



Suzhou Newlead Augmented Intelligence Equipment Co.Ltd
NEWLEAD TRADE SUZHOU CO.,LTD

RBD450/13 Individual Servo motor drives type of Copper Rod Breakdown Machine
with annealing, double spooler PND630 and Down coiler

Advantages of this safe investment choice

Increase in quality:

High surface quality of the wires due to the optimized wire path (2° inclination of the gearing/drawing capstans) innovative drawing die holders with high-pressure cooling of the drawing dies

Increase in productivity:

Reduced downtime when changing the machine setup for different dimensions via multi-motor drive technology (quick drawing die change system)

Reduced downtime due to touch screen-

Based user guidance and fault display

Cost-effectiveness:

Reduced tool consumption (drawing capstans, drawing dies) with minimized-slip operation energy savings of up to 20% are achieved by switching off unused drives long service intervals and extended drawing tool service life minimize the requirement to stock and use spare parts

Reduced consumption of oil and drawing lubricant

Design:

Optimized wire cooling/lubrication (due to the fully-immersed drawing basin) flexible adjustment of the wire elongation per draft

Individually driven drawing shafts in horizontal tandem layout three-phase AC drives, water-cooled and maintenance-free

Ergonomic and user-friendly machine design, with easy maintenance

no noise protection cabin required up to 85 dB (A) helically geared precision gearing for extremely smooth operation and uniform load transmission vibration-damping grey cast iron housing for long service life



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Highly reliable separation of drawing emulsion and gear oil via mechanical seal (long service intervals)

2、 TECHNICAL PARAMETER

2.1	Inlet wire	Φ8.0mm
2.2	Outlet wire	Φ1.2—Φ4.0mm
2.3	Max speed of drawing	25m/s
2.4	Drawing block size	Φ450mm
2.5	Max number of passes	13
2.6	Die dimension	Φ38x25
2.7	Capacity of the accumulator	7m
2.8	Double Spooler bobbin size	PND630
2.9	Main motor power	37kW (AC) X5, 30kW X7(AC)
2.10	Power of motor for constant speed wheel	55kW (AC)
2.11	Power of motor for spooler	18.5kW×2 (AC)
2.12	Installation size	36000×4200×5000mm
2.13.	Down Coiler	Φ900mm
2.14.	Annealer power	55V, 6000A (DC)

3、 MACHINE COMPONENTS

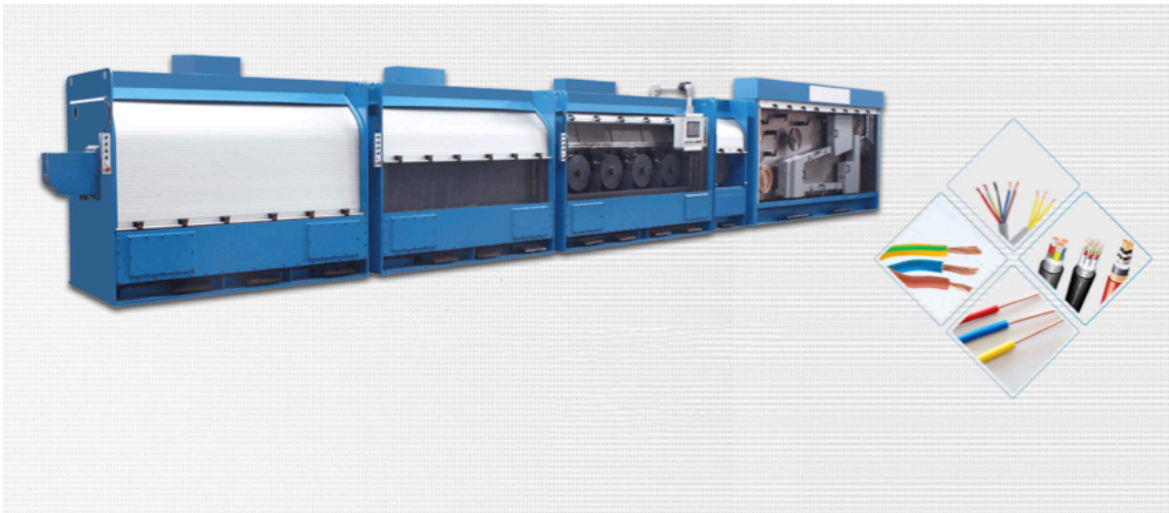
3.1	Cantilever payoff stand	1set
3.2	Main drawing machine	1set
3.3	Continuous annealing device	1set
3.4	Dancer	1set
3.5	PND630 Automatic spooler	1set
3.6	Pointing machine	1set
3.7.	Φ900 Down Coiler	1set
3.8	Drawing emulsion system	1set
3.9	Electric cabinet and control desk	1set

4、 CONSTRUCTION OF MAIN COMPONENTS

4.1 Payoff stand



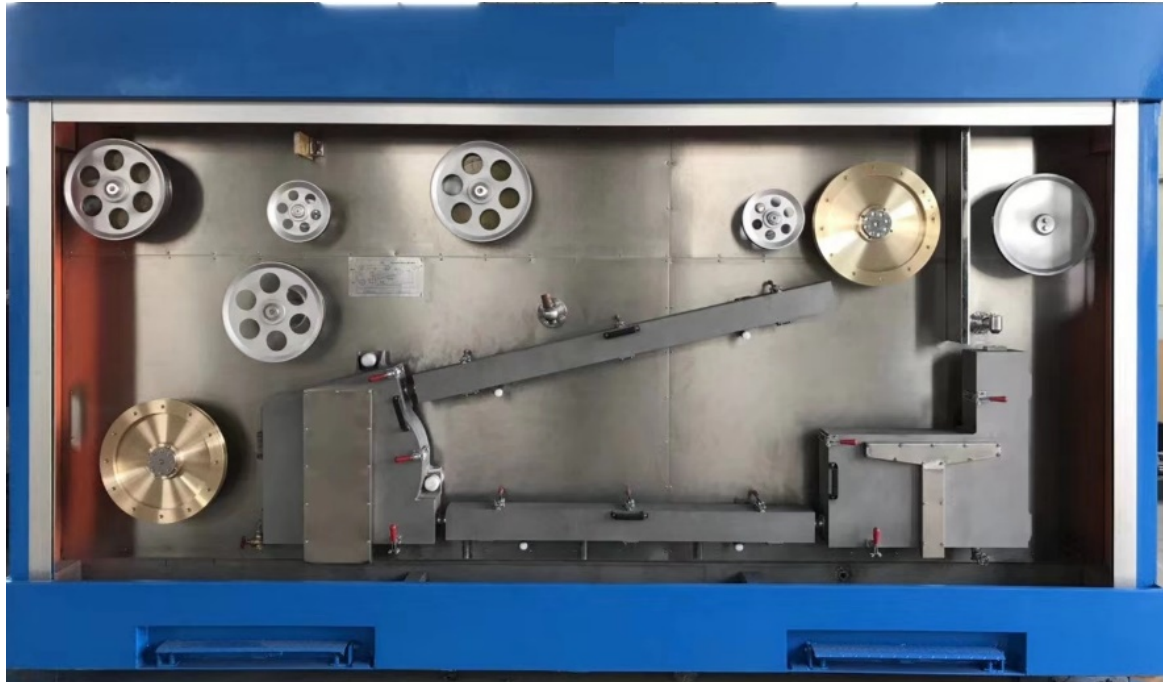
4.2 Main drawing machine



4.3 Dancer



4.4 Annealing device



4.5 $\Phi 630$ Double spooler



4.6 Pointing machine



4.7 Down coiler



4.8 Drawing emulsion system



5、 ELECTRICAL CONTROL SYSTEM



6、 Noted



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- 6.1 All the bearings are NSK from Japan;
- 6.2 The noise of the machine is below 85 db - measured at 1M distance to the machine.
- 6.3 The capstan motor are servo from TAIWAN, and take up motors are SIMENS brand
- 6.4 Supply operation full software with user manual in English after receipt the commissioning certificate;
- 6.5 The buy shall provide the drawing for the bobbin of dual take up

7、 SUPPLIED THE FOLLOWING DOCUMENTS WITH THE MACHINE

- 7.1 Machine mechanical layout, foundation drawing
- 7.2 Electricity including the diagram electric circuit drawing, piping drawings.
- 7.3 User handbook in English
- 7.4 Transmission system drawing

8、 Free Spare parts

1	Driving belt	6 pcs
2	Nickel annealing ring	6pcs
3	Seal belt	1kg
4	Basket	1pcs
5.	Steam generator	1 set
6.	Guide wire parts	6pcs