



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

**Quotation**

No:202203259501

Date: 2022/03/25

Delivery Time: Within 180 days on receipt of your Down payment.

Delivery place: FOB SHANGHAI

Quotation Valid:30 days

Terms of payment: 50% Deposit by TT,50% by TT before delivery.

| No | Name  | QTY | Unit RMB | Amount RMB |
|----|---|-----|----------|------------|
| 1  | SDMP500/5+400/7+2 Straight line drawing machine+high speed copper plating<br>Inlet 5.5-5.0mm,outlet 0.8-2.0mm( <b>Note: Provide a full set of production process, provide wire drawing die matching, copper plating solution formula, and train to produce qualified welding wire products.</b> ) | 3   |          |            |
| 2  | NL-5DA Automatic precision layer spooling machine with pneumatic clamping spool   | 4   |          |            |
| 3  | BWM500 Barrels winding machine 250-350kg/barrel   | 1   |          |            |

Office:No 2401 Jingchang TECH park ,CaiXiang road ,Suzhou city. Whatsapp:008618913191585

Factory:No 50 Jin san jiao north road,wujing district,Changzhou city [www.newleadgroup.com](http://www.newleadgroup.com)



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|   |  |    |  |  |
|---|--|----|--|--|
| 5 | Commissioning :4 engineers to install the lines, successful running machines and train operators in 30 days,1000RMB salary per day of each engineer,4*1000=4000RMB | 30 |  |  |
| 6 | Quarantined time 21days when engineers go back China, 600RMB salary per day of each engineer,4*600=2400RMB   | 21 |  |  |
|   | Total  |    |  |  |

**Note: Provide a full set of production process, provide wire drawing die matching, copper plating solution formula, and train to produce qualified welding wire products.**

THE DETAILS OF THE L/C AND T/T REMITTANCE AS FOLLOWS

BENEFICIARY:NEWLEAD TRADE SUZHOU CO., LTD

BANK NAME:BANK OF CHINA

SUZHOU JINCHANG SUB-BRANCH

A/C NO.: 4585 6497 8005

SWIFT CODE: BKCHCNBJ95B

**Main specification**

**1. Production process**

1.1 First step:Drawing 5.0/5.5mm to 0.8-2.0mm and copper plating to manufacture 0.8-2.0mm MIG wire

1.2 Second step:Layer spooling MIG wire 0.8-2.0mm on 270/300 spools

1.3 Third step:Barrels Winding wire 250-350kg/barrel

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2. Equipment capacity: 6000 Tons/year

[1]. According to 0.8mm-30%, 1.2mm-50%, other 20% considered.

[2]. The annual working hours are 6600 hours, 330 days per year, and the production capacity is considered 20 hours per day.

[3]. Capacity of SDMP500/7+400/7+2 drawing and copper plating line is **2400 tons / year** of 1.2mm

[4]. Whole project installation power: 750KW

3: Video sites

1. SDMP500/5+400/7+2 drawing with copper plating <https://youtube.com/shorts/qVyzQGVl6ng?feature=share>

2. NL-5DA Automatic layer spooling <https://youtu.be/E99GSbkv27A>

3. BWM500 Barrels winding machine <https://youtube.com/shorts/Ss91xucswHo?feature=share>

**1. SDM500/5+400/7+2 Straight line drawing machine with high speed copper plating Inlet 5.5-5.0mm, outlet 0.8-2.0mm**

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**1. Raw material-** ER49-1, ER50-6 , 5. 0-6. 5mm

### **2 Equipment component**

2.1. The equipment consists of pneumatic pull-up payoff

2.2 Shelling machine

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2.3 Belt sand grinding descaler (including vacuum cleaner)

2.4. SDM 500/7+400/7 Straight line drawing machine

2.5 Online High speed copper plating

2.6 400 / 2 Precision drawing and polishing

2.7 Dancer

2.8 800 take up

2.9 Electrical control cabinet with PLC, operating touch screen(HMI), WIFI remote, Aviation plug

2.10 Installation power:200KW

**3.1 Payoff**

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(1) Pull up pay off :

The equipment adopts lifting and pulling method to pay off, and the swing rod of pay off rack is driven by cylinder to lift, which is convenient for threading. The equipment is equipped with disordered line and broken line parking mechanism.

### **3.2 Shelling machine**

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3.2.1 Mechanical descaling

3.2.2 descaling wheel :120mm

3.2.3 wheels:6+6 pcs

3.2.4 Wire bending manual adjust

**3.3 Belt sand grinding descaler (including vacuum cleaner)**



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|                                       |  |
|---------------------------------------|--|
| Model                                 | NL—1180  |
| Material                              | H.M.L carbon steel                                     |
| Wire diameter                         | Φ5.5mm-Φ5.0mm  |
| Max speed                             | 180m/min   |
| Wire strength                         | 200mpa—2500mpa   |
| The maximum speed of belt             | 1000rpm ( 50Hz) 4.6m/s                                 |
| Abrasive belt polishing machine power | 7.5KWX2  |
| Center height                         | 850mm  |
| Electrical cabinet                    | Rittal structure, protection grade IP54                |
| electrical system                     | Separate control and linkage with wire drawing machine |
| Frequency conversion motor brand      | Siemens (Made in China)                                |
| Low voltage electrical apparatus      | Schneider  |
| Drive                                 | Inovance   |
| Dimension                             | 2062×1300mm  |
| Voltage                               | 380V,50HZ  |

3.4 SDM500/5+400/7+2 Straight line drawing machine

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|                          |  |
|--------------------------|--|
| Model                    | SDM500/5+400/7                           |
| Capstan                  | 500mm*5, 400mm*7                         |
| Drawing passes           | 12                                       |
| Inlet                    | Φ5.0mm-5.5mm                             |
| Outlet                   | Φ0.8-2.0mm                               |
| Tensile strength         | ≤600mpa                                  |
| Maximum compression rate | 97.8%, mini 0.8mm                        |
| Max speed                | 20m/s, normally running 10-15m/s         |
| Motor                    | Drawing 7.5KW*5+9*11<br>800 Take up 15KW |
| Drawing dies             | Φ55mm×40                                 |

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|                                  |  |
|----------------------------------|--|
| Electrical system                | Platform division structure, PROFIBUS-DP field bus control |
| PLC                              | Delta 300PLC   |
| Touch screen                     | Coolway 5.7 Inch Touch Screen                              |
| Variable-frequency motor brand   | Siemens (Made in China)                                    |
| Low voltage electrical apparatus | <i>Delixi</i>  |
| Frequency converter              | Invonace   |

**3.5 Online High speed copper plating**



3.5.1 Hot scrubbing + water washing:

3.5.2 Pickling + copper plating tank:

3.5.3 Water washing tank:

**3.6. 400 / 2 Precision drawing and polishing**

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The tractor is driven by frequency conversion speed regulation, the motor power is  $11\text{kW} * 2 = 22\text{KW}$ , and a pedal inching switch is set. The maximum design speed is  $20\text{m} / \text{s}$  and the normal working speed is  $10 \sim 20\text{m} / \text{s}$

### **3.7 Dancer**



<1>The tension machine is configured behind the 400 traction machine to match the speed and tension between the traction machine and the take-up machine. It adopts box structure, linear bearing guidance, and the guide wheel diameter is 250mm. The guide wheel is made of wear-resistant nylon, which is wear-resistant and does not damage the wire.

<2> Pneumatic control is adopted to control the working tension, and the displacement monitoring switch is used to feed back the tension machine to PLC, so as to facilitate the work of matching equipment.

### **3.8 800 Take up**

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- <1>、 The equipment adopts pneumatic loading and unloading. Including pressure loss protection device and air brake.
- <2>、 The wire arrangement part adopts GP40 light bar wire arrangement device, and the wire arrangement stroke and wire arrangement pitch are flexible and adjustable.
- <3>、 Active setting out technology, variable frequency speed regulation, motor 15kW.
- <4>、 The frame structure is adopted for the fuselage, and the overall boring processing is stable and reliable

### **3.9 Electric cabinet**



1. Setting remotely (with WIFI function)

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2. Aviation plug (user only need connect the Power Supply and the aviation plugs)



**Operator**



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**Main brand**

| No | Name                             | Brand                  |
|----|----------------------------------|------------------------|
| 1  | Inverter                         | Inovance               |
| 2  | PLC/touch screen                 | Delta                  |
| 3  | Low voltage electrical apparatus | Delixi                 |
| 4  | Motor                            | Siemens(Made in China) |
| 5  | Bearing                          | HRB                    |

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**Free spares list**

1. Pass wire pulley 3 PCS
2. Traversing pulley 2PCS
3. Foot switch 8PCS
4. Control button 10PCS
5. Motor belts 6pcs
6. Leading chain 1 pcs
7. Wrench 1 pcs
8. Butt welder 1 set
9. Drawing lubricate pump. 1 pcs
10. Cooling water pump. 1pcs
11. One set drawing dies. 7pcs
12. Wire pointing machine

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**2.NL-5DA Automatic precision layer spooling machine with pneumatic clamping spool**

Equipment components

1. DIN800mm payoff with motor 22KW
- 2.Dancer 350
- 3.Take up.
- 4.Electrical cabinet with PLC and HMI (With WIFI for Remote assistance)
5. Installed power of equipment is 27kw

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**Aviation plug cabinet designed**

For the layer winding of metal wires such as MIG wire, flux cored wires, aluminum wires, spray wires, aluminum alloys wires, copper alloy wires, nickel alloy wires. Packing on plastic spools, wire spool or spool coils.

During the production of different diameter of wires, just input the data on touch screen, no need to do mechanical adjustment.

Different fixtures are optional for different packing demand.

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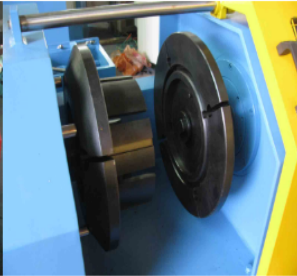


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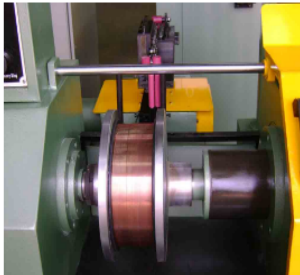
Fixture for plastic spool



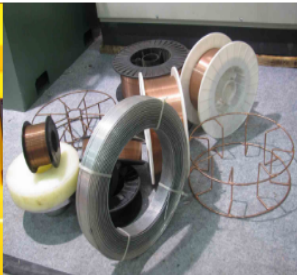
Fixture for wire spool



Fixture for plastic spool



Different kind of packing



|             |  |
|-------------|--|
| Description | wire precision layer winding machine with automatic pneumatic clamping spool |
| Model       | NL-5DA   |
| Usage       | Layer winding MIG wire   |
| Packing     | Spools 270/300   |

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|               |   |
|---------------|---|
| Wire Dia      | Φ0.8mm-Φ2.0mm   |
| Max. Speed    | 25m/s   |
| Take up power | 4KW AC motor, frequency conversion control +750W<br>Servo traverse, With Pneumatic clamping |
| Payoff        | 22KW(DIN800) With Pneumatic lifting and clamping  |

Free spare parts

- 1.Buttons 3 pcs
- 2.Spooling and coiling clamping tool:1 pcs
- 3.Straight pulleys 4 pcs
- 4.Motor belts 2 pcs
- 5.Traverse wheel 1 pcs

**Note:**

| No | Name                             | Brand                  |
|----|----------------------------------|------------------------|
| 1  | Inverter                         | Inovance               |
| 2  | PLC/touch screen                 | Delta                  |
| 3  | Low voltage electrical apparatus | Delixi                 |
| 4  | Motor                            | Siemens(Made in China) |

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|   |         |     |  |
|---|---------|-----|--|
| 5 | Bearing | HRB |  |
|---|---------|-----|--|

**4.BWM500 Barrels winding machine 250-350kg/barrel**



Payoff.



Dancer.



Barrel winding



BWM500 Barrel winding machine is designed especially for MIG wire.

**Equipment constitution**

1. Pay-off machine for  $\Phi 800$ mm bobbin
2. Dancer
3. Take up machine (Including the Straightener, Traction and feeding capstan, Flying wheel, Rotation table up/down and vibrating device, Pail expulse device)
4. Electrical control system

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### **1.1 Technical parameters**

- 1.1.1 Wire type: MIG wire.
- 1.1.2 Wire Dia.:  $\Phi 0.8\text{mm} \sim \Phi 2.0\text{mm}$  (The ellipticity of wire Dia.  $\leq 0.01$ ).
- 1.1.3 Speed: the design speed is 15m/s, and the natural working speed is 12m/s (When the wire Dia. is  $\Phi 1.2\text{mm}$ ).
- 1.1.4 The seemly specification of paper barrel(**can be designed by user's drawing**):
  - $\Phi 490\text{mm} \times 740\text{mm}$  (inner Dia.  $\times$  inner deepness), the packing weight of wire is 0~250Kg.
  - $\Phi 640\text{mm} \times 700\text{mm}$  (inner Dia.  $\times$  inner deepness), the packing weight of wire is 0~350Kg.
- 1.1.5 Straightener: the horizontal direction of 2 groups and the vertical direction of 2 groups, each group have 13 killing roller, the killing roller made by 608-2Z bearing.
- 1.1.6 Drum: Dia. is  $\Phi 500\text{mm}$ , horizontal installation.
- 1.1.7 Wire feeding mode: wire is wrapped on drum by belt.
- 1.1.8 Pay off mode: 22KW AC motor driving by inverter, constant tension and active feeding wire.
- 1.1.9 Pay-off bobbin outside Dia.:  $\Phi 800\text{mm}$  (We can design Pay-off machine according to customer's different bobbins).
- 1.1.10 The control part:
  - a) Using Delta PLC as the control center and Coolway display the data with touch panel.
  - b) AC motor drive with Inovance inverter.
  - c) All parameters and speed control with full digital adjustment not use potentiometer.
  - d) The main low voltage electrical components using Schneider, buttons and relays using IDEC.
  - e) The main pneumatic components are FESTO and made in German.
  - f) With WIFI for Remote assistance and **Aviation plug cabinet designed**

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1.1.11 Air pressure requirement:  $\geq 0.5$ MPa.

1.1.12 Installation Power: 35KW.

1.1.13 Area covered: 10000×2400×4300mm (Length \* width \* height), Dimensions of which equipment: 8000×2200×3800mm (Length \* width \* height).

1.1.14 Weight: about 5T.

Free spare parts:

- |                    |       |
|--------------------|-------|
| 1.Pass wire wheels | 3 pcs |
| 2.Relay:           | 1 pcs |
| 3.Straight pulleys | 4 pcs |
| 4.Motor belts      | 2 pcs |
| 5.Traverse wheel   | 1 pcs |

Others.

1.Direction: right equipment operation

2 Paint: Paint after rustproof production according to NEWLEAD standards or according to user's requirement.

3. The period of guarantee:

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12 months for mechanical part (excluding the consumables) after the shipment;

6 months for electrical parts after the shipment

Permanent maintenances (charge)

#### 4. Commissioning

A .Installation and debugging charge :Our company will arrange technicians to buyer's factory to help buyers to install machines and teach them how to produce the foam sheet& tubes. Two round-trip tickets ,hotel ,and food will be in buyer's account ,And the salary of 1000RMB per person per day (if they need to be quarantined locally, including the time of quarantine in your country and China)

B. The buyer supplies all the material for the test, such as Bobbin(Drum), gear oil, Lubricant oil, Dies, Raw Material, Air compressor, test equipment ,etc. are excluded.

C. The power supply, compressed air source and water source shall be connected to the points designated by the supplier near the equipment by the customer. The customer is responsible for fixing the equipment according to the layout, and is responsible for the wiring and grounding from the workshop power line to the electrical cabinet.

5. Maintenance: NEWLEAD offers long-distance mechanical support for free; if the engineers are needed to be in the buyer's company for maintenance, the buyer offers flight ticket (SHANGHAI), board and lodging.

6. Wooden pallets packing for shipping

#### **SPECAIL STATEMENT**

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**All information above are carefully checked, our company reserve explain right if any printing mistake or any misunderstanding.**

**Another: Sorry for noting no advanced notice for the techniques improvement or upgrade on the machine; Any change on the appearance or color, please refer to the real object.**

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