







THE SOLUTION OF FULLY AUTOMATIC PLASTIC THERMOFORMING

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Company Name		WENZHOU RAYSHAPE MACHINERY CO., LTD
Export Agency		WENZHOU RAYSHAPE IMPORT AND EXPORT TRADING CO., LTD
Contact		Kim
WhatsApp/WeChat/Tel		+86 15355870907
E-mail		zhu@cnrayshape.com
Date		

Shaping the Future with Cutting-edge Innovation





Company Brief Introduction

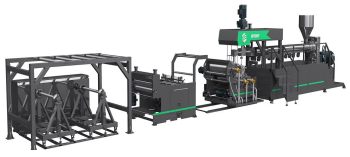
Wenzhou Rayshape Machinery Co., Ltd. is a subsidiary of Elemotion Group, located in the beautiful coastal city of Pingyang County, Wenzhou, Zhejiang Province, at No. 19, East Section of Pinghai Avenue, Binhai New Area. It is a manufacturing enterprise that integrates mechanical and software R&D, production, marketing, and after-sales service.

In 2021, Elemotion invested in Wuhu Youhe Automation Technology Co., Ltd., which was officially renamed Wenzhou Rayshape Machinery Co., Ltd. in 2025 and is now wholly owned by Wenzhou Elemotion Holdings.

Wenzhou Rayshape Machinery Co., Ltd. boasts a seasoned R&D team, strong operational and after-sales service capabilities, as well as a solid financial foundation. The company is dedicated to the development and production of high-end, energy-efficient, and highly automated equipment, including positive and negative pressure plastic thermoforming machines, plastic sheet extrusion lines, and plastic roll forming machines.

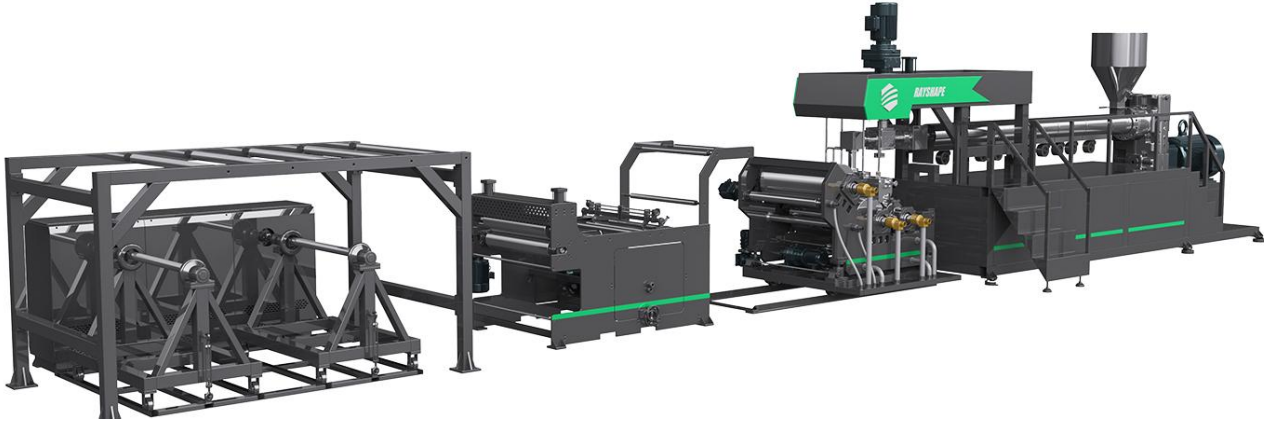
These machines are compatible with a wide range of materials such as A-PET, R-PET, C-PET, BOPS, HIPS, PP, PLA, and PVC, enabling the production of various plastic finished products. Wenzhou Rayshape Machinery Co., Ltd. carries forward Elemotion's spirit of diligence and continuous improvement, constantly striving for self-surpassing excellence. Embracing innovation, the company has successively developed high-quality automated equipment and is committed to learning from Elemotion's path toward becoming a leading enterprise in the industry.

Quotation

No.	photo	DESCRIPTION OF GOODS	Qty.	Unit Price (USD)	Amount (USD)
1		Plastic Sheet Extrusion Line Model: RSE-110-1000	1		
Total					
ATTN Pls: 1. FOB NINGBO/SHANGHAI PORT, CHINA; 2. Voltage: 380V/50HZ/3P; 3. The quotation is valid within one month.					
Payment term: 4. By T/T. 30% as deposit 5. 70% balance should be paid before shipment					
Delivery time: 6. Within 45 working days since the deposit received and the drawing confirmed.					
Packing: 7. Standard packaging					
Warranty period: 8. 12 months since date of the buyer receive the machine. Within this guarantee, if parts damaged or destroyed not caused by human factors, seller will provide it free of charge, freight will be on buyer's account.					
Installation, Adjusting & Commissioning: 9. The supplier must arrange for installation technicians to install and commission the machine in the buyer's country. But the buyer should pay for the charges covering round-trip tickets of engineer, VISA, accommodations, meal, translator and any other charges happened in Buyer's country. Technicians are free of charge within 7 days, and the buyer should pay 150USD per day more than 7 days.					

Diagonal Mono-layer Plastic Sheet Extrusion Line Machine

Model: RSE-110-1000



INTRODUCTION

RSE-110-1000 inclined single-layer plastic sheet extruder unit is composed of an extruder, calendering, traction, winding machine, and electrical control cabinet. It is a production line designed with mechanical, pneumatic, and electrical integration, and is suitable for high plasticization requirements, uniform mixing, and high-quality sheet materials for various production needs. All machine accessories are sourced from well-known domestic and foreign brands, ensuring high efficiency and stability throughout the entire production process.

Suitable for extruding plastic sheets such as polypropylene (PP), polystyrene (PS), polyethylene (PE), etc. The formed plastic sheets are used to make thermoformed packaging containers or printed products such as plastic trays, beverage cups, ice cream cups, yogurt cups, lids, plates, fruit boxes, etc.

FEATURES AND ADVANTAGES

1. High degree of standardization, simple operation, reliable performance, low noise, and high quality.
2. Integrated mechanical, pneumatic, and electrical systems, controlled by microcomputers and programmable logic controllers (PLC).
3. Easy to operate human-machine interface with remote connection function.
4. The main components of the screw, barrel, screen changer, mold head, etc. are made of high-quality alloy steel (38CrMOAIA) and treated with nitriding, which has the advantages of high hardness, corrosion resistance, and long service life.
5. Screw optimization design, adopting a large aspect ratio, uniform plasticization, good mixing effect, and high production capacity.

6. The extruder frame is made of square steel, which ensures stable high-speed operation and enables continuous production without stopping the machine.
7. The extruder motor and gearbox are directly connected to improve production efficiency.
8. The screen changer adopts a hydraulic dual screen changing device, which does not require stopping the machine for screen changing. Easy to operate and improve production efficiency.
9. The rolling, traction, and winding parts of the machine (including waste edge winding) adopt a separate design, with a beautiful appearance and easy installation and debugging.
10. The inner liner of the rolling roller adopts a spiral groove design, which has good cooling effect and strong rigidity.
11. The rolling roller can be equipped with an independent temperature control system to meet various process requirements.
12. Optional gantry type, flip type and other rewinding machines, as well as multi station customization.



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EQUIPMENT LIST

序号	名称	Name	Qty
1	110 螺杆挤出机	110mm screw extruder	1
2	上料系统	Feeding system	1
3	液压换网器	Hydraulic screen change	1
4	熔体泵	Melt pump	1
5	模具	Mould	1
6	三辊压延机	Three-roll calender	1
7	冷却托架	Cooling bracket	1
8	牵引机	Haul-off unit	1
9	收卷机	Winder	1
10	电气控制系统	Electrical control system	1
11	备品备件	Spare parts	

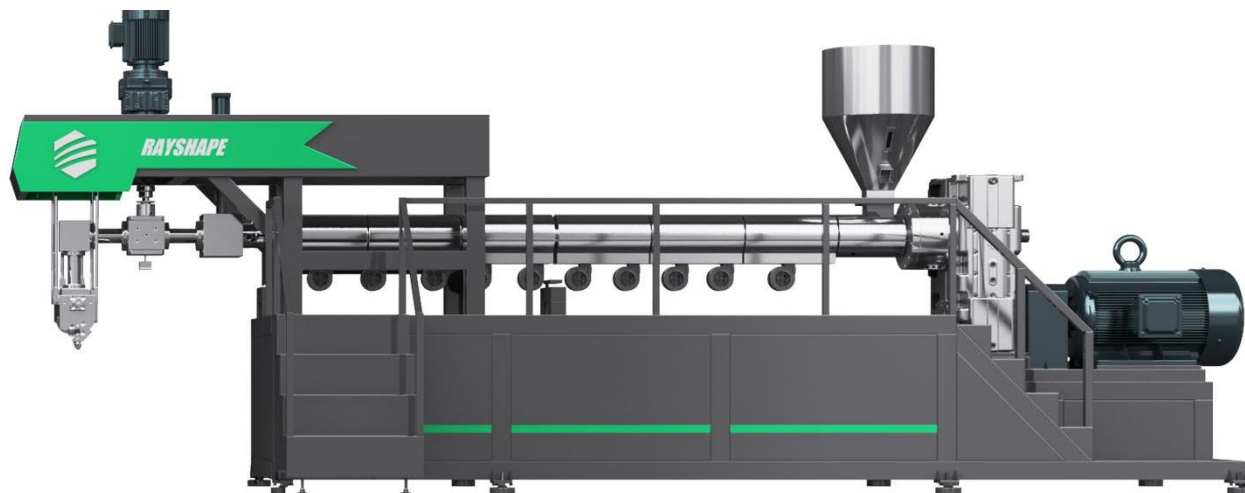
SPECIFICATION

适用材料 Applicable Materials	PP、PS、PE	主电机功率 Main Motor Power	60kw
制品宽度 Product Width	PP、PE: 850mm PS: 750mm	加热功率 Heating Power	40kw
制品厚度 Product thickness	PP、PE: 0.3-2mm PS: 0.2-2mm	总功率 Total Power	100kw
模头有效宽度 Effect Width Of Die	1000mm	流量 Cooling Water Flow	50m ³ /h
辊筒有效宽度 Effective Width Of Roller	1000mm	线速 Line Speed	15-30m/min
三辊直径 Diameter Of Three Roll	350mm*1 450mm*2	产量 Output	150-200kg/h
螺杆直径 Diameter Of Screw	110mm	设备重量 Equipment Weight	7500kg
螺杆长径比 Length/Diameter Ratio	1:32	设备尺寸 Equipment Size	长*宽*高 12000*1800*3000mm

SUMMARY

1	加工物料: PP、PS、PE	Processing materials: PP、PS、PE
2	<p>电气供应: 所有的电柜 (包括主电柜和控制电柜) 以及挤出机组的内部电线电缆都由卖方提供, 买方的责任是需要提供到挤出机组的主电柜/输入电源的外部电缆及电缆架等辅助设施。</p> <p>输入电源电压: $3 \times 380V$ 电压最大波动: $\leq \pm 10\%$ 频率: 50HZ 频率最大波动: $\pm 0.5HZ$</p>	<p>Electric Power Supply: All Cabinets (including main power supply and control) and all internal cables will be supplied by the seller, buyer's responsibility is for external cables and cable frame to main panel/input power position of sheet extrusion machine)</p> <p>Mains input: $3 \times 380V$ Fluctuation: $\leq \pm 10\%$ (max) Frequency: 50Hz Fluctuation: $\pm 0.5Hz$ (max)</p>
3	<p>循环冷却水供应: 无论客户使用开环或闭环循环冷却水系统, 都必须要保证水质清洁、无沉淀物。</p> <p>最高供水温度: $\leq 30^{\circ}C$ 供水压力: 3~5bar 压力波动: $\pm 0.5bar$ 平均回水压力: 1.5bar 循环水量: 25~30m³/h</p>	<p>Cooling water supply: water used on machinery in closed or open loop circuits must follow the general requirement: clean filtered and free of sediments.</p> <p>Supply temperature: $\leq 30^{\circ}C$ Supply pressure: 3~5bar Pressure variation: $\pm 0.5bar$ Return pressure average: 1.5bar consumption capacity: 25~30m³/h</p>
4	<p>压缩空气供应: 气源清洁, 无油水和灰尘 供给气源压力: $\geq 7bar$ 压力波动: $\pm 1\%$ 气压力: 1.0m³/h</p>	<p>Compressed air: clean, free of oil, dust and water supply pressure at point of use: $\geq 7bar$ Pressure variation: $\pm 1\%$ Consumption capacity: 1.0m³/h</p>
5	<p>我司保留对生产线技术改进的权利, 以上规格参数如有变更, 恕不另行通知。</p>	<p>Our company reserves the right to improve the production line technology, the above specifications are subject to change without prior notice</p>
6	<p>电气控制软件: 锐塑挤出生产线嵌入式控制软件 V1.0</p>	<p>Electrical control software: RAYSHAPE extrusion line embedded control software V1.0</p>

COMPONENTS OF PRODUCTION LINE



RSE-110-1000 挤出机

PLASTIC SHEET EXTRUDER Machine Model RSE-110-1000

螺杆机筒	Screw barrel
螺杆材质：螺杆元件为耐磨材料，氮化钢	Screw material: The screw element is made of wear-resistant material and nitrided steel
螺杆产地：舟山	Screw production place: ZHOUSHAN
螺杆硬度：HV950	Screw hardness: HV950
机筒材质：机筒耐磨材料，氮化钢	Barrel material: barrel wear-resistant material, nitrided steel
机筒硬度：HV 1050	Barrel hardness: HV 1050
螺杆直径：110mm	Screw diameter: 110mm
长径比 L/D: 32	L/D: 32
筒体加热器：陶瓷	Barrel heating part: Ceramics
加热总功率：约 60kw	Total heating power: 60kw
冷却方式： 循环水泵：电机功率 0.55kw	Cooling mode: Circulating water pump: motor power 0.55kw
驱动	Drive
电机：交流电机（贝德电机）	Motor: AC motor
主电机功率：55KW	Power: 55KW
减速机：高扭矩 250 型 江苏国茂	High torque Gearbox 250 model
轴承：NSK	Bearings: NSK
连接形式：直连式	Connection mode: Direct connection
主机垫高形式：钢平台	Mainframe height form: steel platform
换网器	hydraulic screen exchanger
液压驱动：手动控制，液压换网	Hydraulic drive: manual control, hydraulic screen changer

结构形式：平板式双工位 150CC	Structural mode:double column Two station
加热方式：不锈钢加热棒加热	Heating method: Stainless steel heating rod heating
换网器品牌：台州精海	Supplier: Taizhou Jinghai
熔体计量泵	Melt pump
泵传动连接：万向轴连接器	Pump Drive Connection: Cardan Shaft Connectors
流量：150CC	Flow: 150cc
减速箱+电机	Gearbox+AC Motor
熔体泵品牌：郑州奥迈	Brand: Zhengzhou Aomai
模具	T-die
结构：衣架式流道(精海)	Structure: Hanger runner (Jinghai)
材质：优质模具钢	Material: High-quality die steel
模具内流道镀铬处理，镀铬层最小厚度 0.03-0.05mm	The runner in the mold is chrome-plated, and the minimum thickness of the chrome-plated layer is 0.03-0.05mm
抛光至镜面(型腔 Ra 0.1um, 模唇 Ra 0.05um)	Polished surface (cavity Ra 0.1um, die lip Ra 0.05um)




压延、牵引、收卷部分

THE ROLLING, TRACTION, AND WINDING PARTS OF THE MACHINE


三辊压延机	Three -roller calender
三辊类型：90 度	Calendar type: “90 Degree” Oblique type
滚筒尺寸：Φ350mm Φ450 Φ450 mm	Roller size: Φ350mm Φ450 Φ450 mm
表面粗糙度：Ra≤0.015um	Surface roughness: Ra≤0.015um
表面硬度：HRC≥58	Surface hardness: HRC≥58
镀铬厚度：≥0.1mm	Chromium coated thickness: ≥0.1mm
传输类型：同步驱动器	Transmission type: Synchronize drive
伺服电机：4.5kw 汇川	Servo motor: 4.5kw Inovance
间隙调节方法：液压油缸	Gap adjustable method:Hydraulic oil cylinder
滚子轴承：日本 NSK	Bearing of the roller: Japan NSK
框架：一整块实心钢	The frame: One block of solid steel
转动接头：法兰式	Rotational joint: Flange type

牵引冷却托架、边料卷边	Cooling supporting frame, winding waste edge sheet
托架长度：3 米	Bracket Length: 3 m
托辊（无动力）：铝辊	Bracket of pulling rollers (no power): Aluminum rollers
规格：Φ70×1000mm	Specification: Φ70×1000mm
修边装置：2 把割刀	Trimming device: 2 knives
在线边料收卷：1 套	Online winding sheet part: 1 set
规格：Φ180×1000mm 上辊：丁腈胶辊 下辊：镀铬钢辊	Specifications: Φ180×1000mm Upper roller: Nitrile rubber roller Lower roll: Chrome-plated steel roll
减速箱+电机	Gearbox+Motor
功率：3Kw	Power: 3KW
与三辊同步也可独立	Synchronized with three rolls can also be independent
双伺服电机收卷机	Two servo motor winding sheet
收卷方式：双工位收卷 控制：自动设置长度计数 收卷直径：<500mm 纸管芯规格：直径 3 英寸	Form: Double station flip Control: Automatic fixed length counting Rewinding diameter: <500mm Specifications: Paper tube core 3 inches
搅拌上料系统	Automatic mixing and loading material
料桶容量 500kg	Mixing capacity 500kg
功率：搅拌机 3kw, 上料机 1.5kw	Mixing power 3kw, Feeding power 1.5kw
电气控制系统	Electrical control system
操作屏：汇川	Operation panel: Inovance
PLC：汇川	PLC: Inovance
主变频器：汇川	Main inverter: Inovance
接触器：伊顿	Contactors: America Eaton
继电器：伊顿	Relay: America Eaton
低压断路器：伊顿	Low voltage circuit breaker: America Eaton
空气开关：伊顿	Air switch: America Eaton
按钮开关、指示灯：菲尼克斯	Button switch, indicator light: Germany Phoenix


AUXILIARY EQUIPMENT:

PHOTO	SPECIFICAITON
	Name: 30T-Water Cooling Tower
	Height: 2300mm
	Diameter: 1900mm
	Water Discharge: 2 inches
	Motor power: 1.1kw
	Weight: 125kg
	Water Pump: 5.5kw

A water cooling tower dissipates waste heat from industrial processes or condensers into the atmosphere through heat exchange with air, enabling the recycling of cooled water.

	Name: Crusher
	Rotating Blade: 6pcs
	Fixed Blade : 4pcs
	Screen Caliber: Φ 12mm
	Feed Inlet: 800*550mm
	Output: 750~850kg/h
	Motor Power: 22kw
	Dimension: 1500*1700*1900mm
Weight: 1450kg	

A crusher is primarily used to break down large-sized materials or waste into smaller pieces for easier processing, cleaning, or granulation, serving as essential equipment for material recycling and pretreatment.

	Name: Edge crushing machine
	Main Motor Power: 5.5kw
	Feeding Motor Power: 4kw
	Haul-off Motor Power: 0.75kw
	Max. Feeding Width: 330mm
	Feeding Distance: 50m
	Number of Blades: 5pcs
	Max. Crushing Capacity: 250-300kg/h
	Blade Material:DC53/Alloy Steel
	Screen Mesh Size:10-15mm
Power Consumption :6kWh/h	

Edge Crushing Machine is designed for in-line recycling of edge trims during sheet extrusion. It instantly grinds scraps into uniform granules and feeds them back for reuse, ensuring resource circulation and reducing production costs.