




Parameters: Model: DX-FY7190 (three-station negative pressure thermoforming machine)

NO.	Term Name Description	Technical parameter
1	Applicable raw materials	PP, PS, PET, PVC, OPS, degradable materials, PLA, etc.
2	Forming method	Negative pressure forming
3	Maximum molding die area	Width 850×Length1500mm
4	Minimum molding die area	420×300mm
5	Applicable sheet width	450-760mm
6	Applicable sheet thickness	0.15-2.0mm
7	Maximum punching area	850*1500mm
8	Maximum cutting force of cutting station	80T
9	Maximum opening and closing stroke of cutting die	165mm
10	Molded product height	120mm
11	stacking mechanism	Punch down the stack
12	Rated power of the whole machine	118kw (power consumption 25-50kw)
13	Power access	380V/50HZ (three-phase five-wire)
14	Total Weight	10,000kg
15	physical dimension	L10m×W2.4m×H2.6m
16	Maximum sheet material roll diameter	1000mm
17	Client air source (external configuration)	Air supply ≥5.5m ³ /min, air pressure 0.6~0.8Mpa
18	Capacity	5 cycles/min

No	Project	Brand	
1	Control System	Taiwan Delta	

2	Programmable Controller (PLC)	Taiwan Delta (sport bus control)	
3	touch monitor	10-inch color touch monitor	
4	Pull tab servo system	Taiwan Delta 3.0	
5	Pull-tab reducer	High-precision planetary reducer	
6	Pull chain	Taiwan KMC (double row guide chain)	
7	molding system	Servo drive	
8	Cutting Servo System	Taiwan Delta (with brake) 7.5	
9	Stacked Servo System	Taiwan Delta (with brake) 1.5	
10	Intelligent temperature control system	1.Zhuanggu (hero) one control one computer digital temperature control 2.Japan Yamatake Temperature Measurement Modules	
11	Workstation structure	Cam structure.Casting station	
12	Intermediate relay	Japan IDEC	
13	AC contactor	Japan Fuji	

14	hot stove	2 times of the molding area is heated, and the upper and lower furnaces are heated	
15	proximity switch	Omron Japan	
16	Photoelectric switch	Korea Altonix	
17	safety light curtain	domestic	
18	switching power supply	Mean Well Taiwan	
19	Far infrared ceramic heater	Ceramic heating brick (heating wire, thermocouple imported from Sweden)	
20	vacuum pump	Zhongde 155M3/H (100 cubic meters of vacuum flow per hour)	
21	Positive air valve	Japan SMC ultra-high-speed response fluid valve	
22	cooling system	6HP Air Cooled Chiller	
23	bearing	Japan NSK	
24	Water and oil separator	Japan CKD	
25	Auxiliary cylinder	AirTAC Taiwan	
26	The electromagnetic valve	Japan CKD & SMC & Taiwan goldware	
27	vacuum valve	Angle seat valve	
28	chain guide	Surface hard oxygen treatment of aviation aluminum alloy	

29	feeding system	Double material rod automatic mechanical feeding device	
30	Body, sheet metal	Paint treatment	

Requirement:

1. The coil diameter accepted by the feeding machine(roll production machine) is 1 meter.
2. Mold design for our product in 3D.Mold design for our product in 3D.
3. The width of material is about 900mm.
4. Also, the production machine must have a double chain on the part where it



pulls the film,chains that pull the foil must be covered.

5. The coolant used to cool the mold is 4.5kw
6. The pistons and chain rail lubricating oil is automatically lubricated.
7. An in-line crusher is added for simultaneously crushing waste.
8. Send more vulnerable spare parts.
9. The cutting station lower mold and the mold of the upper part must be with piston.



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