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THE HOME OF REBAR HANDLING MACHINES

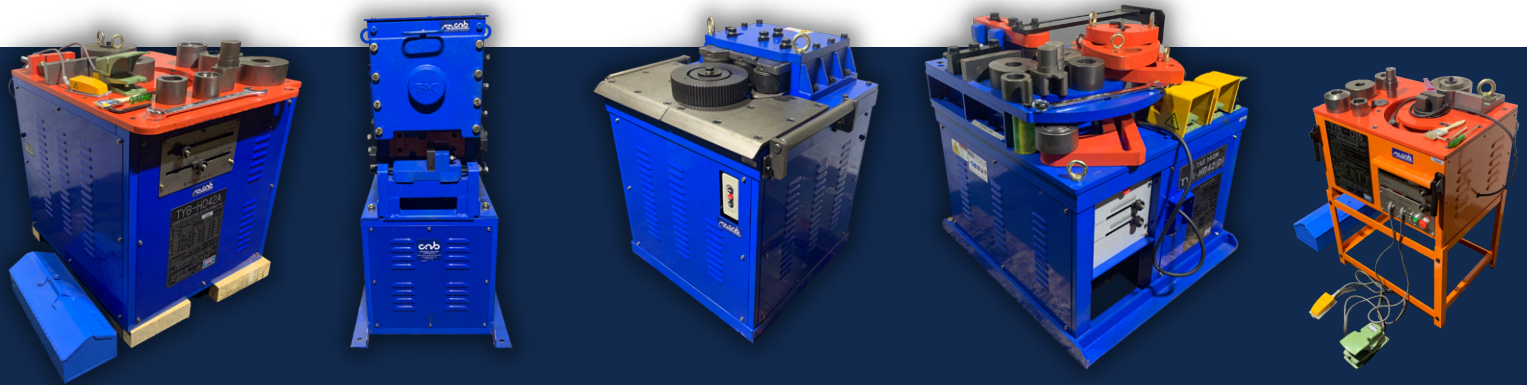


# MANUAL TYB-HD42A

Contact our after sales department for any questions or concerns

[www.cnbmachinery.com](http://www.cnbmachinery.com)    [cnbsales@cnbmachinery.com](mailto:cnbsales@cnbmachinery.com)    (02) 8824-6391 / 6386





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## TYB-HD42A

### Heavy Duty Bender

#### Machine Specification

**Bending Angle**

180° / 5 seconds

**Bending Capacity**

10-36mm rebar (0.375-1.42 inches)

**Motor**

5.5kW (7.5HP)

**Power Requirements**

3 phase, 220V-230V 60HZ (factory set up)  
380V, 440V (customizable per request)

**Weight**

710kg / 1,562lb

**Dimension**

(L) 880mm (W) 860mm (H) 750mm

#### Number of rebars the machine can bend at once

**Diameter of Rebar**

32-36mm

22-25mm

16-19mm

13mm

10mm

**No. of Rebars**

1 rebar

2 rebars

3 rebars

4 rebars

6 rebars



## Maximum Bending Angle of Rebars

Diameter of Rebar	32-36mm	22-25mm	16-19mm	13mm	10mm
Maximum Angle of Bend	180°	180°	180°	180°	180°

### Exchange Roller and R-Jig Specification

Diameter of Rebar	Fixed Roller	Rotating Roller
10-13mm	Jig	218mm
16mm	88mm	218mm
20mm	118mm	218mm
25mm	158mm	158mm
28mm	174mm	118mm
32-36mm	218mm	82mm

### Power Cable Requirements

Power Supply / Power	Standard Sizes / Length	Excess Length
220-230V, 3-phase, 10HP, 7.5KW, (60hz)	#8 AWG / 8mm wires, Max length from Main Circuit Breaker 50-60 Amps is 20 meters	When the wire exceeds 30 meters, replace the wires to #6 AWG / 14mm wires with individual breakers

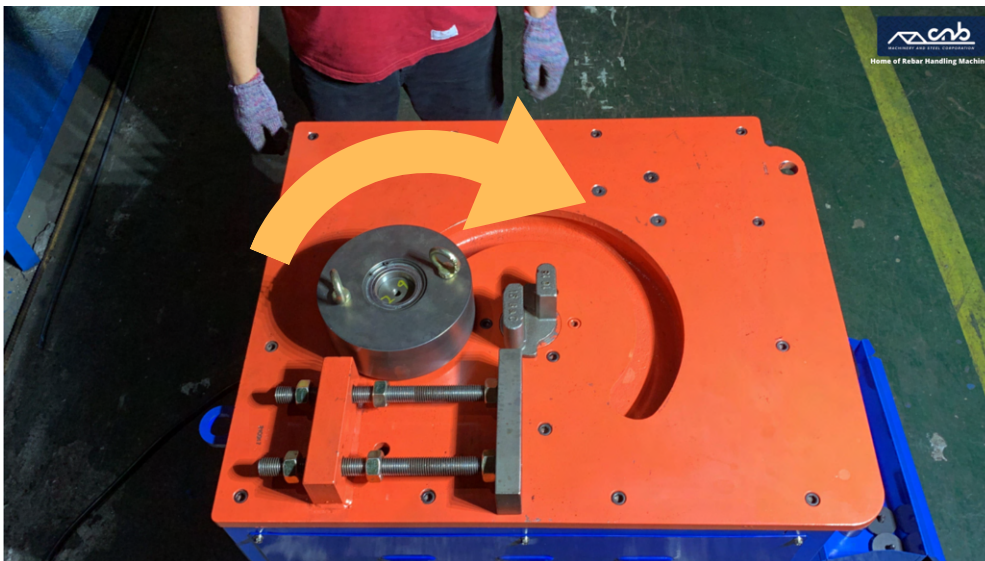


## Power Supply Guidelines



Make sure to check that the power supply is stable between 220-230V.  
The machine's power supply must be tapped directly from the main circuit breaker.  
We recommend that you would use a thicker power cable to avoid power fluctuation.  
The power supply can be modified either to 380V or 440V upon request.

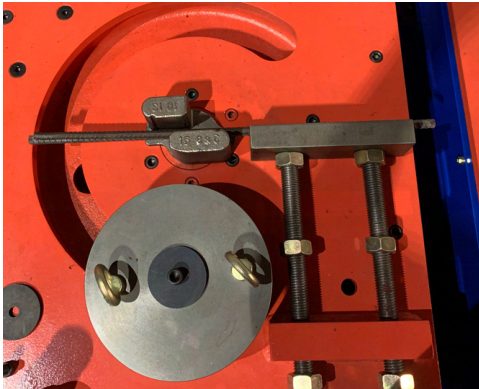
## Proper Phasing of Wires to the Power Source



Before loading the machine with rebars, check if all 3 wires are phased correctly.  
If the wires are correctly phased, the arm of the machine will move to the right.  
If the wires are incorrectly phased, the arm of the machine will move to the left.  
Simply re-arrange the order of the wires, and check if the arm moves to the right.



## Proper Rebar Alignment



Align the bar stopper, collar jig, and rollers to the rebar for it to be secured and properly bent.

## ON and OFF switch



Activate the machine by twisting the ON and OFF button clockwise.

## Emergency Switch Button Guidelines



Press the **Emergency Switch Button** when you encounter something unusual with the machine for your safety. To activate the machine again, simply **twist** the **Emergency Switch Button** clockwise. Do not forget to release the button before using the machine as the machine will not operate if unreleased.

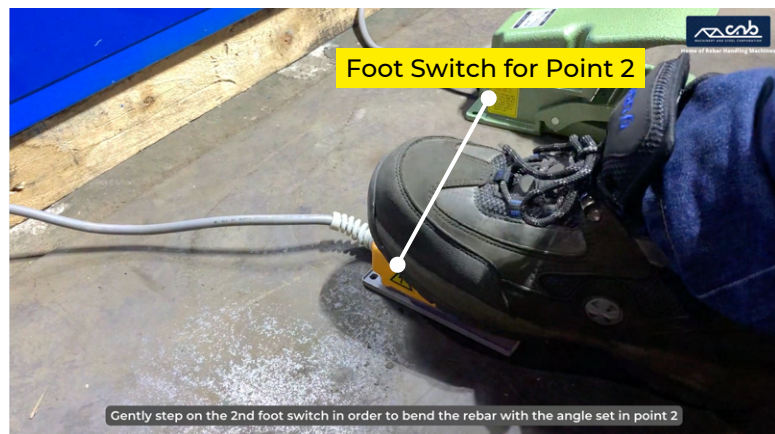


## Point 1 and Point 2 Guidelines



The angles found in the protractor plate are just references for Point 1 and 2. Operators must undergo trial and error by adjusting the angle setting knobs until the **right angle is bent**. Bending the rebar into 2 angles simultaneously like stirrups is possible by setting Point 1 into 180° and Point 2 into 90°.

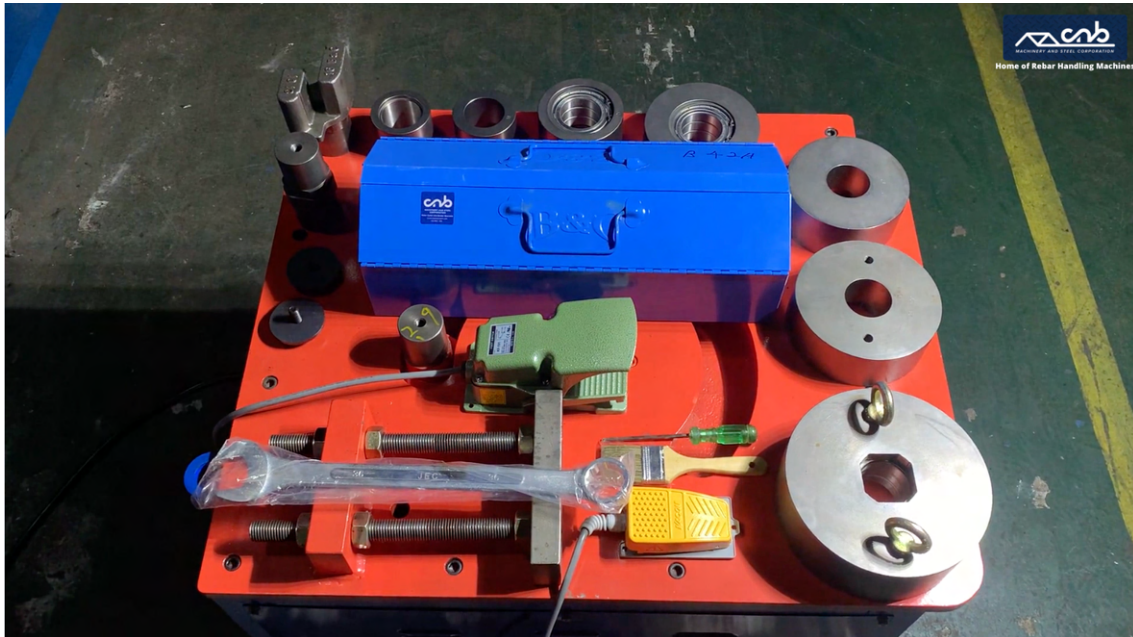
## Foot Switch Usage



The **green** foot switch located on the **left** is used for the **bending of rebar** with the angle of **Point 1**. The **yellow** foot switch located on the **right** is used for the bending of rebar with the angle of **Point 2**.

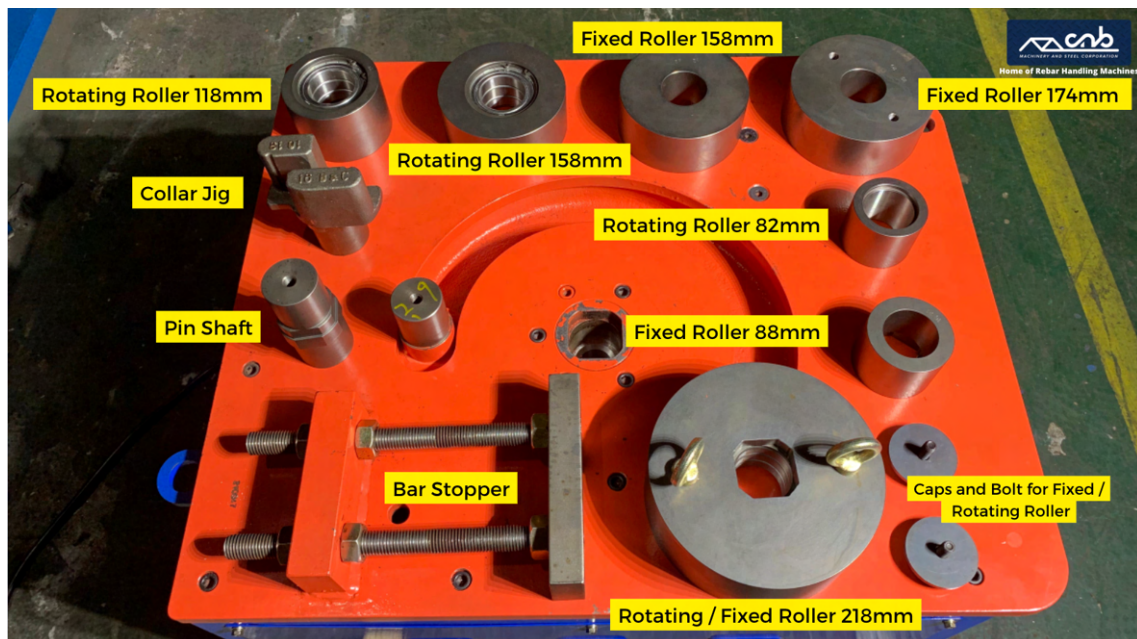


## Complete Toolbox and its content



Our TYB-HD42A machine comes with a complete toolbox and rollers. The toolbox contains, a screw driver, wrench, brush, 2 footswitches a pin shaft, collar jig and 7 rollers.

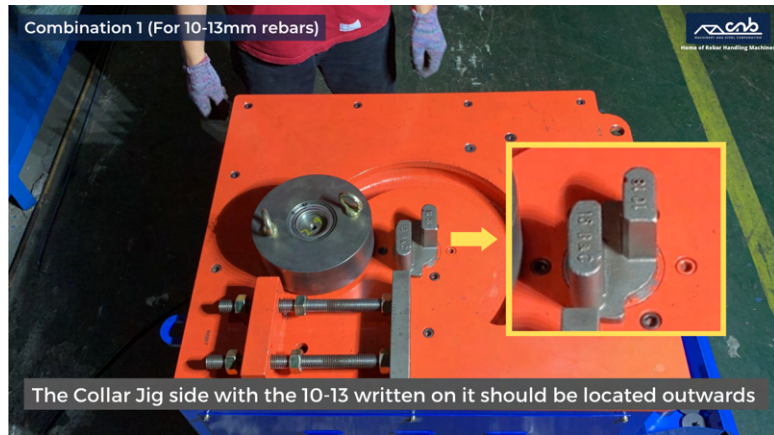
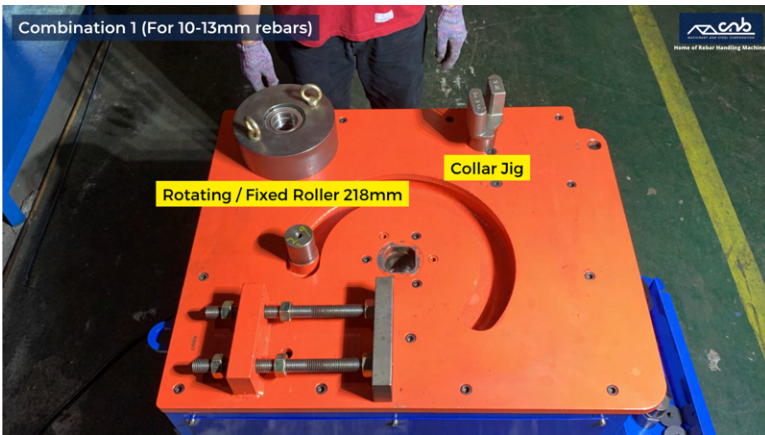
## Rollers for Bending



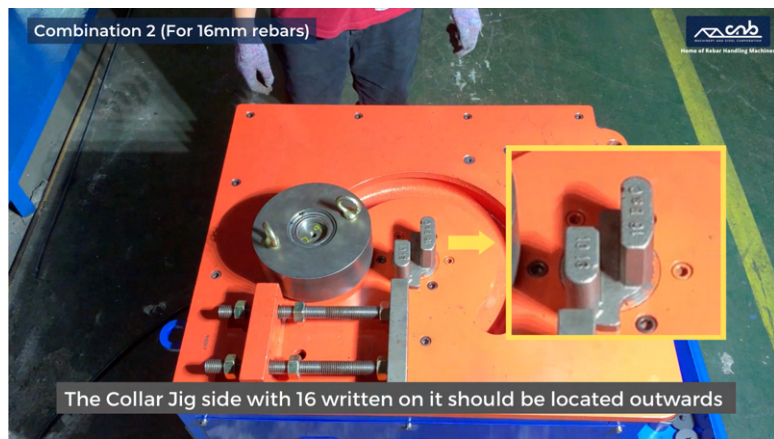
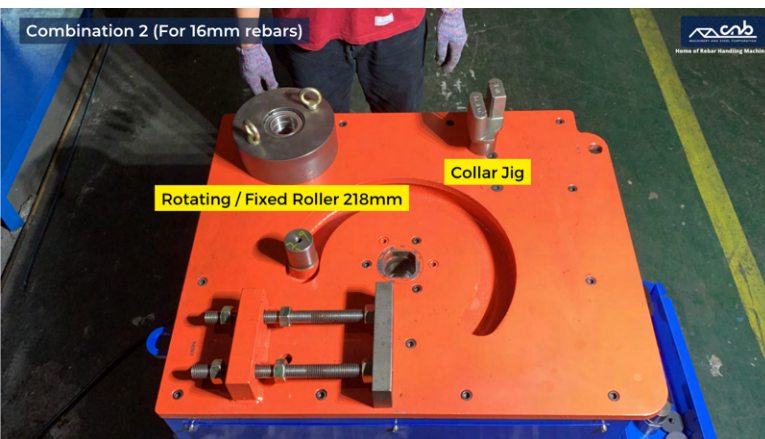
The Fixed and Rotating Rollers and Collar Jig are for normal bending process for rebars that are between 10-36mm diameters.



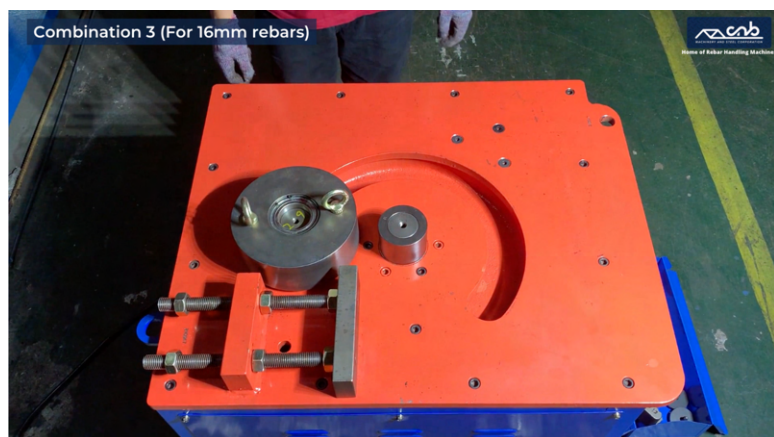
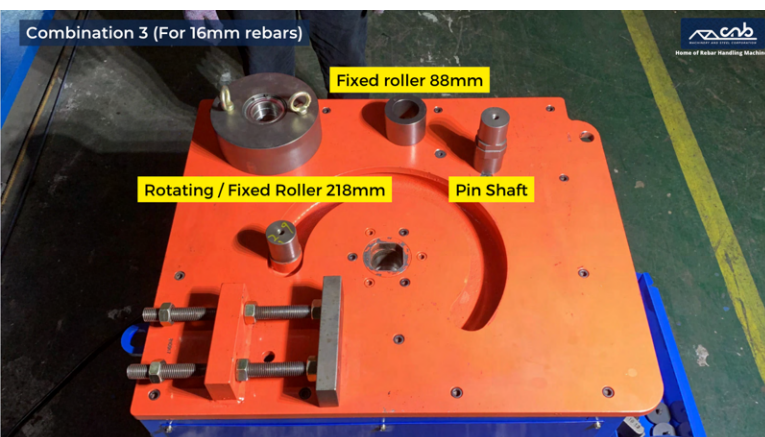
## Combination for the bending of 10-12mm rebars



## Combination for the bending of 16mm rebars

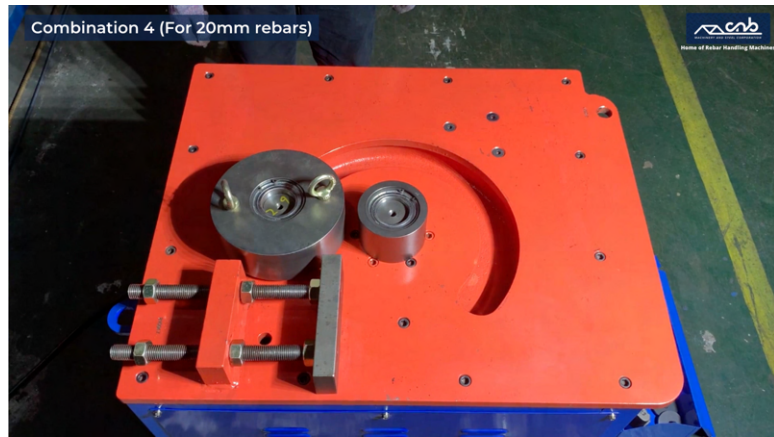
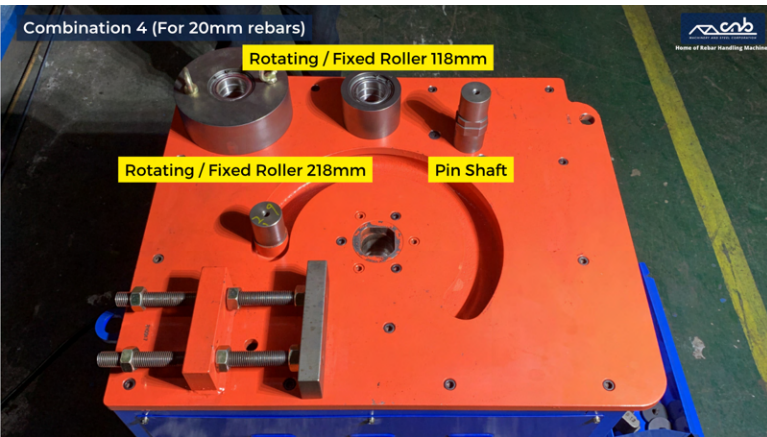


## Combination for the bending of 16mm rebars (2nd way)

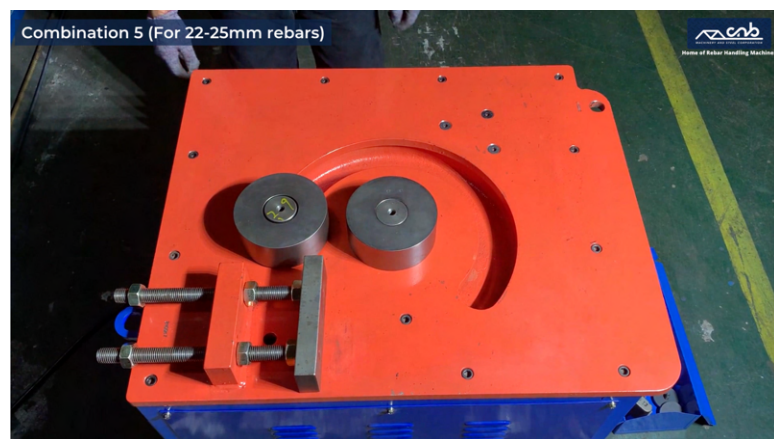
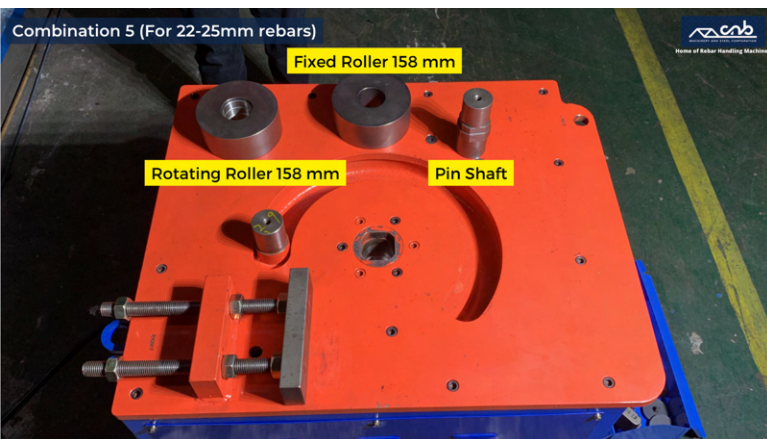




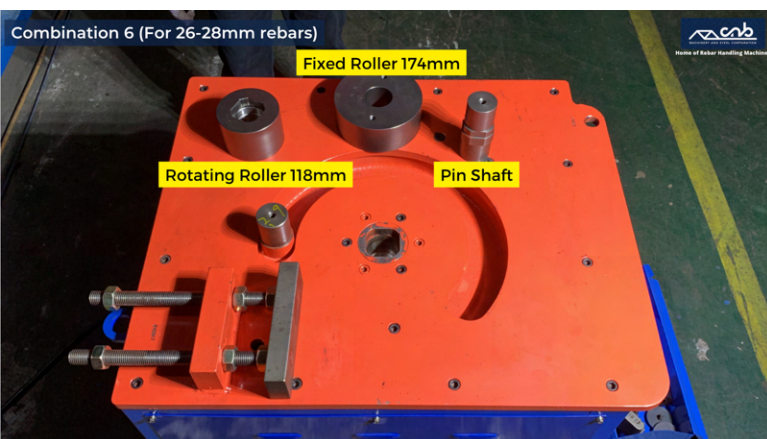
## Combination for the bending of 20mm rebars



## Combination for the bending of 22-25mm rebars

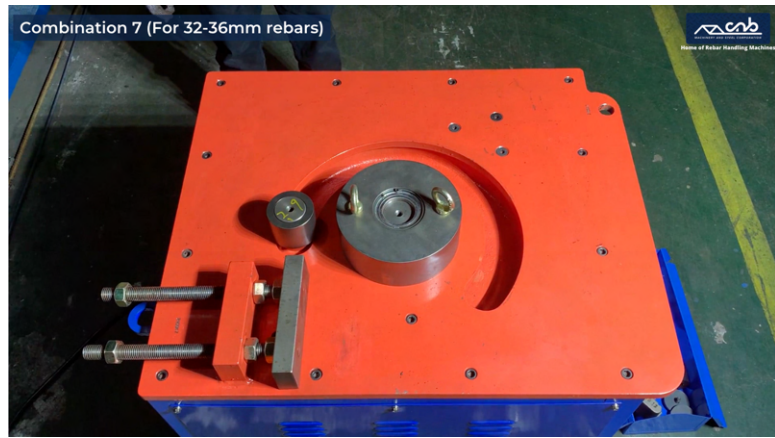
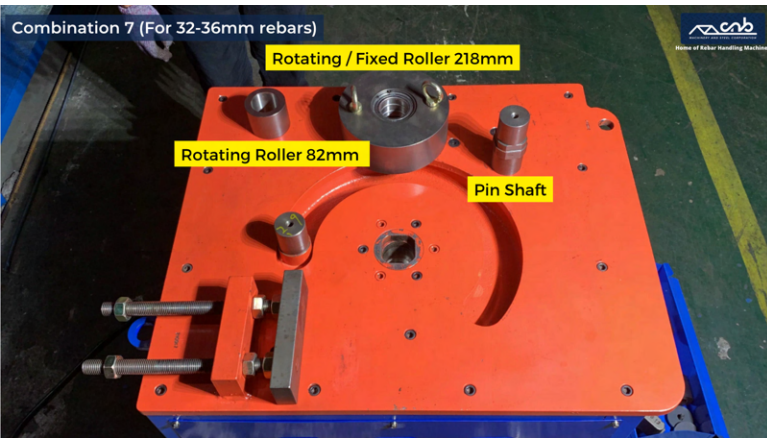


## Combination for the bending of 26-28mm rebars





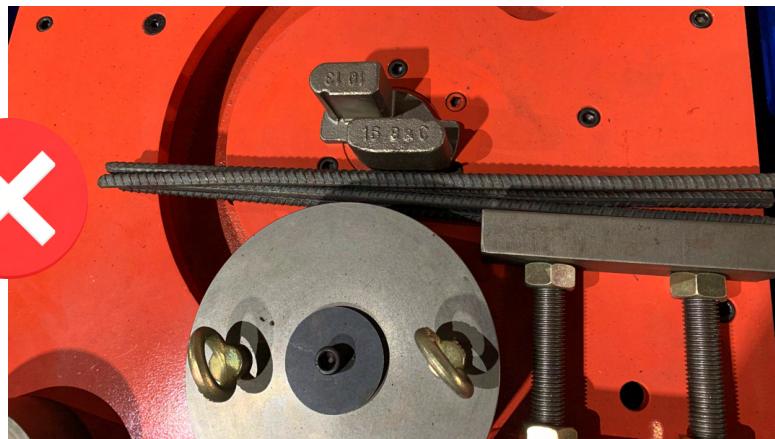
## Combination for the bending of 32-36mm rebars



## Things to Avoid



**DO NOT** overload the collar jig or roller more than the number of rebars indicated in the instructions as it will cause the collar jig or rollers to break which can end up hurting the machine operator as well.



**DO NOT** place the rebars between the roller and collar jig when bending 10-16mm rebars. This will add pressure to the collar jig and will ultimately break the collar jig.

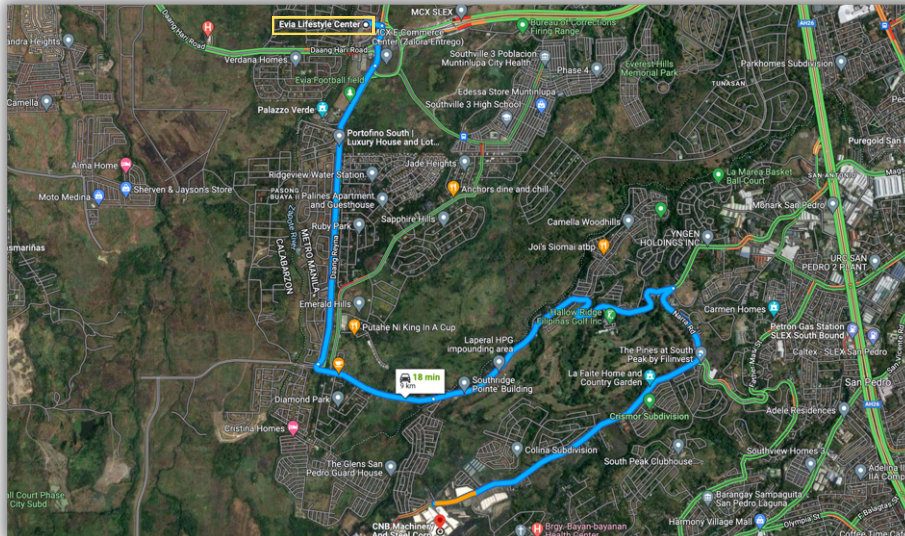


**DO NOT** step on both footswitches at the same time as it will cause the machine to malfunction. It may cause electrical and mechanical damage to the machine.

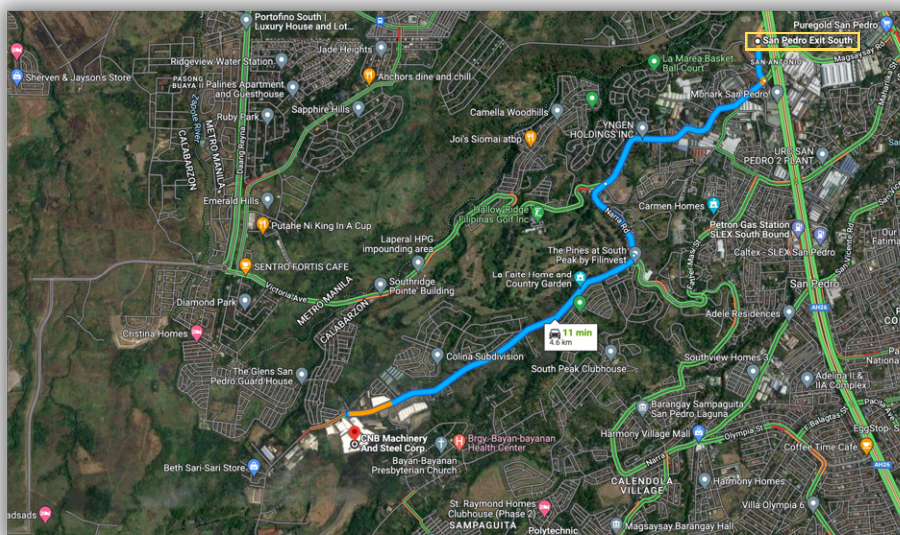


# THANK YOU, AND WE LOOK FORWARD TO BE PARTNERS WITH YOU

## Route from Evia Lifestyle Center



## Route from San Pedro Exit South

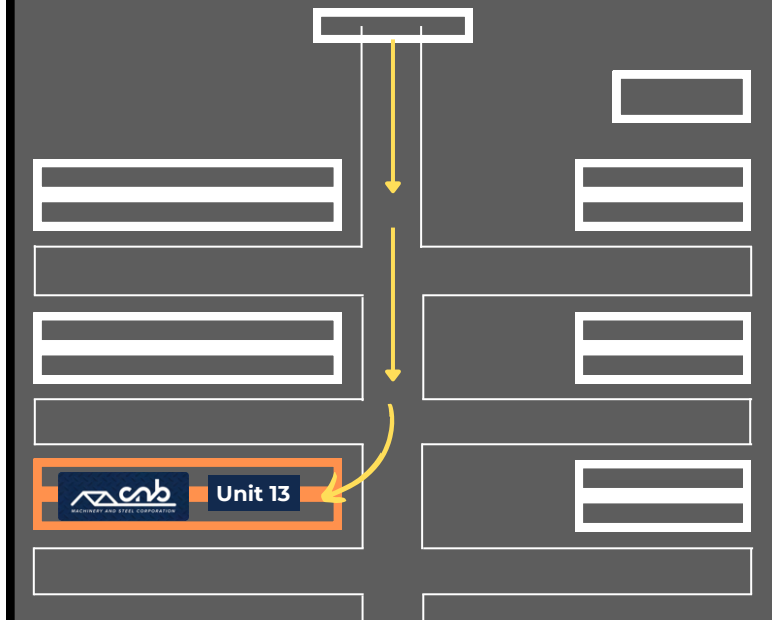


SKETCH OF COMPOUND

## Entrance of the Industrial Compound



## GEOLAND INDUSTRIAL COMPOUND ENTRANCE



## CNB MACHINERY AND STEEL CORPORATION

Unit #13 Geoland Industrial Compound 7760  
 Narra Road Barangay San Antonio San Pedro Laguna  
 TEL: (02) 8824-6386/8824-6389/8824-6346/8824-6391  
 FAX: (02) 8857-2346  
 E-mail: cnbsales@cnbmachinery.com  
 Website: www.cnbmachinery.com

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