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Fine Wire Drawing Machine



I. Technical specification

ion 成马机械设备有限公司

1. Input wire: Φ0.8 - 1.2mm

2. Output wire: Φ0.08 - 0.35mm

3. Production speed: Max 2500m/min

4. Capstan Diameter: Φ 206mm

5. Number of dies: 24

6. Wire drawing lubrication: Spray type



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- 7. Outer diameter of dies: Φ25mm × 8 13mm (thickness)
- 8. Mechanical elongation: By the dies from the 1st to 23th,15%; By the 24th die, 8.7%.
- 9. Main motor power: 15kW-4P AC motor
- 10. Take-up motor power: 4kw-4P /5.5kw AC motor
- 11. Take-up control: Double frequency conversion automatic tension control
- 12. Take-up Capacity: 50kg, Max
- 13. Take-up reel: Φ<mark>300mm, Max</mark>

00mm, Max DONGGO

14. Brake: Electromagnetic brake

15. Supply voltage: 380V AC, 50Hz, 3-phase

16. Power consumption: 8– 18 kW

17. Machine dimensions: 2800L ×1500W ×1650H (mm)

18. Machine weight: 2200 kg

II. Machine construction

- 1: Pay-off stand
- 2: Drawing machine
- 3: Take-up
- 4: Electrical control part



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III. Electric control

- 1. Electric control components: Imported electric control components with high reliability to ensure steady operation of the machine.
- 2. Supply voltage: 400V AC, 50Hz, 3-phase
- 3. Tension control: A special-purpose tension control inverter is used to ensure steady tension so as to improve the surface quality of the wire.
- 4. Power control: Dual-inverter-drive is used to reduce mechanical energy loss so that energy-saving and reduced power consumption are achieved.
- 5. Automatic stop: This function includes automatic stop with full reel, automatic braking at wire breakage, braking at traverse overshoot and automatic braking at abnormal operation of the speed regulator, motor, etc.
- 6. Wire drawing: Slip type continuous wire drawing with four horizontal shafts.
- 7. Power control: The drawing motor has a capacity of 11kW AC and the take-up motor 4kW AC. A frequency conversion speed regulator with stepless speed regulation is used to control the power. The present line speed can be displayed automatically on the line meter.
- 8. Drive: Brushed part of the flat belt drive.

IV. Selection of parts and components

No	Name	Manufacturer	Place of origin	Remarks
1	Inverter	YASKAWA	Japan	
2	3-phase asynchronous motor	Siemens	China	

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3	Air switch	Fuji / Schneider	Japan / France
4	AC contactor	Schneider	France
5	Intermediate relay	Schneider	France
6	Low Voltage appliances	Schneider	France
7	Bearing	NSK OR SKF	Japan or Germany
8	Driving flat belt	Habasit	Switzerland
9	Guide Pulley	Chuangkang	Taiwan invested company
10	Electro Magnetic brake	Newly-DONG developed product VIRE	GUAN China //AC

V. Machine components and accessories

No.	Name 年完中 威马机械	Unit	Quantity	Remarks
1	Pay-off stand	set	1	
2	Drawing machine	set	1	
3	Tension unit	Set	1	
4	Take-up	Set	1	
5	Electric control cabinet	Set	2	
6	Accessories of the machine			
6.1	Unloading plate Wrench	Set	1	
6.2	Power supply cords	Set	1	
6.3	Anti-vibration rubber base	Set	5	



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VI. Yield table

Size/Speed	2400m/min	2200m/min	2000m/min	1800m/min	1500m/min
0.16mm	25kg/Hour	23.5			
		kg/Hour			
0.18mm		30kg/Hour	27 kg/Hour		
0.254mm			54kg/Hour	48 kg/Hour	

VII. Others

Coating: Paint-spraying according to the color required by the Buyer after anti-rust treatment or sky blue.

