



EXTRUSION LINE COMPONENT OVERVIEW

Fine International offers a complete line of cable extrusion components ranging from the wire handling elements (payoffs, capstans, and takeups) to the core extruder components including screws, crossheads and operator control panels. Auxiliary equipment including inductive preheaters, water cooling systems and gas injection systems for foam applications. Precise made custom equipment is also available to address special customer needs.

All components are fully tested at our factory prior to shipment and we invite our customers to participate in this important quality assurance step. Our optional on-site commissioning verifies proper equipment installation and provides operator training and troubleshooting.

Payoffs

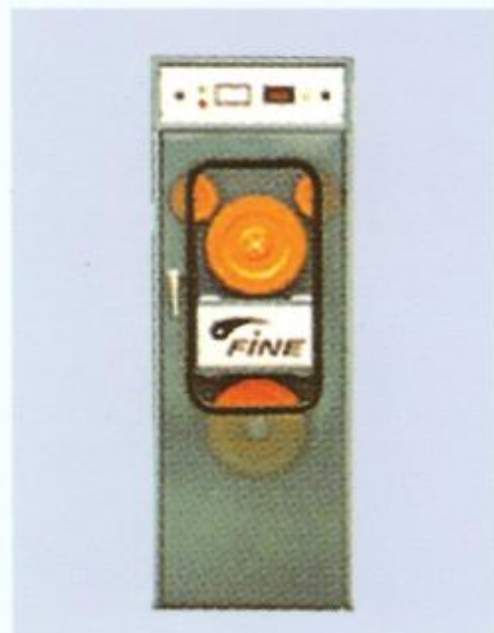
- Single flyer payoff
- Dual flyer payoff
- Driven shaftless payoff with hydraulic lift and close
- Payoff dancers
- Conductor sizing units



Inductive Preheaters

Full range of inductive preheaters is available for conductor heating to 200iāC. Standard units include (custom units available).

- IP4000-180-5.5
Conductor range: 0.5 to 1.0 mm
Speed: 0 - 1000 meter/min
- IP300-250-8.5
Conductor range: 1.0 - 2.0 mm
Speed: 0 - 1000 meter/min
- IP50-380-16
Conductor range: 1.3 - 3.0 mm
Speed: 0 - 1000 meter/min



*The Foam Extrusion Experts
Serving the Wire and Cable Industry*

FINE INTERNATIONAL CORPORATION



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Capstans

Complete offering of capstans are available to address each wire conveyance need.

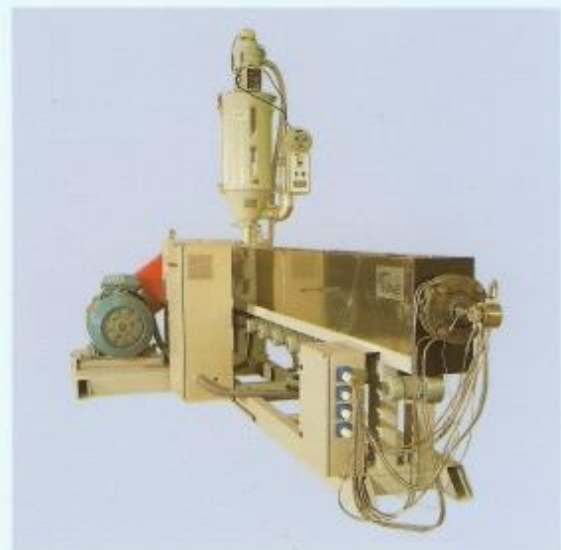
- Dual wheel conductor metering capstan
Wheel diameter: 300 - 1500 mm
- Vertical or horizontal belt wrap pullout capstan
Wheel diameter: 300 - 1500 mm
- Water wheel cooling capstan
Wheel diameter: 200 - 500 mm
- Linear caterpillar capstan
Contact length: 400 -1500 mm
- Closed loop wire tension control systems



Extruders

Broad offering of extruders are available for principle wire coating or secondary stripe or skin coating applications for standard materials (PE, PVC) and high temperature applications (FEP)

- Extruder for PE foam:
Screw diameter: 40mm to 150 mm
Extruder's L/D range: 34 to 40
- Extruder for FEP foam:
Screw diameter: 40mm to 65 mm
Extruder's L/D range: 32 to 36
- Extruder for PE or PVC:
Screw diameter: 25mm to 150 mm
Extruder's L/D range: 20 to 40
- Extruder for FEP:
Screw diameter: 25 mm to 65 mm
Extruder's L/D range: 25 to 30
- Extruders are equipped with fixed or adjustable center crossheads. The connecting adaptors are equipped with bleeding valves.



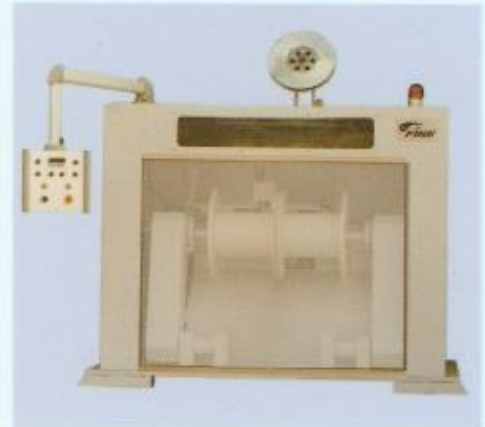


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Takeups

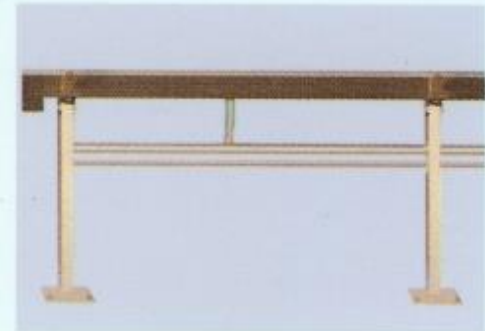
Full range of product takeups are available for low speed (manual) and high speed applications (automatic)

- Shaftless takeup:
 - Reel diameter: 500 mm to 1200 mm
 - Line speed: up to 300 m/min
- Portal style traversing takeup:
 - Reel diameter: 500 mm to 1500 mm
 - Line speed: up to 300 m/min
- Semi-automatic dual takeup:
 - Reel diameter: 500 mm to 800 mm
 - Line speed: up to 700 m/min



Water Cooling Systems

Water cooling sections with heated tank reservoir and circulating pump. Retractable entrance for the first section. Cooling troughs are made from stainless steel, have overflow drain boxes at entry and exit, and adjustable height support stands. Last sections include high velocity air wipes.



Control Panels

The user friendly touch screen computer displays all parameter and real-time process trending. All AC vector drives are digital controlled. PLC control the line logic, diameter and line tension. PID temperature controllers can maintain setpoint temperature $\pm 1^{\circ}\text{C}$.





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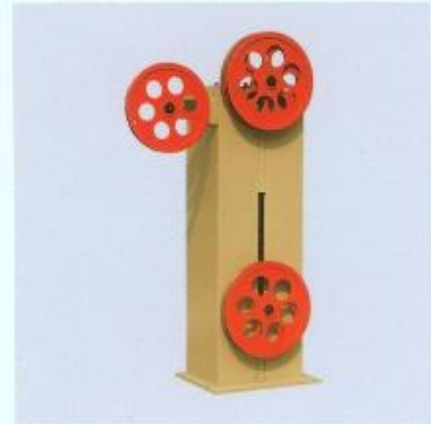
Gas Injection Delivery Systems

Model N2-400 gas injection system provides all of the necessary equipment to delivery a high pressure nitrogen supply (400 bar) into a foam extruder for the preparation of gas injected foam suitable for coaxial, LAN and RF cable applications. The system is all self contained and connects tot he extruder through a standard pressure transducer fitting. The proprietary design prevents the polymer melt from entering into the gas injector. The system is equipped with PRECISEFLOW, a gas metering device that actively dispenses the nitrogen gas into the extruder. Delivery systems at 700 bar are also available.



Accumulators

Line accumulator systems are available for conductor input and product output applications in vertical and horizontal configurations. The potentiometer will trim the speed of payoff or takeup or can be integrated into the line logic for reel changeovers. Custom design systems are available for any spacing and configurations requirement.



**Contact Fine International for
The Best Valued Manufacturing Equipment Available
In the Wire and Cable Market!**

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