MERHEIN
Technical Datasheet

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# Six-Layer Co-Extrusion Blow Molding Machine for Automotive Fuel Tanks

This equipment is designed for six-layer co-extrusion blow molding. It is used in the production of automotive fuel tanks.

## Overview

### High-Performance Automotive Fuel Tank Production

This advanced six-layer co-extrusion blow molding machine is engineered specifically for the automotive industry to produce high-barrier, low-leakage fuel tanks. Utilizing patented rodless mold locking technology and specialized wave EVOH screw designs, the system ensures stable, energy-efficient, and reliable operation. Its flexible design allows for optimized space utilization within vehicle chassis, offering superior impact resistance and corrosion protection compared to traditional metal tanks.

## Key Features

### Benefits of Plastic Fuel Tanks

- Weight reduction of 30%-50% compared to metal tanks
- High barrier properties meeting EURO III emission standards
- Flexible shape design for maximum space utilization
- Superior impact resistance, corrosion resistance, and explosion-proof performance
- Shorter development cycles and lower tooling costs

## Technical Specifications

### Core Performance Metrics

| 100 L | 400 kg/h | 1200 KN | 580 kW |
|---|---|---|---|
| Max Product Volume | Plasticizing Capacity | Clamping Force | Total Power |

### Detailed Technical Parameters

| Parameter | Value |
|---|---|
| Model | BMJV-100 |
| Screw L/D Ratio | 28:1 |
| Max Screw Speed | 80 r/min |
| Parison Control Points | 100 |
| Mold Dimensions | 1600×1300×1000 mm |
| Total Weight | 70 t |

| Compatible Raw Materials | HDPE, EHMWPE, EVOH, Adhesives |
|---|---|

## System Components

| Key Machine Systems | Six single-screw extruders, Rodless two-plate mold clamping, Multi-layer co-extrusion die head, Main hydraulic system, Servo control system, Pneumatic control system, Refrigeration system, Electrical control system |
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