



BN Products-USA™

JMB-22

#1 Portable Rebar Bender

RE-BAR BENDER USER MANUAL



1. Bending Capacity

Bar Diameter	3/8 #3	1/2 #4	5/8 #5	3/4 #6	7/8 #7
Bar Qty	4	3	2	2	1

2. Bending Roller Selection

Bar Diameter	Center Roller	Moving Roller
7/8 #7	No.6 (4.75")	No.1 (2.17")
3/4 #6	No.4 (4.75")	No.1 (2.17")
5/8 #5	No.3 (3.75")	No.2 (3.12")
1/2 #4	No.2 (3.75")	No.4 (4.75")
3/8 #3	No.1 (2.17")	No.5 (5.31")

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MADE IN KOREA

Model : JMB-22

Thank you very much for purchasing our Reinforcing Bar Bender (JMB-22).

Please read this manual carefully to ensure safe use of the Bender.

Failure to comply with the instructions in this manual may lead to accident and injury. Therefore, make sure to operate the machine in compliance with the instructions.

We are not liable for any damage caused to the machine or injury to the operator resulting from unauthorized modification of the machine or the use of parts that are not genuine.



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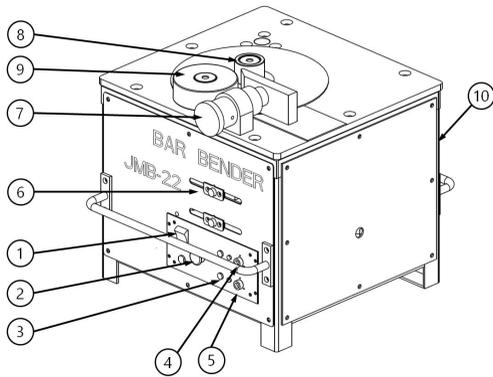
1. Basic Specifications and Performance

1-1 Specifications

Classification	JMB-22
Power Supply	Single Phase 115V / 60HZ
Current	12 Amp
Motor	2.2 kW
Bending Capacity	22mm (#7)
Bending Angle	1~180°
Bending Time	180° / 6sec.
Weight	102kg

1-2 Feature Identification

1. Power Switch
2. Emergency Switch
3. Operation Switch
4. Footing Switch I
5. Footing Switch II
6. Angle Adjustment Handle
7. Bar Adjustment Stopper
8. Center Roller
9. Moving Roller
10. Spring Tension Bolt



1-3. Simultaneous Bending Capacity and Number of Bars (refer to the front panel of the machine)

Bar Thickness Model	D-10 #3	D-13 #4	D-16 #5	D-19 #6	D-22 #7
JMB-22	4	3	2	2	1

2. Installation and Work Preparation

2-1 Installation

- (1) Install the machine on a level, even surface.
- (2) If the ground is not level, use an auxiliary base capable of supporting the bender rigidly.

2-2 Power Connection

- (1) Power cable conductor must be at least 5.5mm².
- (2) Power cable length must not exceed 50m.
<If it exceeds 50m, use a cable of 8mm² minimum.>

2-3 Work Preparation

- (1) Turn on the power switch. Set the Angle Adjustment at about 135°, and let the machine run idly for at least 3 minutes.
(Warming up should be at least 5 minutes in winter.)
- (2) Once warmed up, set the desired angle for bending.
- (3) Select the roller according to the thickness of the steel bar.

Bar Diameter	Center Roller	Moving Roller
7/8 #7	No.4 (4.75")	No.1 (2.17")
3/4 #6	No.4 (4.75")	No.1 (2.17")
5/8 #5	No.3 (3.75")	No.2 (3.12")
1/2 #4	No.2 (3.12")	No.4 (4.75")
3/8 #3	No.1 (2.17")	No.5 (5.91")

3. Periodic Check and Maintenance

Trouble	Inspection and Maintenance
Excessive noise	<ul style="list-style-type: none"> ① Check the precision of the reducing gear. ① Check for wear or damage of the gears in the gear box.
Bar angle cannot be adjusted	<ul style="list-style-type: none"> ① Remove foreign matter from the Angle Adjustment Slide. ① Check switch for ease of operation. Repair or replace as appropriate.
Does not rotate	<ul style="list-style-type: none"> ① Check Foot Switch connection. ① Check if Emergency Switch is pressed. ① Check gear connection. Take measures as necessary. ① If motor output power is reduced, replace carbon brush of motor.
Electric devices and wiring connection	<ul style="list-style-type: none"> ① Check connections from time to time. Fix wiring when necessary. ① Check switch operation. Remove foreign matter if necessary. ① Check wiring connections. Correct broken or damaged lines.
Clean-up	<ul style="list-style-type: none"> ① Clean the machine of dust and bar chips with a brush (do not use compressed air). ① Check for cracks or damage in mechanical parts. Replace or request after-service as necessary ① After the rainy season or after rain, pull off cover and dry machine completely. ① When soaked in water or exposed to rain, there is a danger of electric shock. Do not try to use the machine. Call for service.

4. Precautions

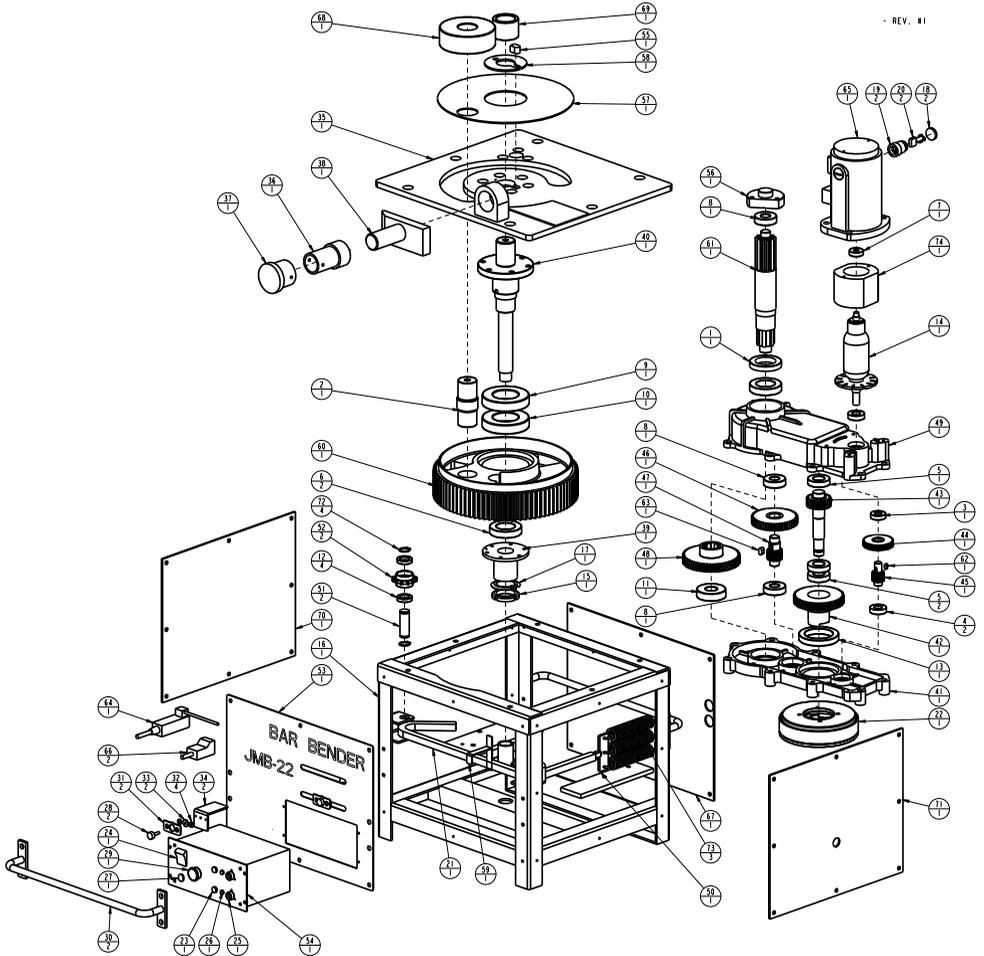
- (1) Do not exceed the machine's capacity for simultaneous bending. If exceeded, machine failure may result.
- (2) When bending re-bars while holding them, watch out for your fingers and prevent accidents.
- (3) Depending on the re-bar material, it may fracture during bending, resulting in accident. Keep your attention fully focused on the bending work.
- (4) Ensure that no persons or objects are within the radius of the bending re-bar .
- (5) Since this machine uses electric power, rain or water may cause an electricity leak. Keep in a dry place or cover with a waterproof film.
- (6) When moving the machine, check that the transportation handle is firmly fixed.

5. Repairs and Security

- (1) Replacing the carbon brush - Be sure to isolate the power plug from the power source. Check the carbon brush for wear when the machine is not in operation. If the carbon brush in the motor, which is subject to wear and tear, is worn, the motor will lose power or even stop until the power is next turned on. In such cases, the carbon brush(es) must be replaced.
- (2) On the motor inside the machine, unscrew the brush cap with a straight tip screwdriver, and remove the brush together with the spring (replace both of the brushes.)
- (3) When replacing the rotating roller or fixed roller, clean up with a brush.
- (4) Inspection and Security
 - Check that bolts and nuts are fully tightened from time to time.
 - Dry the machine sufficiently after the rainy season or rainfall, before operation.

- If the rotating roller jolts when returning to its original position, adjust it by unscrewing the spring tension adjustment bolt. If it returns too slowly, tighten the adjustment bolt.
- (5) When the power indicator lamp lights up after power input and power switch on, the machine is ready for operation. If the lamp is not lit, check the power cable connection. If the machine does not start up when the power lamp is lit, check the fuse or check the carbon brush in the motor for wear.
- (6) In the event of other troubles, please contact your nearest AVS Center.

6. Exploded View of the Machine



BAR BENDER PART LIST

REF NO	DESCRIPTION	Q'TY
1	Oil seal	1
2	Moving roller shaft	1
3	6002ZZ bearing	1
4	6003ZZ bearing	2
5	6005ZZ bearing	3
6	6008ZZ bearing	2
7	6200DD bearing	1
8	6204ZZ bearing	3
9	6211DD bearing	1
10	6211ZZ bearing	1
11	6305ZZ bearing	1
12	6804ZZ bearing	4
13	6912ZZ bearing	1
14	Amature	1
15	AN08 lock nut	1
16	Frame body	1
17	AN08 washer	1
18	Carbon cap	2
19	Carbon Holder	2
20	Barbon brush	2
21	Chain	1
22	Clutch Assembly	1
23	Start button	1
24	On/Off Switch	1
25	Foot S/W connector	1
26	LED light	1
27	Fuse	1
28	Degree knob	2
29	Emergency Switch	1
30	Handle	2
31	Degree indicator	2
32	Degree indicator washer	4
33	Degree indicator washer	2
34	Degree indicator bracket	2
35	Top plate	1
36	Adjustable nut	1
37	Modulator handle	1
38	Bar stopper	1
39	Bearing hausing	1
40	Center shaft	1
41	Gear box bottom housing	1

REF NO	DESCRIPTION	Q'TY
42	7th gear (Clutch gear)	1
43	6th gear (Clutch shaft gear)	1
44	9th gear (69phi gear)	1
45	8th gear (28phi gear)	1
46	5th gear (98phi gear)	1
47	4th gear (34phi gear)	1
48	3rd gear (123 phi gear)	1
49	Gear box top housing	1
50	Spring holder	1
51	Shaft for chain gear	2
52	Chain sprocket	2
53	Front pannel	1
54	Control box assembly	1
55	Roller stoper (14 key)	1
56	Bearing hausing	1
57	Top dust cover	1
58	Top dust cover	1
59	Sensor detector	1
60	LARGE GEAR (1st gear)	1
61	2nd GEAR (Center Shaft G	1
62	KEY 6*15*2R	1
63	KEY 8*15*2R	1
64	Limit switch	1
65	Motor housing	1
66	Angle sensor	2
67	Rear cover	1
68	Roller #5	1
68-4	Roller #4	1
68-3	Roller #3	1
68-2	Roller #2	1
69	Roller #1	1
70	Left cover	1
71	Right cover	1
72	Snap ring	4
73	Tension spring	3
74	Stator	1
	Foot switch	2



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PRODUCT : BN Products-USA, LLC..

MODEL : JMB-22 (RE-BAR BENDER)

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