



BPM Powerful 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 (40 μ m), oil-free compressed air at min. 0.7/0.8 MPa Max. load capacity: **750 kg**, max. working radius: **4.500 mm**, vertical stroke: **2.450 mm** Air consumption per cycle: **100–400 NI**

Mounting Options

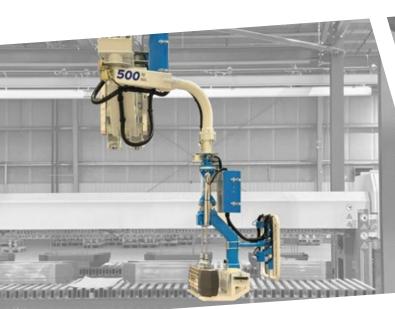
Powerful Column Mounted PY



Powerful Overhead Mounted PT

OPM

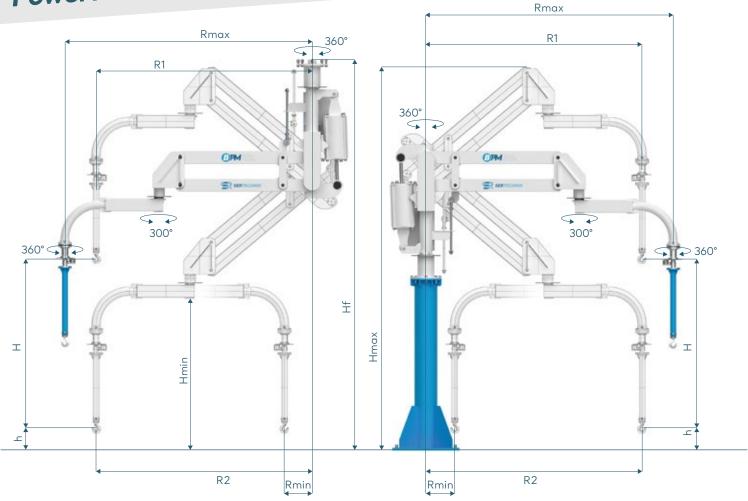






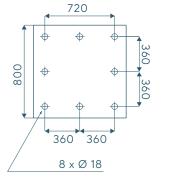


Powerful Technical Details



Maximum Load Capacity [kg]		750	570	425	320	240
Max. Working Radius [mm]	Rmax	2500	3000	3500	4000	4500
Min. Working Radius [mm]	Rmin	755	850	1000	1150	1300
Vertical Stroke [mm]	Н	1600	1900	2300	2450	2450
Min. Pick-up Height [mm]	*h	200	200	200	200	200
Max. Manipulator Height [mm]	*Hmax	4215	4370	4560	4755	4950
Max. Ceiling Mounting Height [mm]	*Hf	4200	4900	5000	5100	5100
Lower Edge of Main Body [mm]	*Hmin	2000	2000	2000	2000	2000
Working Radius at Top Position [mm]	R1	2195	2635	3060	3485	3915
Working Radius at Bottom Position [mm]	R2	2195	2635	3060	3485	3915

 $[\]boldsymbol{\star}$ Dimensions may vary depending on customer-specific requirements.



Base Plate Dimensions [mm]



Tailor-made solutions















