

From
Wire to
Machinery
We Build Stronger
Networks!



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Wire Drawing Solutions



PRODUCT
CATALOG **2025-26**

From Idea to Reality

Trust CONiN Machines

for Seamless Solutions

Welcome to Conin Machines

At CONIN Machines, we provide state-of-the-art wire and cable manufacturing solutions. Headquartered in India, we are your trusted partner for end-to-end machinery, equipment, and project execution, ensuring seamless transitions from concept to completion.

Our focus is on delivering high-quality, cost-effective machines that enhance productivity, reduce energy consumption, and maintain competitive pricing without compromising quality.

India's wire and cable machinery market was valued at EUR 602 million (2022), with a projected 4.34% CAGR over the next five years.

Why choose Conin Machines?

- **State-of-the-Art Technology:** Latest innovations to deliver high-performance, reliable, and customized solutions.
- **Competitive Pricing:** Affordable yet world-class machinery to boost your ROI.
- **24/7 Support:** Round-the-clock service to minimize downtime and ensure smooth operations.

What we offer

We deliver more than machines—we provide complete production solutions across the wire and cable industry:

- Cable & Wire Extrusion Lines
- Copper Wire Drawing Lines
- Inline & Offline Annealing Machines
- Telecommunication Cable Twisting Machines
- Cable & Wire Laying Machines
- Copper Rod Continuous Casting Plants
- Moulding & Automation Equipment

Our advanced machines are designed to increase output, optimize efficiency, and lower energy costs.

India ranks second globally in production capacity for electric wires and cables, backed by significant export potential to markets like the US, China, and UAE.

The wires & cable sector makes up 40% of India's electrical industry, now accelerating with adoption of Industry 4.0 (IIoT-enabled smart manufacturing).

End-to-End Services

We support your entire project lifecycle:

- **Land Acquisition Assistance:** Guidance in selecting industrial sites.
- **Customized Machine Supply:** Designed for your exact needs.
- **Regulatory Approvals:** Navigating legal and compliance requirements.
- **Supply Chain Creation:** Securing reliable raw material flow.
- **Turnkey Project Execution:** From planning to commissioning, we handle it all.

Vision & Mission

- At CONIN Machines, our vision is to revolutionize wire and cable machinery through innovation, reliability, and efficiency.
- Our mission is to be the go-to global partner for businesses, enabling success with cutting-edge technology and complete lifecycle support.

The copper wires & cables segment alone was valued at USD 15.13 billion in 2024, expected to grow at 4.9% CAGR to USD 24.4 billion by 2033.

Company Profile

We are a leading manufacturer of wire and cable equipment, integrating:

- **R&D | Processing | Assembly | Commissioning | After-sales Service**

Our expertise includes deep processing and research of copper, copper-clad steel, and copper-clad aluminum wires. We specialize in manufacturing:

- High-Speed Micro & Fine Wire Drawing Machines
- Medium & Intermediate Wire Drawing Machines (with/without Online Annealer)
- RBD Wire Drawing Machines (with/without Online Annealer)
- Multi-Head Wire Drawing & Stranding Machines
- Annealing & Tinning Machines
- Copper Rod Casting Machines
- Copper-Clad Aluminum Production Equipment
- Wire Compaction & Take-up Solutions

We also customize non-standard special equipment to meet unique client requirements.

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Our Promise

Driven by our values "Honesty-based, Quality-based", we continue to innovate with professional expertise and global standards. With high-quality machinery, efficient solutions, staff training, installation, and after-sales service, we ensure complete customer satisfaction.

**Quality Creates the Future,
Integrity Wins the World.**



WIRE DRAWING MACHINES

**RBD PRODUCTION LINES | ANNEALERS | COILERS
INTERMEDIATE, MEDIUM, FINE, SUPER FINE WIRE DRAWINGS
WIRE DRAWING WITH ANNEALING | TINNING**

**COPPER | BRASS | HIGH CARBON / LOW CARBON STEEL
STAINLESS STEEL | ALUMINIUM**

WIRE & CABLE MACHINERY | WIRE DRAWING MACHINERY
MOULDING & AUTOMATION MACHINERY | WIRE & CABLE RAW MATERIAL

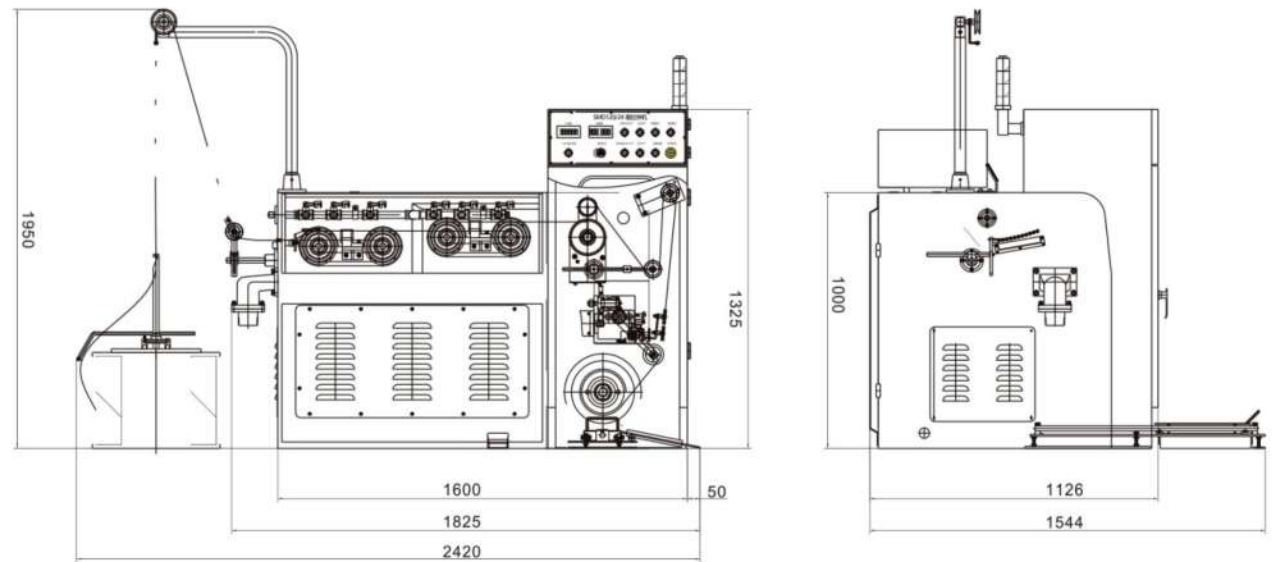
Micro Wire Drawing Machine

Technical Features

- 1. Dual frequency converter, automatic tension control
- 2. Zero sliding pulley design, high production efficiency and excellent surface quality of finished wire
- 3. Low energy consumption, 20%-25% less power than the traditional model, which can reduce the production cost
- 4. Imported components are widely used with high reliability

Application

CO-20DHA micro wire drawing machine is suitable for drawing Φ 0.05 - 0.12 mm copper wire, aluminium wire, copper clad aluminium wire (CCA) and copper clad steel wire (CCS wire) 24DHW micro wire drawing machine is suitable for drawing Φ 0.025 - 0.05 mm copper wire, copper alloy wire.



Technical Parameters

Model	CO-20DHA	CO-24DHW
Max. inlet diameter	Φ 0.15 ~ 0.40 mm	Φ 0.06 ~ 0.15 mm
Outlet diameter range	Φ 0.05 ~ 0.12 mm	Φ 0.025 ~ 0.05 mm
Max. drawing line speed	2000 m/min	1800 m/min
Capstan diameter	Φ 120 mm	Φ 100 mm
Number of dies	20	24
Mechanical elongation rate	12% + 6.5%	8% + 7%
Main motor + take-up power	5.5 kW + 4 kW	4 kW + 2.2 kW
Total configured power	6 kW	6 kW
Take-up spool size	Φ 230 × 160 × 125 × 250 mm	Φ 230 × 160 × 125 × 250 mm
Voltage	400 V	400 V
Frequency	50 Hz / 60 Hz	50 Hz / 60 Hz
Traverse method	Synchronous motor	Spool traverse
Lubrication type	Spray type	Spray type
Braking type	Electromagnetic brake	Electromagnetic brake
Machine dimensions (L×W×H)	L1825 × W1126 × H1950 mm	L1600 × W1350 × H1700 mm
Net weight	1600 kg	1500 kg

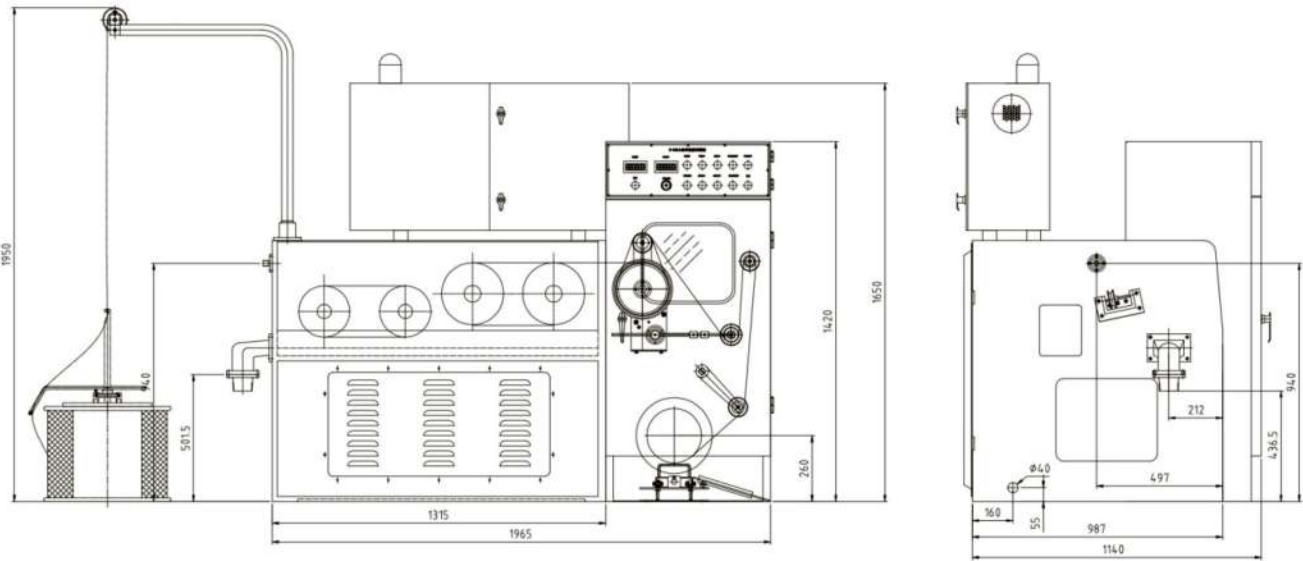
Fine Wire Drawing Machine

Technical Features

- 1. Integrated control system, double frequency conversion tension automatic control
- 2. Zero siding pulley design, high production efficiency and excellent surface quality of finished wire.
- 3. Low energy consumption 20%-25% less power than the traditional model, which can reduce the production cost
- 4. Imported components are widely used with high reliability

Application

CO-24DHA & CO-24OHB fine wine drawing machine is suitable for drawing Φ 0.08 - 0.32 mm copper wire, aluminium wire, copper clad aluminium win (CCA wire), and copper clad stool wire (CCS wire)



Technical Parameters

Model	CO-24DHA	CO-24DHB
Power control	Dual inverter	Dual inverter
Inlet wire diameter	Φ 0.6 – 1.2 mm	Φ 0.6 – 1.2 mm
Outlet wire diameter	Φ 0.08 – 0.32 mm	Φ 0.08 – 0.32 mm
Max. line speed of drawing	2500 m/min	2500 m/min
Number of drawing die	24	24
Mechanical elongation rate	15% + 8.7%	13% + 8.7%
Construction of machine body	Monoblock casting	
Capstan	High quality imported ceramic	
Capstan diameter (Max)	Φ 206.85 mm	
Take-up spool size	Φ 300 × 215 × 270 / Φ 300 × 215 × 290 mm	
Traverse method	Flat belt	
Main motor + take-up power	AC 11 KW + 5.5 KW	
Driving mode	Imported advanced flat belt drive	
Control mode	PID Dual inverter automatic control	
Max copper load	50 kg / 80 kg	
Lubrication type	Spray type	
Brake	Electromagnetic brake	
Configured power	10 KW	
Power supply	400V, 50/60 Hz	
Machine dimension	L1975 × W1133 × H1725 mm	
Machine weight	2200 kg	

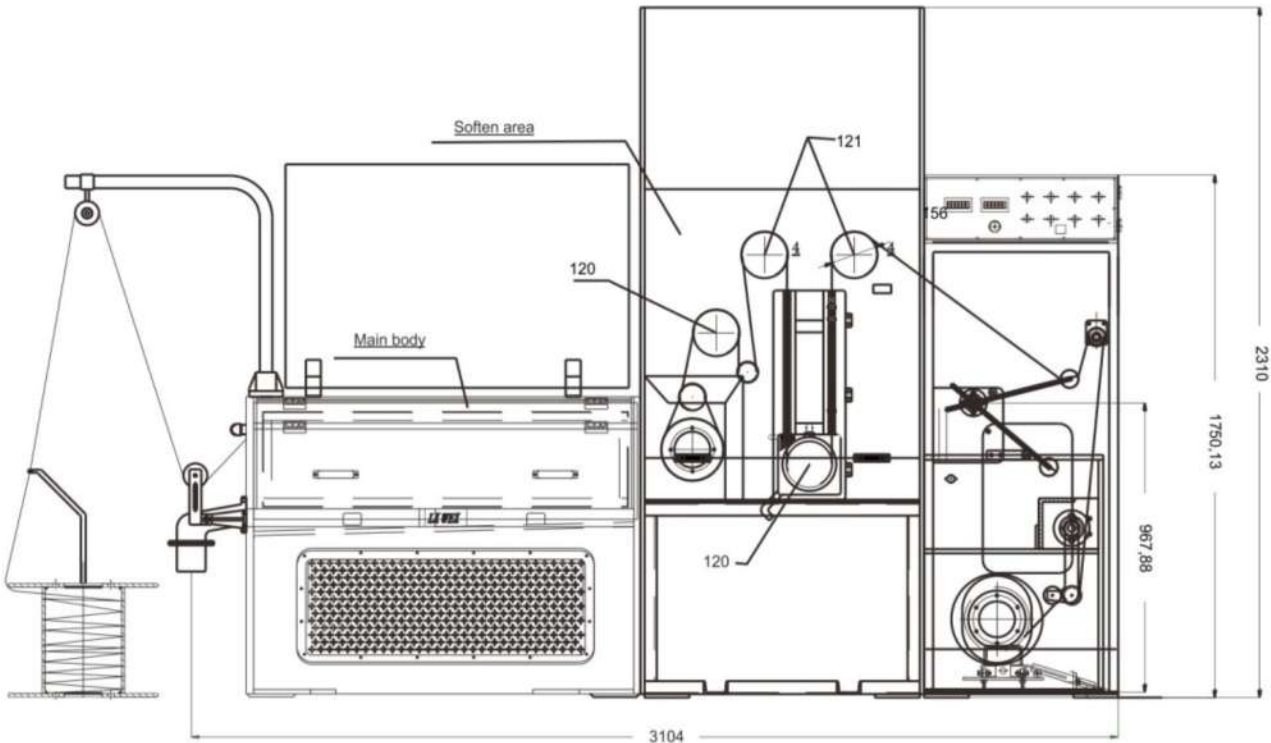
Fine Wire Drawing Machine with Online Annealer

Technical Features

- 1. Double frequency conversion tension control
- 2. 590 DC speed controller/switching power supply integrated module is adopted to control annealing.
- 3. The equipment adopts 3-stage DC independent annealing
- 4. The control part adopts PLC and man-machine control.
- 5. The annealing part is designed as an independent power transmission

Application

CO-24DHAT fine wire drawing machine with continuous annealing is suitable for drawing and annealing $\Phi 0.08 - 0.32$ mm copper wire, copper alloy wire



Technical Parameters

Model	CO-24DHAT
Inlet wire diameter	$\Phi 0.6 - 1.2$ mm
Outlet wire diameter	$\Phi 0.08 - 0.32$ mm
Max. line speed of drawing	2000 m/min
Mechanical elongation rate	15% + 8.7%
Annealing power	15 KVA
Annealing current	200 A
Take-up motor power	5.5 KW / 3.7 KW
Main power	15 KW
Applicable spool size	300 mm
Electric control mode	PID Dual inverter automatic control
Take-up capacity	50 kg
Brake	Electromagnetic brake
Configured power	25 KW
Power supply	400V, 50/60 Hz
Machine dimension	L3104 $\times$ W1538 $\times$ H2310 mm
Machine weight	3000 kg

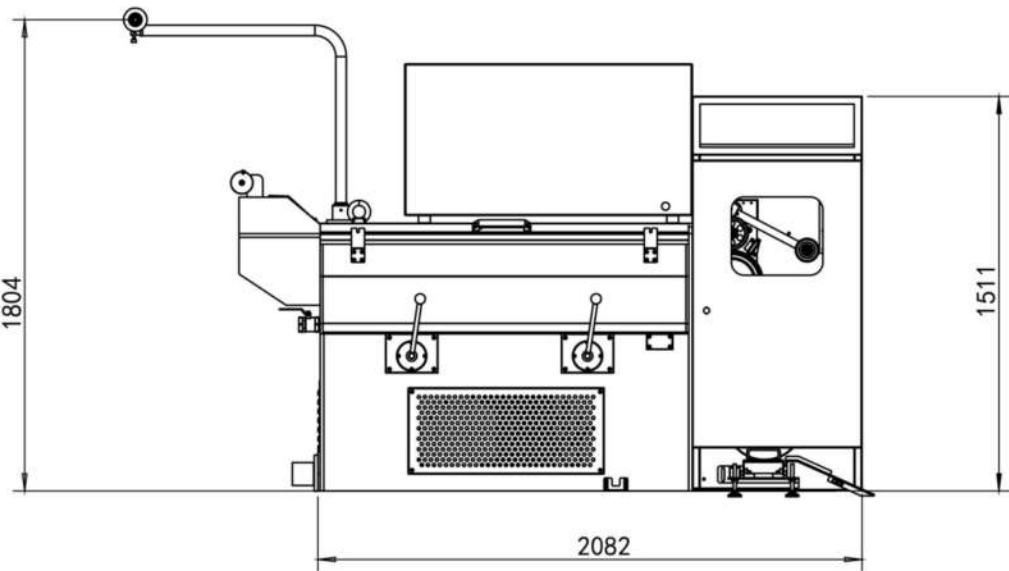
Medium Fine Wire Drawing Machine

Technical Features

- 1. Integrated control system, double frequency conversion tension automatic control.
- 2. Zero guiding pulley design, high production efficiency and excellent surface quality of finished wire
- 3. Low energy consumption, 20%-25% less power than the traditional model, which can reduce the production cost
- 4. Imported components are widely used, with high reliability.

Application

160H, 200H and 220H medium fine wire drawing machines are suitable for drawing respectively Φ 0.2 - 0.6 mm Φ 0.17 - 0.6 mm and Φ 0.15 - 0.6 mm copper wire, aluminium wire, copper clad aluminium wire (CCA wee), and copper clad steel wine (CCS wine)



Technical Parameters

Model	CO-16DH	CO-20DH	CO-22DH
Power Control	Dual inverter		
Inlet Wire Diameter	Φ 0.1 – 1.6 mm	Φ 0.1 – 1.6 mm	Φ 0.8 – 1.6 mm
Outlet Wire Diameter	Φ 0.2 – 0.6 mm	Φ 0.17 – 0.6 mm	Φ 0.15 – 0.6 mm
Max. Drawing Line Speed	1600 m/min	1600 m/min	1800 m/min
Number of Drawing Dies	16	20	20
Mechanical Elongation Rate	17.5% + 10%	17.5% + 10%	17% + 10%
Machine Body Construction	A3 steel plate welding		Monoblock casting
Capstan	Imported ceramic capstan		
Max. Capstan Diameter	Φ 220 mm	Φ 200 mm	Φ 200 mm
Take-up Spool Size	Φ 300 / 400 mm	Φ 300 / 400 mm	Φ 300 / 400 mm
Traverse Method	Synchronous motor + flat belt		
Main Motor + Take-up Power	AC 18.5 + 5.5 kW	AC 18.5 + 5.5 kW	AC 18.5 + 5.5 kW
Driving Mode	Imported advanced flat belt drive		
Control Mode	PID dual inverter automatic control		
Tension Control	Counterweight tension pulley		
Max. Copper Load	50 / 80 kg	50 / 80 kg	50 / 80 kg
Water Consumption	40 L/min	40 L/min	40 L/min
Lubrication Type	Lubrication by full immersion		Spray type
Brake	Electromagnetic brake		
Configured power	22 KW		
Power Supply	400 V, 50/60 Hz		
Machine Dimensions (L×W×H)	L2384 × W1188 × H1804 mm		
Machine Weight	2250 kg	2400 kg	2250 kg

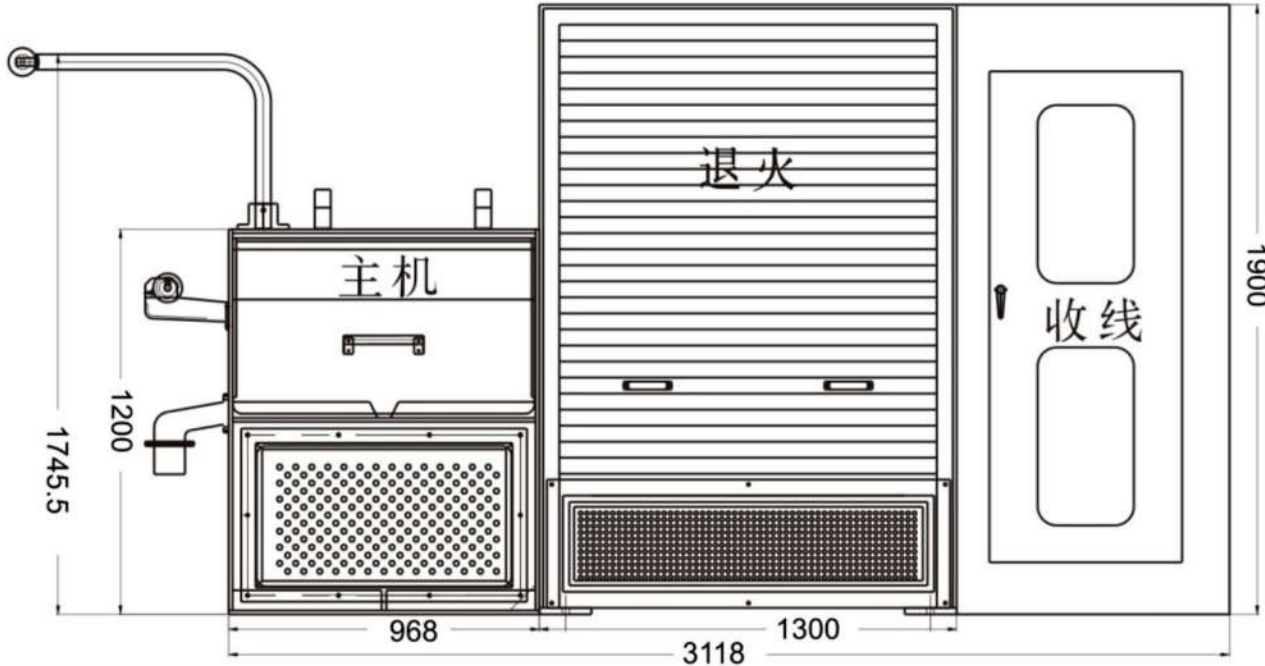
Medium Fine Wire Drawing Machine with Online Annealer

Technical Features

- 1. Double frequency conversion, tension control
- 2. 591 DC speed controller / DC power module is adopted to control annealing.
- 3. The equipment adopts 3-stage DC independent annealing.
- 4. The control part adopts PLC and man-machine control

Application

CO-18DHT, CO-200HT and CO-22DHT medium fine wine drawing machines with online annealer are applicable to drawing and annexing respectively $\Phi 0.2 - 0.6$ mm $\Phi 0.17 - 0.6$ mm, $\Phi 0.15 - 0.6$ mm copper wire, copper alloy wire.



Technical Parameters

Model	CO-16DHT	CO-20DHT	CO-22DHT
Inlet Wire Diameter	$\Phi 1.0 - 1.6$ mm	$\Phi 0.8 - 1.6$ mm	$\Phi 1.0 - 1.6$ mm
Outlet Wire Diameter	$\Phi 0.2 - 0.6$ mm	$\Phi 0.17 - 0.7$ mm	$\Phi 0.16 - 0.6$ mm
Max. Drawing Line Speed	1500 m/min	1500 m/min	1500 m/min
Mechanical Elongation Rate	17.5% + 10%	17% + 10%	17% + 10%
Main Motor	18.5 kW	18.5 kW	18.5 kW
Annealing Power	40 kVA	40 kVA	40 kVA
Annealing Current	500 A	500 A	500 A
Take-up Motor Power	3.7 / 5.5 kW	3.7 / 5.5 kW	3.7 / 5.5 kW
Annealing Method	DC Three-Section Annealing		
Applicable Spool Size	300 / 400 mm		
Max. Take-up Capacity	50 / 80 kg		
Brake	Electromagnetic Brake		
Configured Power	50 kW		
Power Supply	400 V, 50/60 Hz		
Machine Dimensions (L×W×H)	L3500 × W1505 × H1900 mm		
Machine Weight	3000 kg	3200 kg	3000 kg

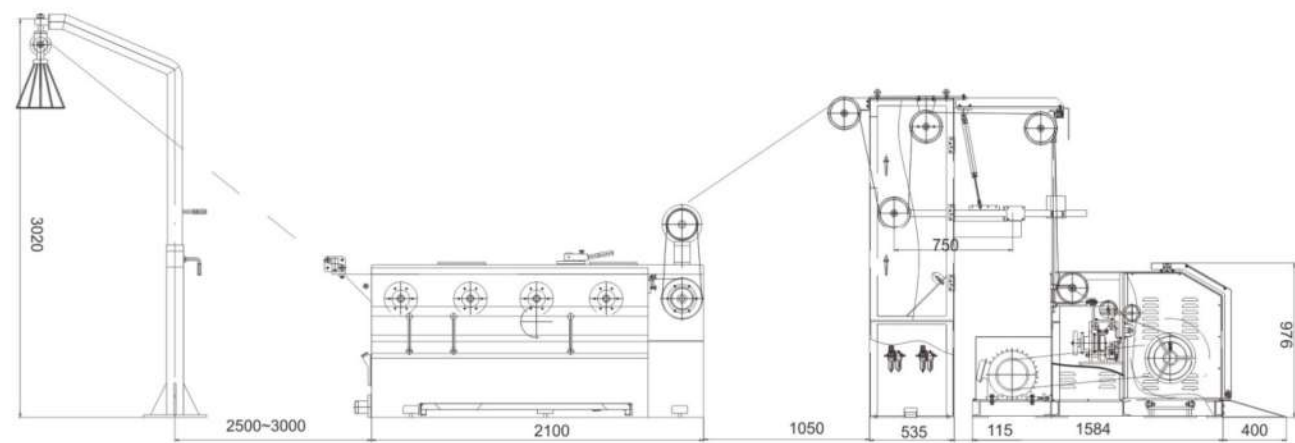
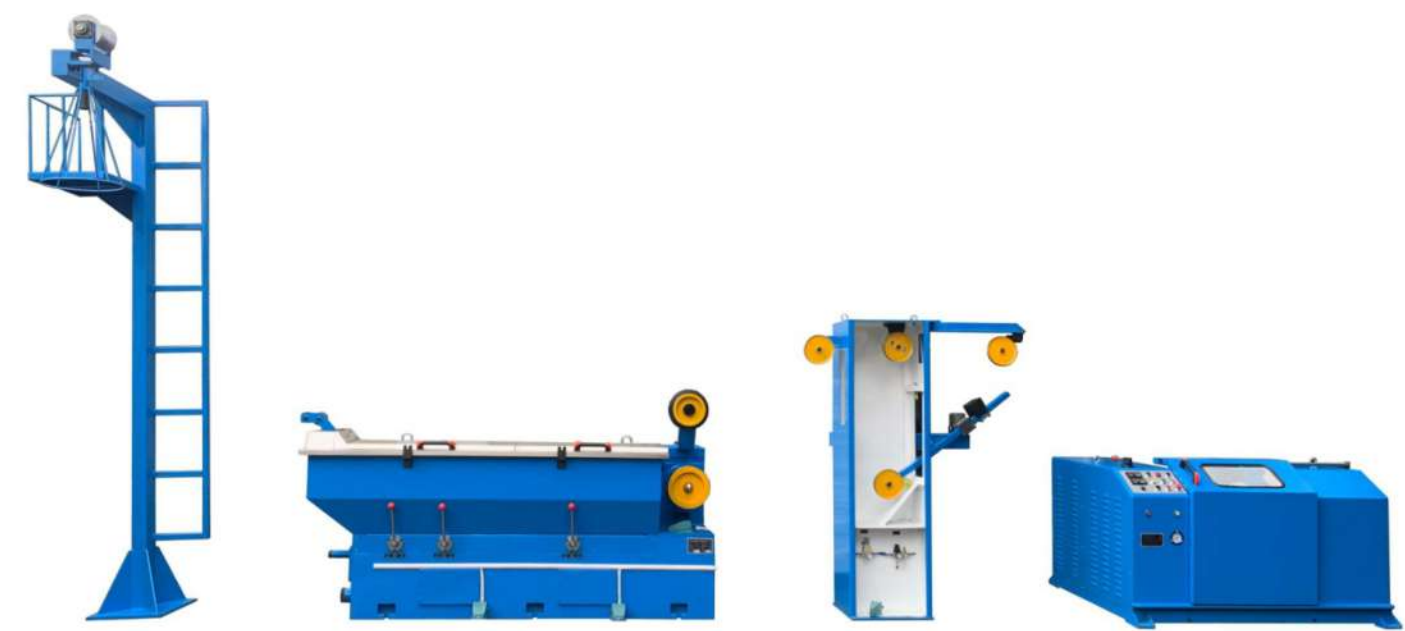
Intermediate Wire Drawing Machine

Technical Features

- 1. Integrated control system, double frequency conversion tension automatic control
- 2. High production efficiency and low energy consumption
- 3. High precision gear transmission, low noise.
- 4. Imported components are widely used with high reliability.
- 5. Cable arrangement mode is servo cable arrangement

Application

CO-ZL250/21 intermediate wire drawing machine is suitable for drawing $\Phi 0.4 - 1.2$ mm copper wire, aluminium wire. copper clad aluminium wire (CCA wire), and copper clad steel wire (CCS wire)



Technical Parameters

Model	CO-ZL250/21
Power Control	Dual inverter
Inlet Wire Diameter	$\Phi 2.6 - 3.0$ mm
Outlet Wire Diameter	$\Phi 0.4 - 1.2$ mm
Max. Drawing Line Speed	1800 m/min
Number of Drawing Dies	21
Mechanical Elongation Rate	$18.4\% \pm 15\%$
Machine Body Construction	Casting + steel plate welding and annealing
Capstan	Ceramic cone pulley
Max. Capstan Diameter	$\Phi 250$ mm
Take-up Spool Size	$\Phi 400 / 500 / 630$ mm
Compressed Air Consumption	$20 - 30 \text{ m}^3/\text{h}$, $0.4 - 0.6 \text{ MPa}$
Main Motor + Take-up Power	AC 55 + 11 kW
Driving Mode	Gear drive
Electric Control Mode	Dual frequency conversion with automatic tension control
Tension Control	Pneumatic tension
Take-up Mode	Single/double spool take-up
Max. Copper Load	500 kg
Oil Volume	40 L/min
Lubrication Type	Lubrication by Full immersion
Brake	Disc type brake
Configured Power	60 kW
Power Supply	400 V, 50/60 Hz
Machine Dimensions (L×W×H)	$L7983 \times W2382 \times 3H918$ mm
Machine Weight	5000 kg

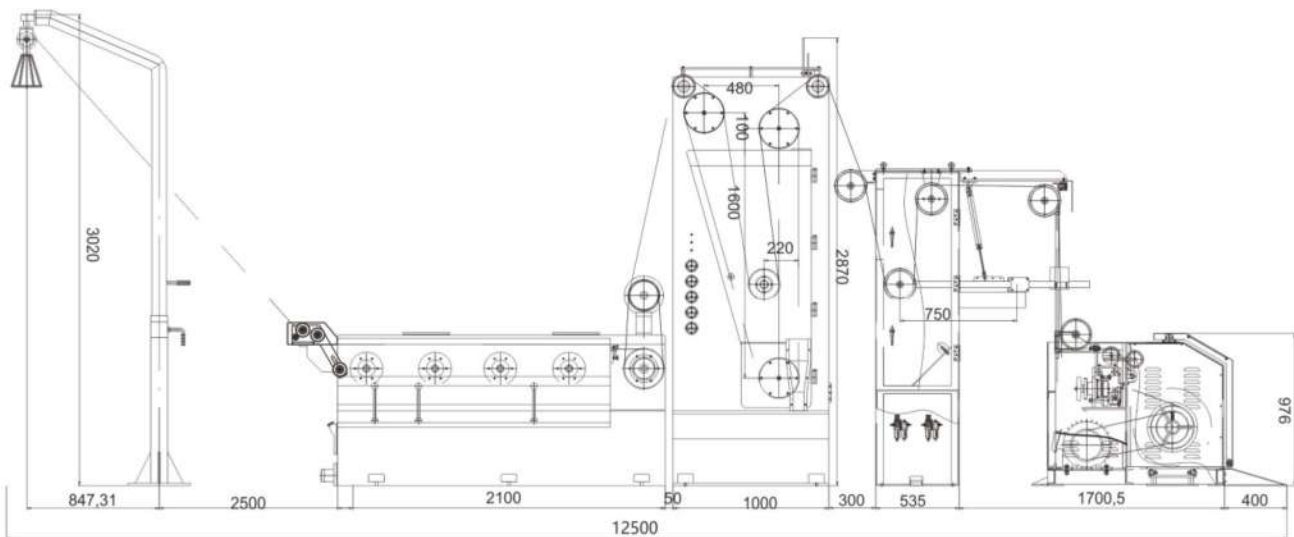
Intermediate Wire Drawing Machine with Online Annealer

Technical Features

- 1. Integrated control system, double frequency conversion tension automatic control.
- 2. 391 DC speed controller/DC power module as adopted to control annealing.
- 3. The equipment adopts 3-stage DC independent annealing.
- 4. The control part adopts PLC and man-machine control.

Application

CO-ZLT250/21 Intermediate wire drawing machine with online annealer is suitable for drawing $\Phi 0.4 - 1.2$ mm copper wire aluminium wire, copper clad aluminium wire (CCA wire) copper clad steel wire (CCS wire) and copper clad copper wire. Copper wine and copper-clad copper wire can be annealed online. Please turn off annealing when producing aluminium wit and copper clad steel wire



Technical Parameters

Model	CO-ZLT250/21
Power Control	Dual inverter
Inlet Wire Diameter	$\Phi 2.6 - 3.0$ mm
Outlet Wire Diameter	$\Phi 0.4 - 1.2$ mm
Max. Drawing Line Speed	1800 m/min
Number of Drawing Dies	21
Mechanical Elongation Rate	$18.4\% \pm 15\%$
Machine Body Construction	Casting + steel plate welding and annealing
Capstan	Ceramic cone pulley
Max. Capstan Diameter	$\Phi 250$ mm
Take-up Spool Size	$\Phi 400 / 500 / 630$ mm
Compressed Air Consumption	$5 - 8$ m ³ /h, $0.4 - 0.6$ MPa
Main Motor + Take-up Power	AC $55 + 11$ kW
Driving Mode	Gear drive
Electric Control Mode	Dual frequency conversion with automatic tension control
Tension Control	Pneumatic tension
Take-up Mode	Single/double spool take-up
Max. Copper Load	200 kg (500 kg)
Annealing Current	1000 A
Oil Volume	40 L/min
Lubrication Type	Full immersion
Brake	Disc type brake
Configured Power	120 kW
Power Supply	400 V, 50/60 Hz
Machine Dimensions (L×W×H)	L12500 × W2650 × H3918 mm
Machine Weight	7500 kg

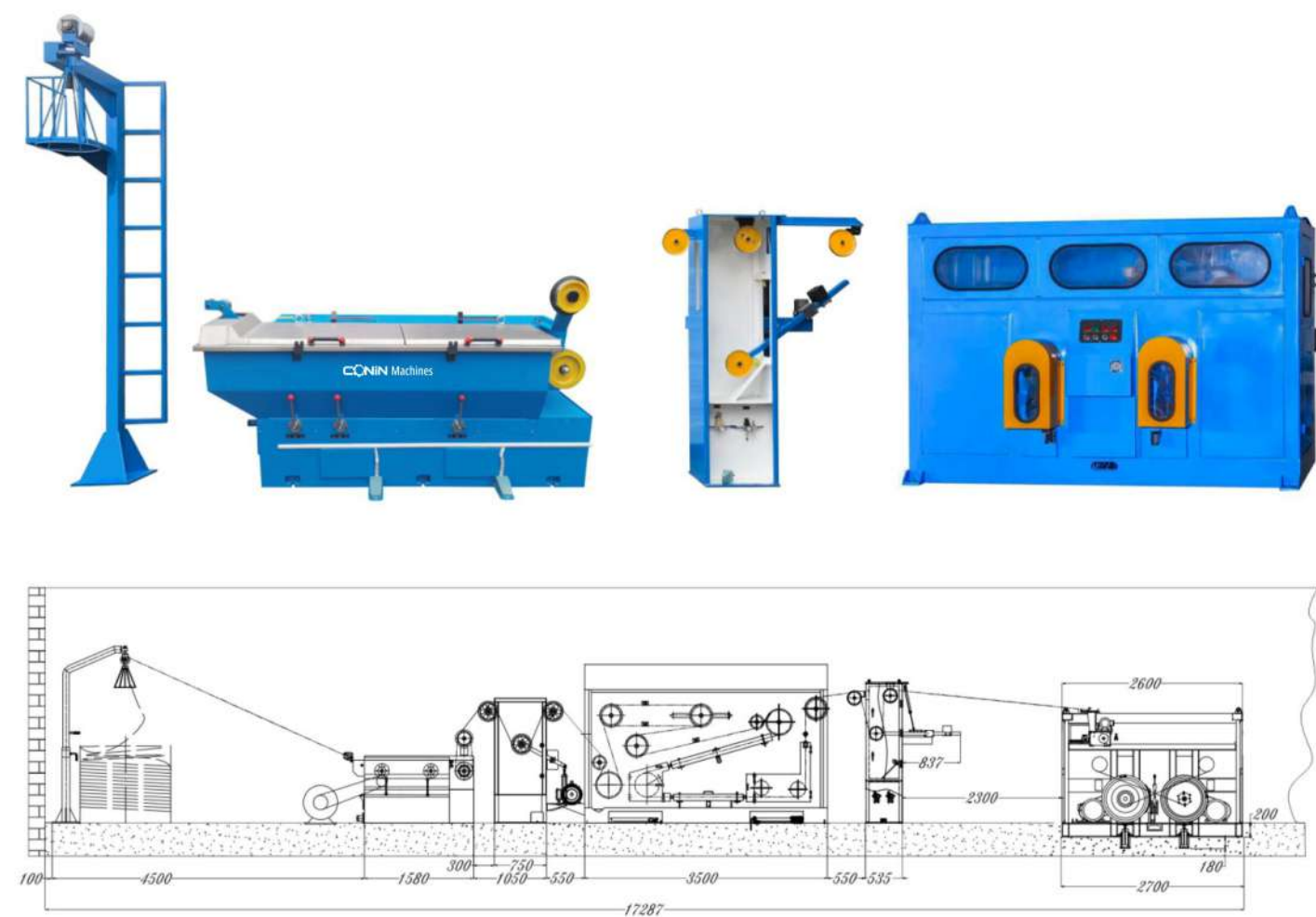
Intermediate RBD Wire Drawing Machine

Technical Features

- 1. Integrated control system, double frequency conversion tension automatic control.
- 2. 591 DC governor is adopted, control annealing.
- 3. The equipment adopts 3-stage DC independent annealing.
- 4. The control part adopts PLC and man-machine control.

Application

CO-ZL350/9 and CO-ZL280/13 Intermediate RBD wire drawing machines are applicable to drawing respectively $\Phi 1.0\text{--}2.76\text{ mm}$ and $\Phi 08\text{--}1.8\text{ mm}$ copper wire, aluminium wire, copper clad aluminium wire (CCA wire), and copper clad steel wire (CCS wire).



Technical Parameters

Model	CO-ZL350/9	CO-ZDL280/13
Power Control	Variable frequency speed control	Variable frequency speed control
Inlet Wire Diameter	$\Phi 2.6 - 3.5\text{ mm}$	$\Phi 2.6 - 3.5\text{ mm}$
Outlet Wire Diameter	$\Phi 1.0 - 2.76\text{ mm}$	$\Phi 0.8 - 1.8\text{ mm}$
Max. Drawing Line Speed	1200 m/min	1500 m/min
Number of Drawing Dies	9	13
Mechanical Elongation Rate	$25\% \pm 17\%$	$18.5\% \pm 15\%$
Machine Body Construction	Monoblock casting	Monoblock casting
Capstan	Ceramic cone pulley	Ceramic cone pulley
Max. Capstan Diameter	$\Phi 350\text{ mm}$	$\Phi 280\text{ mm}$
Take-up Spool Size	$\Phi 400 / 500 / 630\text{ mm}$	
Compressed Air Consumption	$5 - 8\text{ m}^3/\text{h}$, $0.4 - 0.6\text{ MPa}$	
Main Motor + Take-up Power	AC $55 + 11\text{ kW}$	
Driving Mode	Gear drive	
Electric Control Mode	PID automatic control	
Tension Control	Pneumatic tension	
Take-up Mode	Single/double spool take-up	
Max. Copper Load	500 kg	
Lubricant Volume	40 L/min	
Lubrication Type	Lubrication by Full immersion	
Brake	Disc type brake	
Configured Power	65 kW	
Power Supply	400 V, 50/60 Hz	
Machine Dimensions (L×W×H)	$L8000 \times W3000 \times H3500\text{ mm}$	
Machine Weight	5000 kg	

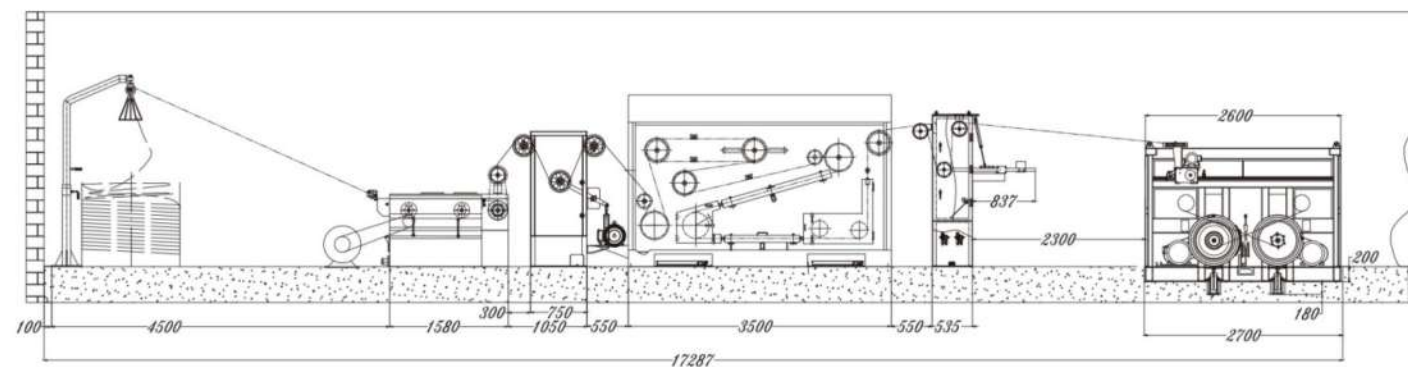
Intermediate RBD Wire Drawing Machine with Online Annealer

Technical Features

- 1. The whole machine adopts double frequency conversion control and automatic tension connection.
- 2. High precision grinding gear transmission.
- 3. The surface of the wire drawing puffy is sprayed with high wear-waistband tungsten carbide.
- 4. The extension part adopts full immersion lubrication and is isolated from the gearbox part.
- 5. It can cooperate with a continuous annealing machine, shaftless take-up, shafted take-up and vertical drop coiler.

Application

CO-ZLT350/9 and CO-ZLT280/13 Intermediate RBD wire drawing machines with online annealer are applicable to drawing respectively $\Phi 1.0\text{--}2.76$ mm and $\Phi 0.8\text{--}1.8$ mm copper wire, aluminium wire, copper clad aluminium wire (CCA wire) Copper wire can be annealed online.



Technical Parameters

Model	CO-ZDLT350/9	CO-ZDLT280/13
Power Control	Dual inverter	
Inlet Wire Diameter	$\Phi 2.6 - 3.5$ mm	$\Phi 2.6 - 3.5$ mm
Outlet Wire Diameter	$\Phi 1.0 - 2.76$ mm	$\Phi 0.8 - 1.8$ mm
Max. Drawing Line Speed	1200 m/min	1500 m/min
Number of Drawing Dies	9	13
Mechanical Elongation Rate	$25\% \pm 17\%$	$18.5\% \pm 15\%$
Machine Body Construction	Monoblock casting	
Capstan	Ceramic cone pulley	
Max. Capstan Diameter	$\Phi 350$ mm	$\Phi 280$ mm
Take-up Spool Size	$\Phi 500 / 630$ mm	
Compressed Air Consumption	5 – 8 m ³ /h, 0.4 – 0.6 MPa	
Main Motor + Take-up Power	AC 55 + 11 kW	
Driving Mode	Gear drive	
Electric Control Mode	PID automatic tension	
Tension Control	Pneumatic tension	
Take-up Mode	Single/double spool take-up	
Max. Copper Load	500 kg	
Power Supply	400 V, 50 / 60 Hz	
Lubricant of Volume	40 L/min	
Lubrication mode	Lubrication by Full immersion	
Brake	220 kW	160 kW
Configured Power		
Power Supply	400 V, 50 / 60 Hz	
Machine Dimensions (L×W×H)	L17287 x W3000 x H3500 mm	
Machine Weight	8500 kg	

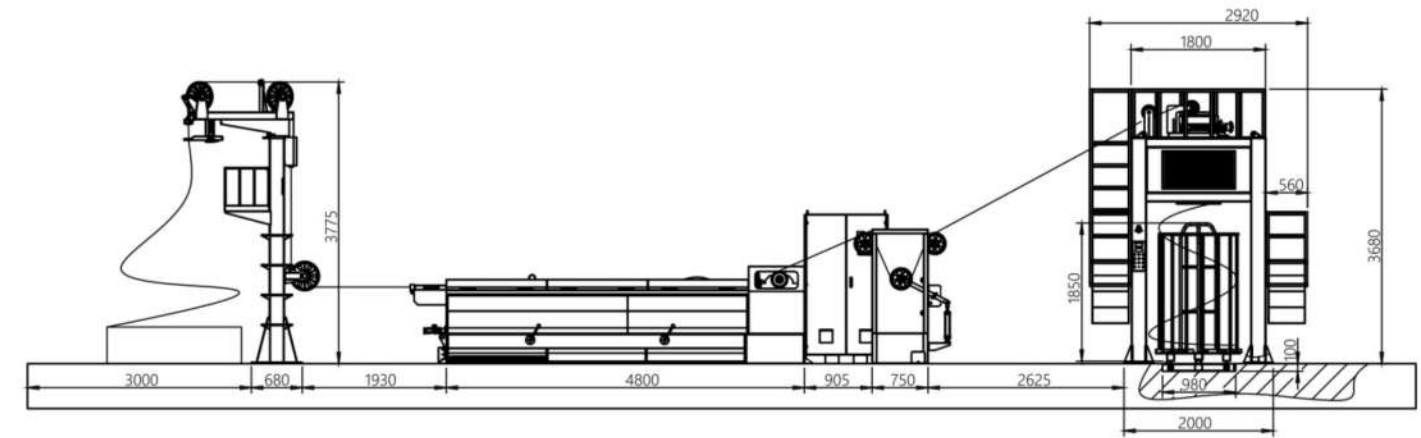
RBD Wire Drawing Machine

Technical Features

- 1. The wire drawing pulleys are arranged horizontally and immersed in wire drawing oil-easy to operate.
- 2. Tungsten carbide welded on the surface of steel ring durable.
- 3. Advanced CNC system-high efficiency.
- 4. Gear transmission -low noise and good stability.
- 5. The equipment adopts modular design and remote I/O communication connection.

Application

8D, 9D, 11D, 13D Rod breakdown machines are applicable to drawing respectively $\Phi 2.6\text{--}\Phi 3.0\text{mm}$, $\Phi 2.52\text{--}\Phi 3.0\text{mm}$, $\Phi 1.6\text{--}\Phi 3.5\text{mm}$, $\Phi 1.3\text{--}\Phi 3.5\text{mm}$ copper wire, aluminium wire, copper clad aluminium wire (CCA wire), and copper clad steel wire (CCS wire).



Technical Parameters

Model	CO-DL400/8	CO-DL400/9	CO-DL400/11	CO-DL450/13
Inlet Wire Diameter	Φ 8.0 mm	Φ 8.0 mm	Φ 8.0 mm	Φ 8.0 mm
Outlet Wire Diameter	Φ 2.6 – 3.0 mm	Φ 2.25 – 3.0 mm	Φ 1.6 – 3.5 mm	Φ 1.6 – 3.5 mm
Number of Drawing Dies	8	9	11	13
Line Speed	600 m/min	600 m/min	1200 m/min	1200 m/min
Drawing Block Size	Φ 400 mm	Φ 400 mm	Φ 400 mm	Φ 450 mm
Main Motor Power	132 kW (AC)	132 kW (AC)	132 kW + 45 kW	160 kW + 45 kW
Gear & Bearing Lubrication	Forced oil supply by pump			
Elongation Rate	32% ± 13%	1st–8th dies, 31.7%; 9th dies, 13–30%.	1st–10th dies, 31.7%; 11th dies, 13–30%.	1st–12th dies, 20%–40%; 13th dies, 13–30%.
Drawing Die Dimension	Φ 55 × 35 mm	Φ 55 × 35 mm	Φ 55 × 35 mm	Φ 55 × 35 mm
Take-up Spool Size	Φ 680 / 800 mm	Φ 680 / 800 mm	Φ 680 / 800 mm	Φ 680 / 800 mm
Take-up Speed	Single/double spool take up/drop coiler			
Total Equipment Power	145 kW	145 kW	180 kW	220 kW
Die Change Mode	Quick die change		Quick die change	
Brake	Disc brake type			
Configured Power	130 kW		160 kW	200 kW
Power Supply	400 V, 50/60 Hz			
Machine Dimensions (L×W×H)	L13690 x W4386 x H3680 mm	L12000 x W4500 x H4000 mm	L16000 x W5000 x H4000 mm	L27000 x W7000 x H4500 mm
Machine Weight	10,000 kg	10,000 kg	11,000 kg	12,000 kg

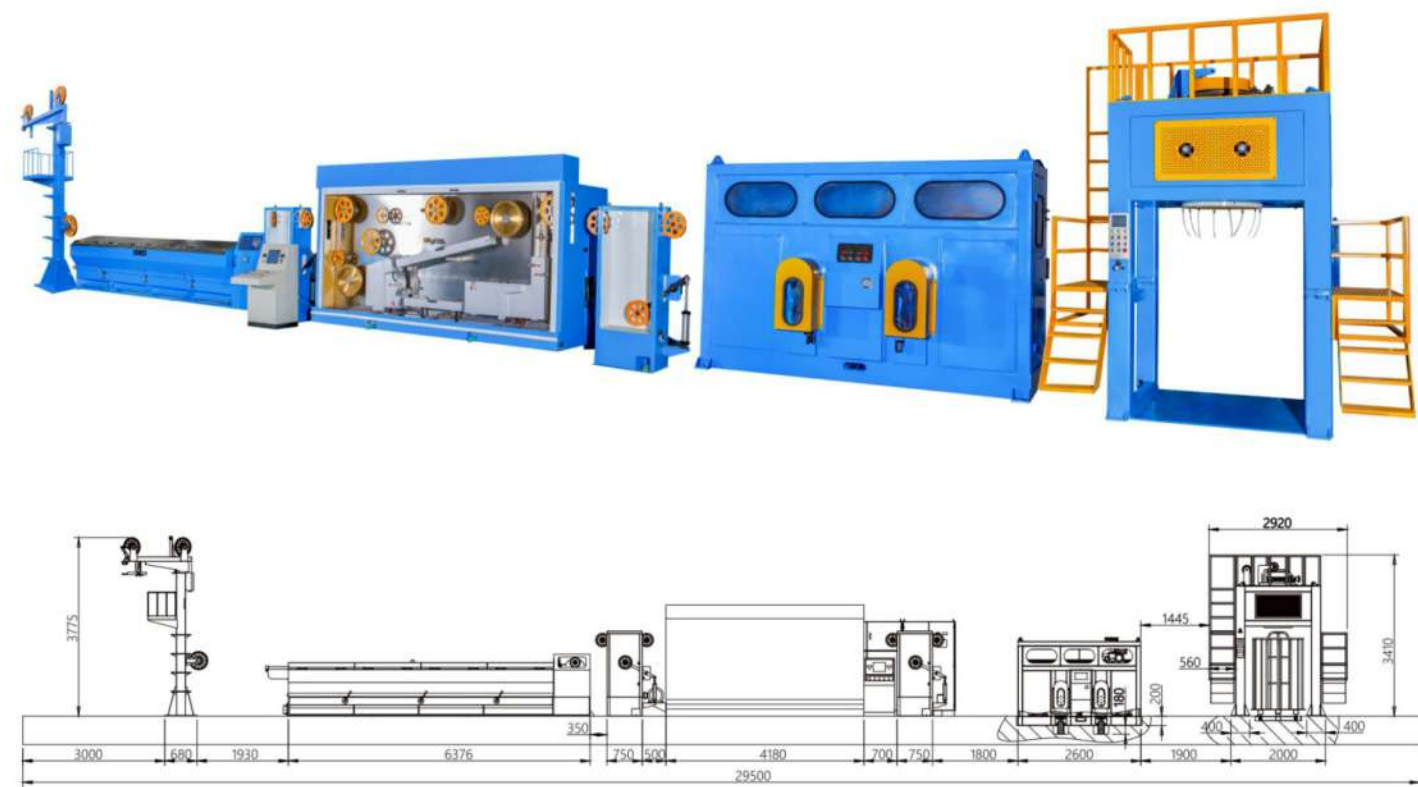
RBD Wire Drawing Machine with Online Annealer

Technical Features

- 1. The wire drawing pulleys are arranged horizontally and immersed in wire drawing oil-easy to operate.
- 2. Tungsten carbide welded on the surface of steel ring durable.
- 3. Advanced CNC system-high efficiency.
- 4. Gear transmission-low noise and good stability.
- 5. The equipment adopts modular design and remote I/O communication connection.

Application

8D, 9D, 11D, 13D Rod breakdown machines with online annealer are applicable to drawing respectively $\Phi 2.6-3.0\text{mm}$, $\Phi 2.52-3.0\text{mm}$, $\Phi 1.6-3.5\text{mm}$, $\Phi 1.3-3.5\text{mm}$ copper wire, aluminium wire, copper clad aluminium wire (CCA wire), and copper clad steel wire (CCS wire).Copper wire can be annealed online.



Technical Parameters

Model	CO-DLT400/8D	CO-DLT400/9D	CO-DLT400/11D	CO-DLT450/13D
Inlet wire diameter	Ø8.0mm	Ø8.0 mm	Ø8.0 mm	Ø8.0 mm
Outlet wire diameter	Ø 2.6 – 3.0 mm	Ø 2.25 – 3.0 mm	Ø 1.6 – 3.0 mm	Ø 1.3 – 3.5 mm
Number of drawing die	8	9	11	13
Line speed	600 m/min	600 m/min	1200 m/min	1200 m/min
Main motor power	132 KW	132KW	132+45 KW	280 KW
Capstan motor power	/	/	45KW	55KW
Gear & bearing lubrication	Forced oil supply by oil pump			
Drawing die dimensions	Φ 55 x 35			
Annealing wheel diameter	Φ 450 mm	Φ 450 mm	Φ 450 mm	Φ 450 mm
Annealing wheel number	4 Pcs	4 Pcs	4 Pcs	4 Pcs
Max Annealing wheel current	4000 A	4000 A	5000 A	5000 A
Max annealing voltage	Max 65 V DC	Max 65 V DC	65 V	65 V
Annealing transformer capacity	350 KVA	350 KVA	400 KVA	400 KVA
Total installed power	500 KVA	500 KVA	650 KVA	780 KVA
Die change mode	Quick die change			
Brake	Pneumatic disc type			
Configured power	260 KW		320 KW	360 KW
Power supply	400V, 50/60 Hz			
Machine dimension (L×W×H)	25000×4922×3775mm		29500×4922×3755mm	32500×7000×4500mm
Machine weight	12000 kg	13000 kg	21000 kg	23000 kg

Tube Type Annealing / Tinning Machine

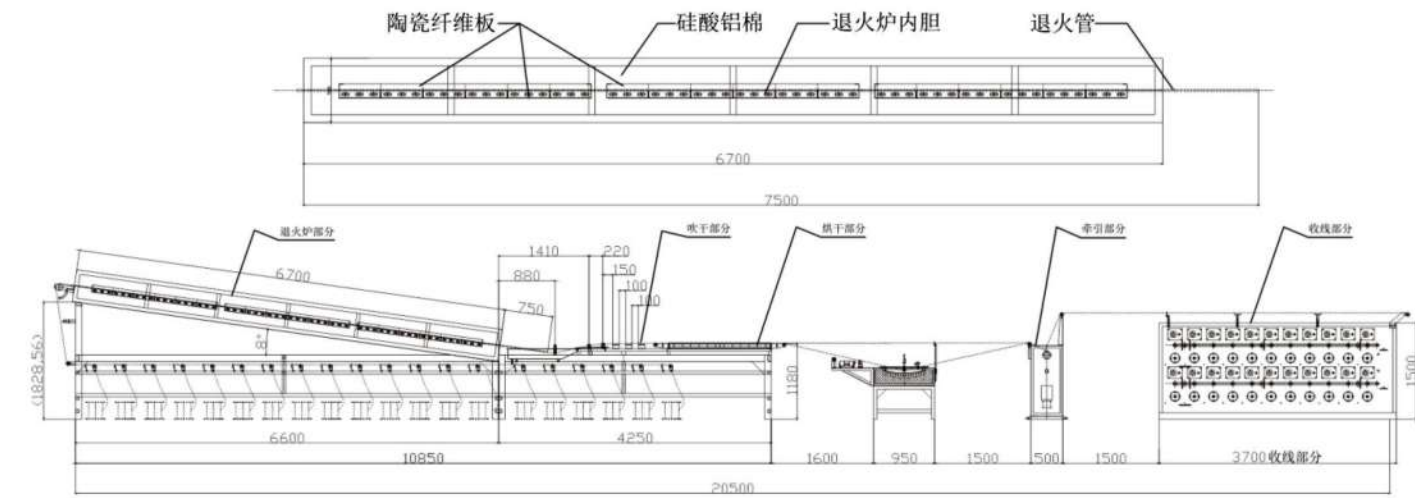
Technical Features

- 1. The length of furnace body and the number of production wire heads can be designed according to requirements.
- 2. The take-up adopts single-side cable arrangement design, which can use two different sizes of cable spools at the same time.

Application

The equipment is used for heat treatment (annealing) of hard copper wire, and tin can be plated on the surface of copper wire while annealing.

(Special note: the method of tin plating is hot dip tin plating, that is, tin is heated, melted and plated on the surface of copper wire.)



Technical Parameters

Model	CO-WM-40		
Application	Used for softening and tinning round copper wire		
Production Heads	24, 40, or 60 heads		
Annealing Furnace	5m	7m	9m
Wire Diameter	Φ 0.05 – 0.15 mm	Φ 0.1 – 0.35 mm	Φ 0.14 – 0.6 mm
Pay-Off Mode	Curl flyer or constant tension pay off		
Max. Line Speed	300 m/min		
Tinning Method	Single/double furnace hot plating (horizontal plating) with mold scraping tin		
Pay-Off Spool Size	Φ 300 mm		
Take-Up Mode	Single spool torque take-up		
Softening Method	Continuous annealing by electric heating with water seal protection		
Take-Up Spool Size	PT10 – PT25		
Tin Furnace Power	15 KW		
Total Power	50 KW		
Power Supply	400 V, 50/60 Hz		
Machine Dimensions	L20500 × W1540 × H2378 mm		
Machine Weight	4500 kg		

Doubling Take Up

Technical Features

The equipment is used in conjunction with tube annealing. The annealed round copper wire can be combined into one strand and then rolled onto a large capacity reel with the equipment. The traditional way is that each copper wire corresponds to a plastic reel for wire take-up. A 40 head / 60 head annealing machine requires 40/60 take-up motors for wire take-up, and the take-up weight of each coil is up to 15kg. Using the doubling take up machine, more than 7 copper wires can be rolled onto a reel at the same time. A maximum of 40 copper wires can be collected at the same time, and the take-up reel can use a large capacity reel (630mm), and it can hold 450kg at most. The equipment can greatly improve the production efficiency, reduce the labour intensity of operation and reduce labour cost



Technical Parameters

Model	Doubling Take-Up
Max. Number of Take-Ups	7-40 pcs
Take-Up Diameter	Φ 0.12-0.6 mm
Max. Take-Up Speed	550 RPM
Take-Up Mode	Constant tension, torque mode take-up
Control Mode	Touch screen + PLC fully automatic closed-loop control
Take-Up Spool Size	Φ 500 / 630 mm
Spool Loading Mode	Pneumatic loading & unloading
Traverse Method	Servo motor traverse
Max. Output Torque	50 Nm
Take-Up Motor	Servo motor winding
Take-Up Meter	Encoder meter
Take-Up Brake	Electromagnetic brake
Traverse Motor	Servo motor
Machine Dimensions	L1400 × W850 × H1680 mm
Machine Weight	900 kg

Multi-head Power Pay off

Technical Features

This equipment is used in conjunction with the stranding machine. If stranded, use the equipment to release the stranded copper wire from the reel and enter the stranding machine for stranding. The equipment changes the traditional way of pay off and can release up to 40 copper wires from a large capacity reel at the same time. When one of the copper wires breaks, the stranding machine can be controlled to stop automatically.



Technical Parameters

Model	Multi-head Power Pay off	
Number of Pay-Off heads	Single Head	Double Heads
Max number of pay off	7-40 pcs	7-40 pcs
Pay-Off Diameter	Φ 0.12-0.6 mm	Φ 0.12-0.6 mm
Max. Pay-Off Speed	250 m/min	250 m/min
Pay-Off Mode	Constant tension, dynamic pay-off	
Pay-Off Spool Size	Φ 500 / 630 mm	Φ 500 / 630 mm
Pay-Off Motor Power	2.2 kW	2.2 kW × 2
Pay-Off Brake	Electromagnetic brake	Electromagnetic brake
Spool Loading Mode	Shaftless pneumatic	Shaft with manual jacking
Machine Dimensions	L1300 × W850 × H1450 mm	L1500 × W1700 × H1300 mm
Machine Weight	800 kg	900 kg

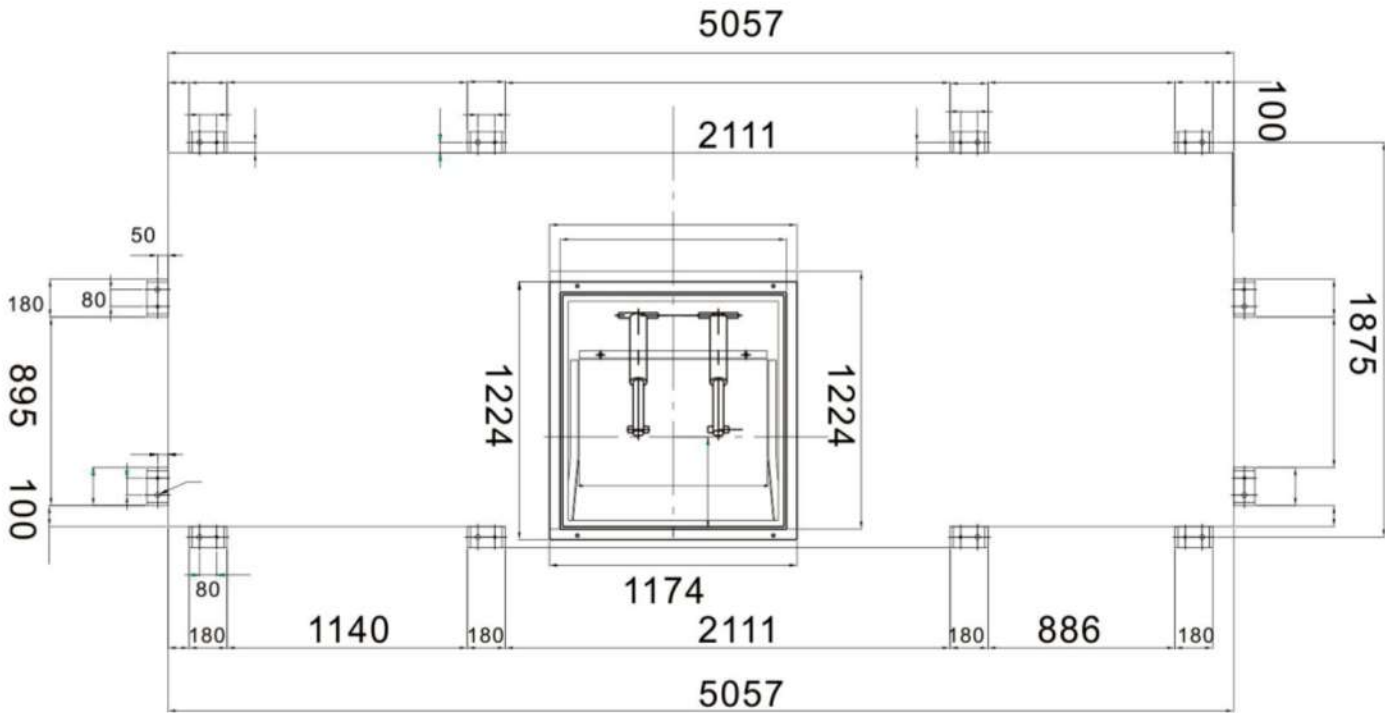
Wire Stranding Machine

Technical Features

Power control: the main motor is controlled by frequency converter with stepless speed regulation. It can be adjusted arbitrarily within the mechanical speed range. The linear speed meter length is displayed and set by the touch screen. The traction uses servo control, which improves the original mechanical gear transmission mode. The servo driver is used to automatically adjust the take-up speed and stranding pitch. Stranding bow material: carbon fiber stranding bow. Change mode of stranding pitch: PLC sets automatic stranding pitch calculation, without replacing the stranding pitch gear. Transmission mode: synchronous toothed belt transmission. Spool loading mode: loading and unloading spool by hydraulic lifting system. Spool installation mode: horizontal manual installation, which solves the problem that it was difficult to install the spool vertically in the past.

Application

Equipment application: The equipment is used for stranding copper wire, aluminium wire or PVC cable, stranding more than 2 wires into one strand, and winding them on 630mm, 800mm, 1000mm and 1250mm spools.



Φ 800 绞线机外形图 Outline Drawing

Technical Parameters

Model	630	800	1250
Stranding Range	0.75 – 6 mm ²	1.5 – 16 mm ²	6 – 35 mm ²
Stranding Pitch	11.15 – 75.2 mm	15 – 150 mm	60 – 350 mm
Max. Stranded Diameter	Φ 3 mm	Φ 1.5 – 6 mm	Φ 3 – 10 mm
Max. Rotation Speed	Up to 2500 rpm/min	Up to 1000 rpm/min	Up to 600 rpm/min
Spool Size	Φ 630 mm	Φ 630 mm / Φ 800 mm	Φ 1000 mm / Φ 1250 mm
Main Drive Motor	7.5 kW, 4-pole AC motor	18.5 kW, 6-pole AC motor	45 kW, 6-pole AC motor
Take-Up Motor Power	/	4 kW	11 kW
Stranding Direction	Both forward and reverse		
Pitch Adjustment	Mechanical gear change	PLC automatic adjustment	
Stranding Bow Material	Spring steel	Carbon fiber	Carbon fiber
Power Supply	400 V AC, 50/60 Hz		

Copper Rod Casting Machine

Technical Features

The up-drawing oxygen free copper continuous casting unit is used to produce long bright oxygen free copper rod/alloy copper rod.

Process Flow

Cathode Copper Plate→melting Furnace→Transition Bin→holding Furnace→Continuous Caster (Crystallization Moulding)
Casting Rod→Take-up Machine→Sale or Deep Processing.



Technical Parameters

Model	C0-SYL-06/08	C0-SYL-12/08
Number of Casting Rods	6 heads	12/14 heads
Casting Rod Diameter	Φ 8 mm– 12 mm	Φ 8 mm– 25 mm
Melting Rate	300 kg/h	600 kg/h
Annual Output	2000 MT (8–10 MT/day)	6000 MT (25 MT/day)
Melting Furnace Type	Extended underflow double-body furnace	
Feeding Method	Centralized feeding	
Traction Method	Servo-driven upward traction	
Traction Frequency	0–600 times	
Traction Pitch	2–7 times	
Liquid Level Tracking	+/- 2 mm	
Cooling Water Inlet Pressure	0.2–0.3 MPa	
Copper Rod Coiling Diameter	Φ 700–1500 mm	
Coiling Weight	2–3 MT	
Traverse Mode	Servo automatic tracking traverse	
Power Consumption per Ton	About 300–400 kWh/MT	
Installed Capacity	230 KVA	280 KVA
Installation Dimensions	L18 × W10 × H6.8 m	L25 × W10 × H6.8 m
Equipment Weight	Approx. 40 MT	Approx. 45 MT

Copper Clad Aluminium Equipment

Technical Features

- 1. Small specific gravity and light weight.
- 2. High conductivity.
- 3. The price is low.
- 4. It is easy to process and produce after copper tape is cladded.

Application

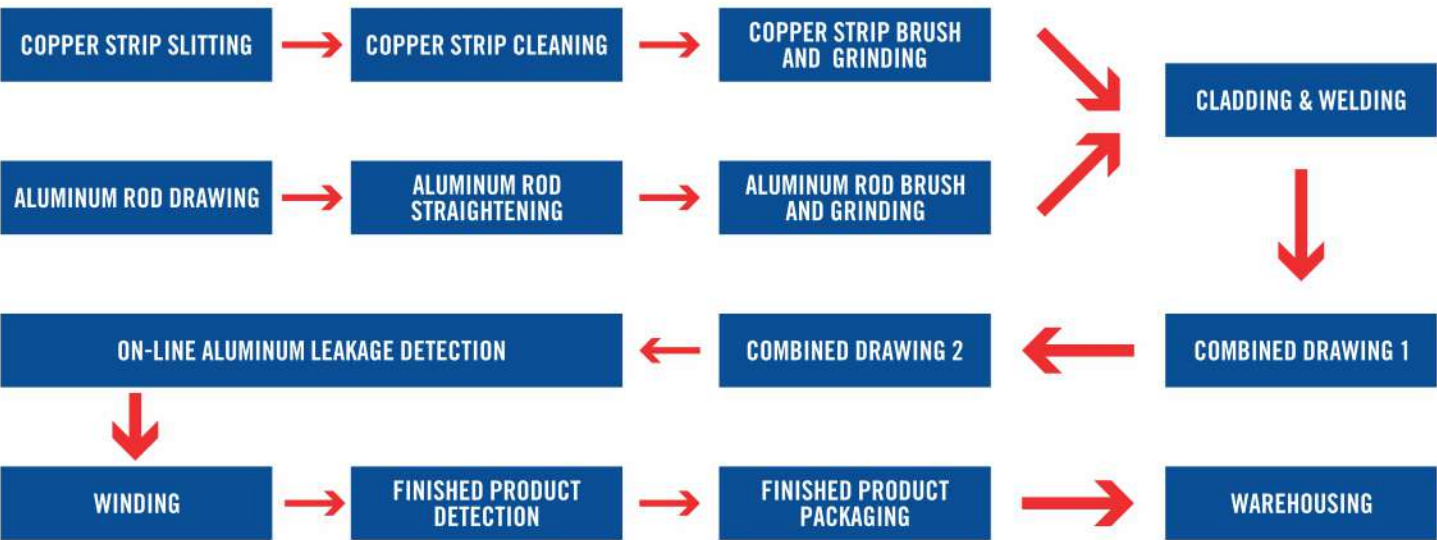
The production line is mainly used to produce copper clad aluminium mother rods, which are new conductive materials and are mainly used for signal transmission in the communication industry and high-frequency data signal transmission. Copper clad aluminium is a new kind of material used in aerospace industry because of its small specific gravity and high conductivity. Medical electronic network video and other industries are more and more widely used.



Technical Parameters

Item	Specification
Cladding diameter	8 mm / 12 mm
Cladding speed	5 – 15 m/min
Straightening wheel size of aluminum rod	180 × 80 mm
Number of straightening wheels	8
Copper strip grinding power	0.75 KW
Aluminum rod grinding power	0.75 KW
Welding power	15 KW
Take up motor power	7.5 KW
Power supply	400V, 50/60 Hz

Process Flow



In-line 2 Wires Intermediate Drawing Machine with Online Annealer

Technical Features

High precision transmission double-head wire drawing + double take-up

Compared with single head drawing machine, its advantages are as follows:

1. Cost effective
2. High efficiency and large output.
3. Low energy consumption.
4. It is convenient and fast to change drawing dies during production and has the function of quick die change.
5. Easy operation, in-line structure of equipment, fast and convenient threading.

Application

Servo motor independent drive + double take-up

Compared with single head drawing machine, its advantages are as follows:

1. Cost effective
2. High efficiency and large output
3. Low energy consumption
4. It is convenient and fast to change drawing dies during production and has the function of quick die change.
5. Easy operation, in-line structure of equipment, fast and convenient threading.
6. The equipment has low die matching requirements and is convenient to change drawing dies. Only the die size needs to be input, and the machine can automatically adapt and change the rotation speed of each servo motor.
7. The slip rate of the machine is small, and the slip coefficient can be adjusted at any time. The adjustment method only needs to be set and changed on the touch screen.



Technical Parameters

Model	CO-ZLST280-11		CO-ZLST250-13		CO-ZLST250-17
Driving mode	Servo motor	Gear drive	Servo motor	Gear drive	/
Number of drawing heads	2	2	2	2	2
Inlet wire diameter	Φ 2.6 – 3.5 mm		Φ 2.6 – 3.5 mm		Φ 2.6 – 3.5 mm
	Φ 2.6 – 3.5 mm		Φ 2.6 – 3.5 mm		
Outlet wire diameter	Φ 0.8 – 2.8 mm		Φ 0.6 – 2.0 mm		Φ 0.4 – 1.0 mm
	Φ 0.8 – 2.8 mm		Φ 0.6 – 2.0 mm		
Max. line speed of drawing	1500 m/min	1500 m/min	1500 m/min	1500 m/min	1600 m/min
Number of drawing die	11	11	13	13	17
Mechanical elongation rate	1%-30%	25% + 18%	1% - 30%	25% + 18%	25% + 15%
Construction of machine body	Casting + steel plate welding and annealing				
Capstan	Ceramic cone pulley				
Max capstan diameter	280 mm / 280 mm		250 mm / 250 mm		250 mm
Take-up spool size	Φ 400 / 500 / 600 mm				
Take-up motor power	11 KW		11 KW		11 KW
Lubrication mode	Spray type				
Brake	Disc type brake				
Annealing voltage	70V DC				
Annealing current	4500 A		3500 A		2500 A
Main motor power	90 KW		75 KW		55 KW
Power supply	400V, 50/60Hz				
Machine dimension	L15000 x W3100 x H2300		L16200 x W3150 x H2310		
Machine weight	9500 Kg	10000 Kg	10500 Kg	11000 Kg	11500 Kg

In-line Multi-Wire Drawing Machine With Online Annealer

Technical Features

- 1. High precision helical gear transmission, unique oil lubrication mechanism, dual motor drive, fast mould changing system.
- 2. The drawing oil lubrication adopts the strong oil injection design inside the die base, which makes the lubrication more sufficient, saves space and is convenient for operation.
- 3. Annealed contact copper ring and nickel cylinder are made of special alloy materials to ensure longer service life.
- 4. The on-line annealing control adopts the zero-meter preset voltage design to ensure the stable annealing quality of the wire rod in the startup and shutdown states.

Technical Parameters

8 Wires Drawing Machine with Online Annealer

Model	CO-DTS17 – 8A	CO-DTS17 – 8B
Number of Drawing Heads	8	8
Inlet Wire Diameter	1.8 mm × 8	1.8 mm × 8
Outlet Wire Diameter	(Φ 0.3 – 0.8 mm) × 8	(Φ 0.4 – 0.8 mm) × 7
Number of Drawing Dies	17	17
Max Speed	1800 m/min	1800 m/min
Drawing Wheel Diameter	Φ 120 mm	Φ 120 mm
Annealing Mode	DC short circuit annealing	DC short circuit annealing
Annealing Voltage	65V DC	65V DC
Annealing Current	5000 A	5000 A
Annealing Wheel Diameter	Φ 200 mm	Φ 200 mm
Installed Capacity	400 KVA	400 KVA
Machine Dimension	L23600 × W6000 × H4000 mm	L23600 × W6000 × H4000 mm



16 Wires Drawing Machine with Online Annealer

Model	CO-DTS21 – 16A	CO-DTS21 – 16B
Number of Drawing Heads	16	16
Inlet Wire Diameter	1.2 mm × 16	1.6 mm × 16
Outlet Wire Diameter	(Φ 0.15 – 0.4 mm) × 16	(Φ 0.18 – 0.4 mm) × 16
Number of Drawing Dies	21	21
Max Speed	1800 m/min	1800 m/min
Drawing Wheel Diameter	Φ 100 mm	Φ 100 mm
Annealing Mode	DC short circuit annealing	DC short circuit annealing
Annealing Voltage	65V DC	65V DC
Annealing Current	3000 A	3000 A
Annealing Wheel Diameter	Φ 140 mm	Φ 140 mm
Installed Capacity	320 KVA	320 KVA
Machine Dimension	L23600 × W6000 × H4000 mm	L23600 × W6000 × H4000 mm

Φ500 - Φ630 Single Spool Take-up

Technical Features

1. Take-up spool size: PND500~PND630
2. Max. take up speed: 30 m/s
3. Take-up motor: 11kW, AC
4. Spool loading mode: pneumatic loading & unloading
5. Traverse: servo motor + precision screw rod traverse
6. The equipment is designed with a spool jacking safety pin to prevent accidental withdrawal of the tip cone from causing potential safety hazards. The safety pin is a mechanical safety device with high reliability. The electric control system will automatically detect the position of the mechanical safety pin.



Φ500-630mm Automatic Double Spool Take-up

Technical Features

1. Dual-reel spooling bobbin size: PND500~PND630
2. Max. take up speed: 25 m/s
3. Take-up motor: 11kW (2 motors, AC)
4. When spools need to be changed, the speed will slow down in order to decrease rotating inertia and shorten brake time. Brake is pneumatic butterfly type.
5. Traverse pitch can be adjusted freely
6. Spools can move up and down controlled by air pressure. The gripping and loosening for spools are pneumatic control with mechanical lock
7. For spool change, the length counting wheel will send a signal in accordance. With the pre-set length to realize it. The spool las-ards change accuracy in the course of the exchange from filled spool to empty spool is up to 99%.
8. The spool jacking of the equipment adopts a hydraulic device and is designed with a hydraulic self-locking mechanism to prevent the retraction of the tip cone from causing safety problems.



Φ800/680 Plum Drop Coiler

Technical Features

- 1. Drop coiler wheel size: Φ800 mm / Φ680 mm
- 2. Max. speed: 20 m/s
- 3. Motor power of drop coiler: 15kW (AC)
- 4. This equipment is a wire dropping machine without locking structure, that is, the wire dropping drum is of self-locking structure, and the wire dropping frame does not need to relate to the wire dropping drum. The equipment with this structure can use paper frame or iron frame for wire winding.
- 5. The equipment is designed with a line rail and driven by a motor. Press the electrical button to automatically replace the wire spool.
- 6. The wire press is controlled by air pressure. The pressure of the wire press can be controlled by adjusting the air pressure of the wire press.
- 7. The brake of the equipment adopts pneumatic brake. If the equipment is disconnected or abnormal during operation, the brake can make the equipment stop quickly.



Wire Compaction Machine

Technical Features

Tightly packed high-speed winding equipment, suitable for soft and hard aluminium wire with diameter of 2.2~4.8mm, finished copper wire and coated wire after continuous annealing. Independent take-up system can be used with any brand of continuous annealing production line. Touch screen control, the cable is driven by precision ball screw, servo AC motor, and the double cone cable arrangement mode makes the cable laying reliable. No need tray packing, convenient product packaging and transportation, anti-oxidation sealed packaging, long storage life.



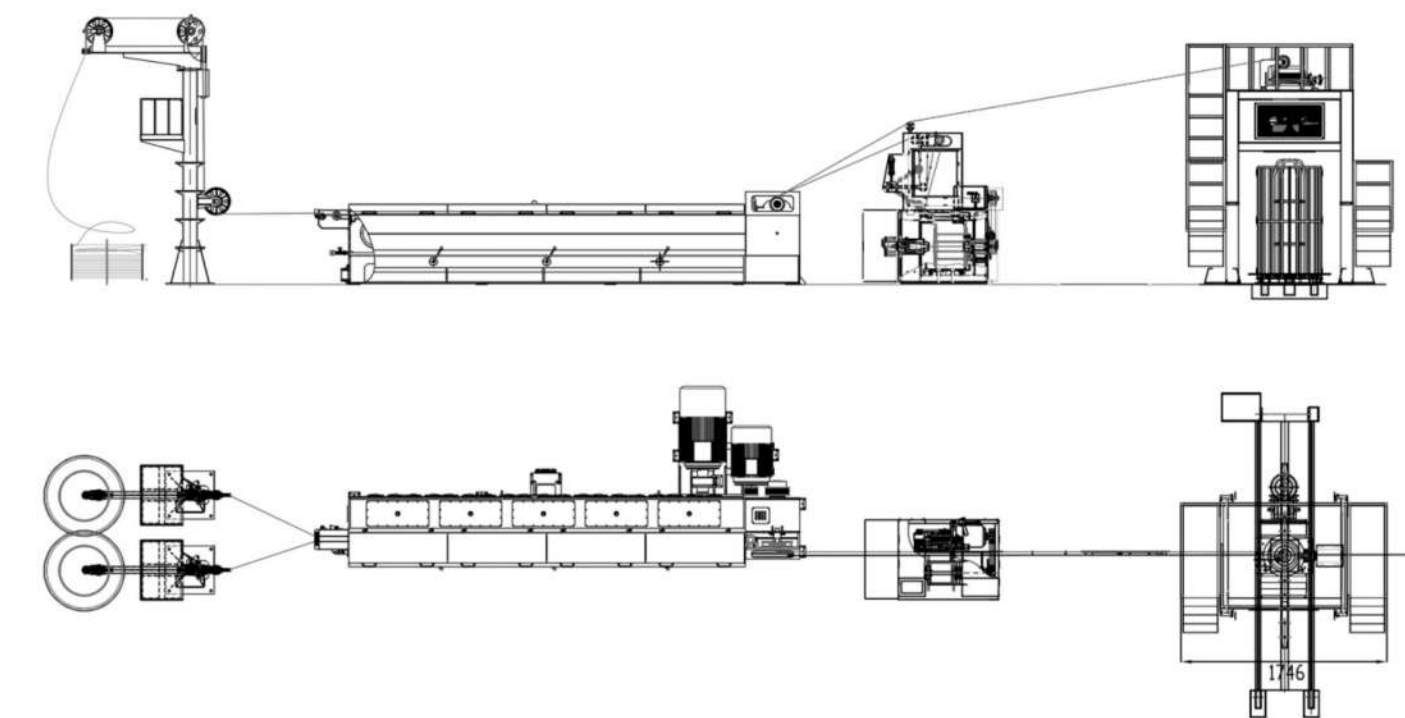
Technical Parameters

Model	WIREMAC 100
Wire Diameter Range of Winding	2.2 – 4.8 mm (standard aluminium, soft copper wire)
Max. Speed	1500 m/min
Main Motor Power	45 KW AC
Traverse Motor Power	1.5 KW
Traverse Positioning Motor Power	15 W
Hydraulic Motor Power	2.2 KW
Standard Spool Size (Outer diameter × inner diameter big end (small end) × inner width × diameter of shaft hole)	1000 × 610 × (525) × 590 × 170 mm
Standard Spool Capacity	600 kg (Aluminium rod), 2000 kg (Copper rod)
Traverse Mode	Ball bearing screw rod, AC servo motor forward and reverse direction conversion
Brake Mode	Hydraulic disc brake (pneumatic pressure type)
Power Voltage	220V, 50/60Hz
Machine Dimensions	L2530 × W1850 × H1510 mm
Machine Weight	About 5000 kg

2 Wires RBD Wire drawing Machine

Technical Features

- 1. The equipment can produce two copper wires or aluminium wires at the same time and wind them into the wire spool and wire frame.
- 2. The winding mode of the equipment is flexible. Single spool winding, double spool winding or drop coiler winding can be chosen according to your needs.
- 3. Each part of the equipment is an independent control system controlled by remote I/O modules. The data exchange of equipment control system adopts bus for communication.
- 4. Independent control system design makes the combination of equipment more flexible.



Technical Parameters

Model	CO-DLS400/8		CO-DLS400/11		CO-DLS400/13	
Number of Drawing Heads	2		2		2	
Inlet Wire Diameter	Φ 8 mm		Φ 8 mm		Φ 8 mm	
Outlet Wire Diameter	Φ 2.6 – 3.0 mm		Φ 1.6 – 3.5 mm		Φ 1.3 – 3.5 mm	
Number of Drawing Dies	8		11		13	
Line Speed	800 m/min		1000 m/min		1200 m/min	
Drawing Block Size	400 mm		400 mm		450 mm	
Drive Mode	Independent servo motor drive	AC motor gear drive	Independent servo motor drive	AC motor gear drive	Independent servo motor drive	AC motor gear drive
Lubrication Type	Semi immersion + Spray	Full immersion	Semi immersion + Spray	Full immersion	Semi immersion + Spray	Full immersion
Elongation Rate	0-40%	37% + 15%	0-40%	37% + 15%	0-40%	37% + 15%
Drawing Die Dimension	Φ 40 × 25		Φ 40 × 35		Φ 40 × 35	
Configured Power	Annealing	No annealing	Annealing	No annealing	Annealing	No annealing
	500 KW	200 KW	550 KW	260 KW	650 KW	320 KW
Die Change Mode	/		Quick die change		Quick die change	
Power Supply	400V, 50/60Hz		400V, 50/60Hz		400V, 50/60Hz	
Machine Dimension (L × W × H)	L18200 × W4886 × H3680 mm		L21820 × W5500 × H4000 mm		L25000 × W7500 × H4500 mm	
Machine Weight	13,000 kg		14,300 kg		15,600 kg	