



## HFGA135D Rebeaming Machine



### Technical Files

#### I , Main technical data of HFGA135D

- 1, Application: This machine is suitable for various types of rope dyeing machines. It winds the individual yarn ends from a rope-like bundle and distributes them evenly over a warp beam for sizing proves.
- 2, Main features:
  - a) With big brand PLC control, loading/doffing, pressing. machine start/stop and speed adjusting can be realized automatically and reliably.
  - b) Big brand touch screen for convenient operation of mechanical running situation ministering, trouble shooting analysis, broken and broken rate indicating.



- c) Big brand inverter for wide speed adjusting scope to ensure constant linear winding speed.
- d) Independent collapsible yarn guide device, easier for leasing, increase productivity.
- e) Yarn storage device available for unreeling yarn wound on beam, convenient for operator's broken end searching, avoid leasing end and increase warp beam quality.
- f) Expansion reed swing left and right to get cross winding. Its swing frequency changes along with the warp beam speed's changing.
- g) Big brand encoder for speed and length counting, precise and reliable.
- h) Wallboard are made of high quality steel plate, nice structure, high rigidity ensure machine running steadily.
- i) Special beam holding and clamping device, warp beam will not drop in time of sudden power failure or gas failure, thus to protect workers free from injured.

3, Main technical data:

Width	1800mm
Beam diameter	φ1000mm
Warping speed	0~400m/min
Brake distance	≤1.5m (250m/min)
Winding density	0.55~0.65g/cm <sup>3</sup>
Expansion reed	W shape, swing left and right, Interlock working wrap beam, Swing scope 0~20mm
Yarn store capacity	Upper stand
Power of main motor	15KW Inverter motor
Machine weight	About3000KG
Overall dimension	3500mm(L)×1700mm(W)×2600mm(H)

**II, Main component configurations table**

No.	Name	Modal Spec.	Qty.	Brand/Origin	Remark
1	Inverter	V1000 series	1	YASKAWA	Upper stand(Main motor)
2	Inverter	V1000 series	1	YASKAWA	(Tension frame motor) (Reversing motor)
3	Inverter		1	DELTA	Yarn guide
4	PLC	S7-200 series	1	SIEMENS	
5	Switching power supply	NES-150-24	1	MingWei-TaiWan	
6	Touch screen	XBTOT2110	1	SCHNEIDER	



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7	Breaker	DZ47series	1	CHINT	
8	Contactora	LC1series	1	SCHNEIDER	
9	Relay	HH53P DC24V	1	LeGong	
10	Encoder	TRD-2T 100BF	1	Guansu-ShangHai	
11	Proximity switch	J12-4DNK	1	GUANGSU	Clamp in place
12	Button	ZB2series	1	SCHNEIDER	
13	Pressure switch	YK0.3-0.4Mpa	1		
14	Magnetic powder controller	EMC-40	1		Upper stand
15	Proximity switch	J12-D2NKJ	1	Guansu-ShangHai	Lock in place
16	Angle sensor	R362410C360	1		Upper stand
17	Pressure sensor	YK 0.3-0.4Mpa	1		
18	Motor breaker	GV2-ME05C	2	SCHNEIDER	
19	Foot switch	LT3			
20	Lock cylinder	QCQ2B32-20T	2	Ruiyou-WuXi	
21	Cylinder	XQGA100X170-TA	2	Ruiyou-WuXi	
22	Yarn guide cylinder	XQGA63X50-CA	1	Ruiyou-WuXi	
23	Loading/doffing cylinder	XQGB125×150-CA	2	Ruiyou-WuXi	
24	Brake cylinder	QGB80X50MF1	1	Hiwin-TaiWan	
25	Linear guide	HGH35HA1R440Z0	2	Hiwin-TaiWan	
26	Reducer	NMRV040-20-Y0.25	1	LiangHao	
27	Cylinder	XQGA80×150-TA	2	Hiwin-TaiWan	
28	Tension cylinder	CP96SD100-350	1	SMC	Upper stand
29	Motor	TDY90-4	2		
30	Motor	YVP-200L-8-B3(15KW)	1	HengDa-WuXi	Main motor
31	Motor	YVP-132M2-6-B3	1	HengDa-WuXi	Tension motor
32	Triplet	UFR/L-04	1	SHAKO-TaiWan	
33	2 position 5-way magnetic valve	PU520-02-S9	7	SHAKO-TaiWan	
34	2 position 5-way magnetic valve	PU520-03-S9	1	SHAKO-TaiWan	
35	Pressure gauge	FMA-63-10-1/4-EN	2	FESTO	



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36	Proportional valves	ITV2050-313CS	1	SMC	
37	Worm gear reducer	WPWT60-60-B(custom)	1	ZhenYu-HangZhou	
38	Reducer	RV050-7.5F2B6-71B14	1	Lianghao-WuXi	Yarn guide
39	Front brake wheel cylinder	DW62	2	TianJin	Brake
40	Brake master cylinder	Santana	1		Brake
41	Electromagnetic brake	EFB-2-050	1		
42	Compressed air through shaft clutch	NAC2.5	1		
43	Air disc brake	DBK-10	2		

### III, Spare parts for 135D Rebeaming machine

No.	Name	Modal Spec.	Qty	Brand/Origin	Remark
1	Relay	HH53P DC24V	2	Legong	
2	Approaching switch	J12-4DNK	2	Guansu-ShangHai	
3	Button	ZB2series	2	SCHNEIDER	
4	Foot switch	LT3	2		
5	2-position 5-way solenoid valve	PU520-02-S9	2	SHAKO-TaiWan	
6	2-position 5-way solenoid valve	PU520-03-S9	1	SHAKO-TaiWan	
7	Front brake cylinder	DW62	2	One for each side	Brake
8	Yarn guide needle		50		
9	Brake block		8		
10	Brake fluid		2		
11	Cylinder seal		1		