

EAGLE



HDPE/PP SPIRAL WOUND PIPE PRODUCTION LINE

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Eagle is professional manufacturer to produce large diameter HDPE/PP spiral wound pipe production line. We are successful to supply all the world with spiral profile wound pipe production line from DN300mm to DN4500mm and have more than 12 years' experience.

We focus on developing and manufacturing the technology and equipment to produce HDPE/PP spiral wound pipe, HDPE/PP spiral wound tank, fittings, manhole, etc. Our product includes HDPE/PP spiral pipes, HDPE or PP spiral wound pipe production line, HDPE/PP spiral tank winding machine, mandrel (production tooling), single wall corrugated pipe machine, HDPE/PP spiral manhole boring machine, HDPE/PP spiral tank welding machine, etc.

Till now we have supplied more than 200 lines of HDPE spiral wound pipe / tank production lines. Our clients are in worldwide such as China, Turkey, Russia, India, Iran, Saudi, Kuwait, Chile, New Zealand, US, Philippines, Malaysia, Uzbekistan, Chile, etc.



We supply HDPE/PP spiral wound pipe production line to produce the HDPE/PP spiral pipe and fittings, HDPE spiral manhole from DN/ID300mm to DN/ID 4500mm. The big advantage of HDPE/PP spiral wound pipe production line is that production is very flexible. One machine can produce the pipe from DN300 to DN4500 and changing time is very short with variety of wall structure. The pipe length can be from 1 meter to 9 meters according to requirement with any international standards.

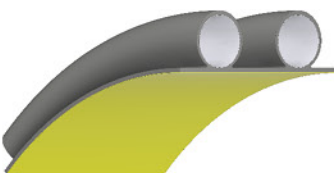
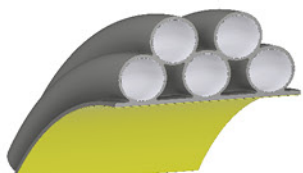
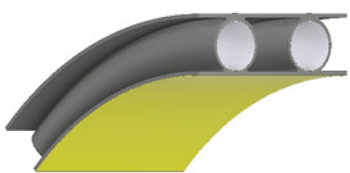
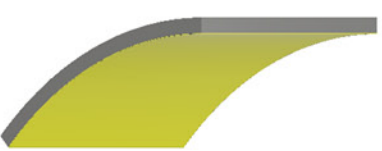
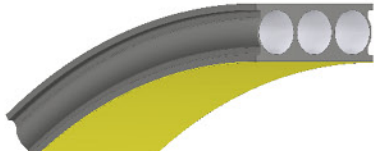
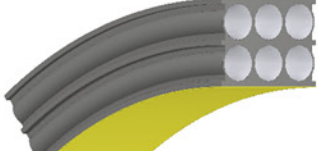
The main applications for the spiral wound pipe products are low, non -pressure applications like for sewer, drainage, storm water, sea outfall/intake, irrigation systems and or even chemical storage tanks. The software of PIPEFINDER can help to produce the pipes, fittings, and manholes according to standard and project requirements.

Main Feature of HDPE/PP Spiral Wound Pipe Production Line

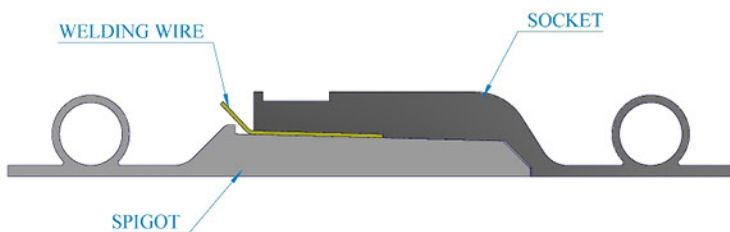
- Pipe diameters: DN/ID 300 mm up to DN/ID 4500 mm
- Pipes length: 6 to 9 meters, with integrated socket and spigot
- Pipe ring stiffness: SN1 to SN32 or above, according to ISO9969
- Output: 700-1400kg/h (HDPE, PP-HM, PP-B, PP-H)
- Pipe Application: Drainage Pipe systems, Sewage pipe systems, Industrial pipes, Relining, Outfall pipes, chemical storage tank, marine structured wall pipe, manhole, etc.



Pipe Wall Structure (PR, OP, CPR, SQ, VW, SP)

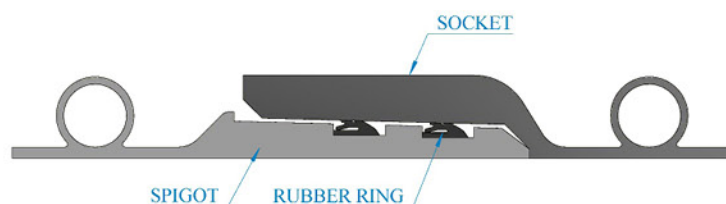
PR	OP	CPR
		
PR profile achieve high stiffness with low weight. This is the most common profile for sewer and water drainage applications.	OP profile can achieve greater stiffness with a comparatively low weight for sewer and drainage application.	One more Water way layer on top of CPR profile, can achieve higher stiffness and lower weight for sewer and drainage application.
VW	SQ1	SQ2-4
		
Solid pipe with a smooth inner and outer surface. These pipes can be produced with a wall thickness of 5mm to 250mm for pressure pipe and storage tank.	This profile option has a smooth inner and outer surface, including internal profile to one layer mainly for fittings, manhole, double wall tank, etc.	Another one or several SQ1 profile layers ensure the very high ring stiffness for large diameter and special application.

Pipe Connection (Electrical fusion, Rubber)

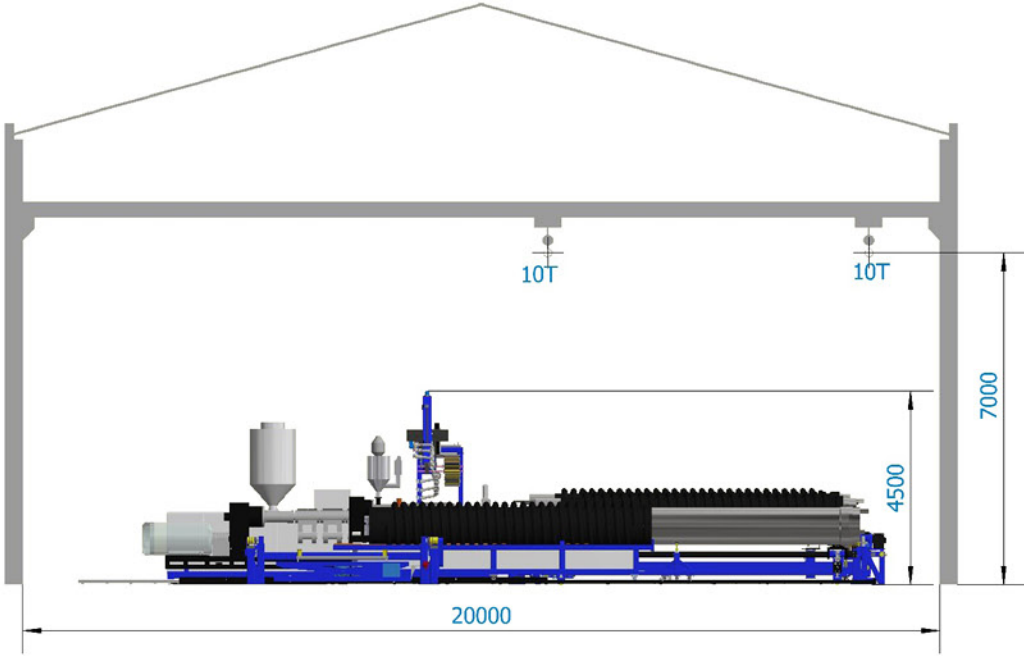
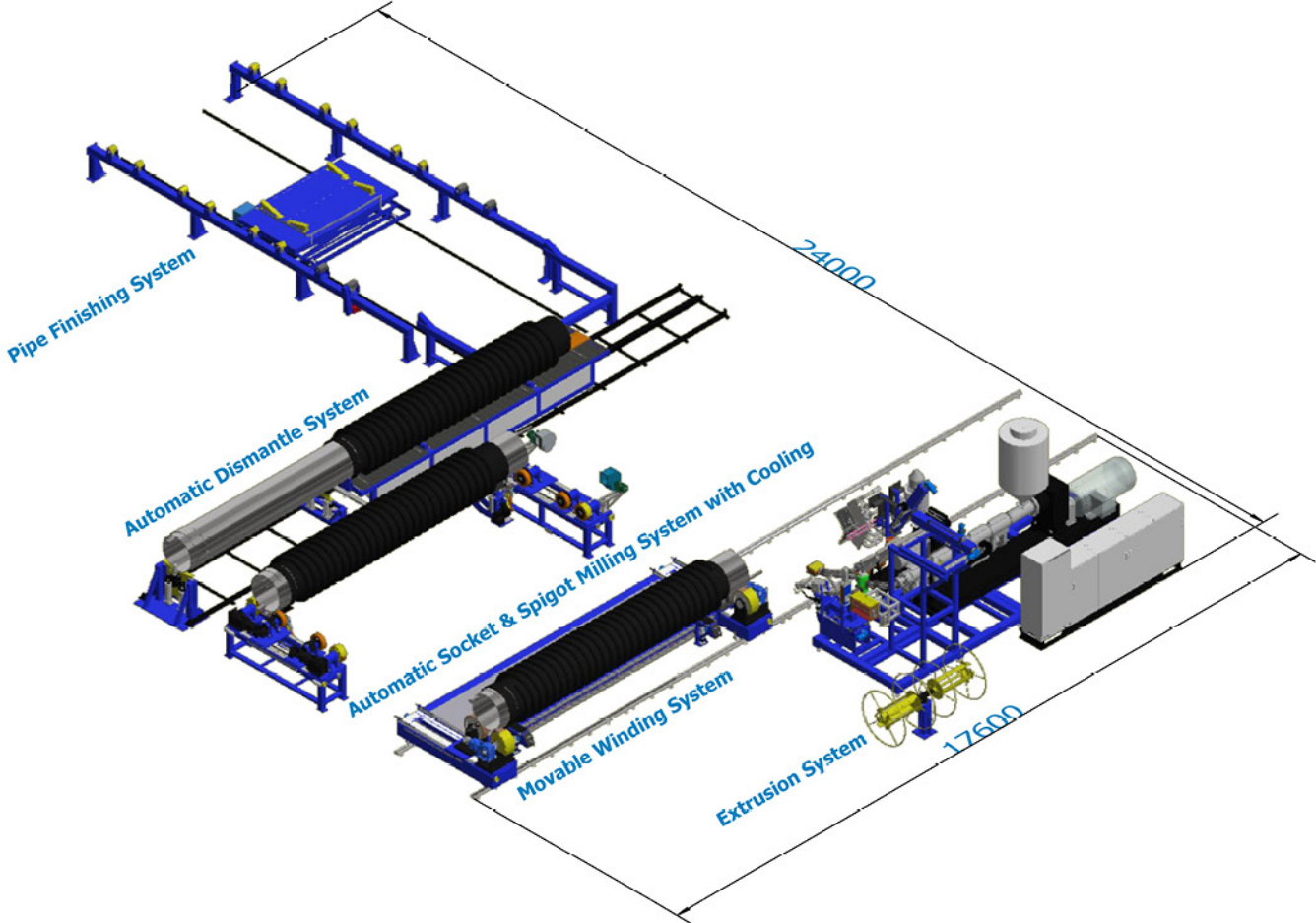


Electrical Fusion Connection

Rubber Ring Connection



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The extrusion system consists high efficiency extruders, computer control system, dual color inner wall die and outer coating layer die, melt distribution valve, pressing and guiding unit, co-tube feeding unit, gas heating system and infrared heating system



Movable Winding System

This system can move the mandrel forward and revert driven by servo motor under control program. The mandrel rotation speed is driven by servo motor and controlled by control program synchronized with extrusion system.



Automatic Socket and Spigot Milling system

The pipe will be cooled on the cooling station along with mandrel. After cooling, the pipe socket and spigot will be milled to confirm the standard for electrical fusion welding connection or rubber connection. The milling process is fully automatic controlled with PLC and servo motor.



Automatic Dismantle System

The pipe will be dismantled from the mandrel after mandrel collapse. The action of front support, middle support, trolley and stacking arm is fully automatic.



Pipe Finishing System

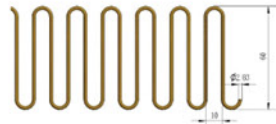
The pipe will be transferred to this station after dismantling. Electrical fusion wire installation and milling edge will be cut on this station. The final pipe will be weight and marked.



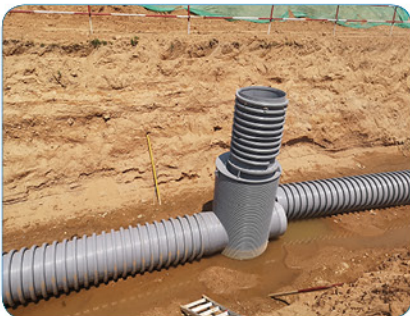
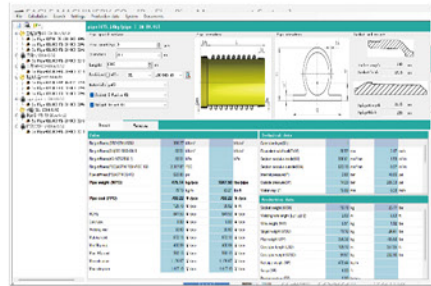
High speed PP corrugated pipe extrusion line
 This machine is to produce the co tube for spiral wound pipe as the forming support. It is equipped high speed corrugator with aluminum block, vacuum forming and water cooling. Pipe diameter is from OD21mm to OD130mm. Speed is up to 15m/min.



Welding Wire Forming Machine
 This machine is produce the welding wire for HDPE spiral wound pipe as the electrical fusion connection.



Software Pipefinder for pipe calculation
 This software can calculated the pipe ring stiffness according to raw material, and customer's requirements.



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