#P064

MPB-2SH ½" to 2"

SWG series



## HYDRAULIC PIPE BENDER

## USER'S GUIDE



## Thank you for choosing Hafco Hydraulic Pipe Bender!

- 1 \ When you received the Bender
  - A Firstly, checking the type No. is correct as what you ordered;
  - B Counting and check the parts in the package according to the packing list
  - C Check all of the parts are in good condition;

Packing List

Type		SWG-2A		SWG-3B		SWG-4D	
No.	Name	Size	QTY	Size	QTY	Size	QTY
1	Body	2"	1	3"	1	4"	1
2	Upper swing plate & Bottom swing plate	2"	2	3"	2	4"	2
3	Bending die	1/2"-2"	6	1/2"-3"	8	1/2"-4"	9
4	Return wheel	2"	2	3"	2	4"	2
5	Bolt	M12x25	4	M14x30	4	M16x40	4
6	Handle	2"	1	3"	1	4"	1
7	User's guide	2"	1	3"	1	4"	1
8	Seal bag	2"	1	3"	1	4"	1

Packing List of Seal Bag

Туре		SWG-2A		SWG-3B		SWG-4D	
No.	Name	Size	QTY	Size	QTY	Size	QTY
1	YX seal	D16	2	D16	2	D16	2
2	YX seal	D28	1	D28	1	D40	1
3	O seal	D16	1	D16	1	D16	1
4	O seal	D28	1	D28	1	-	-

D Reading this user's guide carefully before use the Bender.

### 2. SWG series hydraulic Pipe Bender can be used to bend

welded steel pipe, low pressure - liquid transportation welded steel pipe and general-purpose steel pipe under normal temperature, It cannot be used for bending thin thickness wall pipe, nonferrous metal pipe and those steel pipes that their outside diameters are unmeet to the dies of the bender.

### 3. Specification

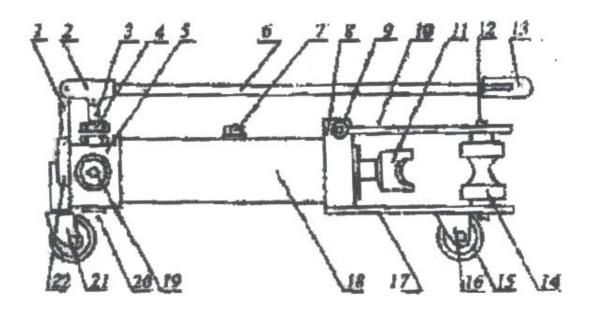
TEM	TY	(PE UNIT	SWG-2A	SWG-3B	SWG-4D	
MAX.	Working pressure	Mpa	44	59	62	
Unlo	ading Pressure	Mpa	48	73	73	
Max	. Working Load	KN	88	88 195		
Max.	perating Stroke	mm	250	320	420	
Bending Pipe O. D.		mm	Ф21. 3-Ф60, 0	Ф21. 3-Ф88. 5	Ф21. 3-Ф	
Capac	Pine Wall	mm	2. 75-5. 00	2. 75-6. 00	3. 50-7. 00	
Oil Tank		L	1	1.8	2.5	
	Weight		58	58 120		
Anı	Angle of Bending		π /2≤a< π	π /2≤a< π	π /2≤a< π	
	Oil No.		N15	N15	N15	
Max.	Operation Force	¥	≤490	≤490	≤490	
Curvature Radius		mm	4D	4D	4D	
Series of O.D.	Low Pressure liquid Transportation Welding Steel Pi		Ф21. 3 Ф26. 8 Ф33. 5 Ф42. 3 Ф48. 0 Ф60. 0	Ф21. 3 Ф26. 8 Ф33. 5 Ф42. 3 Ф48. 0 Ф60. 0 Ф75. 5 Ф88. 5	Ф21. 3 Ф26. 8 Ф33. 5 Ф42. 3 Ф48. 0 Ф60. 0 Ф75. 5 Ф88. 5	
	Steel Pipe	mm			Ф108.0	

#### 7. OPERATING INSTRUCTIONS

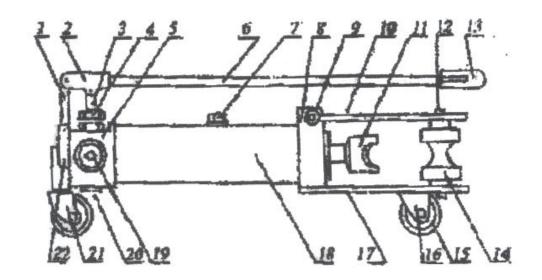
- A. Tighten the Valve (part 19) clockwise.
- B. Loosen the Oil breather on the ram assembly (part 7)
- C. Lift up the upper swing plate (part 10).
- D. Install selected bending die ( part 11 ), and both return wheels ( part 14 ) with pins ( part 12 )
- E. Oil the selected die (part 11), return wheels (part 14) and bending area of pipe to be bent (workpiece) with Lubrication.
- F. Load the workpiece and turn around both return wheels (part 14) to get their correct groove to face the workpiece
- G. Lower the upper swing plate (part 10). Ensuring it locates on pins (part 12)
- H. With the handle (part 6) in the Left Pump assemble (Low pressure) Lift and lower handle (part 6) and pump until ram starts to bend workpiece.
- I. Relocate the handle (part 6) into the Right Pump assembly and continue bending until bend required.
- F. Loosen the valve (part 19) counter-clockwise.

The main ram will be return.

- G. Lift up upper swing plate (part 10).
- H. Remove workpiece



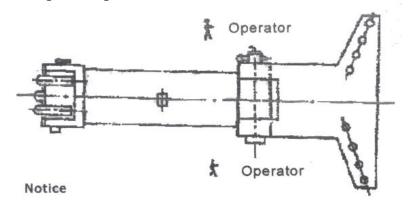
# **Parts**



- 1. Pulling plate
- 3. piston pump
- 5. pump body
- 7. oil filling port
- 9. swing plate pin
- 11. bending die
- 13. handle cover
- 15. caster
- 17. bottom swing plate
- 19. on-off
- 21. front caster holder

- 2. handle connecting sheath
- 4. pump cap
- 6. handle bar
- 8. oil tank bottom
- 10. upper swing plate
- 12. return wheel pin
- 14. return wheel
- 16. rear caster holder
  - 18. oil tank
  - 20. oil filter cap
  - 22. bottom plate

#### 5. Operator position



#### 6. Notice

#### A. O.D. of pipe and relevant wall thickness

Ф21.3	Ф26.8	Ф33.5	Ф42.3	Ф48.0	Ф 60.0	Ф75.5	Ф 88.5	Ф 108.0
2.75	2.75	3.25	3.25	3.5	3.5	3.75	4	4.5

# Pipe with wall thickness thinner than the above chart pipe are called thinthickness wall pipe

If their wall thickness is less than above mentioned relevant wall thickness and you may have trouble bending these.

- # Choose correct bending die according to outside diameter of bended pipe.
- # The contact area between bended pipe and both return wheel must be slippery and oiled with lubrication.
- # Welding line of welding pipe should not be situated the position of outside or inside of bended area but on top or bottom.
- # The position must be correct and symmetric when installing two pcs of return wheels ( part 14 )
- # Use clean oil .Clean oil filter cap regularly.
- # Don't use the Bender in the place where acid and other corrosive substances are stored.
- # The overload pressure has been adjusted before delivery , don't adjust it.
- # Tighten the plug on the oil filling port (part 7) after use.

NOTES		