

hydraulic plate bending rolls

quad roll design



JAMMES + PROMECAM

PROMECAM INTERNATIONAL

63, RUE DE STRASBOURG - 93 - SAINT-DENIS TELEPHONE : 752-37-50 + ET 752-39-11 TELEX : 62375

Promecam hydraulic bending rolls for the plate fabrication industry.

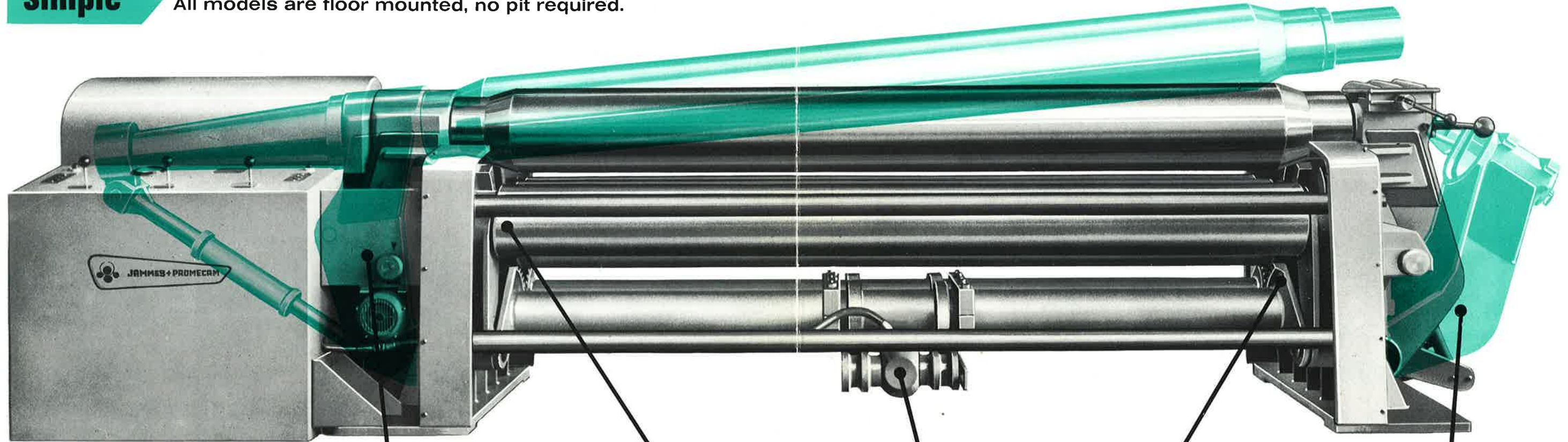
Type MC 1 (3 lower driving rolls) for plate up to and including 3/8"
 Type MC 2 (2 central driving rolls) for plate over 3/8" thickness.

rugged

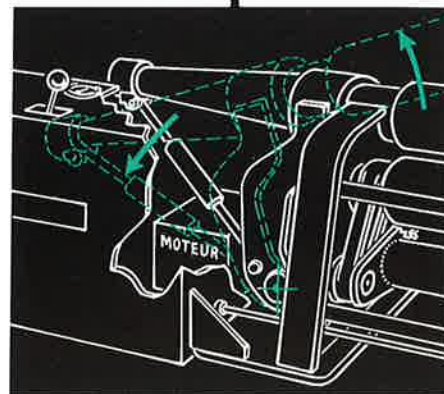
Distortion free heavy steel frames and forged steel rolls ensure high bending strength.

simple

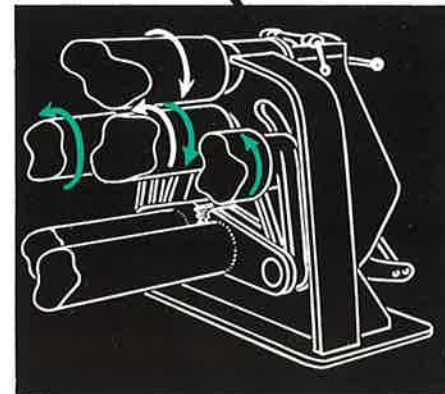
Rotation and crimping operations are hydraulically controlled. All models are floor mounted, no pit required.



operation

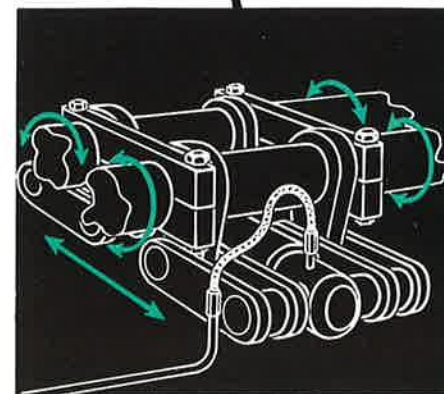


ROLL LIFT :
 Upper roll is lifted hydraulically for removal of work piece.

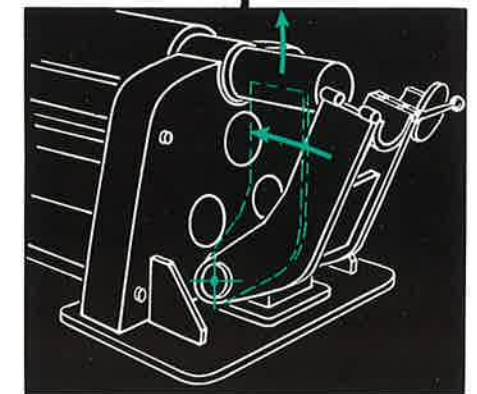
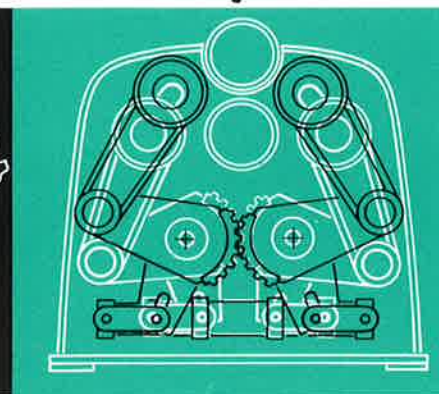


ROTATION :
 Hydraulically operated. Sensitive, accurate and safe. Variable speed with constant torque.

→ MC 1
→ MC 2



LATERAL ROLL CONTROL :
 Lateral rolls are interconnected through toothed quadrant segments to ensure constant parallelism. Positioning of lateral rolls is hydraulically controlled.



ROLL RELEASE :
 Upper roll released hydraulically for work piece removal.

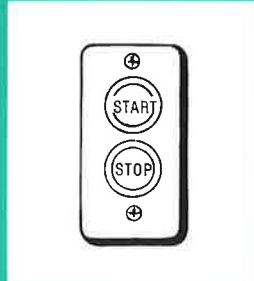


all operations controlled from control station

schematic illustration of crimping and rolling operations.

distance between central rolls

Rolls unaffected by unequal plate thickness. Upper roll operates in articulated bearings mounted in a flexible drive system.



Release and lifting of upper roll.

The 4 roll concept, utilizing the trajectories of the lateral rolls enables :

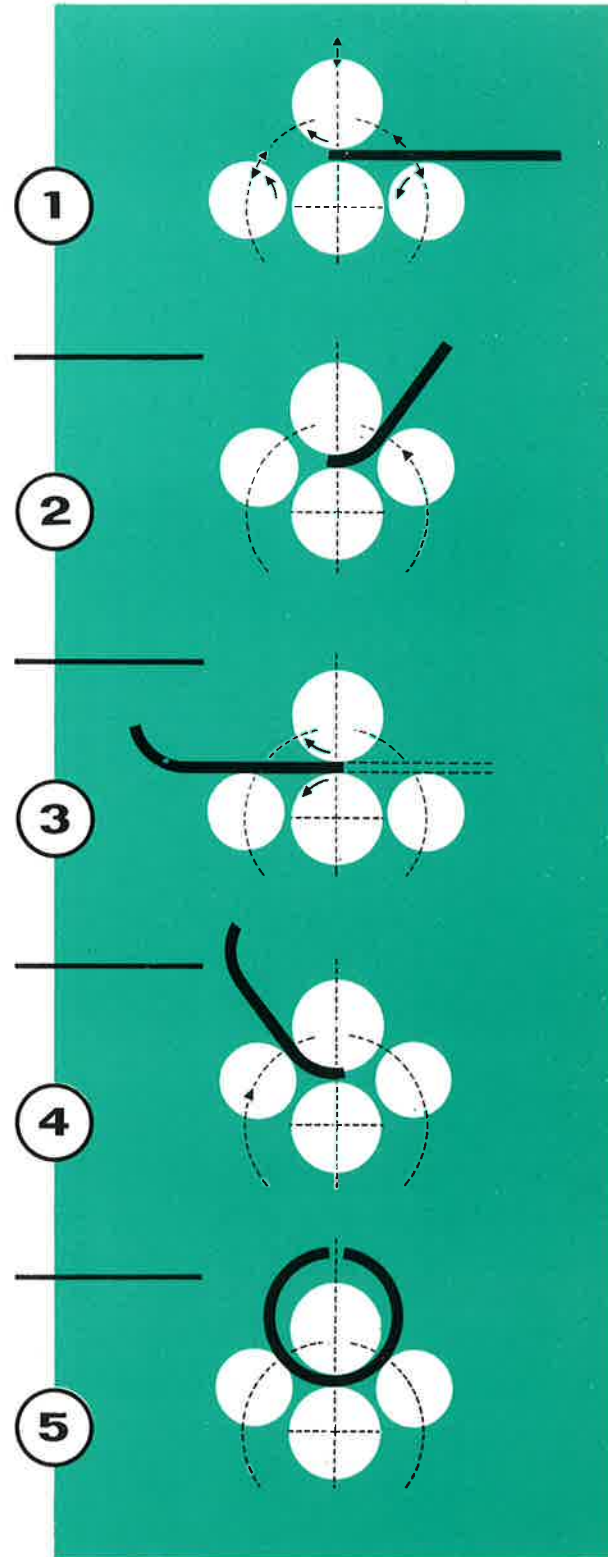
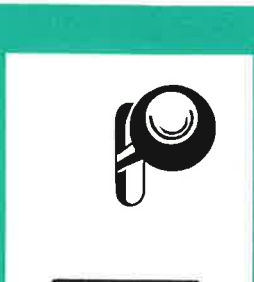
- plate to be performed or crimped, and rolled, with a minimum of handling.

- the rolling of inside diameters as small as the diameter of the upper roll, on material up to 80 % of the rated capacity of the machine.

CRIMPING :
2 and 4
see opposite



ROLLING :
see opposite



SPECIFICATIONS ON STANDARD MODELS

TYPE	CAPACITY		Central rolls \varnothing	Latéral rolls \varnothing	Rolling speed ft/mn	Hyd. pressure PSI	MOTORS		Feeding level	OVERALL DIMENSIONS			Gross Weight approx. Lbs
	Mild Steel 56,000 to 63,000 PSI						Rolling HP	Clamping HP		Length	Width	Height	
	Length	th.											
HC 1 20/6	6'8"	1/4	7 7/8	6 19/64	0 to 24	1,100	6	1	27 1/8	13' 6 1/4	3' 4 1/2	3' 1 3/4	9,900
HC 1 20/8	6'8"	5/16	8 21/32	6 59/64	0 to 22	1,300	8	1	28"	13' 6 1/4	3' 4 1/2	3' 2 3/4	10,200
HC 1 20/10	6'8"	3/8	9 7/8	7 7/8	0 to 20	1,600	10	1	28 1/8	13' 6 1/4	3' 4 1/2	3'3"	11,200
HC 2 20/12	6'8"	1/2	11"	8 21/32	0 to 20	1,300	10	1.5	31 3/8	15' 6 3/8	4' 1 3/4	3'7"	18,000
HC 2 20/15	6'8"	5/8	12 5/8	9 7/8	0 to 20	1,500	12	1.5	32 1/8	15' 6 3/8	4' 1 3/4	3'10"	20,000
HC 2 20/20	6'8"	3/4	14 3/16	11 1/4	0 to 15	1,750	15	1.5	35 1/8	15' 6 3/8	4' 1 3/4	4'2"	24,000
HC 1 25/6	8'4"	1/4	8 17/64	6 39/64	0 to 22	1,200	6	1	27 5/8	15' 1 7/8	3' 4 1/2	39"	10,500
HC 1 25/8	8'4"	5/16	8 55/64	7 3/32	0 to 20	1,300	8	1	28"	15' 1 7/8	3' 4 1/2	39"	11,600
HC 2 25/10	8'4"	3/8	11"	8 21/32	0 to 20	1,200	10	1.5	31 1/8	17'2"	4' 1 3/4	3'8"	19,000
HC 2 25/12	8'4"	1/2	11 7/16	9 9/16	0 to 20	1,500	12	1.5	31 1/2	17'2"	4' 1 3/4	3'8"	20,000
HC 2 25/15	8'4"	5/8	13 7/16	10 1/4	0 to 15	1,600	15	1.5	34 3/4	17'2"	4' 1 3/4	4' 1 3/4	23,000
HC 2 25/18	8'4"	11/16	14 3/16	11 1/4	0 to 15	1,750	15	1.5	35 3/8	17'2"	4' 1 3/4	4'3"	28,500
HC 2 25/20	8'4"	3/4	15"	11 13/16	0 to 15	1,750	20	2	36 1/8	17'2"	4' 7 1/4	4'6"	30,000
HC 1 30/6	10"	1/4	9 8/16	6 51/64	0 to 22	1,300	8	1	28"	16'10"	3' 4 1/2	3' 1 3/4	12,100
HC 1 30/8	10"	5/16	8 21/32	7 7/8	0 to 20	1,600	10	1	28 1/4	16'10"	3' 4 1/2	3' 1 3/4	14,700
HC 2 30/10	10"	3/8	11"	8 21/32	0 to 20	1,300	10	1.5	31 3/8	18' 9 3/4	4' 1 3/4	3'8"	21,000
HC 2 30/12	10"	1/2	12 5/8	9 7/8	0 to 20	1,600	12	1.5	32 1/8	18' 9 3/4	4' 1 3/4	3'10"	25,500
HC 2 30/15	10"	5/8	13 3/4	10 5/8	0 to 20	1,750	15	1.5	35"	18' 9 3/4	4' 1 3/4	4' 2 1/8	32,000
HC 2 30/20	10"	3/4	15 3/4	12 19/32	0 to 15	1,750	15	2	36 3/4	18' 9 3/4	4' 7 1/4	4'6"	44,000
HC 2 35/15	11'6"	5/8	15 3/4	12 19/32	0 to 15	1,750	15	2	36 1/8	20'4 1/4	4' 7 1/4	4'6"	47,500
HC 2 40/8	13'3"	5/16	12 5/8	9 7/8	0 to 15	1,500	12	1.5	31 7/8	22'	4' 1 3/4	4' 2 1/8	28,700
HC 2 40/11	13'3"	7/16	13 3/4	10 5/8	0 to 15	1,750	15	1.5	35"	22'	4' 1 3/4	4' 2 1/8	37,800

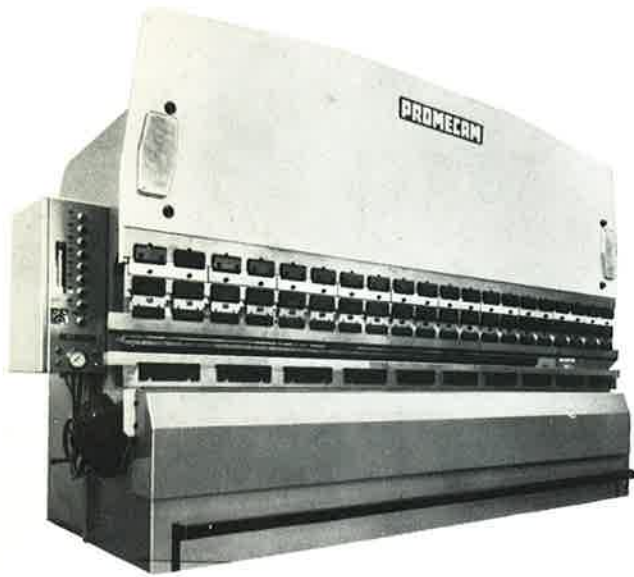
NOTA: These characteristics are given as general indication and can be modified without notice for an improving purpose.

SPECIAL SIZES ON REQUEST

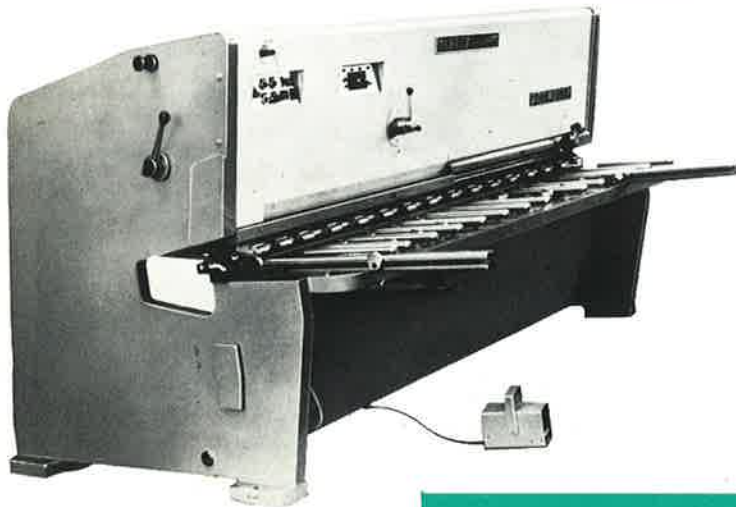
Use this table to select plate bending rolls for softer materials.

TYPE	Thickness - inches - Mild Steel 60,000 PSI						
	1 1/4	1	3/4	5/8	1/2	3/8	5/16
HC 2 40/11			19"	35"	100"		
HC 2 40/8				19"	40"	80"	
HC 2 35/15		30"	50"				
HC 2 30/20	20"	50"	10"				
HC 2 30/15	20"	30"	50"				
HC 2 30/12		19"	30"	60"			
HC 2 30/10			19"	40"	50"		
HC 2 30/8				20"	30"	60"	
HC 2 30/6					19"	40"	60"
HC 2 25/20	30"	60"					
HC 2 25/18	19"	30"	60"				
HC 2 25/15		19"	40"				
HC 2 25/12			19"	60"	80"		
HC 2 25/10				35"	50"		
HC 2 25/8				19"	30"	50"	
HC 2 25/6						30"	50"
HC 2 20/20	19"	40"					
HC 2 20/15		19"	40"				
HC 2 20/12			19"	45"			
HC 2 20/10				30"	40"		
HC 2 20/8					19"	40"	
HC 2 20/6						19"	40"

Maximum length to roll



Hydraulic Press Brakes tonnage
30 T. up to 440 T. Bending length :
4' up to 20'



Hydraulic gap Shears

capacity	26 SWG up to 3/8"	1/2"	5/8"
Cutting length	8' 10'	6' 6'	3' 4'



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