

500-1200mm HDPE PE PP PP-R Pipe Extrusion Line

This extrusion line is designed for producing HDPE, PE, PP, and PP-R pipes with diameters ranging from 500mm to 1200mm. It features a high-performance extruder with precise temperature control and an optimized screw design for consistent melt quality.



ADDITIONAL IMAGES



Overview

High-Performance Large Diameter Pipe Extrusion

This advanced extrusion line is engineered for the high-speed production of HDPE, PE, PP, and PP-R pipes with diameters ranging from 500mm to 1200mm. It features a high-efficiency single screw extruder with a specialized L/D ratio of 38-40/1 and a spiral head channel to ensure optimal material flow and pressure distribution. Designed for industrial applications like water supply and gas distribution, the system prioritizes energy efficiency and stability through premium components and a dual-chamber vacuum cooling system.

Key Performance Metrics

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1200 mm

Max Pipe Diameter

1400 kg/hr

Max Output

365 kW

Motor Power

Technical Specifications

Compatible Materials	HDPE, PE, PP, PP-R
Pipe Diameter Range	500 - 1200 mm
Screw L/D Ratio	38-40/1

Extruder Components

High Efficiency Single Screw Extruder



The core extruder unit featuring high-torque gearbox and Siemens motor for stable, low-noise operation.

Extruder Features

- High efficiency single screw design
- Spiral grooved bush structure
- High torque gearbox with low noise operation
- Automatic lubricating oil temperature control
- Energy-saving heater system
- INOEX Gravimetric meter for precise feeding

Cooling & Calibration

Cooling System Details

- 9m Two-chamber vacuum calibrating design
- Multi-section water membrane cooling
- Double disk calibration sleeve
- Brass and glass material construction

Control & Drive System

System Components

Component	Specification/Brand Type
Main Motor	Siemens
Inverter	ABB
Reducer	Falk
Control System	PLC

Model Comparison

Model	Pipe Range	Extruder	Extruder Motor Power	Max. Output (kg/hr)
BRD-63	Dia.20-63	BRD60/38	90	450
BRD-110	Dia.20-110	BRD60/38	110	500
BRD-160	Dia.50-160	BRD60/38	110	500
BRD-250	Dia.50-250	BRD75/38	160	680
BRD-450	Dia.160-450	BRD90/38	250	1000
BRD-630	Dia.280-630	BRD90/38	280	1100
BRD-800	Dia.315-800	BRD120/38	315	1300
BRD-1200	Dia.500-1200	BRD120/38	365	1400
BRD-1600	Dia.1000-1600	BRD90/38& BRD90/38	250+250	2000
BRD-2000	Dia.1000-2000	BRD90/38& BRD90/38	280+280	2200

Technical specifications across the product range, from 63mm to 2000mm diameter capabilities.

Series Technical Data

Model	Pipe Range (mm)	Extruder	Power (kW)	Max Output (kg/hr)
BRD-450	160-450	BRD90/38	250	1000
BRD-630	280-630	BRD90/38	280	1100
BRD-800	315-800	BRD120/38	315	1300
BRD-1200	500-1200	BRD120/38	365	1400