

BPM Forceful Mini

Pneumatic Rigid Arm Manipulator



BPM Forceful Mini 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: **140 kg**, max. working radius: **3.000 mm**, vertical stroke: **1.600 mm**

Air consumption per cycle: **50–100 NI**

Mounting Options

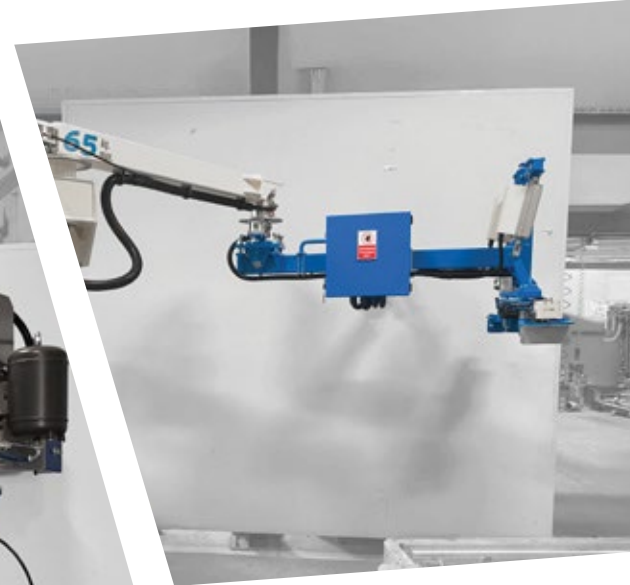
Forceful Mini Column Mounted **FMY**



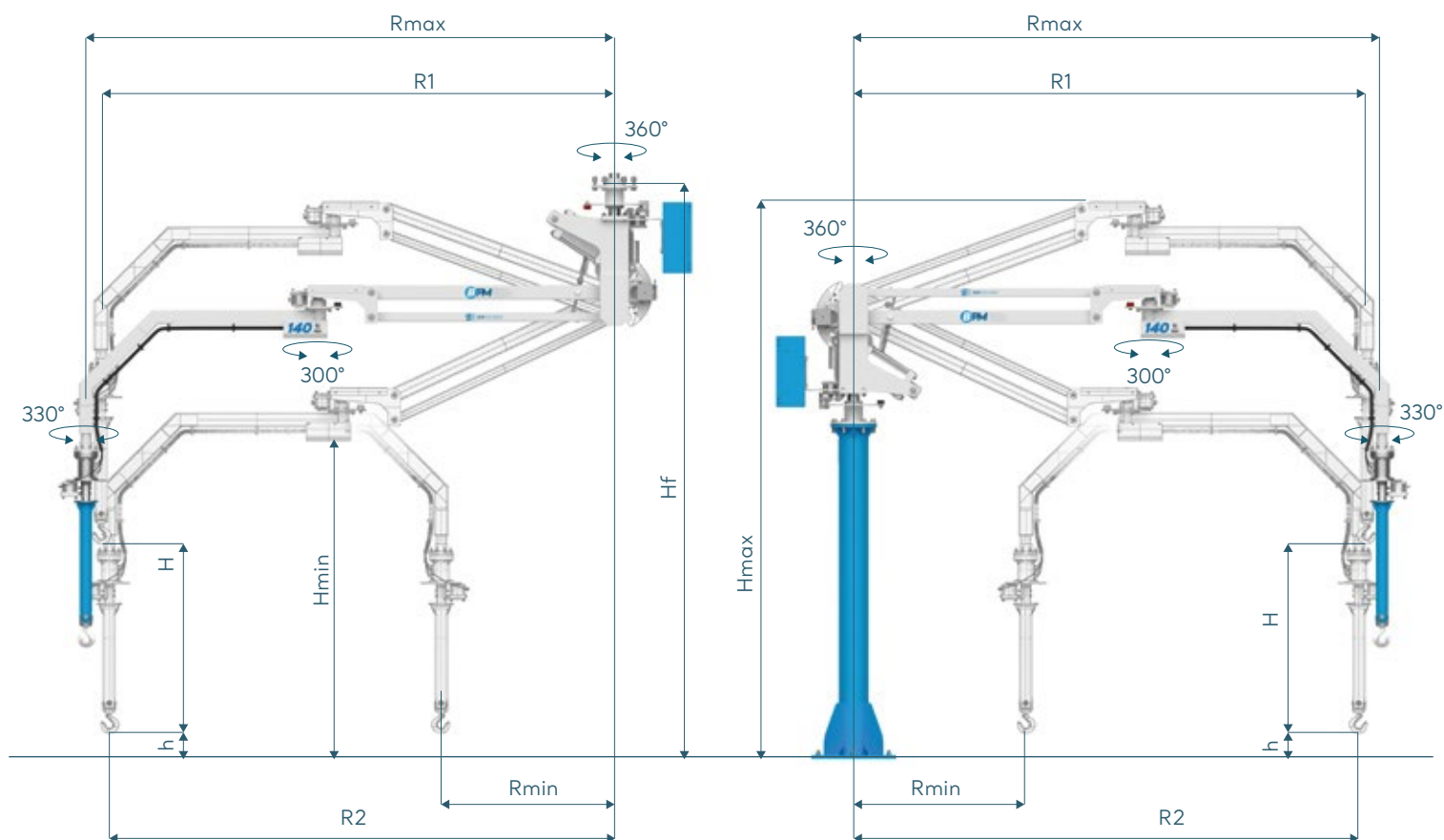
Forceful Mini Overhead Mounted **FMT**



Forceful Mini
Overhead Rail-Mounted **FMTA**



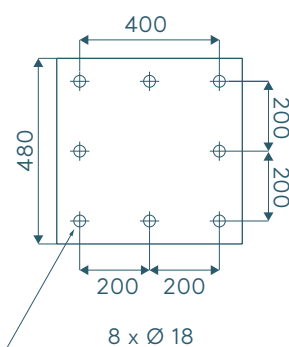
Forceful Mini Technical Details



Maximum Load Capacity [kg]

		140	140	100	70
Max. Working Radius [mm]	Rmax	1600	2000	2500	3000
Min. Working Radius [mm]	Rmin	680	750	785	850
Vertical Stroke [mm]	H	900	1130	1370	1600
Min. Pick-up Height [mm]	*h	200	200	200	200
Max. Manipulator Height [mm]	*Hmax	3150	3270	3390	3510
Max. Ceiling Mounting Height [mm]	*Hf	3630	3750	3870	4000
Lower Edge of Main Body [mm]	*Hmin	2000	2000	2000	2000
Working Radius at Top Position [mm]	R1	1445	1805	2265	2725
Working Radius at Bottom Position [mm]	R2	1645	1830	2295	2755

* Dimensions may vary depending on customer-specific requirements.



Base Plate Dimensions [mm]

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