



® JiangYin HuaFang New Technology & Scientific Research Co.,Ltd
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HFGA136B Ball Warping Machine



I , Specification:

Main machine

——Working width: 1200mm

Ball Diameter: ≤ 1400 mm



——Yarn feeder: reciprocating traverse controlled by servo motor(edge tapering)



——Suction device available before leasing reed.



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—Swing device available for leasing reed.



Tensioner: AmericanApalachi Electronic Disc Tense(AYTC-2000)

Stop motion: infrared

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Technical Files

I , Technical parameters of HFGA136B

1, Application:

a) This machine is applied for transferring individual yarn ends into a rope-like bundle and winding on beam, it is suitable for working with various types of rope dyeing machine.

2, Main features:

b) With famous brand PLC control, loading and doffing, pressing, machine start/stop and speed adjusting can be realized automatically and reliably.

c) Famous brand touch screen for convenient operation of mechanical running situation ministering, trouble shooting analysis, broken and broken rate indicating.

d) Famous brand inverter for wide speed adjusting scope to ensure constant linear winding speed.

e) Special press form, pressure given can be adjusted linearly.

f) Famous brand encoder for speed and length counting, precise and reliable.

g) Wallboard are made of high quality steel plate, nice structure, high rigidity ensure machine running steadily.

h) Special loading/doffing design, more convenient and quick reaction.

i) Reciprocation bearing of yarn feeder applies self-lubricating engineering plastic linear bearing for easy maintenance.

j) With synchronous belt drive, machine is running in low noise.

3, Main technical data:

width	1200mm
ball diameter	≤1400mm
speed	10~400m/min
pressing force	1500N~5500N
pressing form	proportion valve control (tension of inner and outer circle can be settled)
feeding form	the yarn feeder is reciprocating traversed driven controlled by servo motor
main motor power	7.5 KW
machine weight	about 1500 KG
overall dimension	2300mm(L)×1550mm(W)×1720mm(H)

II , Main component configurations table

No.	Name	Modal Spec.	Qty	Brand/Origin	Remark
1	Inverter Motor	7.5KW	1	SCHNEIDER	
2	PLC	S7-200	1	Siemens	
3	Servo motor	MDMEGCG 4KW	1	Panasonic	



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4	Servo driver	MFDHTB3A2(4KW)	1	Panasonic	
5	Motion controller	TRIOMC206	1	Trio-British	
6	Multi-turn potentiometer	S22HHPM-10-10K	1	SAKAE	
7	Three phase transformer	380/200 SG4KVA	1	CHNT	
8	Touch screen	7inch	1	SCHNEIDER	
9	Encoder	TRD-2T100BF	1	Koyo	
10	Switching power	D-30AGD(+5V,+12V)	1	MingWei-TaiWan	
11	Switching power	NES-100-24	1	MingWei-TaiWan	
12	Approach switch	J12-D4PK	3	Guansu-ShangHai	
13	Breaker		1	CHNT	
14	AC Contactor		1	SCHNEIDER	
15	Relay		1	LeGong	
16	Button		1	SCHNEIDER	
17	Encode coupling	LK6-16-0606	2		
18	Linear bearing		1	WuXi	
19	Sliding film	JUM-01-40	2	Igus	
20	Linear guide rail	HGH25HA1R700Z0	2	Hiwin-TaiWan	
21	Linear guide rail	HGH35HA1R1080Z0	2	Hiwin-TaiWan	
22	Brake master cylinder	Santana 2000 type	1	German	
23	Brake cylinder	BW62 type	1	STEKL-TaiWan	
24	Air cylinder	QCQ2A63×50D	1	Ruiyou-WuXi	
25	Air cylinder	XQGB100×580-LB	2	Ruiyou-WuXi	
26	Synchronous belt	600-5M-25	1	Keda-JiangYin	
27	Electromagnetic brake		1	YAN-TaiWan	
28	Synchronous belt	550-5M-25	1	USA	
29	Cylinder(136B)	φ63×110-φ40×110	1	Ruiyou-WuXi	



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30	Induction motor	6IK200GU-S3	1	Yongkun-TaiWan	Reduction ratio 1:120
31	Synchronous belt	800-8M-60	1	USA	
32	Synchronous belt	1250mmH-63.5mmW	1	Switzerland	Polyurethane steel wire core
33	Electromagnetic brake		1	YAN-TaiWan	
34	V belt	SPA-1232	5	PIX-British	
35	Motor	Y160M2-8 7.5Kw	1	WanNan-AnHui	
36	Triplets	UFR/L-04	1	SHAKO-TaiWan	
37	Switch moving valve		1	SHAKO-TaiWan	
38	Pressure regulating valve	R300-03BG	1	SHAKO-TaiWan	
39	2-position 5-way solenoid valve	PU520-02-S9	3	SHAKO-TaiWan	
40	3-position 5-way solenoid valve	PU530-02-D9	1	SHAKO-TaiWan	
41	Proportioning valve	MPPE-3-1/4-10-010B	1	FESTO-German	
42	Pressure gauge	FMA-63-10-1/4-EN	1	FESTO-German	
43	Parallel base	MF520-0202	1	SHAKO-TaiWan	

III, Spare parts for 136B ball warping machine

No.	Name	Modal Spec.	Qty	Brand/Origin	Remark
1	Infrared circuit board		10		
2	infrared receiver		10		
3	Alumina parts for yarn guide		50		
4	spindle bar		10		
5	2-position 5-way solenoid valve	PU520-02-S9	2	SHAKO-TaiWan	
6	Approach switch	J12-D4PK	2	Guansu-ShangHai	
7	Button		2	SCHNEIDER	



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8	Sliding film	JUM-01-40	8	Igus	
9	Synchronous belt	800-8M-60	2	USA	
10	Encode coupling	LK6-16-0606	2		
11	Install tool		1		1 set for one customer
12	Electronic tensioner		1	USA	