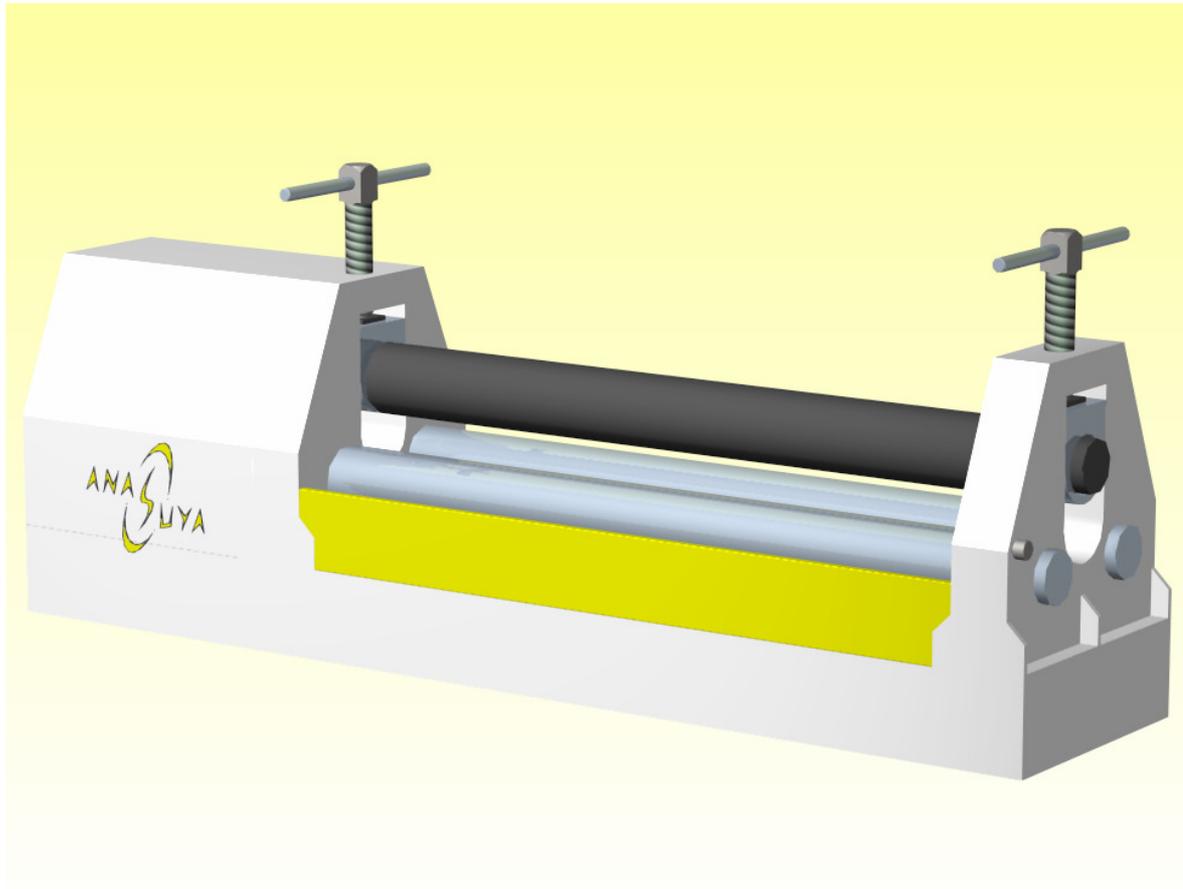




**BHAGWATI ENGINEERS**

# MECHANICAL PLATE ROLLING MACHINE

'ANASUYA' presents to you a range of most technically advanced MECHANICAL PLATE ROLLING MACHINE with all latest features as per international standards.



## Features:

- » Low initial cost
- » Low tooling cost
- » Easy & Quick setting
- » Enormous versatility
- » Accurate repetition & bending
- » User friendly
- » Easy maintenance
- » Standard spares, hence easy availability



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**MACHINE CONFIGURATION:**

SR NO.	CAPACITY		TOP ROLL DIA.	BOTTOM ROLL DIA	MAIN DRIVE (H.P.)	END. DROP PER. (H.P.)
	LENGTH	THICKNESS				
1	1000	6	130	105	3	0.75
2	1250	6	135	110	3	0.75
3	1500	6	160	135	5	0.75
4	2000	6	170	140	7.5	1
5	2500	6	185	155	10	1
6	3000	6	220	180	10	1
7	1250	10	160	135	5	1
8	1500	10	170	140	7.5	1
9	2000	10	185	155	10	1
10	2500	10	220	165	10	1
11	3000	10	245	225	20	1
12	1250	12	185	140	7.5	1
13	1500	12	185	155	10	1
14	2000	12	215	170	10	1
15	2500	12	240	180	15	1
16	3000	12	260	225	20	1
17	1250	16	205	165	10	1
18	2000	16	230	180	10	1
19	2500	16	250	210	20	1
20	3000	16	290	220	25	1
21	1250	20	220	170	10	1
22	1500	20	240	190	12.5	1
23	2000	20	260	220	15	1
24	2500	20	275	215	20	1
25	3000	20	290	250	25	1
26	1250	25	260	220	15	1
27	1500	25	275	230	20	1
28	2000	25	290	250	20	1
29	2500	25	310	260	30	1
30	3000	25	330	275	40	1
31	1250	30	280	220	15	1
32	1500	30	290	230	20	1
33	2000	30	320	250	25	1
34	2500	30	360	260	30	1

• ALL DIMENSIONS ARE IN MM. \* WE RESERVE RIGHTS TO CHANGE THE DIMENSION OF MACHINE WITHOUT ANY PRIOR NOTICE



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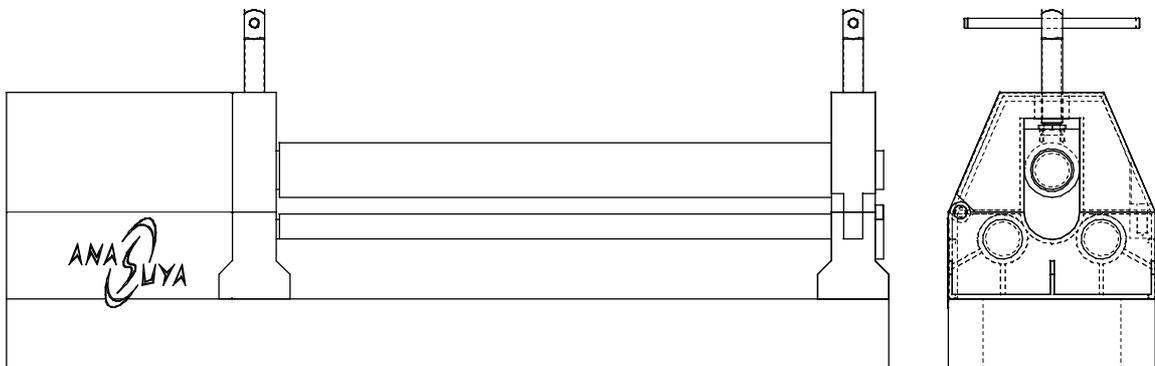
**MAIN STRUTURE AND WORKING PRINCIPLE :**

- This machine is manually operated & works on screw-nut principle. The pressing of top roll is droven by means of fine threaded screw provided at both the ends of TOP-roll by means of Tommy bar (supplied with machine).
- The equipment composed of working parts and drive system two parts .The working parts is composed of right and left bearing plate , one upper roll, two down rolls (material of rolls is EN8 / Forge Steel / Steamer Shaft.), lifting screw and other accessory parts. down rolls drive upper rolls to revolve. Upper rolls can adjust up/down by rotating screw at both the ends. Drive system composed of main motor, main speed reducer gearbox and other accessory parts.
- Down rolls were drove by main motor and main speed reducer gear, the spindle of main speed reducer drive two down rolls by one group gears, the direction adjusted by the main motor.

Unloading device is used for bending circle type to remove the work piece. while unloading the upper rolls move to up limit position, the balance device on upper rolls ends hit upper rolls to remove the work pie

**STANDARD FEATURES / ACCESSORIES (INCLUDING / supplied with machine):-**

- Main Drive Motor (Siemens / Crompton -make)
- Gear Box (Elecon –make)
- Drive of Bottom Roll Through Gear Box & Main motor Drive.
- Manually operated Top Roll Pressing (vertical feeding). through 2-nos Tommy bar (supplied with machine)
- Roller for Bending Sections (angles, channels, etc)
- Frame built of laser cut high strength steel, welded, stress relieved and sand blasted.
- Mechanical opening-end & top roll balancing system
- Bending rolls assembled on heavy duty Brass bush bearings.
- Manual lubrication by means of Oil cups provided at lubricating points.



**Bending Operations :**



The Plate can be bent on machine by hammering as shown if the thickness of the plate is half than capacity. Thicker plates should be prevent out side the machine.

Place the Plate between bottom and top rolls by adjusting top roll manually.

Down the top roll and given pressure on the plate. Then start Main motor in clock wise direction till one end of the plate comes over first bottom roll Reverse the Motors and get second end on second bottom.

Continue above process until you et desired shall as shown in picture



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