

Mastercast

VIHY Mastercast SC 120

Hawkeye Pedershaab
Concrete Technologies Worldwide TM

Fully automatic operation • No overhead crane required

Production versatility • VIHY table vibration

Turnover system for slabs & bases



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Mass produces a full range of manhole products and specialty shapes.

The VIHY Mastercast is designed for both productivity and flexibility. Completely automatic, products are manufactured and demolded at the rate of up to 24 manhole products per hour.

The Mastercast is designed to be run as a stand-alone machine or can be integrated into a fully automated plant.

System Benefits

Fully automatic operation. Mastercast's automatic operation permits precisely repeatable production cycles, assuring that each product is as high-quality as the next.

No overhead crane required. A built-in offbearer demolds the product, saving building and equipment costs by eliminating the need for a factory overhead crane.

Production versatility. The Mastercast can be equipped to manufacture manhole products including risers, cones, and base sections, as well as specialty products such as street gullies, catch basins, grade rings, and slab products.

VIHY table vibration. A vertical vibration unit allows for the uniform compaction of a vast array of product shapes, enabling the Mastercast's versatility.

Turnover system for slabs & bases. An in-machine turnover system allows for optimal dry-cast production of monolithic manhole bases and slabs.

Operation

All machine functions, including filling and press-heading, are computer-controlled. The Mastercast's built-in offbearer automatically conveys and demolds products onto a transfer conveyor. Equipped with a turnover device, base and slab products are easily and efficiently integrated into the production scheme.

Standard Features

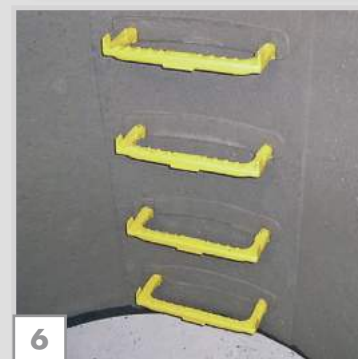
The VIHY Mastercast comes equipped with the following features:

- VIHY vertical table vibration
- Hydraulically driven 100 kNm uni-directional, variable-frequency vibrator
- Built-in table and form elevator
- Built-in automatic offbearer
- Central, PLC based console with touch-screen interface for fully automatic operation, including Laser-Level fill control

Optional Features

The VIHY Mastercast can be equipped with the following additional features:

- Cast-in lifting anchors
- Form turnover system
- Lifting hole equipment
- Cast-in steps or rungs for manholes
- Reinforcement cage centering system
- Reinforcement holding system



1. Fully Automatic Production

The Mastercast can be employed as a stand-alone machine or may be integrated into an automated production process.

2. Built-in Automatic Offbearer

A built-in automatic offbearer is fast, efficient, and eliminates the need for an overhead crane.

3. Precision Joints

To ensure the most precise joints, the PipePro uses machined tongue formers that remain on the product during curing.

4. VIHY Vertical Table Vibration

Vertical vibration provided by a VIHY vibration table allows for optimal compaction and maximum density.

5. Versatile Production Possibilities

The Mastercast is capable of producing all kinds of specialty products ranging from manholes to slabs and from bases to street gullies.

6. Cast-In-Place Manhole Steps

Manhole steps are automatically loaded into the form set and cast into the product wall.

7. Form Rotator Module

An optional integrated mold turnover system inverts molds to permit the manufacture of slabs and products with monolithically poured bottoms. The turnover system interfaces with the Mastercast for seamless filling and demolding within the machine.

8. Quality Products

The Mastercast's automated process, Laser-Level fill control, and VIHY table vibration enables the mass-production of a wide range of manhole and specialty products of the highest quality.



At HawkeyePedershaab we deliver more than machines.

We deliver solutions.

Mastercast Model SC 120

Diameter		Pipe/Hour
mm	inch	
Riser x 1.25 ML		
900	36	24
1000	40	23
1200	48	20

Production rates are based on the manufacture of ASTM C6478(M) B-Wall manholes. Production rates may vary for specific applications and plants.



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