



Pneumatic Rigid Arm Manipulator



PM Hercules Rigid Arm Manipulators are designed for **stable and controlled transport of loads under weightless conditions**. They are especially characterized by the **safe handling of off-set loads and vibration-free operation**.

Maximum Safety – Brake and safety systems compliant with CE standards

Off-Set Load Handling – Stable balance with asymmetrical load distribution

Vibration-Free Transport – Smooth, shock- and vibration-free movement

Weightless Operation – Nearly zero operator effort thanks to pneumatic balancing

Precise Positioning – Micro-adjustments and full control in all directions

Drift Control – Special brakes ensure secure stopping

Flexible Mounting – Floor, ceiling, or rail-mounted configurations available

Gripper Options – Standard hooks or customized gripping tools

Operates with dry, filtered (40µm), oil-free compressed air at min. 0.7/0.8 MPa

Max. load capacity: **1.200 kg**, max. working radius: **4.500 mm**, vertical stroke: **2.230 mm**

Air consumption per cycle: **100–600 NI**

Mounting Options

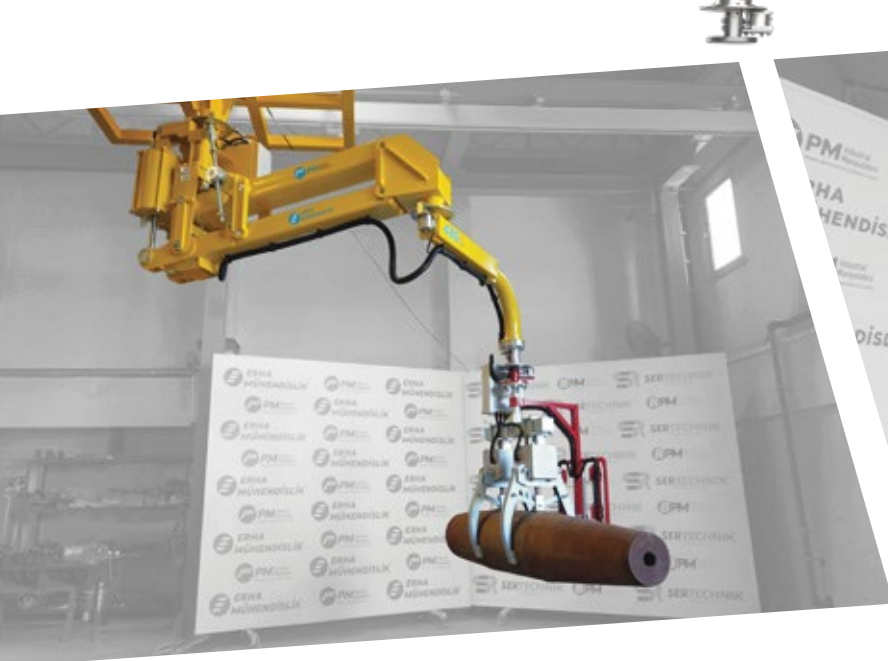
Hercules Column Mounted **HY**



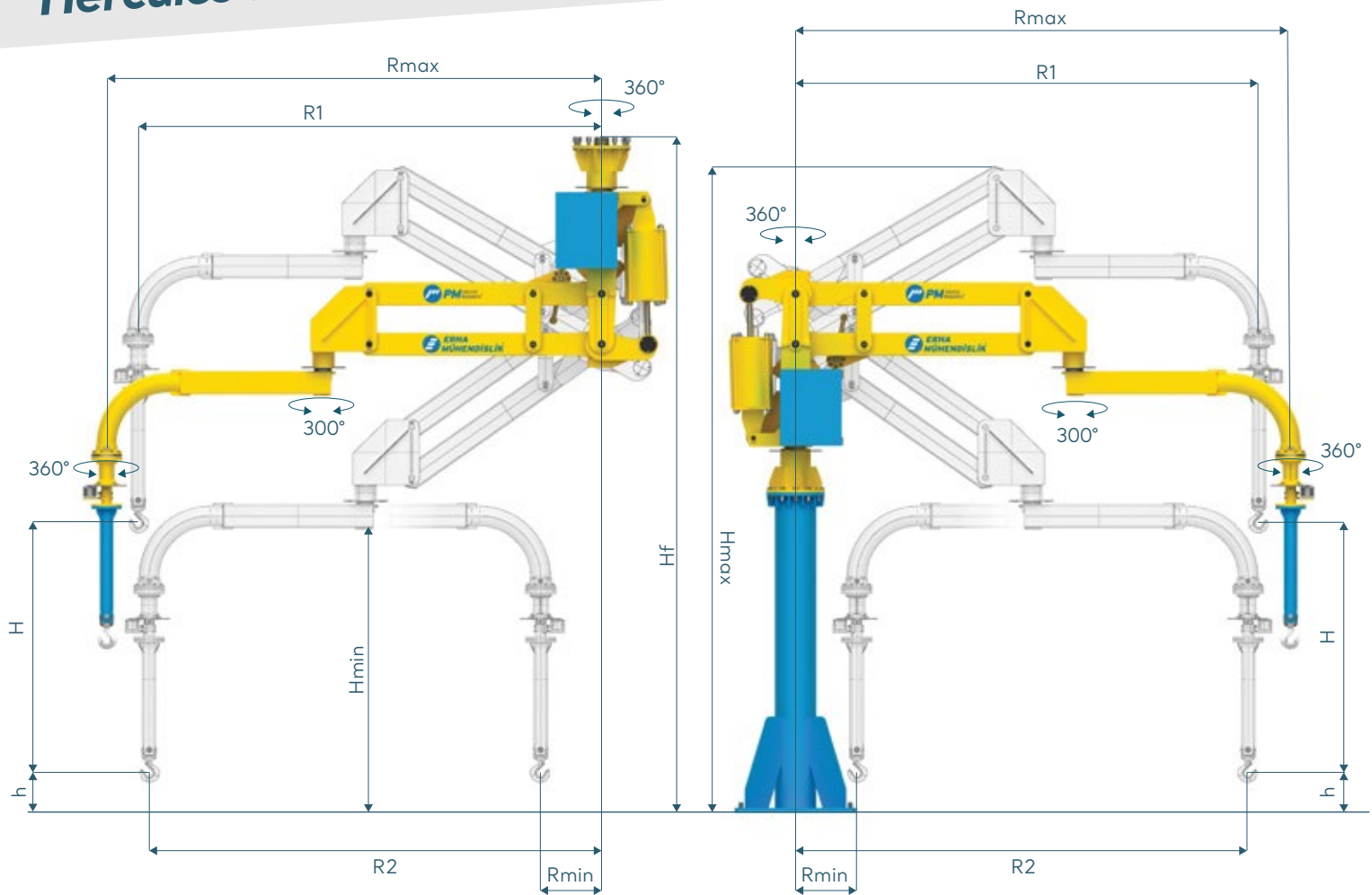
Hercules Overhead Mounted **HT**



Hercules Overhead Rail-Mounted **HTA**



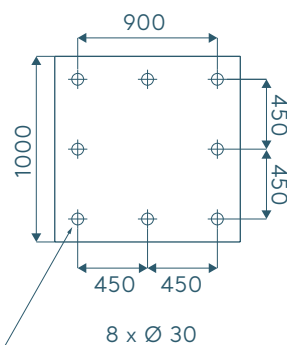
Hercules Technical Details



Maximum Load Capacity [kg]

		1200	1000	800	700	600
Max. Working Radius [mm]	Rmax	2500	3000	3500	4000	4500
Min. Working Radius [mm]	Rmin	830	880	990	1050	1170
Vertical Stroke [mm]	H	1420	1650	1930	2080	2230
Min. Pick-up Height [mm]	*h	200	200	200	200	200
Max. Manipulator Height [mm]	*Hmax	4150	4375	4650	4800	4950
Max. Ceiling Mounting Height [mm]	*Hf	4300	4415	4545	4616	4690
Lower Edge of Main Body [mm]	*Hmin	2000	2000	2000	2000	2000
Working Radius at Top Position [mm]	R1	2290	2760	3215	3695	4170
Working Radius at Bottom Position [mm]	R2	2250	2715	3165	3640	4110

* Dimensions may vary depending on customer-specific requirements.



Base Plate Dimensions [mm]