Multicast

Multicast 120 • Multicast 150 • Multicast 200 • Multicast 250

Multicast 300 • Multicast 360 • Multicast 400 • Multicast 450

Hawkeye Pedershaab
Concrete Technologies Worldwide™

- Efficiently manufactures a wide range of products
- Versatile and flexible
- Streamlined, ergonomic design
- Quick mold changeover
- Simple to operate and maintain

Multicast

Versatile manufacturing machines

Multicast dry-cast machines are the perfect solution for applications that require versatility, productivity, and manufacturing flexibility. The Multicast series of machines comprise a comprehensive range of production stations and vibration systems, facilitating the design of machines with production capabilities up to 4000mm (156") diameter pipe and 4.0M x 4.0M (13'x13') box sections.

Multicast machines are available in either single or double station arrangements. Each station can be specified independently with respect to size and/or vibration system, permitting the manufacture of virtually any kind of pipe, box culvert or manhole product. Various feed and vibration systems, such as automatic X-Y laser-controlled concrete feeders and vibrating tables, are available to optimize production. Ergonomic mold mounting components position molds of any length to a single, uniform working elevation.

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System Benefits

Manufacturing flexibility. A single machine can produce a wide range of products, including concrete pipe, box sections, and manholes. Additionally, the Multicast is well-suited for the production of lined concrete pipe, jacking pipe, and a full range of manhole products.

Productivity. Multicast utilizes the vibration production process as compared to slower, more labor intensive methods such as the wet-cast process. Multicast's advanced feed, vibration, and pressing technology makes for the efficient manufacture of high-quality concrete products.

Ergonomic design. The Multicast is designed for ease of operation and safety. Form sets are recessed into the production floor and closely accessed with a floor-level platform system. An adjustable form mounting system elevates all forms, regardless of length, to a comfortable, uniform working height. The filling and pressheading operations are mechanized and controlled from a central operator's console.

Quick mold changeover. Simple, pinned, machine-to-mold connections allow for quick mold changeover, eliminating costly downtime and increasing production flexibility to react to short orders.

Application centric. The Multicast can be configured to closely meet production needs. One or two station layouts are available, with each station individually sized and equipped, as desired, for the application.

Operation

All Multicast product-making processes are mechanized and controlled from a central operator's console. The machine can be equipped with manual, semi-automatic, or fully automatic controls. After the mold is filled, vibrated, and pressheaded, an overhead crane is used to offbear the finished product from the machine fully supported in the external jacket. The assembly is transported to the curing area and immediately demolded. The jacket is then returned to the Multicast machine for further production.

Standard Features

- Recessed production stations
- Floor-level operator platform system
- Mold mounting components, adjustable for uniform working heights
- Mechanized concrete feed system with distributor
- Hydraulic presshead system
- Quick change mold components
- Central operator console

Optional Features

- Automatic X-Y concrete feeders
- Automatic laser fill control
- Accessories for use of stay-in-place headers
- Lined pipe production accessories
- Form turnover system for manhole base production
- Cast-in steps or rungs
- Cast-in lifting anchors
- Automatic controls

There's a model ideally suited for the application

Manufacture manholes, concrete pipe, and box sections.

Manholes

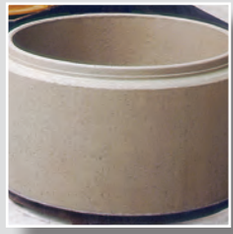
Smaller Multicast models are typically used to manufacture a wide range of manhole and specialty products. Products include manhole riser sections, cone sections, monolithic base sections, flat tops, base slabs, and square and rectangular catch basins. In addition to manhole production, these models can also be used to manufacture concrete pipe up to the size capacity of the machine.

Concrete Pipe

Mid-range and larger Multicast models are available for the production of concrete pipes from 300mm (12") to 4000mm (156") diameter. In addition to round pipe, non-round pipes such as arch, oval, and pre-bed pipe can be produced. These models are also ideal for the manufacture of specialty products such as jacking and lined pipe.

Box Sections

Larger Multicast models can be equipped to optimize the production of concrete box sections. Automatic X-Y box feeders and this industry's largest, most powerful vibration tables efficiently fill the form and densely compact the concrete for the highest quality product. Models are available to produce up to 4.0M x 4.0M (13'x 13') box sections as well as concrete pipe from 600mm (24") to 4000mm (156") diameter.



Multicast

Select your vibration.

Three styles available for optimum results.

To enable the most efficient production of a wide array of quality concrete products, Multicast is available with several vibration styles. Core vibration provides excellent results with round and cone-shaped products, whereas table vibration is better suited for other shapes. Multicast's choice of vibration styles provides optimum results for all your production.

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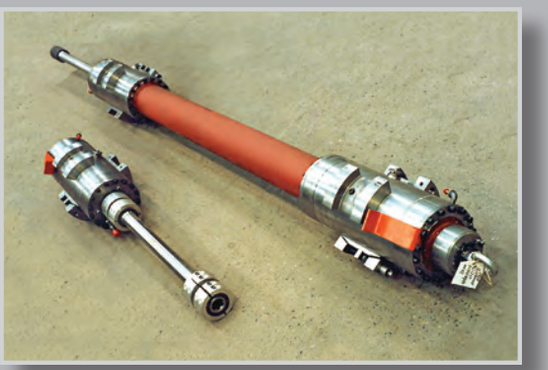
VIHY Vibration

The VIHY core vibrator is the industry's leading vibrator. Its precision build quality and dry-sump, oil-lubricated design allows for speeds and powers unmatched by competitive vibrators – permitting maximum compaction power, reduced cement consumption and maximum concrete densities.



SCV Synchronized Vibration

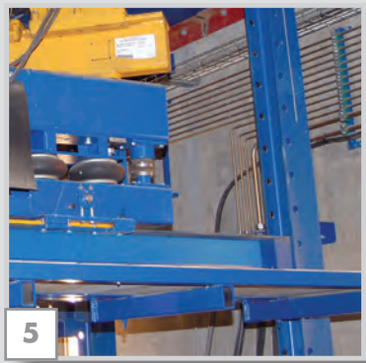
High-powered, built-in, electrically-driven core vibration system allows for the production of high-quality products and speeds up form changeover. The SCV vibrators are dedicated and remain with each core, eliminating the need to switch vibrators from core to core during changeover.

Table Vibration

The VIHY vibration table allows for the optimal production of many shapes that are difficult to compact with a traditional core vibration process. These shapes would include flat products, square products and irregular products. Table vibration greatly expands the production flexibility of the Multicast, enabling the manufacture of a vast array of concrete products.

The obvious choice for manufacturing flexibility.

Engineered for production efficiency.



1. X-Y Concrete Feeders
Computer-controlled X-Y concrete feeders automatically track the periphery of non-round products, such as box sections or elliptical pipe, to permit automatic filling. X-Y feeders are also used to feed machines equipped with a second production station.

2. Laser Fill Control
To permit automatic feeding, the Multicast's feed distributor can be equipped with a laser to continuously monitor the fill level of the form. Feeding automatically stops after the form is filled.

3. Hydraulic Presshead System
To ensure proper compaction and exact product lengths, a hydraulically-powered head presses and oscillates a spigot former into the filled form set. Pressing system is designed for use with a master spigot former or stay-in-place headers.

4. 360^0 Operator Platform System
The recessed molds are fully surrounded with a floor-level operator platform. The platform permits close and safe access to forms during production and crane hook-up and product offbearing.

5. Height-Adjustable Mold Mounting System
An adjustable mold mounting system positions all molds, regardless of length, at a consistent working elevation. System permits seamless manufacture when using molds of varying heights, such as a combination of manhole and concrete pipe molds.

6. Turnover System for Slab and Base Production
A crane-mounted rotator inverts molds to permit the efficient manufacture of slabs and manhole base products with monolithically poured bottoms. Rotator permits products to be filled in the "bottom up" orientation and then inverted for immediate demolding.

7. Optimal for Lined Pipe
Produce all varieties of lined pipe – HDPE, PVC, GRP, and others. No machine in the world is trusted in the production of lined pipe like Multicast.

8. Accommodates Adjustable Box Forms
Multicast accepts HawkeyePedershaab and other makes of adjustable box form equipment. The machine's flexible form mounting system and versatile table vibration process ideally accommodates the wide range of box sizes created with adjustable forms.

MULTICAST

Model	Pipe	Box	Manhole	
Maximum	Range	Range	Range	Product Length
Multicast 120	N/A	1M x 1M	Up to 1200mm	1.2M
	N/A	42″ x 42″	Up to 48″	4′
Multicast 150	300mm – 1500mm	1.2M x 1.2M	Up to 1500mm	3M
	12″ – 60″	4′ x 4′	Up to 60″	10′
Multicast 200	300mm – 2000mm	1.5M x 2.0M	Up to 2000mm	3M
	12″ – 78″	5′ x 6.5′	Up to 78″	10′
Multicast 250	300mm – 2500mm	2.0M x 3.0M	Up to 2500mm	3M
	12″ – 96″	6.5′ x 10′	Up to 96″	10′
Multicast 300	600mm – 3000mm	3.0M x 3.0M	Up to 3000mm	3M
	24″ – 120″	10′ x 10′	Up to 120″	10′
Multicast XL SC 360	600mm – 3600mm	N/A	Up to 3600mm	5M
	24″ – 144″	N/A	Up to 144″	16′
Multicast XL BC 360	600mm – 3600mm	3.6M x 3.6M	Up to 3600mm	3M
	24″ – 144″	12′ x 12′	Up to 144″	10′
Multicast XL SC 400	600mm – 4000mm	N/A	Up to 4000mm	5M
	24″ – 156″	N/A	Up to 156″	16′
Multicast XL BC 450	600mm – 4000mm	4.0M x 3.5M	Up to 4000mm	3M
	24″ - 156″	13′ x 11.5′	Up to 156″	10′

Note: Dimensions are subject to change based on the application.

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