SENFENG
Cutting I Cladding I Cleaning I Welding I Bending I Automation

BDC2500 Panel Bender

Installation Guide

Jinan Sen... ...td.

Jinan Senfeng Laser Technology Co.,Ltd.

www.senfenglaser.com

Customer Information

Name：_____

Telephone：_____

Model：_____

Purchase Date：_____

Address：_____

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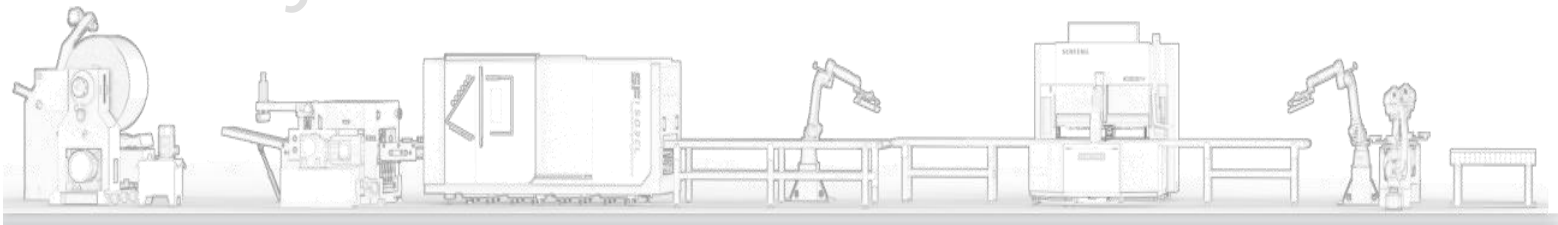

1 Safe Production

Panel bender is a high-speed and heavy-duty mechanical processing equipment. It is strictly prohibited to approach the equipment during operation. Otherwise, our company will not be responsible for any safety accidents.

1.1 Precautions

1. Operators must be trained by our company.
2. If there is a safety accident or equipment damage caused by operating the equipment without training, you will be responsible for the consequences.
3. Problems caused by not using consumables and auxiliary equipment with the specifications required by our company will not be covered by the warranty.
4. Our company has the right to refuse to install the equipment if the installation of the embedded foundation and ground pins does not meet the requirements.
5. Ensure that the installation environment is suitable to prevent the equipment from malfunctioning;
6. In order to ensure the stable and safe operation of the equipment, customers must pre-bury ground pins as required;

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I have been informed of the above requirements and agree to implement them.

Company seal: Customer service signature:

Signature of person in charge: Date:

2 Device Dimensions

Model	Dimensions (Length X Width X Height(mm))	Weight(T)	Power(kW)
BDC2500	5800*3100*3350	20	61

Determine the installation location according to the size of each unit and the foundation drawings

Note: Dimensions and bases may vary due to product updates. If you have any questions, please contact us in time.

3 Power Supply

1. Specifications: Three-phase five-wire system, 380V 50/60Hz. Capacity depends on the equipment configuration.
2. Quality: Three-phase imbalance <2.5%, line voltage fluctuation <5%. Single-phase 220V ±5%. It is recommended to use a voltage stabilizer to ensure stable input voltage for the machine. (See attachment for specifications)

3.1 Ground Protection

The machine should be grounded by either installing grounding rods and connecting them with the grounding wire on the machine's side or connecting the machine to the

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power supply's ground wire. The grounding resistance should be less than 4Ω.

4 Environment

The machine requires a well-ventilated environment with no dust, no corrosion, no leakage or no interference. The control unit, servo unit and display are vital components of the machine. It is important to avoid electromagnetic interference on the machine, such as from arc welding and discharge machining, which could disrupt the normal operation of the machine.

5 Foundation Installation

Ensure a level ground within ±5mm, capable of supporting 20+ tons. Eliminate large vibrations in the vicinity or install an aseismic trench. Do not use anti-vibration pads (for example: rubber pads, wood, and other soft materials) under the machine feet.

6 Crane

When lifting a small-tonnage integral bending machine, attention must be paid to the center of gravity to prevent tilting and collision. The lifting must be carried out strictly according to the designated lifting points. A test lift should be conducted before actual operation to ensure smoothness. It is strictly forbidden to use the following parts as lifting hooks: arm, electric box, control panel, left and right positioning blocks, mechanical protection devices.

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When moving a large-tonnage panel bender in a modular form, it is lifted and transported under the direction of professional personnel according to its components.

7 Lubricating Oil

The machine tool has an oil lubrication system, which requires about 10 liters of Great Wall No. 68 guide oil.

8 Safety

To prevent danger, please purchase protective fences to place around the equipment.

9 Grounding

Requirement: Ground resistance is not greater than 4 ohms

Steps:

Use 40mm-50mm diameter, 3mm wall thickness steel pipes or 4#-5# angle steel with a length of 2.5m. Drive the pointed end 3m deep into the ground. Have a minimum of two grounding electrodes per group. Increase the number and length of grounding electrodes if the local soil resistivity is high. Arrange the grounding electrodes in a straight line or circular pattern, spaced 3m-5m apart. Connect the top ends using flat or round steel, welded securely. Ensure strong and corrosion-resistant connections,

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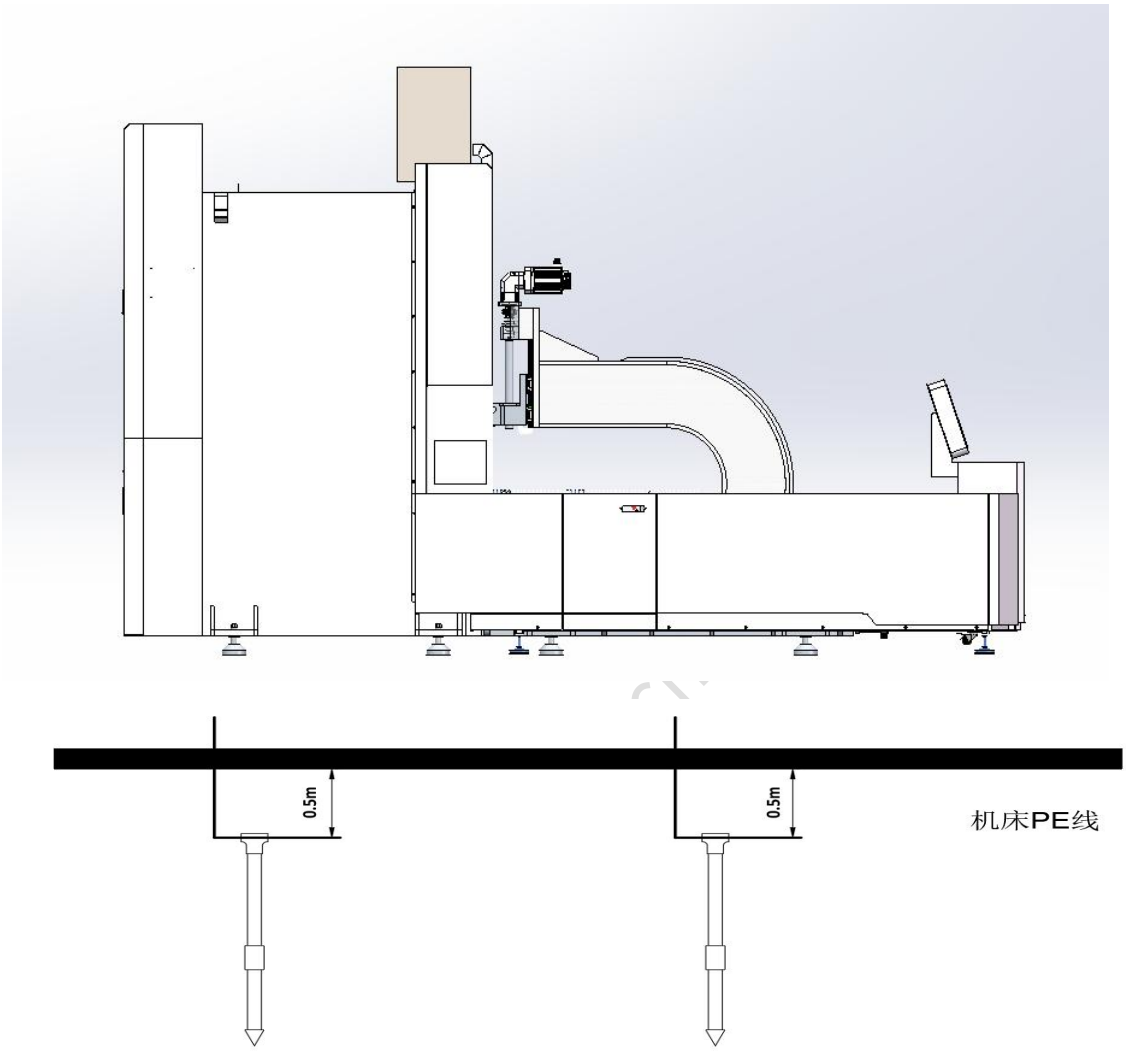
preferably using galvanized components for the buried section.



Grounding standard:

1. The exposed parts of the entire grounding system are connected reliably. The grounding wire specifications are correct. The paint is intact, and the signs are complete and eye-catching.
2. The number and location of connecting plates for temporarily connecting grounding wires meet the design requirements.
3. Test record: Use a ground resistance meter to measure and ensure that the ground

resistance is not greater than 4 ohms.

10 Gas Standard

Air:

A cylinder is used to confirm the position of the bent plate, which requires clean and dry air. (Maximum working pressure 0.6MPa)

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11 Installation List

No.	Items	Specifications	Unit	Quantity	Notes
1	Main power cable	35 mm^2	\	\	Optional according to equipment power
2	Tools	Allen wrench, adjustable wrench, torque wrench, frame level, etc.	\	1	For installation and commissioning of equipment
3	Debugging board	500mm*500mm	\	1	For positioning test of UD axis
4	Lubricating oil	No. 68 guide oil	L	5	For lubrication of each axis of machine tool
5	Regulated power supply	100KVA	\	\	Optional according to equipment power
6	Auxiliary gas	Please ensure there is no water or oil in the gas, and the output gas pressure is 0.3-0.6MPa	\	1	For upper press knife clamping and positioning of boards
7	Ground pin	3mm wall thickness steel pipe or 4#~5# angle steel, length 2.5m	\	4	For host machine
8	Foundation	Construction shall be carried out in strict accordance with the foundation drawings provided by our company			

Appendix 1 Confirmation of Installation Guide

Dear _____:

Thank you very much for choosing the panel bender manufactured by SENFENG. In order to ensure the safety and timely installation of the equipment, we kindly request that you prepare according to our "Installation Guide" before the equipment arrives. The specifics are as follows:

1. The equipment installation site must have good ventilation conditions, with no dust, no corrosion, no water leakage, and no strong interference;
2. Reserve safe passages around the placement location;
3. The specifications and quality of the power supply shall be prepared in accordance with the equipment usage requirements to ensure the safe and stable operation;
4. According to the grounding requirements, be sure to use 2 ground rods to drive vertically into the ground;
5. The flatness of the foundation table is ±5mm/3m;
6. Make a reservation for the hydraulic crane/crane for loading before the equipment arrives;
7. Prepare accessories according to the installation preparation list;

Please ensure the preparations and settings requested above are completed one week prior to the arrival of the equipment. If the failure to meet these requirements results in delay in delivery or faults after the completion of equipment installation and debugging, your company will bear the responsibility.

Thank you for your support! We look forward to progressing hand in hand with you!

Customer seal:

Date:

Jinan Senfeng Laser Technology Co.,Ltd

Appendix 2 Contact Us

Jinan Senfeng Laser Technology Co.,Ltd.

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