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20 Dies Middle-Fine Wire Drawing Machine



I. Technical specification

(1) Input wire:

(2) Output wire:

(3) Production speed:

(4) Capstan Diameter:

(5) Number of dies:

(6) Wire drawing lubrication: (7) Outer diameter of dies:

(8) Mechanical elongation:

(9) Main motor power: (10) Take-up motor power:

(11) Take-up control:

(12) Take-up Capacity: (13) Take-up reel: (14) Brake:

(15) Supply voltage: (16) Power consumption:

(17) Machine dimensions:

(18) Machine weight:

Φ1.0 - 1.6mmACHINERY

 $\Phi 0.17 - 0.6$ mm

Max 1600m/min

Φ 200mm 20(Only)

80kg, max

8-18 kW

Lubrication by full immersion

Φ25mm ×8- 13mm (thickness)

By the dies from the 1st to 19th,17%By the 20th die, 10%

15kW-4P AC motor 4kw-4P /5.5kw AC motor

Automatic Modification and control of take-up tension

Ф300mm-400mm, max

Electromagnetic brake

380V-480V AC, 50/60Hz, 3-phase

2800L ×1500W ×1650H (mm)

2500 kg



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II. Machine construction

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

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 480V AC, 50/60Hz, 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. Power control: The drawing motor has a capacity of 15kW 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.
- Wire drawing: Slip type continuous wire drawing with four horizontal shafts.
- 7. Drive: Brushed part of the flat belt drive. Flat belt drive is employed in the annealing zone where power is transmitted from the wire drawing zone. flat belts and take-up shaft drive is employed in the take-up zone.
- 8. 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.

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 | Taiwan or France |
| 7 | Bearing | NSK OR SKF | Japan or Germany |
| 8 | Wire-speed table | Mitsu | Joint venture |
| 9 | Counter | Mitsu | Joint venture |
| 10 | Control panel | TendONGGU | Taiwan |
| 11 | Driving f <mark>lat</mark> belt | Habasit REMA | Switzerland |
| 12 | Drawing cone | MACHINE Chuangkang | Taiwan invested company |
| 13 | 东莞市威马机 Proximity transducer | 械设备有限 Autonics | Korea |
| 14 | Guide Pulley | Chuangkang | Taiwan invested company |
| 15 | Electro Magnetic brake | Newly-developed product | China |

V. Machine components and accessories

| No. | Name | Unit | Quantity | Remarks |
|-----|-----------------|------|----------|---------|
| 1 | Pay-off stand | set | 1 | |
| 2 | Drawing machine | set | 1 | |
| 3 | Tension unit | Set | 1 | |



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| 4 | Take-up | Set | 1 | |
|-----|---------------------------------------|-----|---|--|
| 5 | Electric control cabinet | Set | 2 | |
| 6 | Accessories supplied with the machine | | | |
| 6.1 | Unloading plate Wrench | Set | 1 | |
| 6.2 | Power supply cords | Set | 1 | |
| 6.3 | Anti-vibration rubber base | Set | 5 | |

Yield table:

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|------------|-------------|----------------------------|--|--------------|
| Size/Speed | 1600m/min | 1500m/min | 1200m/min | 1000m/min |
| 0.17mm | 19.2kg/Hour | | | |
| 0.2mm | 26.5kg/Hour | 25kg/Hour | | |
| 0.3mm | | 5 <mark>6</mark> .5kg/Hour | 45kg/Hour | |
| 0.4mm | | 14/15/5 | 80kg/Hour | 67kg/Hour |
| 0.5mm | | WIREI | 125kg/Hour | 104.8kg/Hour |
| 0.6mm | | MACH | INIERY | 150kg/Hour |
| | | | | |

VI. Others

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