

SEMIFCABLE — Machine and Parts

Extrusion Lines Braiding Machines And ABS Reels

The equipment side of the business exists because customers who buy cores eventually ask who supplies the line that processes them. These are the machines: LAN cable extrusion lines, general wire and cable extrusion lines from 130 to 900 kg per hour, fluoropolymer high-temperature lines, double-layer braiding machines, and the ABS reels the finished cable is wound onto.

LingLong Street, Lin'an, Hangzhou, Zhejiang, China · sales@semifcable.com · WhatsApp +86 199 7529 9200 · <https://semifcable.com>

High Speed Double Layer Cable Braiding Machine Vertical Type

This vertical braider runs two braid layers at once with a 2-over-2 braiding method, using upper and lower spindle sets — 16 plus 16 on the 16AS model or 12 plus 12 on the 24A. Spindle speed reaches 130 RPM on the 16AS, a 3 kW host motor drives the machine, and oil bath lubrication supports continuous running. A sensitive auto-stop reacts to yarn breakage or run-out, which is what makes the machine practical to leave running with light supervision.

Parameter	Value
Model	16AS / 24A
Upper / Lower Spindles	16 + 16 (16AS) / 12 + 12 (24A)
Spindle Speed Range	10 – 130 RPM (16AS) / 15 – 100 RPM (24A)
Pitch Range	0 – 100 mm (16AS) / 13.3 – 134.5 mm (24A)
Max Cable Diameter	2×0.08–8×0.16 mm (16-carrier) / up to 24 mm (24-carrier)
Power	3 kW host motor
Machine Size	1800×1540×2400 mm (16AS) / 1500×1800×2350 mm (24A)
Weight	Approx. 680 kg, varies by model
Lubrication	Oil bath

Full page: <https://semifcable.com/products/sgs-high-speed-130r-min-double-layer-cable-braiding-machine-vertical-type.html>

Cable ABS Reel Customizable Size

ABS reels are the spools that carry wire and cable through winding, storage and transport. Acrylonitrile butadiene styrene is tough, light and anti-corrosive with a smooth surface that will not damage a cable jacket, and it is compatible with automatic winding machines. We supply one-piece moulded reels, two-piece assembled reels that flat-pack for freight, ventilated reels that save weight, small mesh reels for elastic cord, and high-precision reels balanced for high-speed coiling.

Parameter	Value
One-Piece Reel Sizes	200 mm, 250 mm, 300 mm, 315 mm, 350 mm, 400 mm, 500 mm, 560 mm, 600 mm, 630 mm, 800 mm, 1000 mm and others
Elastic Cord / Mesh Reel Sizes	Smaller sizes such as 160 mm and 200 mm diameter
Material	ABS (acrylonitrile butadiene styrene)
Two-Piece Construction	Flanges and barrel produced separately and assembled, flat-packable and reusable
Ventilated Type	Perforated or mesh flanges reducing material usage and weight
High-Precision Type	Balanced for stability and minimal vibration, used for optical fibre cable and fine wires
Customisation	Colours, logos, hub sizes and flanges; OEM options available

Full page: <https://semifcable.com/products/cable-abs-reel.html>

Teflon High-Temperature Extrusion Line

This line insulates wire with fluoropolymers — FEP, PFA, ETFE and PTFE by paste extrusion — for aerospace, military, medical and high-end industrial cable. The extruder barrel and screw are specially treated for fluoropolymer resistance and run continuously up to 450–500°C, with a 600°C die zone. Laser diameter control with closed-loop feedback keeps insulation

thickness consistent, and a cleanroom option is available for medical-grade FEP tubing.

Parameter	Value
Applicable Fluoropolymers	FEP, PFA, ETFE and PTFE (paste extrusion)
Conductor Size	0.1 – 6.0 mm ²
Insulation Thickness	0.1 – 1.0 mm
Line Speed	50 – 200 m/min depending on size and material
Extruder Size	30 mm – 65 mm screw diameter
Max Temperature	450–500°C barrel zone, 600°C die zone
Power Supply	380 V / 3-phase / 50 Hz or customised
Temperature Resistance	Continuous operation up to 500°C
Control	Servo-driven systems with PLC and HMI for accurate synchronisation

Full page: <https://semifcable.com/products/teflon-high-temperature-extrusion-line.html>

CAT5 CAT6 UTP FTP SFTP LAN Cable Making Machine

This is the extrusion line that turns a semi-finished LAN core into a finished cable. It is configured for PVC, PE and other thermoplastics, and it handles CAT5 and CAT6 in UTP, FTP and SFTP constructions. Three screw sizes are offered — 50, 60 and 70 mm — with extrusion output from 70 to 150 kg per hour and maximum line speed between 350 and 500 m/min depending on the model and the wire diameter being run.

Parameter	Value
Model	WRK-50mm / WRK-60mm / WRK-70mm
Screw Diameter	50 mm / 60 mm / 70 mm
Extrusion Output	70 kg/hr / 100 kg/hr / 150 kg/hr
Applicable Wire Diameter	0.6–4.0 mm / 0.8–8.0 mm / 1.5–12.0 mm
Max Line Speed	500 m/min / 450 m/min / 350 m/min
Capstan Power	3 HP / 4 HP / 5 HP
Materials	PVC, PE and other thermoplastics for insulation and outer sheathing

Full page: <https://semifcable.com/products/cantilever-high-speed-single-twisting-machine.html>

PLC Control Copper Wire Cable Making Machine

This extrusion line covers insulation and sheathing for automotive cable, network cable, power cable, data cable, high-frequency cable, building wire and general electric wire. Eight models run from a 65 mm screw at 130 kg/h up to a 200 mm screw at 900 kg/h, and by changing the screw configuration the same machine handles low-smoke halogen-free compounds and nylon as well as PVC, PE and PU. Control is by PLC, and the line ships with a defined component list from pay-off through spark tester to dual reel take-up.

Parameter	Value
GF-65	Screw Ø65 mm, output 130 kg/h, main motor 25 HP, wire Ø1.2–10 mm, line speed 500 m/min
GF-70	Screw Ø70 mm, output 150 kg/h, main motor 30 HP, wire Ø1.5–12 mm, line speed 500 m/min
GF-80	Screw Ø80 mm, output 200 kg/h, main motor 40 HP, wire Ø2.0–20 mm, line speed 450 m/min
GF-90A	Screw Ø90 mm, output 250 kg/h, main motor 50 HP, wire Ø3.0–25 mm, line speed 400 m/min
GF-90B	Screw Ø90 mm, output 280 kg/h, main motor 60 HP, wire Ø10–40 mm, line speed 200 m/min
GF-120	Screw Ø120 mm, output 400 kg/h, main motor 70 HP, wire Ø15–60 mm, line speed 100 m/min

GF-150	Screw Ø150 mm, output 650 kg/h, main motor 100 HP, wire Ø30–120 mm, line speed 60 m/min
GF-200	Screw Ø200 mm, output 900 kg/h, main motor 150 HP, wire above Ø40 mm, line speed 60 m/min
Screw L/D Ratio	25:1
Pay-off Shaft	Double-shaft type, 800–1600 mm to 1600–3150 mm by model
Haul-off Power	5 HP to 20 HP by model
Voltage	3-phase 380 V, 50 Hz / 60 Hz

Full page: <https://semifcable.com/products/automatic-plc-coiling-and-packing-machine.html>

Electrical and Electronic Wires Extrusion Line

This line insulates and optionally jackets fine-gauge copper and tinned copper conductors for electronic wire, control cable, signal wire and appliance wiring. It runs conductors from 0.12 mm² to 6 mm² at line speeds up to 800 m/min, with OD control accuracy of 0.02 to 0.05 mm when the closed-loop laser gauge is fitted and concentricity error held at 5 percent or better. It can be configured to produce wire to UL, JASO, ISO, VDE, IEC and EN standards.

Parameter	Value
Conductor Diameter	0.12 mm ² – 6 mm ²
Extrusion Materials	PVC, PE, XLPE, SR-PVC, LSZH, TPE, FEP and others
Line Speed	Up to 800 m/min depending on conductor size
OD Control Accuracy	±0.02–0.05 mm with closed-loop OD gauge
Extruder Sizes	30 mm, 45 mm, 60 mm, 70 mm, 90 mm screw diameters
Screw L/D Ratio	25:1 or 30:1
Temperature Control Zones	4–7 heating zones with PID closed-loop control
Concentricity Error	≤ 5% with precision die and OD monitoring
Spark Tester	3–15 kV AC/DC with discharge detection alarm
Cooling Trough	Stainless steel, 6–12 m
Typical Output Voltage Rating	300 V, 600 V, 1000 V depending on insulation

Full page: <https://semifcable.com/products/electrical-and-electronic-wires-extrusion-line.html>

All figures are the published specification for each product. Values outside these tables are confirmed in writing before order rather than estimated. Cores are supplied unjacketed and unprinted unless otherwise agreed.