



Product Introduction

Silicone extrusion machine ES-055

【Product Description】

The silicone extrusion machine is designed for extruding and making extruded silicone products like silicone tubes, silicone strips, silicone profiles with good quality, the extruded silicone products have small size tolerance up to $\pm 0.06\text{mm}$, the extruded silicone product is smooth surface both inside the wall or outside the wall and had no bubbles, smooth surface. the silicone tube wall thickness reach up to 0.2mm

The whole silicone extrusion production line involves one silicone extruder, one shape forming heating tunnel and 3-4 sets curing heating tunnels based on customers' silicone product sizes

The heating tunnels raise heating temperature really fast with high efficiency heat tubes and keeps the temperature in stable which ensures the extruded silicone products are fully vulcanized.



Youtube video

This extrusion silicone rubber machine applies PLC touch screen controls and reserve some simplified physical keys which is easy to operate, one of the main advantage is that you can store your specific silicone product parameters in the machine, like curing temperature, speed, curing time etc in one package recipe, you can store the recipe and retrieve it and apply the previous silicone product parameters with one key pressing on the touch screen.

With IO monitoring, each alarm code can trace to exactly to exact problem or which spare parts had failed which allows us to locate the problem exactly and offer solution accordingly.

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Product Introduction

The silicone extrusion machine ES-055 will boost productivity for silicone extrusion manufacturers ,based on the silicone product size of our customer ,we have 25,65, 85 size machine , below the extruded silicone products , the silicone extruders ES-055 are wide application to all kinds of silicone tubes ,silicone profiles etc .



【Technical Data】

Silicone extrusion machine

Model No. /Item	Screw diameter	Screw compression ratio	Screw type	Screw rotation ratio	Motor power/KW	Machine center height /mm	Output (machine head kg/H)	Actual production KG/H	Size(L*W*H)	N.W(KG)
ES-055-1	25	2.6:1	Singles	0-60	2.6	1000	40	5-20	1000*600*1140	400

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Product Introduction



ES-055-2	65	2.6:1	screw trace, not same	0-50	7.5	120	30-70	1900*620*1230	900
ES-055-3	85	2.6:1	distance and depth	0-45	15	220	30-100	2080*640*1250	1100



Shape forming heating tunnel

Model No/Parameter	Heating power/KW	Power consumption KWH	Temperature control range	Heat tube material	Temperature raising time (to 700°C)	Size(L*W*H)	Net weight (KG)
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ES-055-W	10	7	One phase	Stainless steel	45Min	500*500*1220	180
ES-055-H	12.5	8	One phase	Stainless steel	40Min	800*500*1220	200



Curing Heating tunnel

Heating power/KW	Power consumption KWH	Temperature range °C	Transporting speed Meter/Min	Foot wheels under heating tunnel shelf	Heating tunnel center height	Heat tube material	Temperature raising time (to 400°C)	Size(L*W*H)	Net weight (KG)
5.2	3.5	25-400	40	yes	900(+50)	Stainless steel	30Min	2000*500*1220	240
6.4	4.5	25-400	40	yes	900(+50)	Stainless steel	30Min	2500*500*1220	290

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【Product Advantage】

1, Wide application to silicone tubes, silicone strips and silicone profiles, all kinds of silicone extrusion products

2, The extrusion density is good, the inner and outer surfaces of the silicone products are smooth, there are no bubbles on the extruded silicone products, easy to clean the remaining silicone material, the extruder screw is easy to disassemble, the minimum extrusion size tolerance can be 0.06mm, and the product wall thickness can be 0.2mm

Product Introduction



3, Economical energy saving with good heating tunnel which keeps temperature well .

【Product Details】

1, **PLC Touch screen control** ,the silicone extrusion machine applies PLC touch screen control and reserve some key physical buttons ,customer can set their product prameters on the machine and save as one recipe and update lively the product processing matching speed . With IO monitoring , Every alarm code can trace to exactly which spare parts had failed and handle it in time .

Using a 100-pulse encoder knob with a servo motor can accurately adjust the servo speed in 1 turn, and 10 turns is the full speed. It is more accurate than a potentiometer and has stronger anti-interference ability.

The touch screen monitors machine execution data in real time, given speed value, servo feedback speed value, pressure value, meter number, single linkage value, current value, voltage current value and other real-time data.

Product Introduction



2, Heating tunnel, each tunnel furnace adopts an independent temperature controller, with a temperature setting range of 0-400°C and a balanced and stable temperature.

Using Taiwan Yang Ming 3P solid state relay, the empty ratio can reach 20 and the temperature control is more accurate.

Product Introduction



3,High power servo motor, the extruder applies with high power servo motor to ensure good and

stable performance

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Product Introduction



Use Guomao industrial gearbox to ensure the concentricity of the screw barrel, no friction, no blackening, and stable retreat force.

The inside of the barrel adopts spiral water cooling which ensures stable cooling and no partial heating.

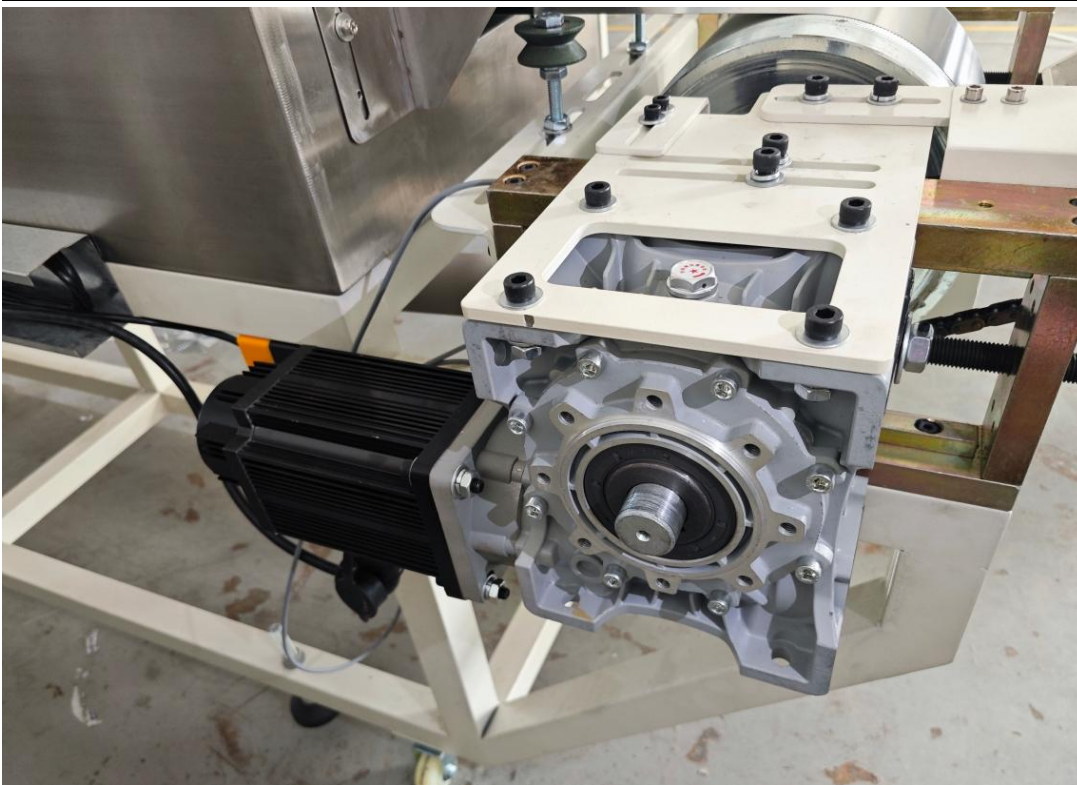
The extrusion screw, silicone material feed roller, barrel and extruder head all have water cooling circulation

The extruder head is vital for machinery and with high frequency quenching and tempering and clear electroplating surface treatment



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4, Heating tunnel ,The heating tunnel temperature maintains stable, the heating tube has high heating efficiency and fast heating speed, and the stable conveying and heating silicone tube in the tunnel furnace ensures that the extruded silicone tube is fully vulcanized.

Product Introduction



The heating tunnel applies with double-cover on top which is more airtight and does not deform at high temperatures. It is made of stainless steel 304 and is cleaner and more nice .



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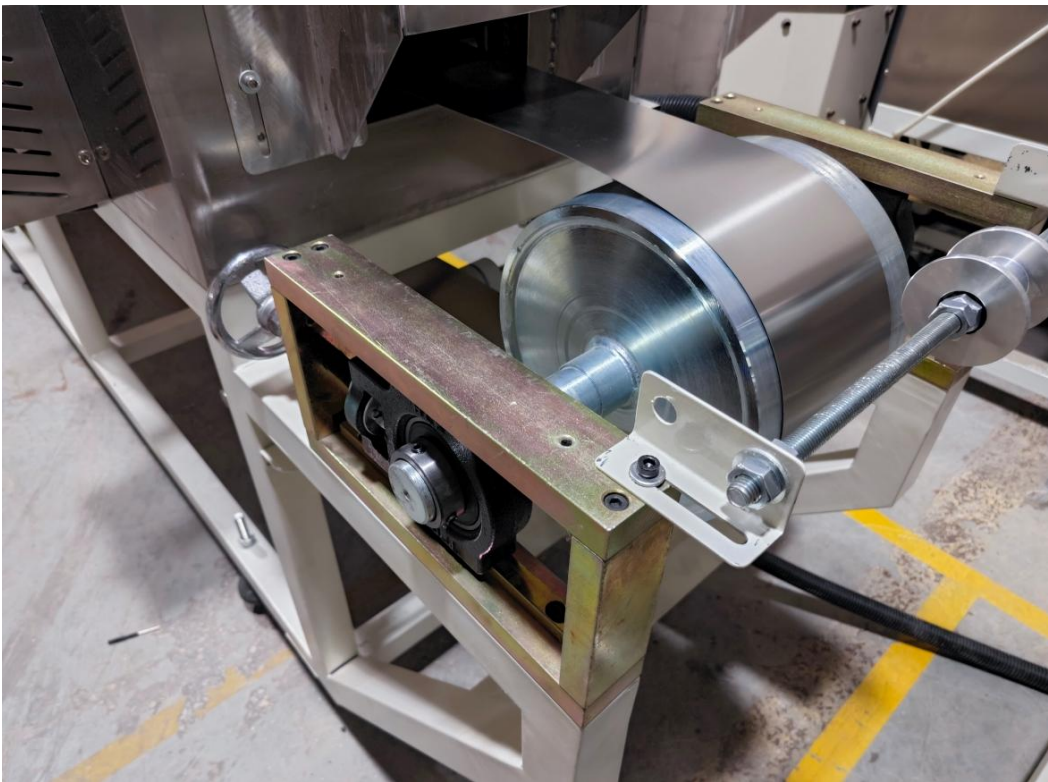
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5, **Guiding device** , There are guiding device at the end of the tunnel to ensure that the product does not slip on the steel belt and is stable. The direct connection of the motors solves the unstable conveying situation compared to the old traditional chain drive method

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There are pallets and supporting wheels in the drying tunnel to ensure smooth transportation of the steel belt.

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6, Optional feeder device on top of the extruder ,adopting roller type feeding, the feeder speed are matching with

the host speed of the extruder machine,With photoelectric switch to detect the lack of silicone rubber material and feed in time ,

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precise feeding More accurate than manual feeding .



Front View

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Side View

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Side View

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Back View

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Over View



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【Warranty】

As a silicone extrusion machine supplier , all the spare parts of the 055 machine will have one year of free maintainance

by changing the spare parts for free and free shipping of spare parts to overseas clients starting from the issuing date of commercial invoice after on line diagnosis .

【Packing】

1Set/Wooden case ,foam paddings will be put inside wooden case for safe overseas shipping