

K a s t m a s t e r



# K a s t m a s t e r

## Produce manholes and concrete pipe with production line efficiency

The Kastmaster brings an automatic, linear production-line approach to concrete pipe and manhole manufacture. Within the architecture of the Kastmaster machine is an infeed shuttle that automatically feeds pallets and reinforcement to the production station as a corresponding outfeed shuttle transports finished products to a pickup position.

Designed for use as a stand-alone machine or as part of a totally automatic factory, the Kastmaster allows concrete pipe and a wide range of manhole products to be efficiently produced with just one or two production personnel. It's robust four-column machine frame, flexible vibration styles, and form rotator capability accommodates many different form types, permitting the Kastmaster to efficiently manufacture a wide range of standard and specialty products.

### Capacity

The Kastmaster offers an annual production capacity of 50,000-60,000 tons of product in a one-shift operation. The machine is designed to accommodate multi-form modules for expanded output.

### System Benefits

#### Fully Automatic Operation

Kastmaster's automatic operation cuts labor costs and permits precisely repeatable production cycles, assuring that each product is as high-quality as the next.

#### Rational Production Flow

Two shuttle carts organize the feeding of pallets and cages into the machine from one side, and discharge finished products for easy removal to the other side. This allows support processes to be done offline without interfering with the machine's production cycle.

#### Manufacturing Flexibility

To maximize production flexibility, molds are designed as self-contained modules coupled with hydraulic mold-to-machine locks to permit 30-minute mold changes.

#### Production Versatility

The Kastmaster can be equipped to manufacture round, oval, arch, and box-shaped products in diameters up to 2000mm (78") x 2.5m (8') lengths – as well as jacking pipe, lined pipe, and the full range of manhole riser, cone, and base products.

#### In-machine Demolding

Products are demolded within the machine, saving building and equipment costs by eliminating the need for a factory overhead crane.

#### Operation

The production cycle is all automatic; the concrete is fed to the mold via a concrete belt with a distributor, the product is compacted by synchronized vibration and the top of the product is finished with a press-head performing a combination of pressing and oscillating movements. Before each cycle, reinforcement is pre-arranged on a pallet ring and this is then automati-

cally brought to the machine by an infeed shuttle cart when the previous cycle has been completed. At the same time the finished product from the machine is taken to the other side by an outfeed shuttle cart to enable further handling.

A single operator can easily monitor and control the machine from a centrally located console. And from here there is easy access to both shuttle carts to undertake necessary supporting operations while the machine is running. Finished products can be manually removed from the shuttle cart with a product cart or with an automatic manipulator.

Safety is maintained by an integrated system of photo cells and safety fences, and the below-ground casting station completes a safe working environment and reduces noise levels.

Everything is controlled by a programmable PLC which also stores the machine settings for all the different products – and which allows logging of production data for OEE evaluation.

#### Models Available

- Model 150/200
- Model 150/250
- Model 200/250

- 
- Fully Automatic Operation
  - Rational Production Flow
  - Manufacturing Flexibility
  - Production Versatility
  - In-machine Demolding



Demolding by Cart



Swipe Feeding Unit



Vertical Vibration Unit



**Hawkeye Pedershaab**  
Concrete Technologies Worldwide

US Headquarters  
506 S. Wapello Street  
Mediapolis, Iowa 52637 USA  
Phone: +1 (319) 394-3197  
Telefax +1 (319) 394-3977

European Headquarters  
Saltumvej 25  
9700 Brønderslev, Denmark  
Phone: +45 9645 4000  
Telefax: +45 9645 4040

info@hpct.com  
www.hpct.com