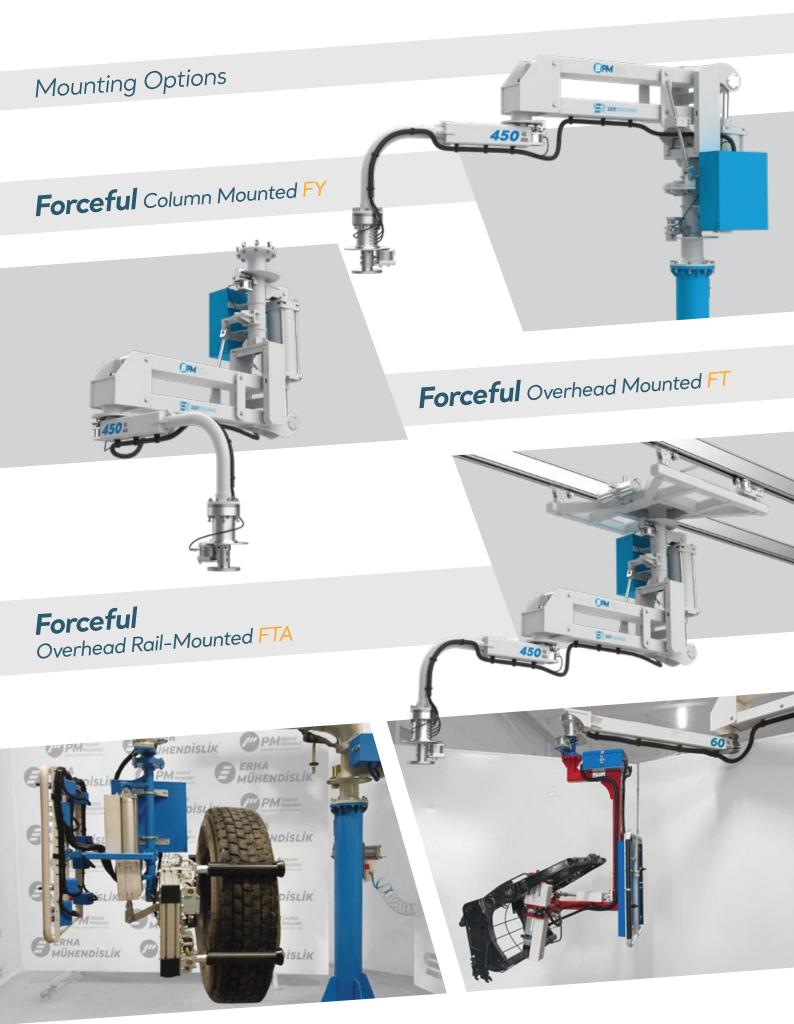




BPM Forceful Rigid Arm Manipulators are designed for stable and controlled transport of loads under weightless conditions. They are especially characterized by the safe handling of off-set loads and vibration-free operation.

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

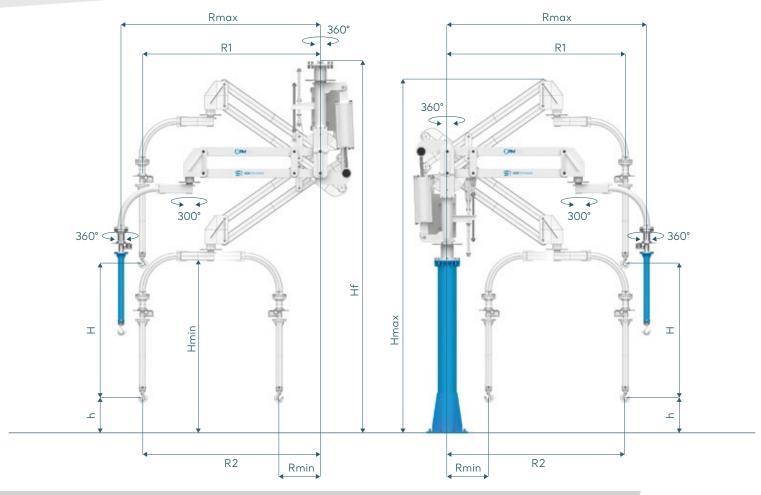
Operates with dry, filtered (40 $\mu$ m), oil-free compressed air at min. 0.7/0.8 MPa Max. load capacity: **450 kg**, max. working radius: **4.000 mm**, vertical stroke: **2.450 mm** Air consumption per cycle: **50–200 NI** 





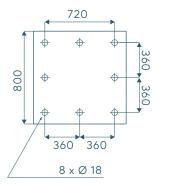


## Forceful Technical Details



Maximum Load Capacity [kg]		450	300	215	150	100
Max. Working Radius [mm]	Rmax	2000	2500	3000	3500	4000
Min. Working Radius [mm]	Rmin	675	870	920	1015	1160
Vertical Stroke [mm]	Н	1300	1700	2000	2400	2450
Min. Pick-up Height [mm]	*h	200	200	200	200	200
Max. Manipulator Height [mm]	*Hmax	3860	4070	4225	4420	4610
Max. Ceiling Mounting Height [mm]	*Hf	4100	4100	4800	5000	5000
Lower Edge of Main Body [mm]	*Hmin	2000	2000	2000	2000	2000
Working Radius at Top Position [mm]	R1	1750	2170	2610	3035	3465
Working Radius at Bottom Position [mm]	R2	1750	2170	2610	3035	3465

<sup>\*</sup> Dimensions may vary depending on customer-specific requirements.



Base Plate Dimensions [mm]



## Tailor-made solutions

















