



Pneumatic Manipulators with Double Rope System



PM Gentle Double Rope Manipulators are designed for **ergonomic, safe, and efficient material handling** in industrial environments. The load is guided to the balancing unit via **two independent steel ropes**, enabling a **weightless working experience**.

Maximum Safety – Two independent steel ropes with separate braking systems

Weightless Operation – Near-zero effort required from the operator

Precise Positioning – Articulated arm with Double Rope guidance for full range of motion

Drift Control – Special brakes ensure secure and stable load control

Flexible Mounting – Can be installed on floor, ceiling, or rail systems

Gripper Options – Standard hook or custom gripper solutions

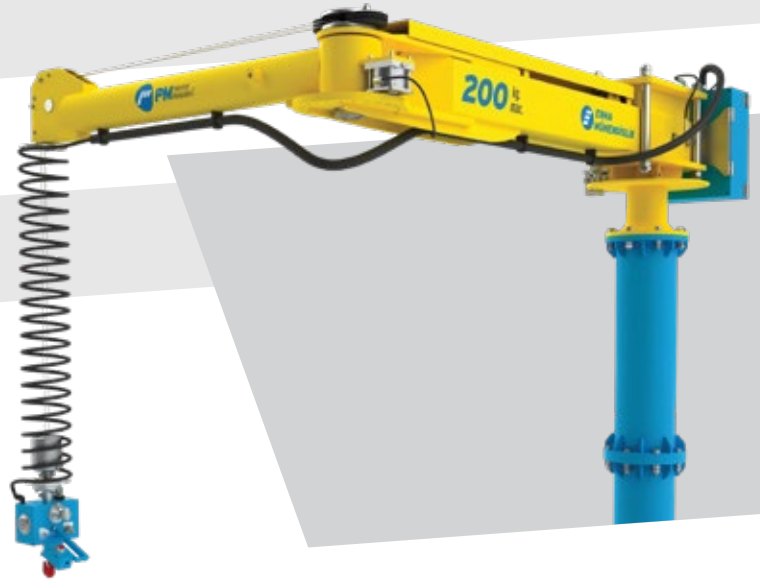
Operates with dry, filtered (40µm), oil-free compressed air at min. 0.7/0.8 MPa

Max. load capacity: **200 kg**, max. working radius: **4.500 mm**, vertical stroke: **2.000 mm**

Air consumption per cycle: **40-120 NI**

Mounting Options

Gentle Column Mounted GY



Gentle Overhead Mounted GT



Gentle Overhead Rail-Mounted GTA



Maximum Load Capacity [kg]

		200	200	160	120
Max. Working Radius [mm]	Rmax	3000	3500	4000	4500
Min. Working Radius [mm]	Rmin	830	970	1110	1245
Vertical Stroke [mm]	H	2000	2000	2000	2000
Min. Pick-up Height [mm]	*h	200	200	200	200
Max. Manipulator Height [mm]	*Hmax	3570	3570	3570	3570
Max. Ceiling Mounting Height [mm]	*Hf	3750	3750	3750	3750
Lower Edge of Main Body [mm]	*Hmin	2930	2930	2930	2930

* Dimensions may vary depending on customer-specific requirements.

Base Plate Dimensions [mm]

