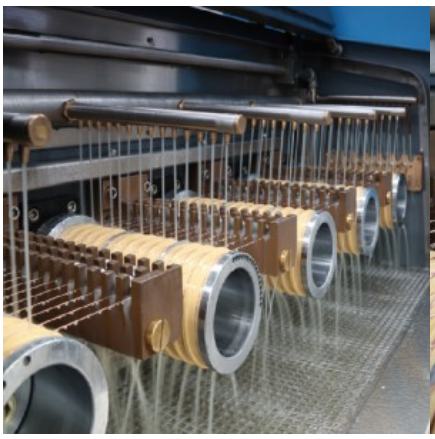
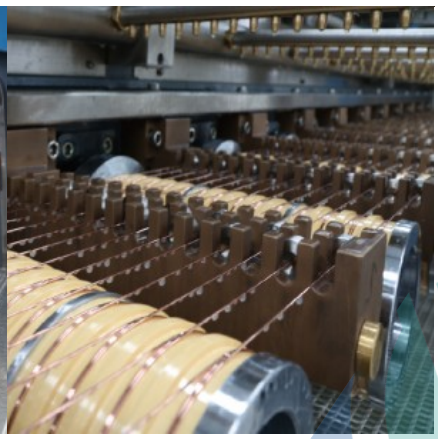
Multiwire Drawing Machine





1. Introduction

Generally speaking, the production of conductors is the first step during the manufacture of wires and cables. The quality of the conductors directly relates to the performance of the entire cable product. And the production efficiency also relates to the production cost of the cable product. The traditional conductor processing is carried out by a single-wire tower-wheel drawing machine. The thick copper / aluminum wire is drawn and annealed by the drawing machine to achieve the required diameter.

But in the new processing process, more multiwire drawing machines are used.

The multiwire drawing machine provided by LINT TOP is an innovation based on traditional one. It can draw multiple copper wires of the same diameter simultaneously, and can achieve online annealing after drawing to obtain multiple copper wires with the same electrical properties. Compared with the traditional single head drawing machine, the multiwire drawing machine has some certain superiorities:

1). Improving the product quality, especially when next step is stranding. It guarantees the consistance of the state of each single wires as well as improves conductivity and softness the stranding wires.
2). Improving production efficiency. Drawing multiple wires simultaneously is equivalent to many single-head drawing machines work together, which is many times more efficient than the traditional one.

3). Saving costs. One multiwire drawing machine can replace several single-head drawing machines, which can save the input cost of equipment, and during the production process, it can also reduce the labor costs.

2. Equipment Features

The drawing machine adopts high precision helical gear transmission and is equipped with spray-type strong oil cooling and lubrication. The lubrication is provided by an independent motor-driven gear pump, with pressure protection and can achieve lubrication failure shutdown.The cooling box of the drawing machine adopts strong spray type lubrication cooling, which can fully cool and lubricate the drawing wheel, dies and wires, so as to ensure good drawing quality.
Online annealing of copper wire can be carried out to realize "continuous drawing and continuous annealing", which can ensure the stability and consistency of the wires.

3. Main Technical Parameters

We provide various multiwire drawing machines, the main technical parameters are as follows:

Model	LT21-8/1500	LT17-8/2000	LT16-14/4000	LT20-14/4000	LT21-16/2000	LT25-16/2000
Number of wires	8	8	14	14	16	16
Inlet diameter (mm)	Max.1.8	Max.1.8	14*Max.1.8/ 7*Max.2.6	14*Max.1.8/ 7*Max.2.6	Max.1.8	Max.1.8
Outlet diameter (mm)	0.15 ~ 0.40	0.20 ~ 0.52	14*(0.28 ~ 0.52)/ 7*(0.50 ~ 1.05)/	14*(0.20 ~ 0.52)/ 7*(0.50 ~ 1.05)/	16*(0.18 ~ 0.40)/ 8*(0.40 ~ 0.52)/	16*(0.15 ~ 0.40)/ 8*(0.40 ~ 0.52)/
Drawing speed (m/min)	Max.1800	Max.1800	Max.1800	Max.1800	Max.1800	Max.1800
Drawing wheel diameter (mm)	80	80	120	120	80	80
Capstan Diameter (mm)	100	100	120	120	100	100
Number of dies	Max.21	Max.17	Max.16	Max.20	Max.21	Max.25
Mechanical elongation(%)	8% ~ 25%	8% ~ 25%	8% ~ 25%	8% ~ 25%	8% ~ 25%	8% ~ 25%
Annealing current (A)	Max.1500	Max.2000	Max.4000	Max.4000	Max.2000	Max.2000
Bobbin size (mm)	PND630	PND630	PND630	PND630	PND630	PND630

4. Wire Drawing Effect

We provide variety types of multiwire drawing machines to meet the drawing requirements of different specifications. It is characterized by fast drawing speed, high production efficiency, small equipment area and high quality of drawing products etc.

Product link：https://www.linttop.com/multiwire-drawing-machine.html