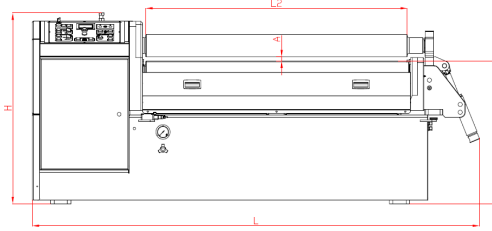
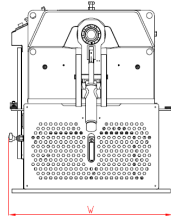


# HMR-4

## HYDRAULIC RECTILINEAR TYPE FOUR ROLL BENDING MACHINE



MODEL	Bending Length	Bending Capacity (Pre-bending / Rolling)	Top Roll	Max. Pass Through	Length	Width	Height	Working Height	Weight (Std. Machine)	Motor Power	Min. Additional top roll diameter	Hydraulic Tank Capacity
	L2 (mm)	T (mm)										
HMR-4 650-80	650	2.5/3	80	45	1760	970	1100	825	1378	1.5+2	80	30
HMR-4 650-90	650	3/3.5	90	40	1760	970	1100	825	1385	1.5+2	80	30
HMR-4 650-100	650	3.5/4	100	35	1760	970	1100	825	1392	1.5+2	80	30
HMR-4 650-110	650	4/5	110	30	1760	970	1100	825	1401	1.5+2	80	30
HMR-4 650-120	650	5/6	120	25	1760	970	1100	825	1410	1.5+2	80	30
HMR-4 650-130	650	6/7	130	20	1760	970	1100	825	1420	1.5+2	80	30
HMR-4 1030-80	1030	2/2.5	80	45	2140	970	1100	825	1523	1.5+2	80	30
HMR-4 1030-90	1030	2.5/3	90	40	2140	970	1100	825	1534	1.5+2	80	30
HMR-4 1030-100	1030	3/3.5	100	35	2140	970	1100	825	1546	1.5+2	80	30
HMR-4 1030-110	1030	3.5/4	110	30	2140	970	1100	825	1560	1.5+2	80	30
HMR-4 1030-120	1030	4/5	120	25	2140	970	1100	825	1574	1.5+2	80	30
HMR-4 1030-130	1030	5/6	130	20	2140	970	1100	825	1590	1.5+2	80	30
HMR-4 1280-80	1280	1.5/2	80	45	2390	970	1100	825	1617	1.5+2	80	30
HMR-4 1280-90	1280	2/2.5	90	40	2390	970	1100	825	1631	1.5+2	80	30
HMR-4 1280-100	1280	2.5/3	100	35	2390	970	1100	825	1646	1.5+2	80	30
HMR-4 1280-110	1280	3/3.5	110	30	2390	970	1100	825	1662	1.5+2	80	30
HMR-4 1280-120	1280	3.5/4	120	25	2390	970	1100	825	1680	1.5+2	80	30
HMR-4 1280-130	1280	4/5	130	20	2390	970	1100	825	1700	1.5+2	80	30
HMR-4 1550-90	1550	1.5/2	90	40	2660	970	1100	825	1746	1.5+2	80	30
HMR-4 1550-100	1550	2/2.5	100	35	2660	970	1100	825	1764	1.5+2	80	30
HMR-4 1550-110	1550	2.5/3	110	30	2660	970	1100	825	1784	1.5+2	80	30
HMR-4 1550-120	1550	3/3.5	120	25	2660	970	1100	825	1806	1.5+2	80	30
HMR-4 1550-130	1550	3.5/4	130	20	2660	970	1100	825	1830	1.5+2	80	30
HMR-4 2050-100	2050	1.5/2	100	35	3160	970	1100	825	1983	1.5+2	80	30
HMR-4 2050-110	2050	2/2.5	110	30	3160	970	1100	825	2009	1.5+2	80	30
HMR-4 2050-120	2050	2.5/3	120	25	3160	970	1100	825	2038	1.5+2	80	30
HMR-4 2050-130	2050	3/3.5	130	20	3160	970	1100	825	2070	1.5+2	80	30

### STANDARD (HMR-4 Series)

- Rectilinear type side roll movement.
- PLC Electronic balancing system (X1,X2,Y1,Y2,P)
- Cone bending
- Induction hardened rolls (HRc 56±4)
- Polished rolls
- Dual speed on rolls rotation
- Quick top roll changing system
- Stress-relieved solid steel frames
- Highly durable carbon steel rolls machined by CNC Lathes with optimal crown (special crown upon request)
- Rolls seated in spherical bearings
- Hydraulic bracket (drop end) with easy pull out system
- Top and bottom rolls are powered by a helical type gearbox and AC motor
- Bottom and side rolls are powered by hydraulic cylinders
- Automatic rolls peripheral speed compensation (optimum distribution of torque)
- Adjustable hydraulic pressure on bottom roll (crowning compensation)
- Manually adjustable bottom roll tilting
- Emergency stop wire around the machine
- Electrical and hydraulic protection against overloads
- World standard electrical and hydraulic components
- Integrated control panel
- Manual lubrication

### OPTIONAL (HMR-4 Series)

- NC Control Unit (Simple CNC) (X1,X2,Y1,Y2,P,Z)
- CNC Control Unit with color graphical control (X1,X2,Y1,Y2,P,Z)
- Dual speed control of all axis (NC machines)
- Variable speed control of all axis (CNC machines)
- AISI 4140 High strength alloy steel rolls
- Hydraulic tiltable bottom roll (P1)
- Oil cooler
- Oil heater
- Side support system (both sides)
- Vertical hydraulic overhead support system 0.5 TON (2m - 3m diameters)
- Preparation for side or vertical support system
- NC inclusion for vertical support control (Available on CNC control)
- NC inclusion for side support control (Available on CNC control)
- Quick changeable top roll for smaller diameter
- Special roll crowning
- Automatic central lubrication
- Mobile control panel
- Wired or wireless remote control
- Material feeding table (Idle or motorized)