PipePro

PipeProXT • PipePro96

Hawkeye Pedershaab
Concrete Technologies Worldwide™

- High productivity and flexibility
- Fully automatic operation • Rising core compaction
- Quick mold changeover • No overhead crane required

PipePro

A perfect combination of automation, output, and three station versatility.

The PipePro takes three seemingly competitive features…versatility, high output, and automation and combines them into one outstanding package. The PipePro puts an end to compromise and is proof that you can have automation and production versatility too! A single PipePro machine can produce most of a typical plant's requirements, including elliptical, arch pipe, jacking pipe and manholes. Equipped with Multiform modules, the PipePro can manufacture up to four or eight pipe (depending on machine model) with each index of the machine. That is versatility unmatched by any other machine.

System Benefits

Fully automatic operation. The PipePro is fully automatic – products are automatically filled and pressheaded. A three-station rotary turntable accepts up to three different form sizes at-a-time and telescopes the three basic production steps – fill, presshead, and demold – into one time frame to maximize output.

Quick form changeover. Equipped with simple quick-disconnect attachments, quick form changeovers are made easy. Forms can be changed in as little as thirty minutes.

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High output. The output starts with the three station turntable. Depending on the product diameter and length the PipePro can produce up to 77 pipe-per-hour. Combine that with exclusive Multiform modules which allow the PipePro to multiply the output of conventional machines.

Precision joints. The PipePro uses machined tongue formers automatically set in place resulting in consistent, precise and close tolerance joints.

Production flexibility and versatility. The PipePro's rotary turntable allows you to run three different pipe shapes and sizes at the same time. The PipePro also allows the production of arch and elliptical pipe as well as manholes and jacking pipe.

Capacity

Depending on the machine model, a typical PipePro plant offers an annual production capacity of 70,000 – 80,000 tons of product in a one-shift operation. For production rates, see chart on back page.

Operation

The PipePro automatically fills and presses and trowels the top joint ring in the filled form set. Stripping of the molds, removal and collection of the pallets and headers, and placement of cages can be handled manually or with full automation, depending on specific customer needs.

Standard Features

- Three station rotary turntable with built in operator's platform
- Automatic Concrete Feed system
- Automatic presshead system
- PLC controls system with touch-screen interface
- Quick form changeover components

Optional Features

The PipePro can be equipped with the following additional features:

- Variable vibration frequency control
- Automatic offbearing crane
- Automatic header feed system
- Automatic pallet/cage feeder
- Feeder access platform assembly
- Remote lubrication kit
- Hopper load sensors for automatic batching

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1. Fully Automatic Operation
In addition to its automated production cycle, the PipePro can be integrated into a fully automatic factory. HawkeyePedershaab produces handling cranes, moving floor systems, and automated testing and curing systems to accompany the flexibility and versatility of the PipePro machine.

2. Pallet Cage Robot
To enhance machine output, an optional robot automatically feeds pallets and cages to the machine while the form is being demolded in the curing area.

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

4. Three Station Turntable
The three station turntable design is what generates the PipePro's impressive output and flexibility capabilities. The turntable telescopes three production motions (filling, press heading, vibrating and demolding) into one time frame. The three stations also allow different sizes and shapes of pipe to be made at - a - time.

5. PLC Control
A PLC controls the PipePro production cycle. The PLC video display incorporating a user friendly menu permits machine settings or new product sizes to be easily put into production. The PLC tracks data through each production cycle and displays the graphics on the screen.

6. Production Flexibility
The PipePro machine manufactures a full range of products, including round, arch, elliptical and jacking pipe. The PipePro can also be equipped with manhole step and lay-hole former accessories for manhole production.

7. Multiforms
With its exclusive Multiform modules, productivity can be increased by producing up to four or eight pipe at - a - time depending on the machine model.

Pipe Sizes			PipePro XT			PipePro 96	
Diameter			Pipe/Hour*	Max./Module		Pipe/Hour*	Max./Module
mm	inch						
300	12		68	QuadForm		103	EightPak
375	15		68	QuadForm		103	EightPak
450	18		68	QuadForm		103	EightPak
525	21		51	TriForm		77	SixPak
600	24		51	TriForm		77	SixPak
675	27		33	DuoForm		51	QuadForm
750	30		33	DuoForm		51	QuadForm
825	33		17	SingleForm		39	TriForm
900	36		17	SingleForm		39	TriForm
1050	42		15	SingleForm		26	DuoForm
1200	48		13	SingleForm		23	DuoForm
1350	54		12	SingleForm		12	SingleForm
1500	60		10	SingleForm		11	SingleForm
1650	66		9	SingleForm		10	SingleForm
1800	72		8	SingleForm		10	SingleForm
2000	78		x	x		9	SingleForm
2150	84		x	x		8	SingleForm
2400	96		x	x		7	SingleForm

** For comparative purposes only - effective production rate if an individual pipe size is simultaneously run in each of the three machine production stations.*

Production rates are based on the manufacture of ASTM C76(M) B-Wall x 2.5M (8') concrete pipe. Rates are based on running at 100% efficiency and using the maximum available Multiform module for the machine model. Production rates may vary for specific applications and plants.

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