

Planetary Roller Extruder for Rubber and Plastics

Planetary roller extruders are used for continuous mixing, compounding, and extrusion of materials in the plastics and rubber industries. The design incorporates a central screw with multiple planetary rollers for intensive mixing and conveying.



Overview

Planetary Roller Extruder Technology

This advanced planetary roller extruder is designed for the continuous mixing, compounding, and extrusion of rubber and plastic materials. It features a unique configuration with a central screw surrounded by multiple planetary rollers, which significantly increases the material interface area. This design promotes superior heat exchange and reduced material residence time, allowing for more efficient processing and potential cost savings on additives like stabilizers and lubricants.

Technical Features

Processing Advantages

- Intensive mixing and conveying action
- Uniform processing quality
- Improved heat exchange efficiency
- Reduced material residence time
- Optimized additive usage

Design Characteristics

Planetary Roller Configuration, Central Screw Design, Multiple Planetary Rollers, High-Efficiency Mixing

Applications

Suitable Industries

Plastics Industry • Rubber Industry

Primary Applications

- PVC Compounding
- Masterbatch Production
- Rubber Processing

Equipment Details

Key Components

- Feeding Hopper
- Die Head
- Precision Control System