

20-160mm HDPE PE PP PP-R Pipe Extrusion Line

This pipe extrusion line is designed for the production of HDPE, PE, PP, and PP-R pipes with diameters ranging from 20mm to 160mm. It features advanced control systems for precise temperature and speed regulation, ensuring consistent pipe quality and dimensional accuracy.



ADDITIONAL IMAGES



Overview

High-Efficiency Pipe Extrusion Solutions

This high-speed extrusion line is engineered for the professional production of HDPE, PE, PP, and PP-R pipes ranging from 20mm to 160mm. It features a high-efficiency single screw extruder with a specialized L/D ratio for optimal melting and material homogeneity. Designed for energy efficiency and stability, the system integrates advanced cooling and vacuum calibration technologies to ensure consistent pipe quality for water, gas, and industrial applications.

Technical Performance

Pipe Diameter Range

20 mm Minimum Diameter	160 mm Maximum Diameter
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Compatible Materials

HDPE, PE, PP, PP-R

Extrusion System

High Efficiency Single Screw Extruder



Detailed view of the high-efficiency single screw extruder featuring a high torque gearbox and energy-saving heater.

Extruder Features

- High efficiency single screw structure
- Spiral grooved bush design
- L/D Ratio: 38-40/1
- High torque vertical gearbox
- Automatic lubricating oil temperature control
- Low noise operation

Premium Components

Siemens Motor • Falk Reducer • ABB Inverter • PLC Control System • INOEX Gravimetric Meter

Cooling & Calibration

Cooling & Calibration Specs

- 9m Two-chamber vacuum design
- Multi-section water membrane cooling
- Double disk calibration sleeve
- Brass and glass material construction
- Spiral head channel for crisscrossed material flow

Model Specifications

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 parameters for various models in the pipe extrusion line series, showing output and power ratings.

Extrusion Line Model Comparison

Model	Pipe Range (mm)	Motor Power (kW)	Max Output (kg/hr)
BRD-63	20-63	90	450
BRD-110	20-110	110	500
BRD-160	50-160	110	500
BRD-250	50-250	160	680
BRD-450	160-450	250	1000

Operational Efficiency

Operational Benefits

- Lower electrical consumption
- Reduced water consumption
- Energy-saving heater technology
- High stability running system