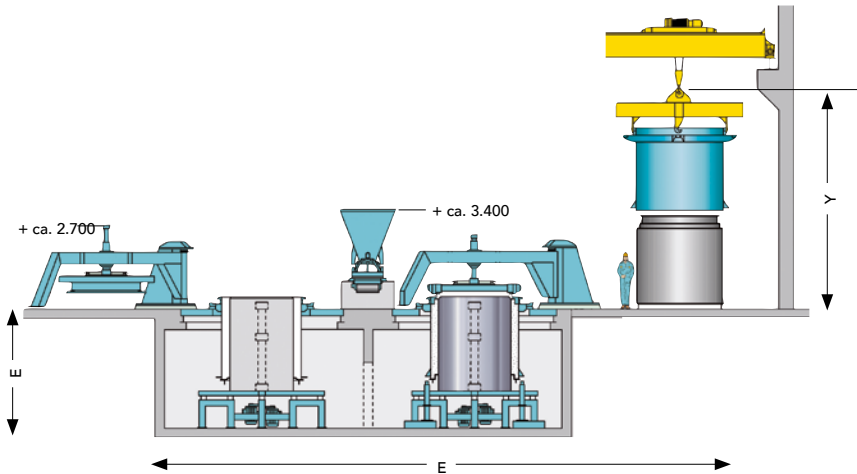
The BFS lubrication system automates the handling of high temperature grease and has an indicator that alerts the operator when the lubricant is running low. This avoids vibrator damage and production delays.



Jumbo Finitec

The BFS Jumbo-Finitec system creates a perfectly formed and exact length finish at the spigot end. The oscillating pressed steel spigot forming ring of Jumbo-Finitec is left on top of the product until the end of the curing phase ensuring an incredibly smooth spigot end and a precise contour.

Two Jumbos in one for maximum production flexibility and output



The strength of JUMBO R DUO: Alternative production with two different size equipments. Parallel manufacturing increases the daily output.

| Model* | A | B | C | D | E | F |
|------------|------|--------|------|--------|-------|------|
| Jumbo 1500 | 4500 | ~12500 | 4000 | ~8000 | 8500 | 4000 |
| Jumbo 2000 | 5000 | ~15000 | 4000 | ~8500 | 9500 | 4500 |
| Jumbo 2500 | 5600 | ~17000 | 4500 | ~9000 | 10700 | 5100 |
| Jumbo 3000 | 6100 | ~19000 | 5000 | ~10000 | 11700 | 5600 |
| Jumbo 3600 | 6900 | ~22000 | 5500 | ~10500 | 13300 | 6400 |

*Technical changes

reserved.

| | X | Y |
|-------------|------|------|
| Length 2000 | 3400 | 5700 |
| Length 2500 | 3900 | 6700 |
| Length 3000 | 4400 | 7700 |
| Length 3500 | 4900 | 8800 |



Vibration Table

With the BFS Jumbo you can choose from a steel spring suspension or air spring suspension vibration table system.



Laser Feed Control

With the BFS Jumbo laser feed control system the quantity and the level of the concrete is precisely controlled and distributed.



Contour Regulation

BFS Jumbo's automated contour regulation enables the exact feeding of products with irregular sections. The system precisely feeds the concrete into every corner of the mold.

Jumbo R – guarantor for quality products in all sizes

The classical pipe machine for reinforced and non-reinforced concrete pipes – rugged, reliable and universal.

1. Manhole rings, manhole pipes, and manhole tapers, with and without elements.
2. Special inspection units, angular or non-round – the Jumbo is able to do almost everything.
3. Manhole base units, produced upside down with the patented Gonio-System results in extremely precise spigot ends.
4. Multi-chamber septic tank rings compacted with a central vibrator in each chamber.
5. Reinforced and non-reinforced concrete pipes according to international standards in every size. With special equipment reinforced and non-reinforced concrete pipes, manhole baseunits, rectangular manhole units and similar products can be expertly produced.
6. Reinforced and non-reinforced "lined" concrete pipe.
7. Jacking pipes by Jumbo R: Highest quality and close dimensional tolerances – also with double reinforcement.
8. Box culverts and rectangular pipes.
9. Small-bore concrete pipes with bell end or large, straight wall concrete pipes. Reinforced and non-reinforced.
10. Variety of possibilities: Some examples of pipe cross sections produced with the Jumbo R and the proven central vibration system.



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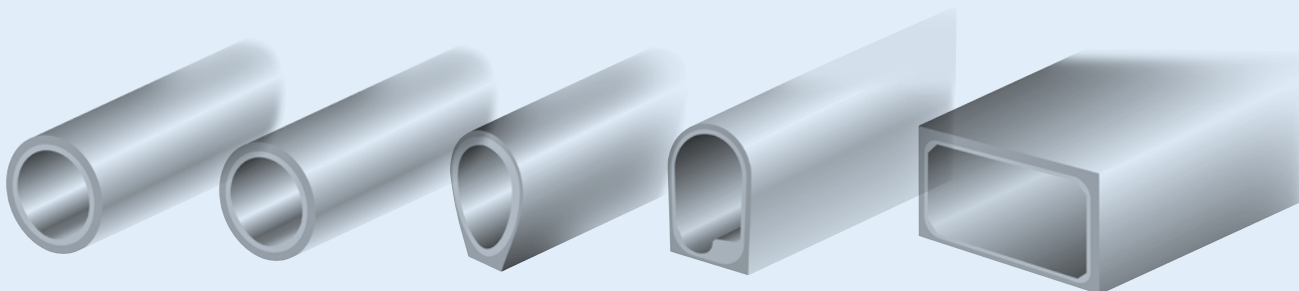
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BFS Jumbo Machine Series

Equipment & Automation
BFS | HawkeyePedershaab



Forming Systems
New Hampton | Spillman

Concrete Accessories
CAM | HawkeyePedershaab | Spillman



Intelligent Infrastructure Solutions
Visit www.afinitas.com to learn more.

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Intelligent
Infrastructure
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Afinitas is a global, comprehensive and customer-oriented infrastructure equipment and services platform that brings together the expertise of HawkeyePedershaab, BFS, New Hampton Metal Fabrication, Spillman, and CAM Products.

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