

JW MACHINERY

JW Injection Molding Machine Catalog

Vertical & Desktop Plastic Injection Molding Solutions for Cable & Plug Manufacturing

Professional injection molding machines — vertical clamp systems from 15T to 55T, desktop micro molders, and specialized PVC plug/cable/connector injection equipment. Engineered for precision, durability and global cable manufacturing standards.

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Product Overview

Vertical injection molding machines from 15T to 55T, desktop micro molders, and specialized plug/cable/connector PVC injection machines



JW-01

Electric Desktop Mini Injection Molding Machine | 30g/s Capacity



JW-450ST

3-Pin Plug PVC Injection Molding Machine 45T Clamping Force



JY-200ST

Phone Cable Injection Molding Machine with 26-28mm Screw



JW-250ST

HDMI Cable Connector Injection Molding Machine



JY-200ST

USB Cable Injection Molding Machine



JY-250ST

Patch Cord Plastic Injection Molding Machine



JY-450ST

South Africa 3-Pin Plug Injection Molding Machine



WPM-701-1.5T

15-Ton Desktop Vertical Plastic Injection Molding Machine



WPM-701-2T

20-Ton Vertical Plastic Injection Molding Machine



WPM-701-4.5T

45-Ton Vertical Plastic Injection Molding Machine



WPM-701-5.5T

55-Ton Vertical Plastic Injection Molding Machine



WPM-701-3.5T

35-Ton Vertical Plastic Injection Molding Machine

Electric Desktop Mini Injection Molding Machine | 30g/s Capacity



Description

The JW-01 is a compact electric desktop mini injection molding machine designed for laboratory use, prototyping, and small-batch plastic part production. With a 30g/s injection capacity and precise 3-zone temperature control up to 350°C, it handles a wide range of thermoplastic materials including PP, PE, ABS, PS, PC, PVC, and TPE. The machine features an electric drive system that delivers consistent injection pressure from 80-120 MPa while maintaining low energy consumption. Its 480×350×520mm footprint fits on standard workbenches, making it ideal for educational institutions, R&D labs, and small manufacturing operations producing micro plastic parts, samples, and test pieces.

Parameter	Value
Model Number	JW-01
Machine Type	Electric Desktop Mini Injection Molding Machine
Injection Capacity	30g/s
Clamping Force	2-5 Tons (adjustable)
Screw Diameter	16mm
Injection Pressure	80-120 MPa
Heating Zones	3 zones
Temperature Range	0-350°C
Heating Power	600W
Motor Power	0.75kW
Power Supply	AC220V/110V, 50/60Hz
Suitable Materials	PP, PE, ABS, PS, PC, PVC, TPE
Max Mold Size	120×100×80mm
Dimensions (L×W×H)	480×350×520mm
Weight	35kg

Key Features

- Compact desktop design for laboratory and small-batch production
- 30g/s injection capacity with precise temperature control
- Electric drive system with low energy consumption

3-Pin Plug PVC Injection Molding Machine 45T Clamping Force



Description

The JW-450ST is a specialized 3-pin plug PVC injection molding machine with 45 tons of clamping force, designed for manufacturing Australia, UK, and China standard electrical plugs. Its 30mm screw diameter and 120-180g injection capacity are optimized for plug-sized parts, while the 4-zone temperature control system ensures consistent PVC processing without burn marks or cold shots. The semi-automatic operation cycle with safety gate protection enables efficient production rates of 300-500 pieces per hour. Built with heavy-duty cast components and hydraulic clamping system, it delivers reliable 24/7 operation for wire and cable plug manufacturing facilities.

Parameter	Value
Model Number	JW-450ST
Machine Type	3-Pin Plug PVC Injection Molding Machine
Clamping Force	45 Tons
Injection Capacity	120-180g
Screw Diameter	30mm
Screw Stroke	120mm
Injection Pressure	150 MPa
Heating Zones	4 zones
Temperature Range	0-300°C
Motor Power	5.5kW
Heating Power	4kW
Power Supply	AC380V/3PH, 50/60Hz
Suitable Materials	PVC, PP, PE, ABS, PA
Application	3-pin plugs (Australia/UK/China standard)
Dimensions (L×W×H)	1600×900×1700mm
Weight	1200kg

Key Features

- 45-ton clamping force for standard 3-pin plug molding
- Specialized PVC processing with 4-zone temperature control
- Semi-automatic operation for plug manufacturing efficiency

Phone Cable Injection Molding Machine with 26-28mm Screw



Description

The JY-200ST is a specialized phone cable injection molding machine equipped with a 26-28mm diameter screw, specifically designed for molding connectors on mobile phone data cables including Lightning, Type-C, and Micro-USB plugs. With 20 tons of clamping force and 160 MPa injection pressure, it delivers precise overmolding of cable connectors with excellent surface finish and dimensional accuracy. The 3-zone temperature control provides optimal processing for PVC, TPE, and TPU materials commonly used in cable manufacturing. Compact footprint and semi-automatic operation make it an excellent choice for cable assembly plants producing phone chargers, data cables, and audio connectors.

Parameter	Value
Model Number	JY-200ST
Machine Type	Phone Cable Injection Molding Machine
Clamping Force	20 Tons
Screw Diameter	26-28mm
Injection Capacity	50-80g
Injection Pressure	160 MPa
Heating Zones	3 zones
Temperature Range	0-300°C
Motor Power	3kW
Heating Power	2.5kW
Power Supply	AC220V/380V, 50/60Hz
Suitable Materials	PVC, PP, PE, TPE, TPU
Application	Phone data cable connectors, Lightning/Type-C plugs
Mold Opening Stroke	200mm
Dimensions (L×W×H)	1200×700×1500mm
Weight	550kg

Key Features

- 26-28mm screw optimized for phone cable connector molding
- 20-ton clamping force ideal for small cable plugs
- High injection pressure for precise connector overmolding

MODEL: JY-200ST

HDMI Cable Connector Injection Molding Machine



Description

The JW-250ST is a dedicated HDMI cable connector injection molding machine featuring 25 tons of clamping force, engineered for molding plastic strain reliefs and connector housings on HDMI, DisplayPort, DVI, and VGA cables. Its 28mm screw and 60-100g injection capacity accommodate the slightly larger shot size required for HDMI connectors compared to standard USB plugs. The machine features precision mold alignment guides to ensure consistent connector geometry, critical for proper mating with HDMI ports. Quick-change mold system allows rapid switching between different AV connector types. Suitable for PVC, PP, PE, ABS, and TPE materials, it is the go-to machine for audiovisual cable manufacturing lines.

Parameter	Value
Model Number	JW-250ST
Machine Type	HDMI Cable Connector Injection Molding Machine
Clamping Force	25 Tons
Screw Diameter	28mm
Injection Capacity	60-100g
Injection Pressure	150 MPa
Heating Zones	3 zones
Temperature Range	0-300°C
Motor Power	4kW
Heating Power	3kW
Power Supply	AC220V/380V, 50/60Hz
Suitable Materials	PVC, PP, PE, ABS, TPE
Application	HDMI, DP, DVI, VGA cable connectors
Mold Opening Stroke	220mm
Dimensions (L×W×H)	1300×750×1550mm
Weight	650kg

Key Features

- 25-ton clamping force for HDMI and AV connector molding
- Optimized for larger cable connectors with precise mold alignment
- Interchangeable molds for HDMI, DP, DVI, VGA connectors

USB Cable Injection Molding Machine



Description

The JY-200ST USB cable injection molding machine is purpose-built for overmolding USB connectors including Type-A, Type-B, Mini-USB, and Micro-USB cable ends. Sharing the same robust platform as the phone cable version, it features 20 tons of clamping force, a 26-28mm screw, and 160 MPa injection pressure for consistent, high-quality connector molding. Fast cycle times of 8-12 seconds enable production rates up to 400 pieces per hour. The machine supports hot runner and cold runner molds, and its precise temperature control ensures optimal PVC and TPE processing with minimal waste. An ideal solution for USB cable manufacturing, extension cord production, and computer peripheral cable assembly.

Parameter	Value
Model Number	JY-200ST
Machine Type	USB Cable Injection Molding Machine
Clamping Force	20 Tons
Screw Diameter	26-28mm
Injection Capacity	45-75g
Injection Pressure	160 MPa
Heating Zones	3 zones
Temperature Range	0-300°C
Motor Power	3kW
Heating Power	2.5kW
Power Supply	AC220V/380V, 50/60Hz
Suitable Materials	PVC, PP, PE, TPE, TPU
Application	USB Type-A, Type-B, Mini-USB, Micro-USB cables
Mold Opening Stroke	200mm
Dimensions (L×W×H)	1200×700×1500mm
Weight	550kg

Key Features

- Specialized for USB cable connector overmolding
- 20-ton clamping with fast cycle times for high-volume production
- Compatible with USB-A, USB-B, Micro/Mini USB connectors

Patch Cord Plastic Injection Molding Machine



Description

The JY-250ST is a patch cord plastic injection molding machine designed specifically for molding RJ45 connector boots and strain reliefs on Ethernet network cables (Cat5e, Cat6, Cat6a, Cat7). With 25 tons of clamping force and a 28mm screw delivering 60-90g injection capacity, it handles the slightly larger shot size required for network patch cord plugs. The machine is configured to process SR-PVC (semi-rigid PVC) and other flexible jacketing compounds that provide excellent cable bend relief. Precision mold alignment ensures consistent plug geometry for proper RJ45 jack insertion. Semi-automatic operation with dual-hand safety controls makes it safe and efficient for high-volume network cable production facilities.

Parameter	Value
Model Number	JY-250ST
Machine Type	Patch Cord Plastic Injection Molding Machine
Clamping Force	25 Tons
Screw Diameter	28mm
Injection Capacity	60-90g
Injection Pressure	150 MPa
Heating Zones	3 zones
Temperature Range	0-300°C
Motor Power	4kW
Heating Power	3kW
Power Supply	AC220V/380V, 50/60Hz
Suitable Materials	PVC, PP, PE, TPE, SR-PVC
Application	RJ45 patch cords, network cables, Ethernet cable boots
Mold Opening Stroke	220mm
Dimensions (L×W×H)	1300×750×1550mm
Weight	650kg

Key Features

- Specialized for RJ45 patch cord and network cable boot molding
- 25-ton clamping force for network connector overmolding
- Supports SR-PVC and flexible cable jacket materials

South Africa 3-Pin Plug Injection Molding Machine



Description

The JY-450ST is a heavy-duty South Africa 3-pin plug injection molding machine with 45 tons of clamping force, specifically configured for molding the larger SANS 164-1 South African standard plugs and similar Indian/South Asian 3-pin plug configurations. Its 32mm diameter screw and 4-zone temperature control ensure thorough and uniform PVC melting for the larger shot size (120-180g) required by these plug types. The hydraulic clamping system delivers consistent pressure throughout the molding cycle, producing plugs with excellent surface finish and dimensional accuracy. With safety guards, emergency stops, and semi-automatic operation, it meets international safety standards for plug manufacturing equipment producing 300-450 pieces per hour.

Parameter	Value
Model Number	JY-450ST
Machine Type	South Africa 3-Pin Plug Injection Molding Machine
Clamping Force	45 Tons
Screw Diameter	32mm
Injection Capacity	120-180g
Injection Pressure	150 MPa
Heating Zones	4 zones
Temperature Range	0-300°C
Motor Power	5.5kW
Heating Power	4.5kW
Power Supply	AC380V/3PH, 50/60Hz
Suitable Materials	PVC, PP, PE, ABS
Application	South Africa SANS 164-1 3-pin plugs, Indian plugs
Mold Opening Stroke	250mm
Dimensions (L×W×H)	1650×950×1750mm
Weight	1300kg

Key Features

- 45-ton clamping force for large South African standard plugs
- 32mm screw with 4-zone heating for uniform PVC melting
- Designed for SANS 164-1 and similar large 3-pin plug standards

MODEL: JY-450ST

15-Ton Desktop Vertical Plastic Injection Molding Machine



Description

The WPM-701-1.5T is a 15-ton desktop vertical plastic injection molding machine featuring a compact vertical clamping and vertical injection design, making it ideal for insert molding applications where metal inserts are placed in the mold before injection. With a 25mm screw, 45-70g injection capacity, and 180 MPa injection pressure, it processes a wide range of materials from commodity plastics (PP, PE, ABS) to engineering plastics (PC, POM, PA). The vertical clamp design allows gravity-assisted insert placement and prevents insert shift during mold closure. Its compact 900×650mm footprint fits on standard workbenches while delivering production-grade performance. Suitable for small connectors, electronic components, and precision insert-molded parts.

Parameter	Value
Model Number	WPM-701-1.5T
Machine Type	Desktop Vertical Injection Molding Machine
Clamping Force	15 Tons
Screw Diameter	25mm
Injection Capacity	45-70g
Injection Pressure	180 MPa
Heating Zones	3 zones
Temperature Range	0-350°C
Motor Power	2.2kW
Heating Power	2.2kW
Power Supply	AC220V/380V, 50/60Hz
Suitable Materials	PP, PE, ABS, PS, PC, POM, PA, PVC
Mold Opening Stroke	180mm
Working Table	350×350mm
Dimensions (L×W×H)	900×650×1400mm
Weight	380kg

Key Features

- 15-ton vertical clamping with compact desktop footprint
- Vertical injection design ideal for insert molding applications
- 180 MPa high injection pressure for engineering plastics

20-Ton Vertical Plastic Injection Molding Machine



Description

The WPM-701-2T is a 20-ton vertical plastic injection molding machine offering increased capacity over the 15T model for medium-sized insert molding and connector overmolding applications. Its 28mm screw delivers 60-90g injection capacity with 180 MPa pressure, handling both commodity and engineering plastics with ease. The floor-standing configuration provides a larger 400×400mm working table area, accommodating bigger molds and more complex insert arrangements. Vertical injection over vertical clamp ensures consistent material flow and minimal flash on insert parts. Commonly used for cable connectors, plug inserts, electronic housings, and automotive small parts where insert precision is critical.

Parameter	Value
Model Number	WPM-701-2T
Machine Type	Vertical Injection Molding Machine
Clamping Force	20 Tons
Screw Diameter	28mm
Injection Capacity	60-90g
Injection Pressure	180 MPa
Heating Zones	3 zones
Temperature Range	0-350°C
Motor Power	3kW
Heating Power	2.8kW
Power Supply	AC220V/380V, 50/60Hz
Suitable Materials	PP, PE, ABS, PS, PC, POM, PA, PVC, TPE
Mold Opening Stroke	200mm
Working Table	400×400mm
Dimensions (L×W×H)	1050×700×1500mm
Weight	480kg

Key Features

- 20-ton vertical clamping for medium-sized insert molding
- 28mm screw with versatile material processing capability
- Floor-standing model with larger working area

45-Ton Vertical Plastic Injection Molding Machine



Description

The WPM-701-4.5T is a 45-ton heavy-duty vertical plastic injection molding machine designed for larger insert molding applications including electrical plugs, automotive connectors, and larger electronic component overmolding. Its 34mm screw with 4-zone temperature control provides 120-180g injection capacity at 170 MPa, capable of processing engineering resins such as PBT, PA (nylon), and LCP in addition to commodity plastics. The 500×500mm working table accommodates larger and more complex molds with multiple cavities. The hydraulic vertical clamping system delivers precise, even pressure distribution critical for flash-free insert parts. With PLC control, digital temperature display, and safety light curtains, it offers both performance and operator safety for medium-to-high volume production.

Parameter	Value
Model Number	WPM-701-4.5T
Machine Type	Heavy-Duty Vertical Injection Molding Machine
Clamping Force	45 Tons
Screw Diameter	34mm
Injection Capacity	120-180g
Injection Pressure	170 MPa
Heating Zones	4 zones
Temperature Range	0-360°C
Motor Power	5.5kW
Heating Power	4.5kW
Power Supply	AC380V/3PH, 50/60Hz
Suitable Materials	PP, PE, ABS, PS, PC, POM, PA, PBT, PVC, LCP
Mold Opening Stroke	260mm
Working Table	500×500mm
Dimensions (L×W×H)	1350×900×1800mm
Weight	1100kg

Key Features

- 45-ton heavy-duty vertical clamping for large insert molding
- 34mm screw with 4-zone heating for engineering resins
- 500×500mm large working table for complex molds

55-Ton Vertical Plastic Injection Molding Machine



Description

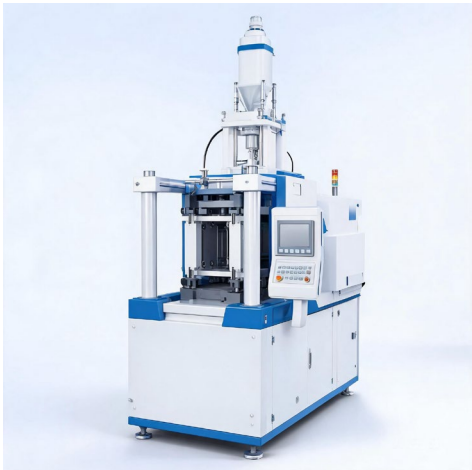
The WPM-701-5.5T is the largest model in the WPM-701 vertical injection molding machine series, offering 55 tons of clamping force for the most demanding vertical injection applications. Its 36mm diameter screw delivers 150-220g injection capacity, suitable for larger plugs, heavy-gauge cable connectors, and multi-cavity insert molds. The 4-zone temperature control reaching 360°C enables processing of high-temperature engineering plastics including PPS, LCP, and reinforced nylons. The 550×550mm working table and 280mm mold opening stroke accommodate substantial mold sizes. Featuring a robust hydraulic system, PLC control with touchscreen HMI, proportional valve control for precise injection speed/pressure, and full safety enclosures, it represents production-grade vertical molding capability for automotive, electrical, and electronics industries.

Parameter	Value
Model Number	WPM-701-5.5T
Machine Type	Heavy-Duty Vertical Injection Molding Machine
Clamping Force	55 Tons
Screw Diameter	36mm
Injection Capacity	150-220g
Injection Pressure	170 MPa
Heating Zones	4 zones
Temperature Range	0-360°C
Motor Power	7.5kW
Heating Power	5.5kW
Power Supply	AC380V/3PH, 50/60Hz
Suitable Materials	PP, PE, ABS, PS, PC, POM, PA, PBT, PVC, LCP, PPS
Mold Opening Stroke	280mm
Working Table	550×550mm
Dimensions (L×W×H)	1450×1000×1900mm
Weight	1400kg

Key Features

- 55-ton maximum clamping force for largest vertical applications
- 36mm screw processes up to 220g shot size
- Handles high-temperature engineering plastics including PPS and LCP

35-Ton Vertical Plastic Injection Molding Machine



Description

The WPM-701-3.5T is a 35-ton vertical plastic injection molding machine positioned in the mid-range of the WPM-701 series, offering a versatile balance of clamping force, shot capacity, and footprint for a wide range of insert molding and cable connector applications. Its 32mm screw provides 90-140g injection capacity at 175 MPa, with 4-zone temperature control ensuring consistent melt quality across commodity and engineering plastics. The 450×450mm working table accommodates medium-to-large molds, while the 240mm mold opening stroke facilitates easy part removal and insert placement. This model is particularly popular for manufacturing power cord plugs (European Schuko, French, etc.), DC power connectors, and medium-sized automotive electrical connectors, offering reliable 24/7 production capability with straightforward operation and maintenance.

Parameter	Value
Model Number	WPM-701-3.5T
Machine Type	Vertical Injection Molding Machine
Clamping Force	35 Tons
Screw Diameter	32mm
Injection Capacity	90-140g
Injection Pressure	175 MPa
Heating Zones	4 zones
Temperature Range	0-350°C
Motor Power	4kW
Heating Power	3.8kW
Power Supply	AC380V/3PH, 50/60Hz
Suitable Materials	PP, PE, ABS, PS, PC, POM, PA, PBT, PVC
Mold Opening Stroke	240mm
Working Table	450×450mm
Dimensions (L×W×H)	1200×800×1700mm
Weight	850kg

Key Features

- 35-ton mid-range vertical clamping for versatile production
- 32mm screw with balanced injection capacity and precision
- 4-zone temperature control for consistent material processing

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