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THE HOME OF REBAR HANDLING MACHINES

HD4

MANUAL TYB-HD42D

Contact our after sales department for any questions or concerns







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TYB-HD42D

Heavy Duty Bender

Machine Specification

Bending Angle	180° / 5 seconds
Bending Capacity	10-42mm rebar (0.375-1.65 inches)
Motor	7.5kW (10HP)
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	36-42mm	28-36mm	25mm	20mm	16mm	13mm	10mm
No. of Rebars	1 rebar	1 rebar	1 rebar	2 rebars	3 rebars	4 rebars	6 rebars



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Maximum Bending Angle of Rebars

Diameter of Rebar	36-42mm	28-36mm	25mm	20mm	16mm	13mm	10mm		
Maximum Angle of Bend	90°	180°	180°	180°	180°	180°	180°		
Exchange Roller and R-Jig Specification									
Diameter of Rebar Fixed Roller Rotating Rol			er						
St	tirrup		Jig	J					
10-13mm 68mm									
16mm			88mm						
20mm 118mm									
25mm			158mm			100mm			
28mm			168mm						
32-36mm 218mm									
Ove	Over 36mm R-JIG								
Power Cable Requirements									
Power Su	Power Supply / Power Standard Sizes / Length			E	Excess Length				
220-230V, 3-phas	#8 AWG / 8mm wires, Max length from 220-230V, 3-phase, 10HP, 7.5KW, (60hz) Main Circuit Breaker 50-60 Amps is 20 meters wires with individual break				0 meters, VG / 14mm reakers				



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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**.



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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 buttons





Activate the machine by pressing the ON button found at the right side of the machine. Reset or shut the machine down by pushing the OFF button

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°.



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Emergency Switch Usage



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.

Foot Switch Usage







The 1st yellow foot switch located on the left is used for the bending of rebar with the angle of Point 1. The 2nd yellow foot switch located on the right is used to return the roller back to its starting point in the case of a mistake or for safety. The green foot switch is used for the bending of rebar with the angle of Point 2.



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L-Bracket and R-Jigs



The L-Bracket and R-Jigs are used for special bending requirements for bigger radius capacity for rebars between 36-42mm diameter.

The TYB-HD42D comes with R-Jigs. The **1st R-Jig** is for **150/200mm radius**. The **2nd R-Jig** is for **250/300mm radius**. The **3rd R-Jig** is for **350/400mm radius**.

I-Bracket and Rollers



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



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R-Jig Combination Guidelines 150/200 Radius



R-Jig Combination Guidelines 250/300 Radius





R-Jig Combination Guidelines 350/400 Radius





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I- Bracket and Collar Jig "10 13" Side



I- Bracket and Collar Jig "16" Side



I - Bracket and Pin Shaft w Fixed Roller 68mm





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I-Bracket and Pin Shaft w Fixed Roller 88mm



I-Bracket and Pin Shaft w Fixed Roller 118mm



I-Bracket and Pin Shaft w Fixed Roller 158mm





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I-Bracket and Pin Shaft w Fixed Roller 168mm



I-Bracket and Pin Shaft w Fixed Roller 218mm





Things to Avoid







DO NOT press on the yellow foot switch and on AVOID overloading rebars as it may cause the the green foot switch at the same time as it may cause electrical and mechanical damage to the machine. Wait until the main arm has returned to its starting point.

rollers or collar jigs to break and may injure the operator. FOLLOW the maximum number of rebars allowed in the collar jig/rollers.

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

Route from Evia Lifestyle Center



Route from San Pedro Exit South



Entrance of the Industrial Compound





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