

Straight line drawing machine(Individual motors, variable frequency motor and servo motor option):



Application: Such a machine has been applied widely in high, medium and low carbon wire, steel cord wire, bead wire, steel rope, welding wire, galvanized wire, PC strand, spring wire, stainless steel wire, SS Wire, nickel wire, Ti wire, Al alloy wire, ACS, screw wire, golden steel busbar and so on.

CONSUMER GOODS Application: Wires for coathangers and Coathanger hooks, stitching wire, steel wool wire, pait roller wire, nickel coated wire, mattress wire, champagne cork wire, cable and hose braiding wire, bucket handle wire, bookbinding wire, wire for kitchen utensils, spring wire for medical, fishhook wire, Rope wire, music wire, spoke wire, hook wire, brassiere wire.



AUTOMOTIVE Application: insulator wire for car seats, SS fiber for heating textile, sealing wire, control cable, caseing wire, spring wire for locks and brakes, wiper spring wire, hard drawn shaped spring wire, wiper arm wire, wiper blade wire, wiper spring and hook wire, beraing wire, suspension spring wire, wheel weight wire, steel cord, wire for tires and rubber trackers, bead wire.





AGRICULTURE Application: Galvanized Fencing Wire, Low Carbon Fencing Wire, rope wire, Rock Protection Strands, PET Coated Wire For Aquaculture Cages, Wire For Welded Panels For Chicken Batteries, Rabbit Cages, Fishing Rope Wire, Hexanet, Tomato Hook Wire, Vineyard Wire, Fruit Support And Protection Wire.



BUILDING. Welding Mesh, Structural Cable, Galvanized Wire Rope. Roof Fixing Wire. Galvanized Nail. Ceiling Suspension Wire. Tunnel Engineering Steel Fiber. Prefabricated Steel Fiber. Industrial Floor Steel Fiber. High Security Fence. Pc Strand Wire. Cable-Stayed Bridge Strand Wire. Elevator Rope



**WELDING WIRE. CO2 Gas Shield Welding Wire .Electrode.Submerged Arc
Welding Wire.Flux.Cored Welding Wire.Aluminium Welding Wire.Stainless
Steel Welding Wire.Ti Wire,Copper Alloy Wire.**



1. Servo Direct Drive Technology (SDT)

Energy saving 20%| Space saving 50%|maintenance saving 40%|Improve efficiency 20%

Product Introduction

Servo Direct Drive Technology (SDT) wire drawing machine is the * one to achieve the connection between motor and block *, which has merits in energy consumption, efficiency and maintenance, replacing parts of gearbox, belt and brake. It has a symmetrical and integrated design to save energy by 20%, space by 50%, maintenance by 40% and improve efficiency 20%. Such a machine has been applied widely in high, medium and low carbon wire, steel cord wire, bead wire, steel rope, welding wire, galvanized wire, PC strand, spring wire, stainless steel wire, golden steel busbar and so on.

Product Advantage

- 1.The host is a pure direct drive, no reducer, no belt, no mechanical brakes, high efficiency and energy saving, reducing land occupation and reducing maintenance costs.
- 2.Motor stator protection degree is IP65, guarantee motor is safe and reliable. Install temperature detector inside motor.

- 3.The wire drawing machine, electrical cabinet and control panel is integrated, and using same design standard.
- 4.In the shaft of driving, install temperature detector on bearing of upside and downside.
- 5.With coolant tank for motor and motor driver, install coolant circulation pump, temperature detector and liquid level detector.
- 6.With cooling water pump, frequency conversion control, to keep same cooling water pressure and flow on every block.
- 7.Temperature detection of whole machine inlet water and motor cooling water.
- 8.Capstan surface is tungsten carbide coated, capstan lifespan: ≥ 3 years. Inner water bush of capstan is made by Aluminum Alloy.
- 9.Customer can choice mixing die box, rotating die box, pressure die box.
- 10.With IC card manage function, management of personnel, production, maintenance and authority.
- 11.No wire broken when emergent stop machine.
- 12.With RJ45, can be used for customer to collect machine running date.
- 13.With LED display, to show current speed and ratio of wire on spool.
- 14.With intelligent power meter, to check quality of power supply, and meter power consumption of machine.
- 15.The whole machine equipped with power cable and control cable, customer just need supply power to electrical cabinet.
- 16.The after-service, will change parts, and not repair parts.
- 17.Optional: dust collection system, can clean dust in air and clean dust on drawing bench.
- 18.Optional: diameter detector laser type, can check wire diameter in real time, and make alarm when wire diameter is over range.
- 19.Optional: internet module, could-based IOT system, then can visit machine from mobile phone or PC to check running data, manage control system.

Product Parameter

Specification(block diameter)/mm	200	300	350	400	450	500	560	600	700	800	900	1200
Inlet strength/MPa	≤1350											
Numbers of block	≤16	≤16	≤16	≤16	≤16	≤16	≤16	≤16	≤16	≤16	≤16	≤16
Maximum inlet diameter/mm	2.2	2.8	3.5	4.2	5	5.5	6.5	8	10	12	14	16
Minimum outlet diameter/mm	0.25	0.5	0.6	0.75	1	1.2	1.4	1.6	2.2	2.5	3	4
High drawing speed (m/s)	20	20	20	25	30	30	20	16	12	12	10	10
Motor power (kw)	2.2~5.5	5.5~7.5	5.5~11	11~15	11~22	15~30	22~45	30~55	45~75	55~90	75~110	90~132
Transmission system	Servo Motor Direct Drive											
Speed adjusting method	AC Servo Drives											
Control method	Sharing DC Busbar Control System											
Pay-off method	Spooler pay-off, High frame pay-off, Horizontal pay-off, Duckbill pay-off, can pay-off without stop working											
Take-up method	Spooler take-up, Coiler take-up, Inverted pay-off, can take-up without stop working											
Main function	Can realize automatic stopping when broken wire or messy wire, each unit is equipped with independent protective cover, monitoring process parameters and fault parameters											
Suitable drawing materials	Steel wire (high, middle, low carbon steel wire, stainless steel wire, prestressed steel wire, bead wire, hose wire, spring wire, steel cord, etc.) welding wire (GMAW, SAW, FCAW, etc.) alloy wire and various metal materials											

2. Variable frequency motor

Product Introduction

Highest Machine Flexibility: The flexible machine set-up allows to start, bypass and finish on any block

Superior Block Cooling: The V-grooves on the inside of the blocks create a double cooling effect - being coated with zinc on the inside and tungsten carbide coating on the outside, over-heating is prevented and superior cooling enabled

Adjusted Tilted Table Design: Adjust the tilting in height and degree depending on your preferences

Automatic Wire Height Filling: The wire height on the blocks are auto-matic filled to a desired height. The wire height is easily adjustable in the operator interface, for constant wire filling

Customizable Control System:

Choose premium brand Siemens. The control screen can be set to multiple languages

Drawing Machine Straight Line (DMSL)



- Regulated with a full dancer control
- Tension of the dancer arm is pneumatically controlled and can easily be adjusted on each block
- Straight line control to ensure no other contact points between block and die
- Combine Straight and Loop Line without mechanical adjustment:
The same die-box set-up allows to change between the two systems by simply adjusting the PLC control screen



All our machines are CE marked.
On-going and thorough risk analysis and testing ensures highest safety according to European standards.

Drawing Machine Loop Line (DMLL)

For the production of carbon, stainless and alloy steel wires.



- Regulated with torque
- Wire is guided straight from each block through the die onto the next block - resulting in less contact interference for best quality wire
- Adjustable back tension
- Superior cooling because of tighter contact between wire and block

Drawing Machine Control Line (DMCL)

For drawing of carbon steel, stainless steel and alloy wires.



- Regulated with a limited dancer
- At the entrance of every die box, a vertical roller takes up the speed differences and evens it out between each block
- Tension of the control arm is pneumatically controlled and easy to adjust

TECHNICAL DATA DRAWING MACHINE PORTFOLIO

No. of blocks:	2-21
Block diameter:	200, 300, 400, 500 560, 630, 710, 800, 900, 1000 & 1200mm
Block coating:	Tungsten carbide
Motor power:	5.5 - 160 kW AC
Speed control:	Loop Line: Full dancer Straight Line: Back pull control Control Line: Control Arms
Inlet wire diam.:	1 - 15 mm
Speed:	Up to 50 m/s
Options:	- Soap Stirrer - Rotating Die Holder - Dust Extraction, etc.