

PIPELINEMAN

PMCB BENDING MACHINE

Bending range	6 inch / 56 inch
Hyd system pressure	10 mpa / 25 mpa
Operating weight	6500 kg / 84000 kg



INTRODUCTION

◇Hydraulic controls give one operator complete command of all machine operations.

◇Hydraulically driven winch moves the pipe through the machine moves easily on contoured rollers.

◇Conversion to another pipe size within the machine range is made simply by fitting an alternative bending set.

◇The machine frame is constructed from high strength steel to give long life without fatigue failure.

◇Powered by Cummins turbo diesel water-cooled diesel engine with electric start and emergency shutdown.

◇Large capacity fuel and hydraulic tanks with cooling baffles.

◇Murphy control panel with electric start , throttle control , oil pressure , tachometer and hour meter.

◇Fully mobile with rubber tires or steel tracks with a hydraulic towing tongue which can be raised and lowered when connecting to a tow tractor.

◇Danfoss or Parker Seal-Lock hydraulic system prevents leaks.

◇Indicator rod for bend measurement.



GENERAL SPECIFICATIONS

Model	PMCB0620	PMCB1630	PMCB2236	PMCB2840	PMCB3648	PMCB4656
Working range	6-20 inch	16-30 inch	22-36 inch	28-40 inch	36-48 inch	46-56 inch
ENGINE						
Type	4BTA3.9-C80	4BTA3.9-C100	6BTA5.9-C150	6BTA5.9-C180	6CTA8.3-C215	6CTA8.3-C260
Fuel	diesel oil	diesel oil	diesel oil	diesel oil	diesel oil	diesel oil
No. of cylinders	4	4	6	6	6	6
Configuration	In-line engine	In-line engine	In-line engine	In-line engine	In-line engine	In-line engine
Displacement	3.9L	3.9L	5.9L	5.9L	8.3L	8.3L
Cooling	Water	Water	Water	Water	Water	Water
Power	60KW	74KW	110KW	132KW	160KW	194KW
Engine speed	2200 rpm	2200 rpm	2200 rpm	2200 rpm	2200 rpm	2200 rpm
HYDRAULIC SYSTEM						
Type of pump	Gear pump	Gear pump	Axial piston pump	Axial piston pump	Axial piston pump	Axial piston pump
No. of pumps	1	1	1	1	1	1
Operating pressure	21Mpa	21Mpa	21Mpa	21Mpa	21Mpa	21Mpa
Flow	73.6 L	110.4 L	208 L	220 L	309 L	424.6 L
Tank volume	200 L	300 L	400 L	460 L	760 L	1100 L
WEIGHT AND OVERSIZE						
Weight	6.5T	19T	40T	48T	60T	80T
Height	1760mm	2700mm	2800mm	3000mm	3300mm	3600mm
Length	4500mm	6500mm	8500mm	8800mm	9600mm	9000mm
Width	1800mm	2700mm	3000mm	3300mm	3350mm	2300mm



BENDING DATA



Bending Machine PMCB0620

Outside pipe diameter		Max.wall thickness (mm)					Bending radius	Recommended radius per 12m pipe
Inches	mm	X52	X60	X65	X70	X80		
6	168	60.32	60.32	60.32	60.32	60.32	5	106.00
8	219	60.32	60.32	60.32	57.15	50.8	6	93.00
10	273	60.32	53.97	50.8	47.62	41.25	7	80.00
12	324	55.57	47.62	44.45	41.25	33.32	8	65.00
14	356	44.45	41.25	37.31	34.92	26.97	12	45.50
16	406	36.52	30.17	26.97	25.4	19.05	14	39.00
18	457	26.97	22.22	19.05	17.47	14.27	21	26.00
20	508	20.6	15.88	14.27	12.70	11.91	25	19.50

Bending Machine PMCB1630

Outside pipe diameter		Max. wall thickness (mm)					Bending radius	Recommended radius per 12m pipe
Inches	mm	X52	X60	X65	X70	X80		
16	406	50.8	50.8	50.8	50.8	50.8	11	40.00
18	457	50.8	50.8	50.8	50.8	49.2	15	30.00
20	508	50.8	50.8	50.8	46	41.2	19	24.00
22	559	50.8	46	41.2	37.3	33.3	22	21.50
24	610	41.2	37.3	34.9	30.1	25.4	23	20.00
26	660	34.9	31.75	28.5	25.4	20.6	25	19.00
28	711	28.5	25.4	22.2	20.6	17.4	26	17.50
30	762	25.4	22.2	19.05	17.4	15.8	30	16.00

Bending Machine PMCB2236

Outside pipe diameter		Max. wall thickness (mm)					Bending radius	Recommended radius per 12m pipe
Inches	mm	X52	X60	X65	X70	X80		
22	559	50.8	50.8	50.8	50.8	50.8	22	21.50
24	610	50.8	50.8	50.8	50.8	50.8	23	20.00
26	660	50.8	50.8	50.8	50.8	50.8	25	18.50
28	711	50.8	50.8	50.8	50.8	44.45	26.5	17.50
30	762	50.8	50.8	50.8	44.45	36.5	28	16.00
32	813	50.8	44.45	39.6	36.5	30.1	29	15.50
34	864	44.45	38.1	34.9	30.1	25.4	31	14.50
36	914	34.9	31.75	28.5	25.4	22.2	35	13.50

Bending Machine PMCB2840

Outside pipe diameter		Max. wall thickness (mm)					Bending radius	Recommended radius per 12m pipe
Inches	mm	X52	X60	X65	X70	X80		
28	711	50.8	50.8	50.8	50.8	50.8	26.5	17.50
30	762	50.8	50.8	50.8	50.8	50.8	28	16.00
32	813	50.8	50.8	50.8	50.8	50.8	29	15.50
34	864	50.8	50.8	50.8	50.8	41.2	31	14.50
36	914	50.8	50.8	46	41.2	33.3	35	13.50
38	965	39.6	41.2	37.3	33.3	28.5	35	12.75
40	1016	37.3	33.3	30.17	28.5	25.4	35	12.75





Bending Machine PMCB3648

Outside pipe diameter		Max. wall thickness (mm)					Bending radius	Recommended radius per 12m pipe
Inches	mm	X52	X60	X65	X70	X80		
36	914	50.8	50.8	50.8	50.8	50.8	35.05	13.00
38	965	50.8	50.8	50.8	50.8	50.8	35.05	12.75
40	1016	50.8	50.8	50.8	50.8	44.45	35.05	12.75
42	1067	50.8	50.8	50.8	46.02	38.98	40	12.50
44	1118	50.8	50.8	44.45	41.27	34.13	40	12.00
46	1168	50.8	42.87	38.98	36.52	31.75	40	11.00
48	1219	44.45	38.98	36.52	33.32	28.57	40	10.50

Bending Machine PMCB4656

Outside pipe diameter		Max. wall thickness (mm)					Bending radius	Recommended radius per 12m pipe
Inches	mm	X52	X60	X65	X70	X80		
46	1168	50.8	50.8	50.8	50.8	50.8	40	11.00
48	1219	50.8	50.8	50.8	50.8	50.8	40	10.50
50	1270	50.8	50.8	50.8	50.8	44.45	40	10.00
52	1321	50.8	50.8	50.8	44.45	38.1	45	9.50
54	1372	50.8	50.8	44.45	38.1	33.3	45	9.00
56	1422	44.45	38.1	35.7	33.3	30.1	45	8.50



Die

Bending Set consists of Stiff Back Liner(s), Pin-Up Liner, Pin-Up Clamp Liners.



Mandrel

Wedge and disc mandrel is suitable for the production of 6"-56" pipes. It achieves the function of expanding, provide constraints for tube walls and prevent the deformation of bending pipes through oblique relative movement. Through its self-walking function, it can realize flexible movement of steel tubes in mandrels.



PMCB

BENDING MACHINE

STANDARD EQUIPMENT

Engine	Bending indicator rod	Voltage 24V
Cummins serials	Duel filtration	Batteries 195AH
Capacity 60KW-194KW	Hydraulic system	Undercarriage
Enlarged fuel tank	Pump type Axial piston pump	Steel track and rollers
Sound proofing Yes	Valve group	Triple grouser shoe
Control system	In-board cylinder	Winch
Control Type Manual lever	Our-board cylinder	Hydraulic driven winch
Instruments	Enlarged oil tank	Hydraulic driven winch
Operator platform Ladder	Starter and generator	

OPTIONAL EQUIPMENT

Air compressor	Bending die	Mandrel
Arctic package	Tropic package	Alternative engines

GLOBAL PIPELINE EQUIPMENT CO.,LTD.

ADD: NO. 68, DADONG ROAD, DRAGON TOWN INDUSTRIAL AREA, WUQING DISTRICT, TIANJIN, CHINA.

POST CODE: 065000 TEL:+ 86 18103361197 / 13603369380

WEBSITE: www.gpe-company.com EMAIL:info@gpe-company.com / sales@gpe-company.com

