



JUGGERNAUT MACHINES

PRM 60

INFORMATION



STANDARD FEATURES

Rectangular profile, plate hardway-easyway, square, pipe, tube, angle leg, T-section, NPU, INP, IPE, HEA, HEB, HEM bending

Circular, elliptical, oval shapes and different diameters bendings

St-52 quality steel frame and parts

Hardened and grounded rolls and shafts

Bearing guidance system

Three separated rolls driven with hydraulic motor and planetary gear box

Linear movement of bottom roll shafts with hydraulic system connected to body

Telescopic front protection sheets

Moveable Control Panel

Digital Display

Multi-purpose bending rolls (One set)

Serpentine bending feature

Vertical and horizontal working feature

Protection system against overloads

CE norms

200 v / 60 Hz / 3 Ph



JUGGERNAUT
MACHINES
PRM SERIES

PRM SERIES

PRM series machine frame is constructed with durable steel. In order to make precise bending, precision bearings and large shaft diameters minimize deflection. In addition to that thanks to strong frame and high quality hydraulic and electrical components long life of the machines ensured. If you need to bend metal profiles or tubes, then M-Bend PRM series are the best machines for the job. M-Bend offers three roll hydraulic machines capable of forming variety of profiles including UNP, INP, IPE, HEA, HEB, HEM, square or rectangular solids, as well as, square, rectangular and round tubing.



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PRM SERIES

FAST AND PRECISE

Your time is valuable, so we bring you quick and precise solutions. Experience the ease of shaping metal and swiftly bring your projects to life.

TELESCOPIC FRONT PROTECTION SHEETS

During the bending stage, they prevent the slag accumulated on the surface from entering the machine and damaging the bearings due to the structure of the material with the density difference of the light metal. The machine developed by our expert designers in their fields ensures to operate longer and more effectively by being protected with layered sealed sheets.



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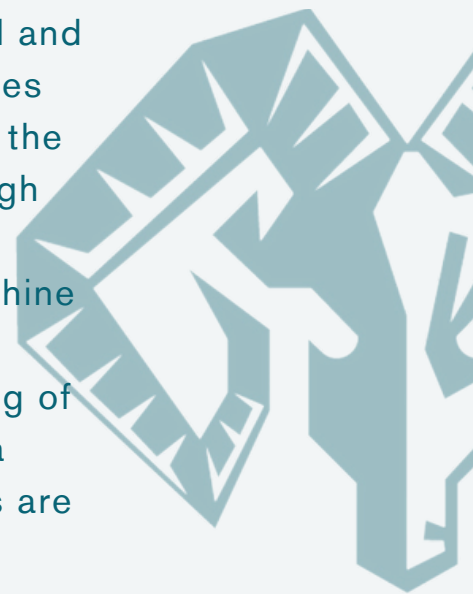
SERPENTINE (SPIRAL) BENDING FEATURE

The serpentine system is an indispensable component in the field of heat transfer in today's industry and manufacturing. Formed by bending pipes and expanding their surfaces, this system optimizes heat transfer by facilitating efficient circulation of gases and liquids. The PRM series developed by M-Bend company provides a solution to industrial needs with its serpentine bending feature.



DURABLE MACHINE BODIES

Each M-Bend machine body is meticulously designed and reinforced to minimize material deformation. The bodies are manufactured using high-quality St-52 steel, and the entire production process is carefully managed through CNC machining centers. This process is designed to maximize both the durability and precision of the machine bodies. Machine bodies are processed in specialized CNC machining centers. This ensures precise shaping of each part and perfect parallelism of all surfaces. As a result, the durability and performance of our machines are consistently maintained at the highest level.



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I-U-H PROFILE PULLING DEVICE

It prevents material deformation when applying force in the opposite direction to the profile during hard-way bending. Pulling process involves placing the metal piece into the cavity on the die and then using the force applied by the pulling die to stretch the metal piece. In this way, the deterioration of the material is prevented.



HYDRAULIC CIRCULAR PITCH DEVICE

We offer hydraulic circular pitch device that we produce as an optional equipment to our valuable customers together with the serpentine bending feature in our PRM series.



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BEARING GUIDANCE SYSTEM

The rolls are guided with spherical roller bearings. This guidance system requires less lubrication and assures long-term precision.







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CAPACITY TABLE

		MATERIAL SIZE (mm)	IN. DIAMETER (mm)	ROLLS
	SQUARE TUBE	KP 15x15x2 KP 40x40x3 KP 60x60x3	Ø230 Ø330 Ø3000	STANDARD+P
	RECTANGLE TUBE	KP 20x40x3 KP 40x60x3 KP 40x80x2	Ø400 Ø2500 Ø5000	STANDARD+P
	PLATE HARD WAY	20x10 50x10 80x10	Ø230 Ø400 Ø1400	STANDARD
	PLATE EASY WAY	50x10 80x10	Ø220 Ø450	STANDARD
	FULL SQUARE	20x20 25x25 35x35	Ø230 Ø350 Ø1000	STANDARD
	TUBE	Ø33,7x2,5 Ø48,4x2,5 Ø60,3x2,5	Ø300 Ø400 Ø800	SPECIAL
	PIPE	Ø16x5 Ø51x3 Ø60,3x4	Ø230 Ø600 Ø1200	SPECIAL
	ROUND	Ø25 Ø30 Ø40	Ø300 Ø500 Ø740	SPECIAL
	ANGLE LEG IN	L 25 L 50	Ø300 Ø900	STANDARD
	ANGLE LEG OUT	L 20 L 40 L 60	Ø300 Ø450 Ø600	STANDARD
	T SECTION LEG IN	T 30 T 50 T 70	Ø300 Ø550 Ø1100	STANDARD
	T SECTION LEG OUT	T 30 T 60 T 80	Ø270 Ø500 Ø1000	STANDARD
	UNP EASY WAY LEGS OUT	UNP 40 UNP 50 UNP 80	Ø300 Ø350 Ø500	STANDARD
	UNP EASY WAY LEGS IN	UNP 40 UNP 50 UNP 65	Ø300 Ø450 Ø500	STANDARD
	INP PROFILE HARD WAY	INP 80	Ø550	STANDARD+C
	INP PROFILE EASY WAY	-	-	-
	HEA PROFILE EASY WAY	-	-	-
	HEB PROFILE HARD WAY HEA PROFILE HARD WAY	-	-	-



PRM 80 TECHNICAL SPECIFICATIONS

SECTION MOMENTUM	-
POWER	4 kW
ROLLS	177 mm
BENDING SPEED	6 m/dk/min
SHAFT DIAMETER (Ømm)	60/60
WEIGHT (kg)	1050 Kg
SIZE W/L/H (mm)	1100/1400/1400





PRODUCTION QUALITY

M-BEND is working efficiently to present its products to the market with our experienced employees working with expert engineers and our technology that we renew every year.



SERVICE AND SPARE PARTS

The materials and parts used in the machines that we produce have proven quality and are accessible worldwide. All kinds of spare parts and consumables are always in stock.



MACHINING

Our sheet bending machines and profile bending machines are produced using precision CNC machines during the machining process.



PAINTING

We use electrostatic oven painting to protect the body from corrosion, rust, and general external factors

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