

PULLMAX

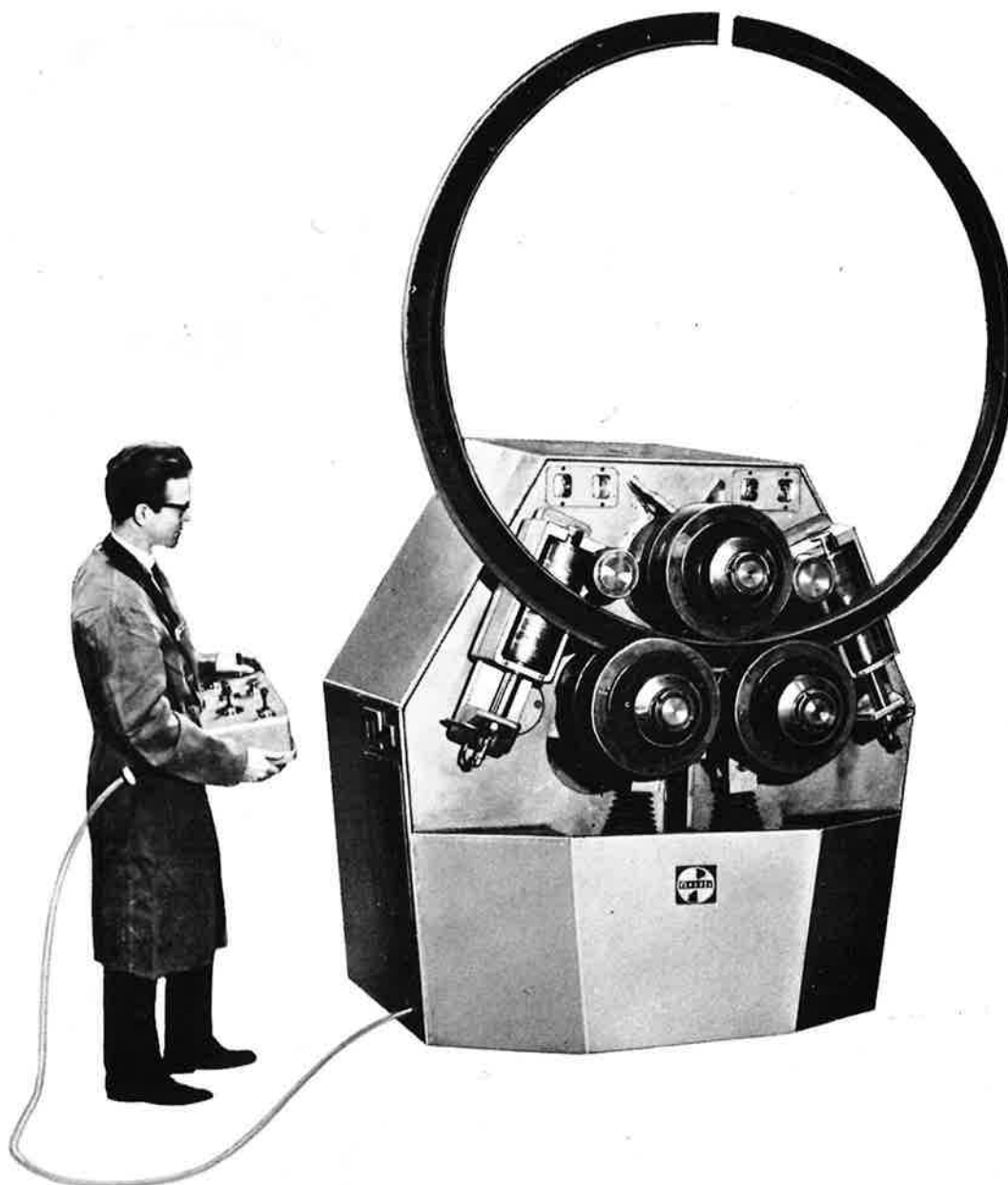
Angle Bending Machines

Z31

Z41

Z51

Z61



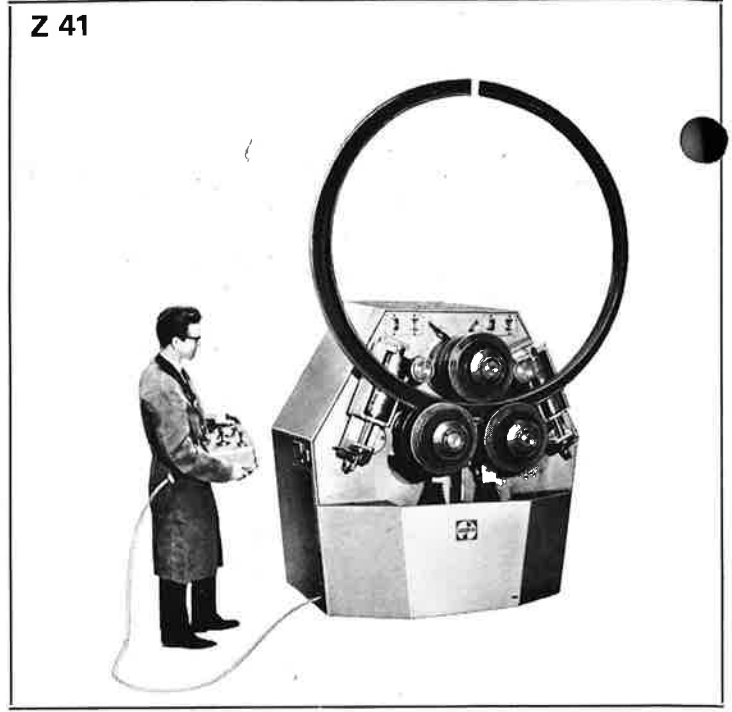
CAPACITIES: Z 31 3" x 3" x 3/8"
Z 41 5" x 5" x 1/2"
Z 51 6" x 6" x 1"
Z 61 8" x 8" x 1"



Z 31

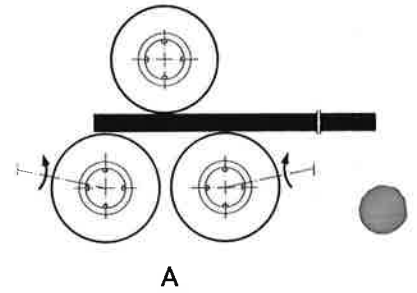


Z 41

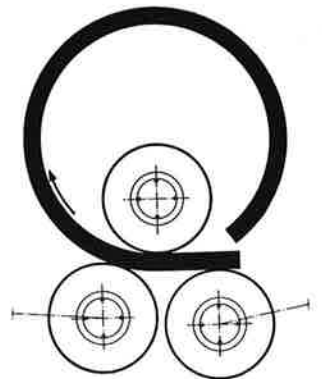


FEATURES:

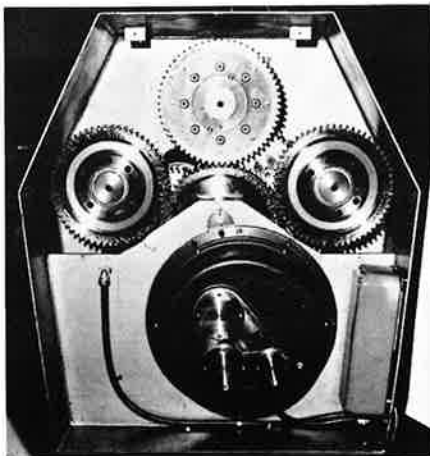
- Can be operated in both vertical and horizontal position.
- All three rolls driven.
- Top roll stationary.
- Bottom bending rolls hydraulically adjusted.
- Safety relief valves prevent over loading of machine.
- Manually adjusted guide rolls.
- Z-41 has hydraulically adjusted guide rolls.
- Four lighted indicators show position of bottom and guide rolls for repeat rolling.
- Remote control of all operations.
- All roller bearings for shafts.
- High speed gears running in oil.
- Brake motor.
- Rolls of high quality steel heat treated, quenched, and annealed.



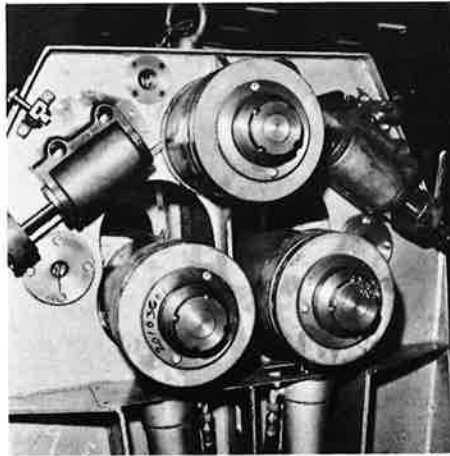
A



C



ROLL DRIVE



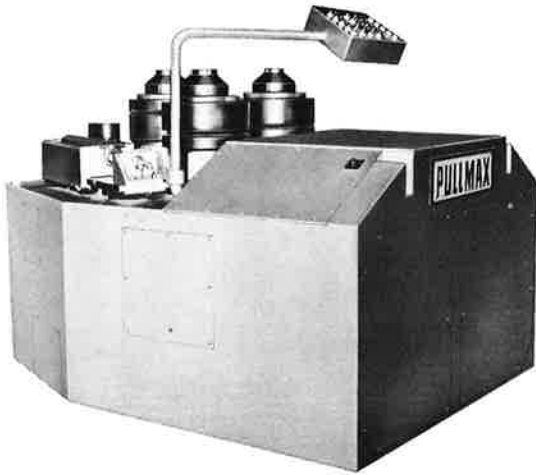
**LOWER BENDING ROLL
ADJUSTMENT**

**THE PULLMAX ROLL
THE SIMPLEST AND
ARRANG**

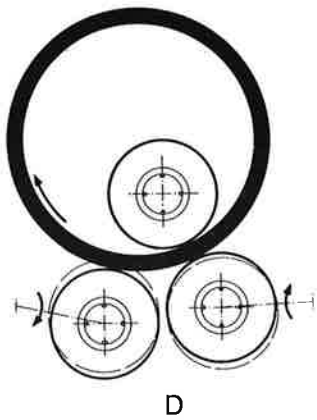
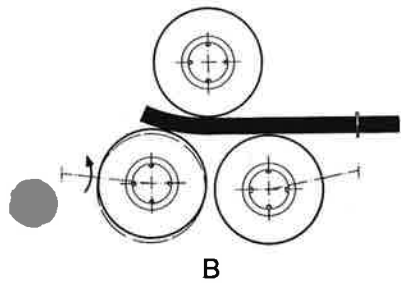
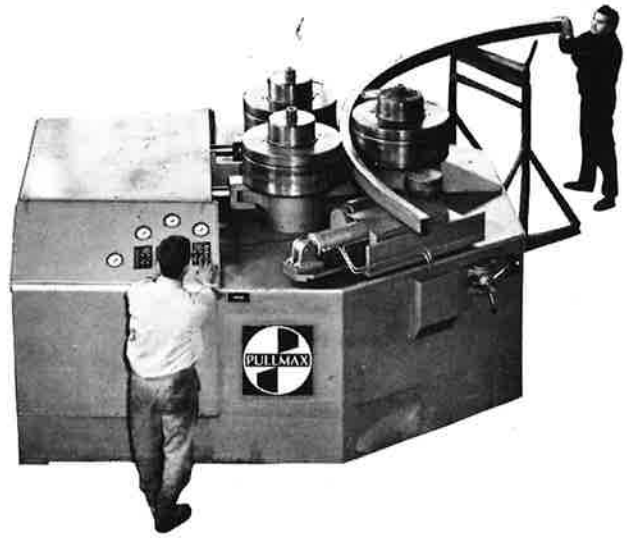
DEMONSTR

All dealers and Regional
desk top projectors for
machine in operation.

Z 51



Z 61



FEATURES:

All three rolls driven by high torque hydraulic motors.

Variable roll speed.

Center roll stationary.

Bending rolls hydraulically adjusted.

Safety relief valves prevent over loading of machine.

Hydraulically adjusted guide rolls.

Lighted indicators showing position of rolls for repeat rolling.

Operating console on top of machine can be rotated to best position for operator.

All shafts run in roller bearings.

Rolls of high quality steel, heat treated, quenched, and annealed.

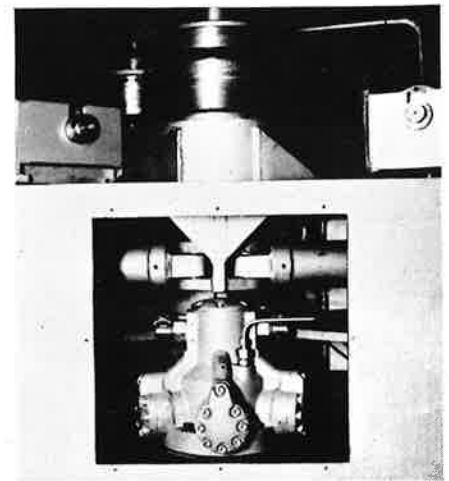
POSITIONING PROVIDES
MOST FLEXIBLE
ADJUSTMENT

POSITIONING FILM

Managers are equipped with
showing 4 minute film of



"FLEXIBLE ROLL DESIGN"



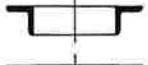

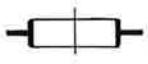

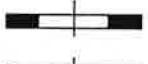
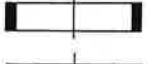


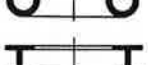
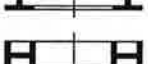

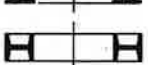
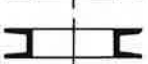
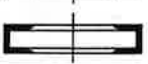
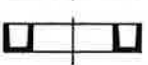

"HYDRAULIC DRIVE FOR EACH
BENDING ROLL"

SPECIFICATIONS:

MODEL	Z 31	Z 41	Z 51	Z 61
TOTAL MOTOR HORSE POWER	9	22	48	76
BENDING ROLLS R. P. M.	10.2	7.2	0-5	0-5
DIAMETER BENDING ROLLS	9 13/16"	15 3/4"	20"	26"
FEED SPEED FEET PER MINUTE	26	29	0-26	0-33
MAXIMUM BENDING FORCE	24200	46300	77100	121100
HEIGHT	49 1/4"	75"	70 7/8"	75"
WIDTH	44 1/8"	67 3/8"	90 1/2"	115 5/16"
LENGTH	39 3/8"	59"	110 1/4"	129 1/2"
WEIGHT LBS.	3770	11900	26500	48500

MAX. AND MIN. PROFILE WITH STD. ROLLS*

MINIMUM DIAMETERS OBTAINABLE IN ONE PASS WITH STANDARD ROLLS
(SMALLER DIAMETERS WITH SEVERAL PASSES)

	Max Min	3"x3"x3/8" 1"x1"x1/4"	Ø 36" Ø 18"	5"x5"x1/2" 1 3/4"x1 3/4"x1/4"	Ø 60" Ø 24"	6"x6"x1" 3"x3"x3/8"	Ø 120" Ø 30"	8"x8"x1" 3"x3"x3/8"	Ø 144" Ø 40"
	Max Min	2 1/2"x2 1/2"x3/8" 1"x1"x1/4"	Ø 48" Ø 18"	4"x4"x1/2" 1 3/4"x1 3/4"x1/4"	Ø 72" Ø 24"	5"x5"x1" 3"x3"x3/8"	Ø 144" Ø 40"	6"x6"x1" 3"x3"x3/8"	Ø 168" Ø 48"
	Max Min	4"x3"x3/8" 1 1/2"x1 1/2"x1/4"	Ø 28" Ø 14"	ST 5 WF 30 lbs. ST 3 B	Ø 50" Ø 18"	ST 6 WF 60 lbs. ST 3 B	Ø 100" Ø 30"	ST 8 WF 39 lbs. ST 3 B	Ø 100" Ø 30"
	Max Min	4"x3"x3/8" 1 1/2"x1 1/2"x1/4"	Ø 28" Ø 14"	ST 5 WF 30 lbs. ST 3 B	Ø 60" Ø 18"	ST 6 WF 60 lbs. ST 3 B	Ø 110" Ø 30"	ST 8 WF 39 lbs. ST 3 B	Ø 110" Ø 30"
	Max Min	3"x9/16" 1"x1/4"	Ø 20" Ø 14"	5"x3/4" 1 3/4"x1/4"	Ø 50" Ø 18"	7"x1" 3"x1/2"	Ø 80" Ø 30"	8"x1 3/8" 3"x1/2"	Ø 80" Ø 30"
	Max Min	5"x1" 2"x3/8"	Ø 16" Ø 14"	8"x1 1/2" 2"x1/2"	Ø 32" Ø 18"	11"x2" 4"x1/2"	Ø 30" Ø 30"	14"x2 1/2" 4"x1/2"	Ø 40" Ø 30"
	Max Min	1 3/4"x1 3/4" 7/8"x7/8"	Ø 16" Ø 12"	2 3/4"x2 3/4" 1"x1"	Ø 32" Ø 18"	3 3/4"x3 3/4" 1 1/2"x1 1/2"	Ø 50" Ø 30"	4 1/2"x4 1/2" 1 1/2"x1 1/2"	Ø 55" Ø 28"
	Max Min	Ø Ø 7/8"	Ø 16" Ø 12"	Ø 3" Ø 1"	Ø 30" Ø 18"	Ø 4 1/4" Ø 1 1/2"	Ø 50" Ø 30"	Ø 5 1/2" Ø 1 1/2"	Ø 55" Ø 28"
	Max Min	2" Std. Pipe 7/8"	Ø 28" Ø 12"	4" Std. Pipe 1"	Ø 50" Ø 18"	6" Std. Pipe Ø 1 1/2"	Ø 80" Ø 30"	8" Std. Pipe Ø 1"	Ø 80" Ø 30"
	Max Min	5"x3" 3"x2"	Ø 40" Ø 24"	8"x5 1/4" 4 M	Ø 70" Ø 18"	12"x4" 4 M	Ø 70" Ø 30"	WF 16" 4 M	Ø 80" Ø 30"
	Max Min	- -	- -	- -	- -	6"x4" 4 M	Ø 150" Ø 120"	WF 8" 4 M	Ø 150" Ø 120"
	Max Min	5"x3" 3"x2 3/8"	Ø 40" Ø 24"	10"x4" 3"x2 3/8"	Ø 70" Ø 22"	12"x5 1/4" 3"x2 3/8"	Ø 70" Ø 30"	15"x5 1/2" 3"x2 3/8"	Ø 70" Ø 30"
	Max Min	- -	- -	4"x2 3/8" 3"x2 3/8"	Ø 140" Ø 70"	6"x3 3/8" 3"x2 3/8"	Ø 150" Ø 80"	8"x4" 3"x2 3/8"	Ø 150" Ø 120"
	Max Min	5"x1 3/4" 3"x1 1/2"	Ø 32" Ø 18"	10"x2 5/8" 3"x1 1/2"	Ø 70" Ø 30"	12"x3" 3"x1 1/2"	Ø 70" Ø 30"	15"x3 3/8" 3"x1 1/2"	Ø 70" Ø 30"
	Max Min	5"x1 3/4" 3"x1 1/2"	Ø 32" Ø 18"	10"x2 5/8" 3"x1 1/2"	Ø 70" Ø 30"	12"x3" 3"x1 1/2"	Ø 70" Ø 30"	15"x3 3/8" 3"x1 1/2"	Ø 70" Ø 30"
	Max Min	- -	- -	5"x1 3/4" 3"x1 1/2"	Ø 140" Ø 120"	7"x2 1/8" 3"x1 1/2"	Ø 240" Ø 120"	8"x2 3/4" 3"x1 1/2"	Ø 320" Ø 120"
SECTION MODULUS	in ³	W = 0.95 in ³		W = 3.2 in ³		W = 8.8 in ³		W = 16 in ³	
*GUIDE PLATES	Min	3/4"x3/4"x1/8"	Ø 12"	1"x1"x1/4"	Ø 18"	2"x2"x1/4"	Ø 30"	2"x2"x1/4"	Ø 30"

VARIOUS ADAPTER DEVICES AVAILABLE

AMERICAN PULLMAX COMPANY, INC.

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In Canada: Pullmax Co., Ltd. · 1058 South Service Road · Oakville, Ontario · 845-3151