



HawkeyePedershaab

VIHY Masterflex



Versatile drycast concrete production

- Fully automated
- VIHY core vibration
- All-around machine for pipes and manholes
- In-machine demolding



The VIHY Masterflex machine is an all-around machine for the production of concrete pipes and manholes with circular as well as non-circular cross sections.

VIHY Core Vibration

The VIHY Masterflex machine is equipped with synchronized core vibrators. The design of this vibrator with oil-lubricated bearings and its precision-built quality allows for speeds and powers unmatched by other vibrators on the market. This results in the highest possible compaction with a minimum of cement consumption — even in very adverse production environments.

Full-Automatic Production Cycle

The VIHY Masterflex machine is designed to run fully automatic. This allows the machine operator to perform other operations around the machine during the production cycle, such as preparing pallet rings for the next cycle and placing set rings on the products from the previous cycle. This reduces the labor requirement in the plant and increases productivity.

In-Machine Demolding

The manufacture of the products is done below ground in a pit. When the filling, compaction and spigot-forming processes are completed, the machine automatically demolds the product and lifts it up to the floor level ready for removal by a product cart or a forklift truck. This eliminates the need for an overhead crane, and allows machine to be operated in any kind of building, reducing capital costs.

Production Capacity

Depending on the dimension of the products being manufactured the VIHY Masterflex machines can achieve up to 20 cycles per hour and is capable of producing up to 50,000 tons of concrete pipes per year in single shift operation.

The values are based on non-reinforced products without any cast-in items, such as steps or lifting anchors. The values assume max. 45 seconds are used to remove the finished product and place a new pallet in the machine.

The values in brackets are the production rates for two-pipe operation if this feature is available on the machine.

Units/hour	Manholes H=1.0m (3')	Pipes L=2.5m (8')
300mm (12")	—	14 (28)
450mm (18")	—	14 (28)
600mm (24")	20 (40)	16 (32)
900mm (36")	20	12
1200mm (48")	17	9
1500mm (60")	14	6
2000mm (78")	10	—



Technical specifications for standard models

	VIHY Masterflex CP 120	VIHY Masterflex CP 160	VIHY Masterflex CM 160	VIHY Masterflex CM 200
Main production purpose	Pipes	Pipes	Manholes / Short Pipes	Manholes / Short Pipes
Diameter range	300–1200mm (12–48")	300–1600mm (12–65")	300–1600mm (12–65")	300–2000mm (12–78")
Product length	2.5m (8')	2.5m (8')	1.2m (4')	1.2m (4')
Manhole production capabilities	Optional	Optional	Standard	Standard
One-pipe operation	Standard	Standard	Standard	Standard
Two-pipe operation	Optional	Optional	Optional	Not available
Two-pipe operation diameter range	300–600mm (12–24")	300–800mm (12–40")	300–800mm (12–40")	300–800mm (12–40")
Maximum product OD	1600mm (63.0")	1850mm (72 7/8")	1850mm (72 7/8")	2200mm (86 5/8")
Vibration system	VIHY core vibration	VIHY core vibration	VIHY core vibration	VIHY core vibration
Frequency converter for vibrator	Standard	Standard	Standard	Standard
Vibrator cooling system	Optional	Optional	Optional	Optional
Feeding belts	1 or 2	1 or 2	1 or 2	1
Laser filling indicator	Standard	Standard	Standard	Standard
Concrete silo vibrator	Standard	Standard	Standard	Standard
Safety system acc. EU standards	Standard	Standard	Standard	Standard
Quick mold change system	Optional	Optional	Optional	Optional

Disclaimer: The technical data contained herein is materially accurate as of the date of issuance and is subject to change without prior notice.





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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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