



**WIRE PRODUCTION MACHINERY
AND RAW MATERIALS
FOR THE CABLE MANUFACTURER**



MACHINERY: Extrusion Lines, Braiders, Tapers,
Stranding Lines, Packaging Lines,
Preheaters, Welding Lines,
Customized Equipment

MATERIALS: Shielding/Separating Tapes, Process
Reels, Communication Cable

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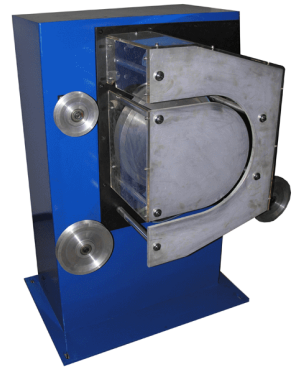
EXTRUDERS

25-150mm barrel diameters, 20:1 to 40:1 L/D, double reduction helical gear reducer with heavy duty thrust bearing, monolithic barrels with cutaway feed section and water cooling jacket, bolt on or C-clamp front flanges with optional by-pass valves, cast aluminum or bronze barrel heaters, air or liquid cooling of the barrel, AC motors with vector drives, stainless steel hoppers with full pellet handling systems, custom designed feed screws, high temperature/corrosion resistant versions available.



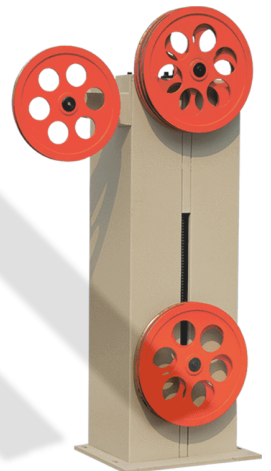
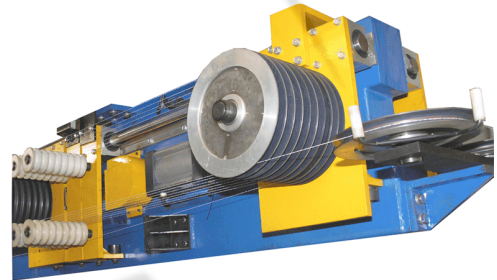
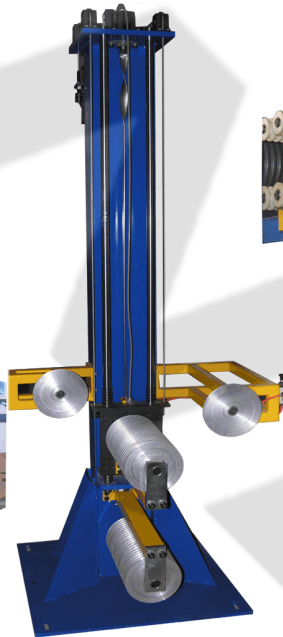
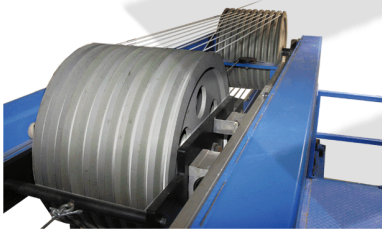
PAYOFFS AND TAKEUPS

Single and dual flyer payoffs to 1000mm diameter, single and dual reel overhung shaft designs to 1000mm, variety of pintle designs to 1500mm, portal and A frame designs up to 3000mm capacity, multiple station payoff racks, independent or clutch driven traverse mechanisms, auto crossover dual takeups with optional auto reel load/unload, AC or DC drives per customer request, traversing reel styles available, integrated dancer tension control systems available for most models.



CAPSTANS

Belt wrap style from 250 to 1500 mm available in horizontal or vertical configurations. Linear belt style from 300 to 1800 mm contact length. Dual drum style from 300 to 1250 mm diameters with customized groove and wrap configurations. Optional multiple speed gear boxes, AC, Servo, or DC drive systems. Dual drum units available in wet configuration with optional extended length trough sections with spray, mist, or flood section or combination.



DANCERS/ACCUMULATORS

Payoff and takeup dancers available as multiple wrap vertical or catenary arm style, with air cylinder or dead weight configurations to cover a wide range of tension requirements (50 grams to 45 kg typ.). Sheave sizes from 50mm-1800mm (2" to 72") diameter, hard coated aluminum or plastic. Horizontal or vertical accumulators available with air or motorized movement, up to 450 meters accumulation. All accumulators are customized to fit customer's factory space constraints.



GAS INJECTION SYSTEMS

Delivers high pressure gas (typ. nitrogen) supply (up to 700 bar) into a foam extruder suitable for coaxial, LAN, or RF cable applications. Requires customer supplied low pressure 10 bar nitrogen gas.

Proprietary extruder hardware includes coupling injector bolt and inter-changeable micron sized orifices, flow rates to 3.0 slpm, custom designed systems with proprietary extrusion screw designs. Consulting services to retrofit existing systems and process instructional services.



WATER COOLING SYSTEMS

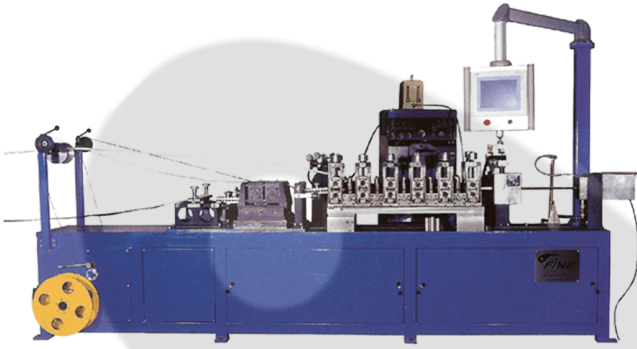
Custom designed per application, all stainless steel construction, vertical and horizontal adjustment, box style with adjustable water levels, insulated versions available, retractable front sections via rack and pinion movement, exit drain boxes with air wipes, insulated recirculating water tank systems available in variety of tank sizes with hot/cold temperature control, integration of capacitance gauges.



ELECTRICAL CONTROLS

Custom panel design for all new lines or retrofits, auto-tune temperature controllers,

AC vector and flux vector drives, all international brand components, discrete panel operating switches or PLC/computer based touchscreen interfaces, total integration with capacitance, diameter, wall measurement systems, data gathering for SPC/SQC, custom components per customer specification available.



CORRUGATING/WELDING

For manufacture of aluminum and copper tube products specifically in CATV and RF coaxial cables, complete line configurations with payoff, metal strip handling, tube forming table, TIG welding station, closing die with cooling system, optional eddy current monitoring system, corrugator, capstan and takeup, complete onsite commissioning included with each line, line controls via touchscreen PLC interface.



CONTACT & NON-CONTACT INDUCTIVE PREHEATERS

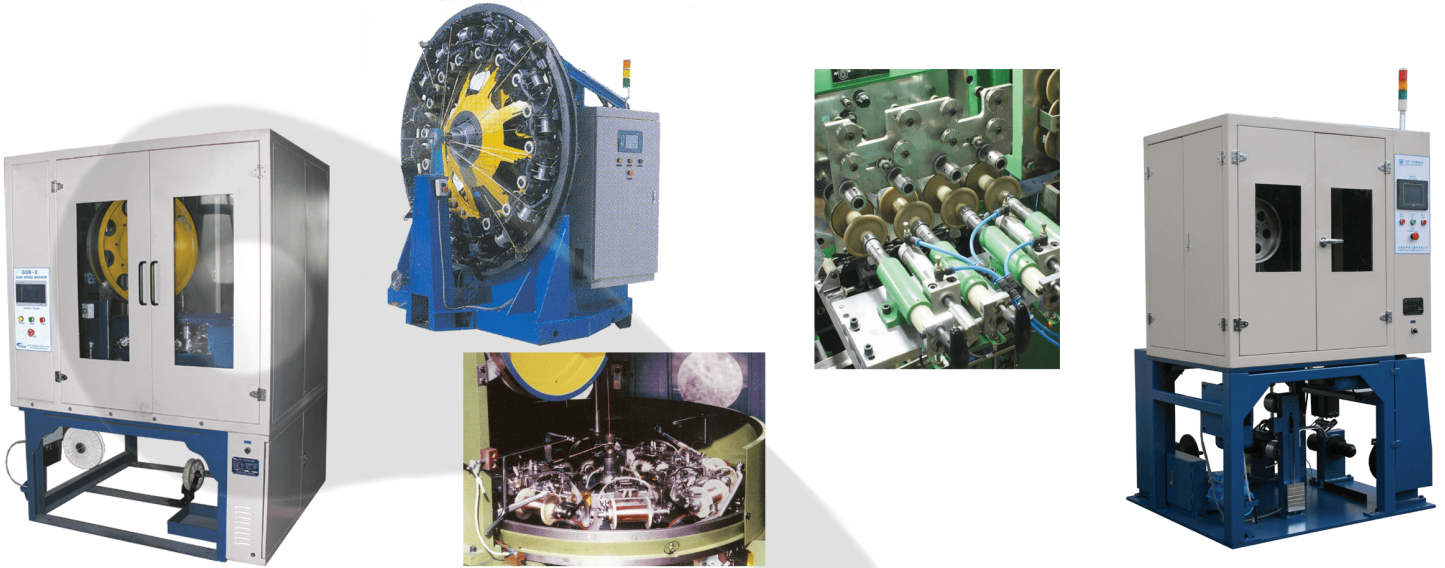
Contact dual sheave inductive style units capable up to 200°C preheating temperature, designed for bare wire or conductive braided core, line speeds from 50 to 2000 mpm, variety of pulley diameters, manual or automatic modes

Non-contact units with integrated water cooling systems available for heating products without direct product contact as required with larger conductors, etc. Power rating available to 200 kVA, custom configuration based on line speed and temperature specifications, line speed follower. Traditional type gas flame and hot air tube preheaters also available.

RESPOOLERS/PACKAGING

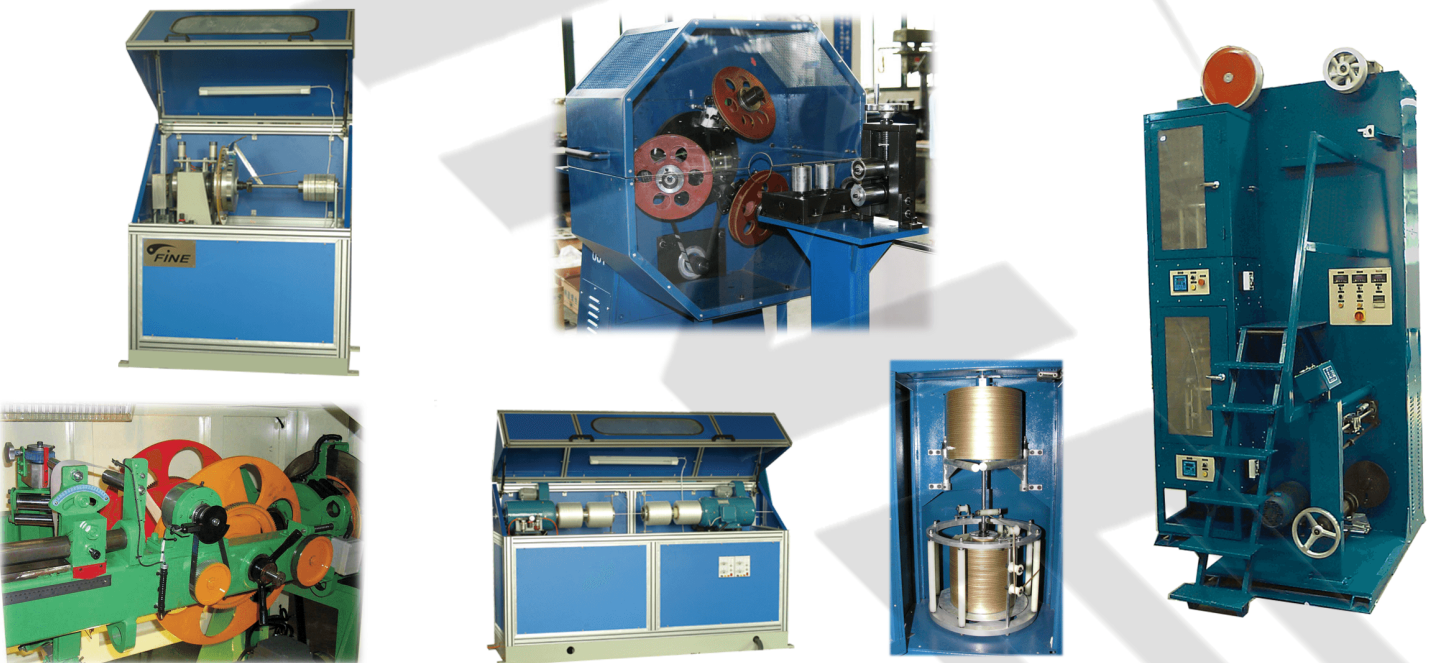
Customized systems for final put ups or rewind operations, available for on or offline use, dual shaft spoolers, figure 8 packagers, auto crossover coiling units, integration of all styles of flaw detection equipment, final packaging setup for spool or coil configuration, label tag generation, quality reports, production reports, automatic and semi-automatic systems available.





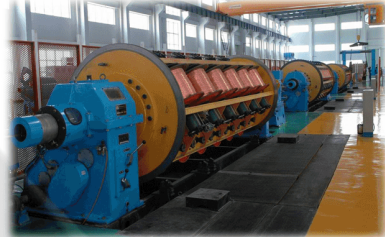
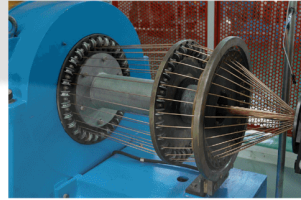
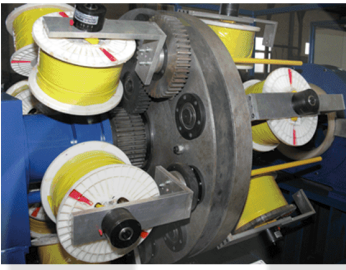
ROTARY AND MAYPOLE BRAIDERS/SERVERS

Vertical rotary 16 (150 RPM) and 24 (100 RPM) carrier versions, 800 mm payoff and takeup reel, touch screen control panel, frequency controlled drive for infinite RPM adjustment, automatic lubrication system, tape payoff, braiding wire, tape and broken core detection and alarm display, sound insulation enclosure with safety guard door, spare parts kit standard with each unit. Serving models available up to 300 RPM with designs for up to 3 applied layers. Horizontal units are available up to 48 carriers for larger cable/hose applications. Ancillary supporting machinery including manual and automatic bobbin braid wire rewinding equipment also available.



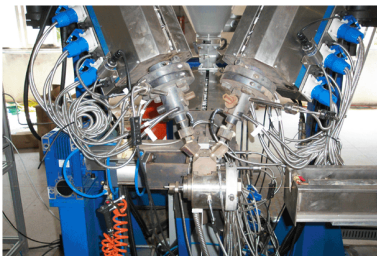
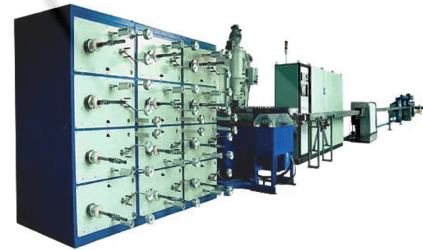
TAPING AND BINDING HEADS

Concentric and eccentric taping heads for flat pad and traverse wound packs, precision fine wire vertical multiple head systems complete with payoff, capstan and takeup, for PET, Al/PET, Mica, PTFE, Kapton and many other materials. Concentric through bore binding heads and multiple eccentric servers, All units with protective enclosures with safety interlocks, custom configurations based on customer line heights and space restraints.



STRANDERS AND CABLERS

Planetary, Rigid, Tubular, Skip, and SZ stranding lines, Single and Double Twist Bunchers and Stranders, Drum Twisters, Twinners, for wire and fiber applications. complete worldwide startup assistance and training, installation services available, full CAD and maintenance documentation, spare parts programs and scheduled maintenance plans.



EXTRUSION LINES

Physical and chemical foam, primary extrusion, jacket/sheathing, geophysical, category cable, loose tube/tight buffer optical fiber, medical tubing, industrial tubing, profile, reclaim, fluoropolymer, complete worldwide startup assistance and training, installation services available, full CAD and maintenance documentation, spare parts programs and scheduled maintenance plans.

FINE INTERNATIONAL CORPORATION

OUR HISTORY

Fine International is a privately held USA corporation that was founded in 1995 as a specialized machinery supplier to the wire and cable industry. Our company's 2 principals have a combined 60 year experience in the wire and cable industry with both machinery supplier and cable manufacturing experience. This combination of our experience and strong engineering foundation results in practical and economical solutions fulfilling our customer requirements.

MANUFACTURING

The company's factory, located in Shanghai, China, manufactures the equipment offered in our machinery division. The facility has over 16,000 square meters and employs over 200 machinists, laborers, etc. and has 50 engineers from varying disciplines (mechanical, electrical, software, etc.). Fine also maintains key supply agreements with several overseas based manufacturers further extending our equipment offerings.

ON-SITE COMMISSIONING/FOLLOW UP SERVICE

Fine provides on-site commissioning for the start-up and training of all supplied machinery. The commissioning team matched with the necessary project disciplines are available for worldwide site locations. The NJ headquarters maintains permanent records of all projects and provides technical support, troubleshooting, and factory procured spare parts as required.

VALUED SUPPLIER

Fine's combination of translating our customer's requirements with our overseas manufacturing results into a reliable and economical solution to our customers. Our flexibility to customize all of our machinery results in a supplied machine to match the customer's exact needs not achievable with "one size" only suppliers.

Contact us to solve all your manufacturing needs.