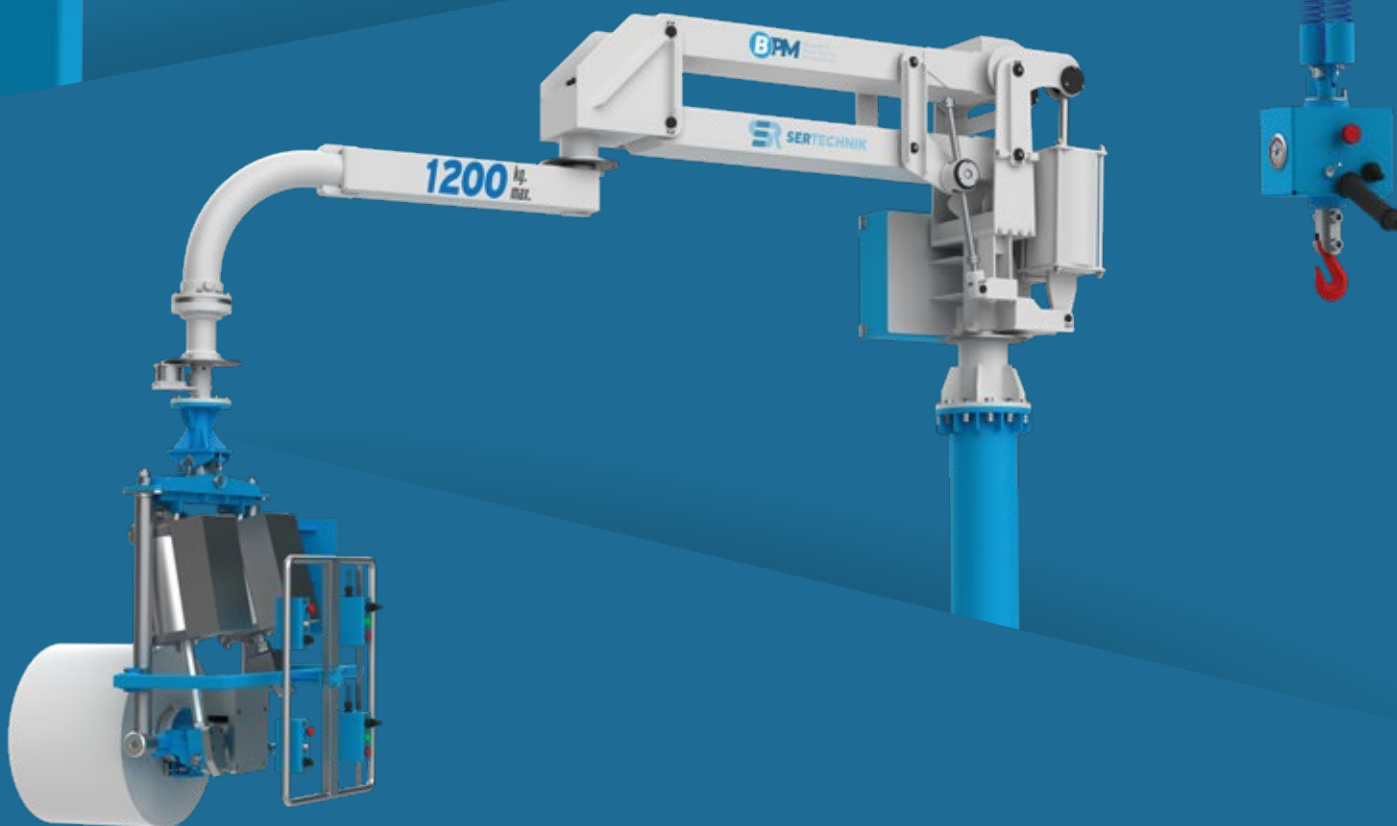




*Ergonomic,  
safe and effective  
handling.*



Bayerische  
Pneumatische  
Manipulatoren

# Here at BPM

we design, weld, machine, paint, assemble  
and quality check our products, all in one place!





## About Us

SERTECHNIK was founded in 2018 in the Bavarian town of Merching. Even if Sertechnik gives the impression of a young company, a closer look reveals that it is a company where experience, competence and know-how meet.

The founders of Sertechnik have built a solid reputation for providing reliable, high-quality solutions to industry. With this know-how and this competence, Sertechnik strives to become a subcontractor for other European companies.

Sertechnik specializes in the areas of welded construction, mechanical engineering, casting and assembly. Quality optimization as well as quality and cost-optimized solutions are daily routine for us.

Thanks to the ISO 9001 and ISO 3834 certifications available for our manufacturers, we can guarantee consistently high quality. We create all our designs and simulations with Solidworks Premium Office.

Our products are produced according to the following European Standards:

**MACHINES DIRECTIVE 2006/42/CE,  
DIN EN 14238:2004+A1:2009,  
DIN EN ISO 12100:2010 and DIN EN ISO 4414:2010.**

Our own product, the pneumatic manipulators BPM (Bavarian Pneumatic Manipulators), is of course also produced according to the standards mentioned and is equipped with the CE mark.

"BPM Industrial Manipulators is a brand of Sertechnik GmbH"

## Why BPM manipulators?

BPM manipulators are the answer to the need to handle loads of different types. We help in all possible areas, from warehouse logistics through various production areas to packaging industry.

BPM manipulators allow the ergonomic, safe and effective handling of almost all products. You can lift products up to 1,850 kg using only compressed air.

Due to the perfect load distribution, our manipulators enable almost weightless gripping and handling in all directions. The operator works effectively in maximum safety and ergonomic conditions.



# BPM Supporter

Pneumatic Manipulators with Double Rope System



Supporter Pneumatic Manipulators are designed to move operator-centered loads within the work area with minimum effort. It balances the weight of the load, allowing the operator to carry the load quickly and safely.

The balance of the load to be carried is provided by connecting two steel cables to the balance unit. Manipulators, either floor mounted or ceiling mounted. Manipulators are produced with standard hooks, but they can also be produced with special holders designed according to needs. The manipulator, which consists of two arms, has a total of two brakes on the arm rotation axis.

Works with dry, filtrated (40  $\mu\text{m}$ ) and oil free compressed air (min. 0.7/0.8 MPa).

**60 kg** max. weight capacity. **3.000 mm** max. radius. **1.600 mm** vertical lift.  
**21 nl/min** max. air consumption.

# Mounting Options

## Supporter Column Mounted SY



## Supporter Overhead Mounted ST

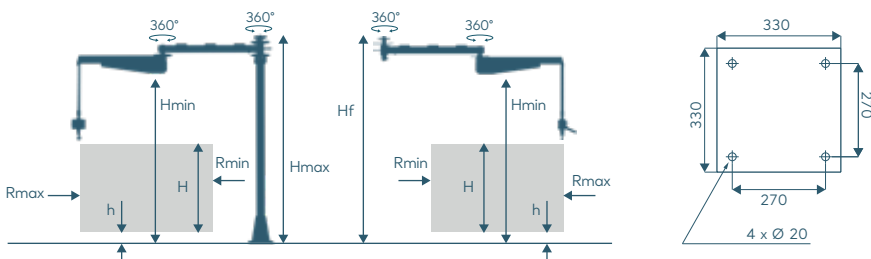


## Supporter Overhead Trolley Mounted STA

Weight Capacity / kg		60	35
Max. Radius / mm	Rmax	2500	3000
Min. Radius / mm	Rmin	190	200
Vertical Lift / mm	H	1600	1600
Min. Vertical Lift / mm	*h	200	200
Max. Height / mm	*Hmax	2825	2825
Max. Ceiling Height / mm	*Hf	2800	2800
Min. Height / mm	*Hmin	2300	2300

\* Marked dimensions can change according to the customer request.

Mounting Plate Dimensions (mm)



# BPM Transporter

Pneumatic Manipulators with Double Rope System



Transporter Pneumatic Manipulators are designed to move operator-centered loads within the work area with minimum effort. It balances the weight of the load, allowing the operator to carry the load quickly and safely.

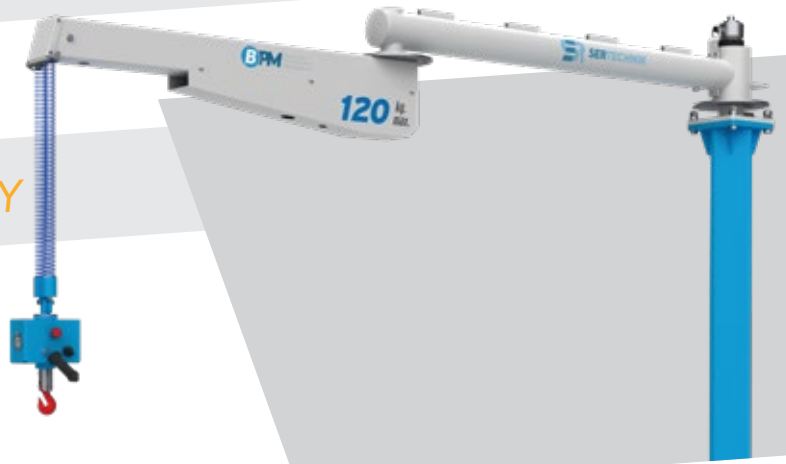
The balance of the load to be carried is provided by connecting two steel cables to the balance unit. Manipulators, either floor mounted or ceiling mounted. Manipulators are produced with standard hooks, but they can also be produced with special holders designed according to needs. The manipulator, which consists of two arms, has a total of two brakes on the arm rotation axis.

Works with dry, filtrated (40 µm) and oil free compressed air (min. 0.7/0.8 MPa).

**120 kg** max. weight capacity. **4.500 mm** max. radius. **1.800 mm** vertical lift.  
**50 nl/min** max. air consumption.

# Mounting Options

## Transporter Column Mounted TY



## Transporter Overhead Mounted TT

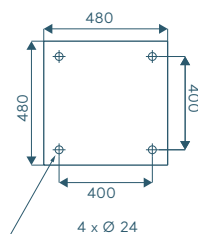
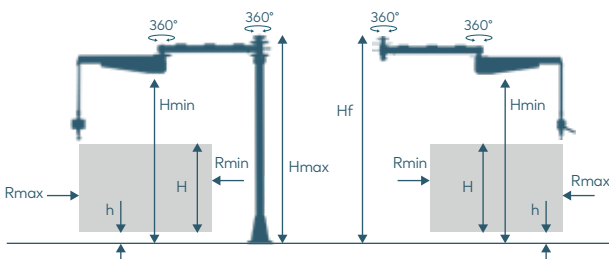


## Transporter Overhead Trolley Mounted TTA

Weight Capacity / kg		120	100	85	75
Max. Radius / mm	Rmax	3000	3500	4000	4500
Min. Radius / mm	Rmin	420	530	640	750
Vertical Lift / mm	H	1800	1800	1800	1800
Min. Vertical Lift / mm	*h	200	200	200	200
Max. Height / mm	*Hmax	3150	3150	3150	3150
Max. Ceiling Height / mm	*Hf	3150	3150	3150	3150
Min. Height / mm	*Hmin	2500	2500	2500	2500

\* Marked dimensions can change according to the customer request.

Mounting Plate Dimensions (mm)





*Gentle Pneumatic Manipulator,  
180 kg carrying capacity version,  
displayed with a clamp fixture.*

Gentle Pneumatic Manipulators are designed to move operator-centered loads within the work area with minimum effort. It balances the weight of the load, allowing the operator to carry the load quickly and safely.

The balance of the load to be carried is provided by connecting two steel cables to the balance unit. Manipulators, either floor mounted or ceiling mounted. Manipulators are produced with standard hooks, but they can also be produced with special holders designed according to needs. The manipulator, which consists of two arms, has a total of two brakes on the arm rotation axis.

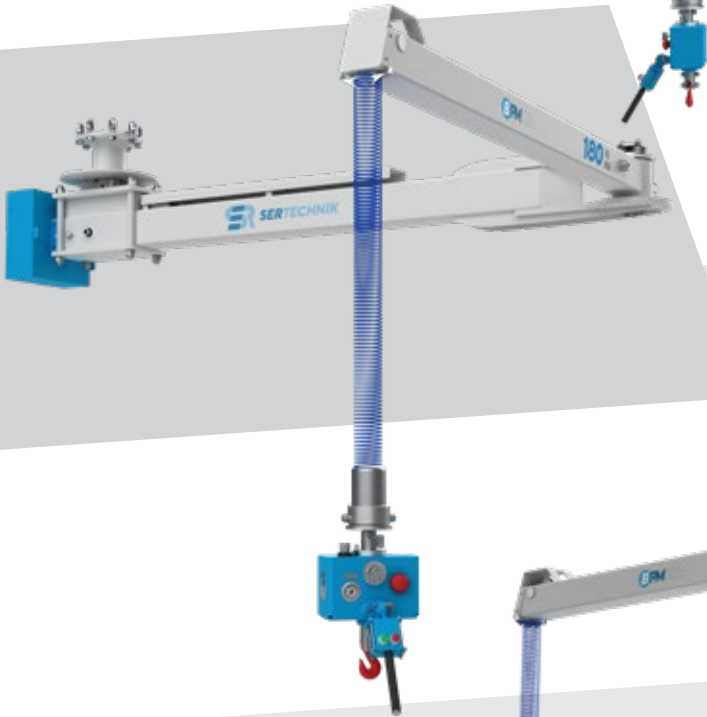
Works with dry, filtrated (40  $\mu\text{m}$ ) and oil free compressed air (min. 0.7/0.8 MPa).

**180 kg** max. weight capacity. **4.500 mm** max. radius. **2.000 mm** vertical lift.  
**140 nl/min** max. air consumption.



## Mounting Options

### Gentle Column Mounted GY



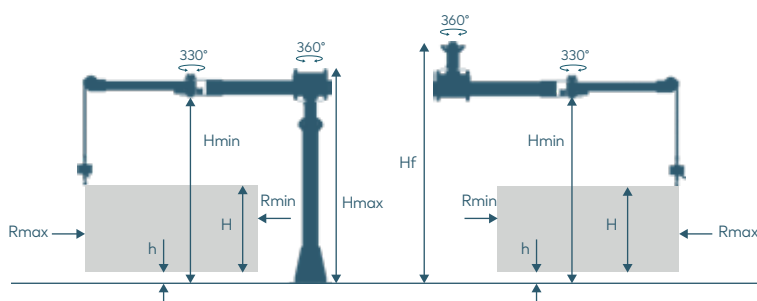
### Gentle Overhead Mounted GT

### Gentle Overhead Trolley Mounted GTA

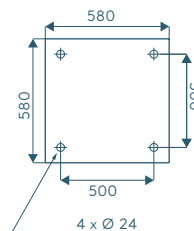
#### Weight Capacity / kg

		180	180	150	120
Max. Radius / mm	Rmax	3000	3500	4000	4500
Min. Radius / mm	Rmin	650	760	870	980
Vertical Lift / mm	H	2000	2000	2000	2000
Min. Vertical Lift / mm	*h	200	200	200	200
Max. Height / mm	*Hmax	3300	3300	3300	3300
Max. Ceiling Height / mm	*Hf	3750	3750	3750	3750
Min. Height / mm	*Hmin	2900	2900	2900	2900

\* Marked dimensions can change according to the customer request.



#### Mounting Plate Dimensions (mm)



# BPM Helpful

## Pneumatic Manipulators with Double Rope System



Helpful Pneumatic Manipulators are designed to move operator-centered loads within the work area with minimum effort. It balances the weight of the load, allowing the operator to carry the load quickly and safely.

The balance of the load to be carried is provided by connecting two steel cables to the balance unit. Manipulators, either floor mounted or ceiling mounted. Manipulators are produced with standard hooks, but they can also be produced with special holders designed according to needs. The manipulator moves under aluminium rails which makes it easy to handle and gives precision throughout the working area.

Works with dry, filtrated (40  $\mu\text{m}$ ) and oil free compressed air (min. 0.7/0.8 MPa).

**180 kg** max. weight capacity. **6.000 mm** max. radius. **1.600 mm** vertical lift.  
**68 nl/min** max. air consumption.

## Mounting Options

### Helpful Jib Arm HP

#### Weight Capacity / kg

Max. Radius / mm

Min. Radius / mm

Vertical Lift / mm

Min. Vertical Lift / mm

Max. Height / mm

Min. Height / mm

Rmax

Rmin

H

\*h

\*Hmax

\*Hmin

90 / 180

4000 / 6000

1350

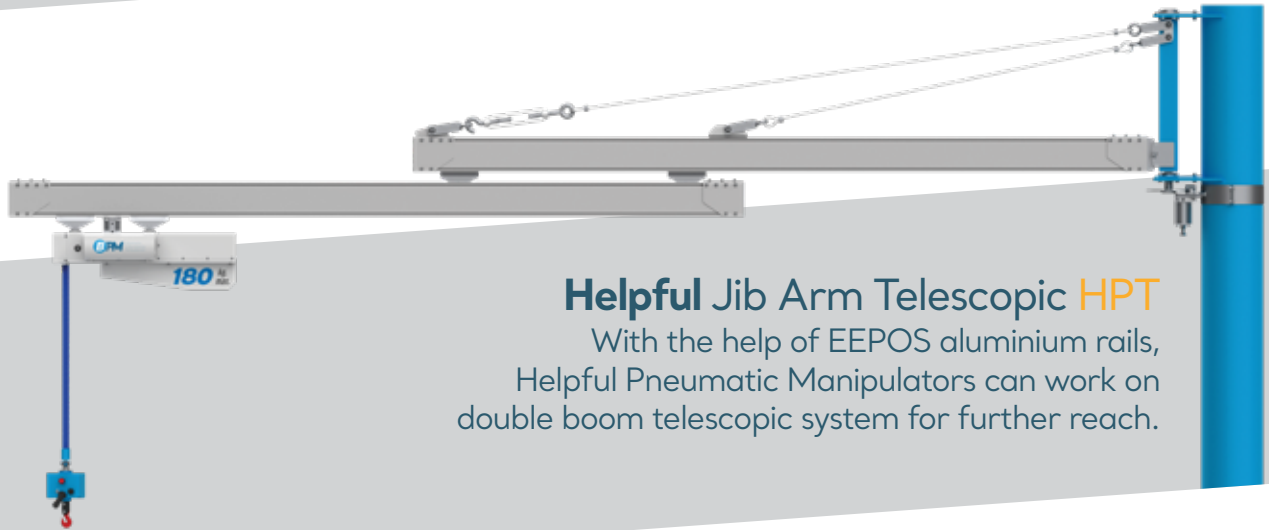
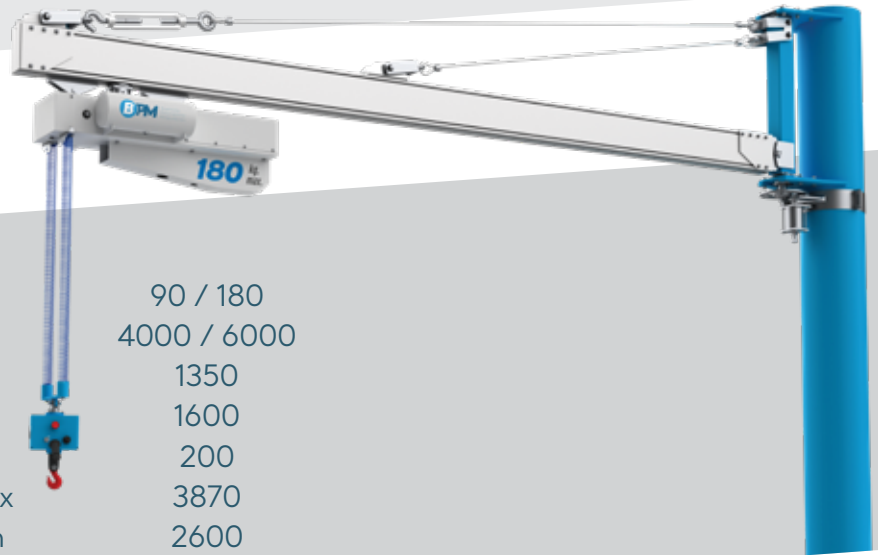
1600

200

3870

2600

\* Marked dimensions can change according to the customer request.

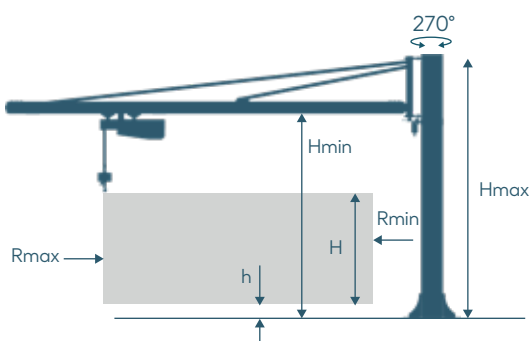
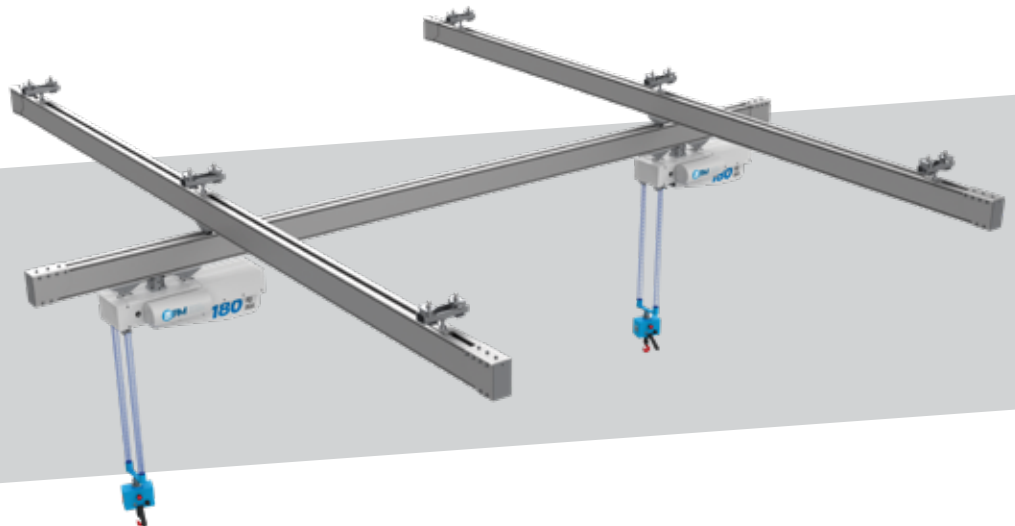


### Helpful Jib Arm Telescopic HPT

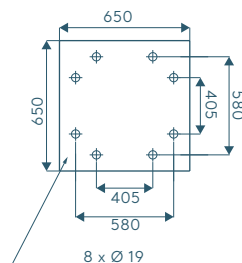
With the help of EEPOS aluminium rails, Helpful Pneumatic Manipulators can work on double boom telescopic system for further reach.

### Helpful Rail System HR

With our partnership with EEPOS Cranes, we can deliver special designs for your special needs.



Mounting Plate Dimensions (mm)



# BPM Forceful

Pneumatic Manipulators with Rigid Arms



*Forceful Pneumatic Manipulator,  
450 kg carrying capacity version,  
displayed with the vacuum operated fixture  
designed to carry glass panels.*

Forceful Pneumatic Manipulators are designed to move operator-centered loads within the work area with minimum effort. It balances the weight of the load, allowing the operator to carry the load quickly and safely.

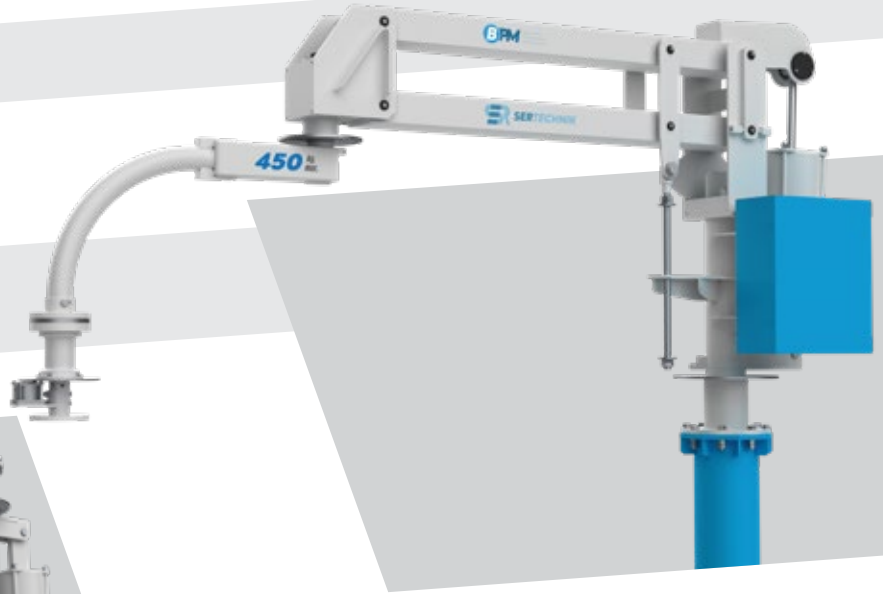
Manipulators, either floor mounted or ceiling mounted. Forceful is equipped with special gripping tools which are particularly suitable to manually handle center offset loads in any direction, in a weightless condition. The manipulator, which consists of two arms, has a total of two brakes on the arm rotation axis. It's versatile structure allows it to fit in any working environment.

Works with dry, filtrated (40  $\mu\text{m}$ ) and oil free compressed air (min. 0.7/0.8 MPa).

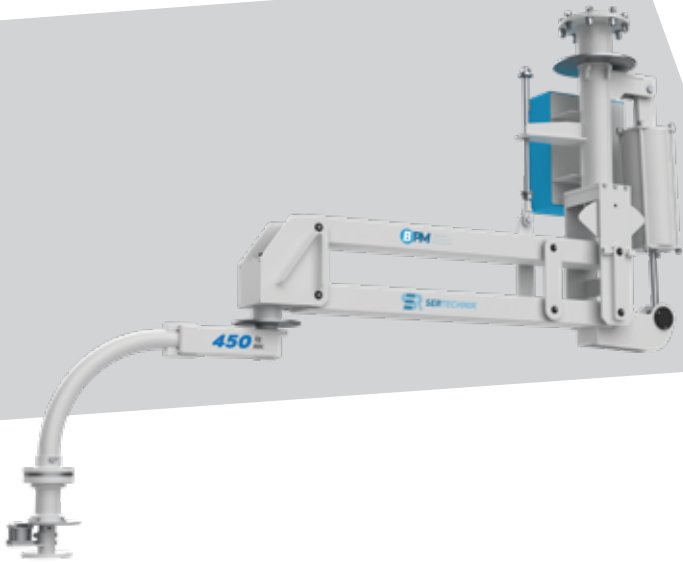
**450 kg** max. weight capacity. **4.000 mm** max. radius. **2.450 mm** vertical lift.  
**140 nl/min** max. air consumption.

# Mounting Options

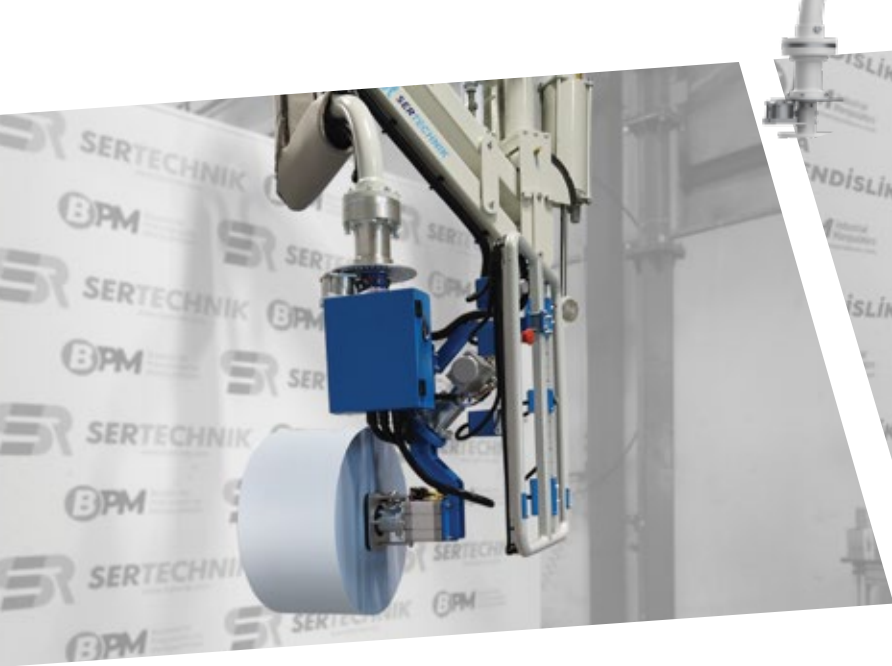
**Forceful** Column Mounted **FY**



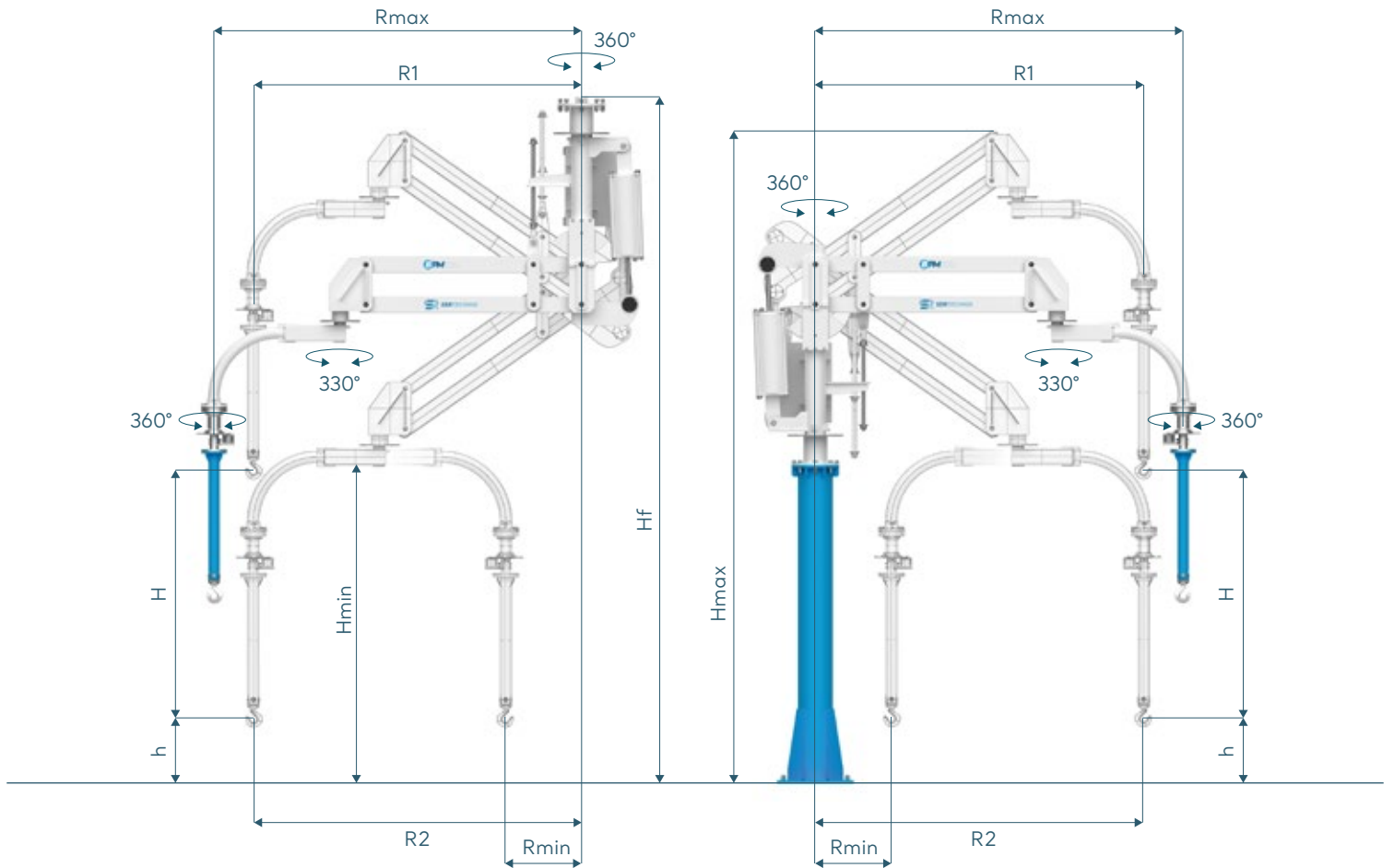
**Forceful** Overhead Mounted **FT**



**Forceful** Overhead Trolley Mounted **FTA**

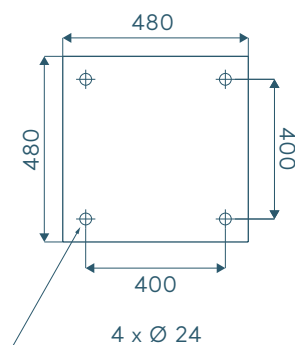


## Forceful Technical Details



Weight Capacity / kg		450	300	215	150	100
Max. Radius / mm	Rmax	2000	2500	3000	3500	4000
Min. Radius / mm	Rmin	580	755	850	1000	1150
Vertical Lift / mm	H	1300	1700	2000	2400	2450
Min. Vertical Lift / mm	*h	200	200	200	200	200
Max. Height / mm	*Hmax	3860	4070	4225	4420	4610
Max. Ceiling Height / mm	*Hf	4100	4100	4800	5000	5000
Min. Height / mm	*Hmin	2000	2000	2000	2000	2000
Radius 1	R1	1750	2170	2610	3035	3465
Radius 2	R2	1750	2170	2610	3035	3465

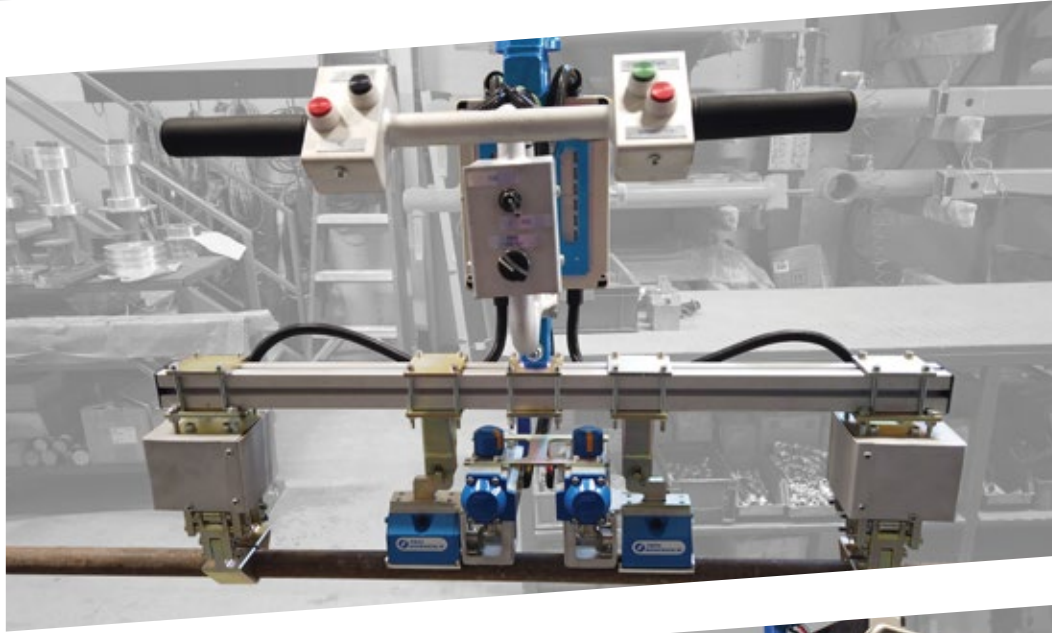
\* Marked dimensions can change according to the customer request.



Mounting Plate Dimensions (mm)

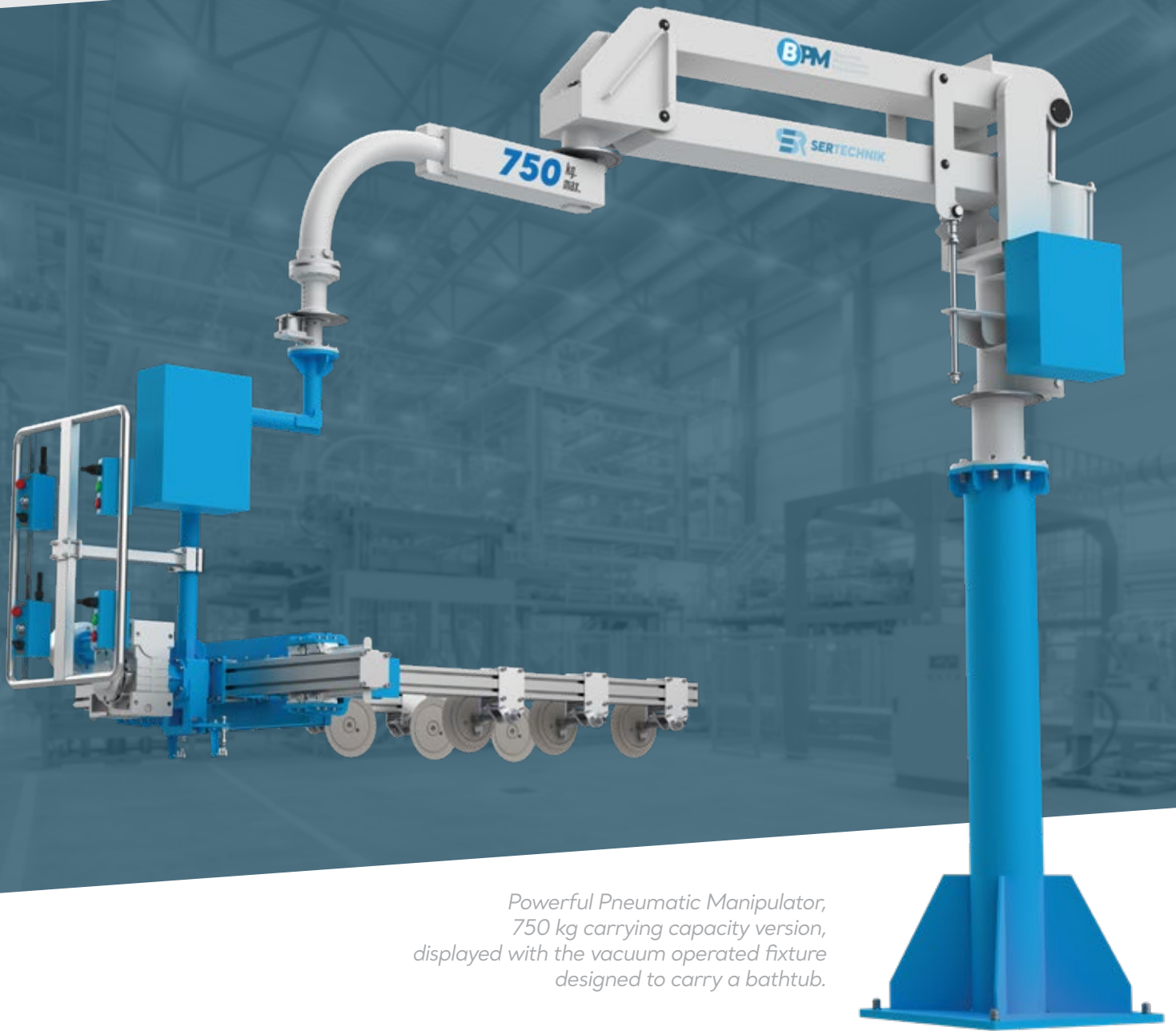
## Custom Design Fixtures

With BPM Manipulators, whatever load you carry, we develop a load-specific fixture design. Ergonomic, robust and for safe transport, we produce special fixtures with vacuum, pneumatic or magnetic catchers. They will carry any load with ease and comfort.



# BPM Powerful

Pneumatic Manipulators with Rigid Arms



*Powerful Pneumatic Manipulator,  
750 kg carrying capacity version,  
displayed with the vacuum operated fixture  
designed to carry a bathtub.*

Powerful Pneumatic Manipulators are designed to move operator-centered loads within the work area with minimum effort. It balances the weight of the load, allowing the operator to carry the load quickly and safely.

Manipulators, either floor mounted or ceiling mounted. Powerful is equipped with special gripping tools which are particularly suitable to manually handle center offset loads in any direction, in a weightless condition. The manipulator, which consists of two arms, has a total of two brakes on the arm rotation axis. It's versatile structure allows it to fit in any working environment.

Works with dry, filtrated (40  $\mu\text{m}$ ) and oil free compressed air (min. 0.7/0.8 MPa).

**750 kg** max. weight capacity. **4.500 mm** max. radius. **2.450 mm** vertical lift.  
**270 nl/min** max. air consumption.



# Mounting Options

## Powerful Column Mounted PY



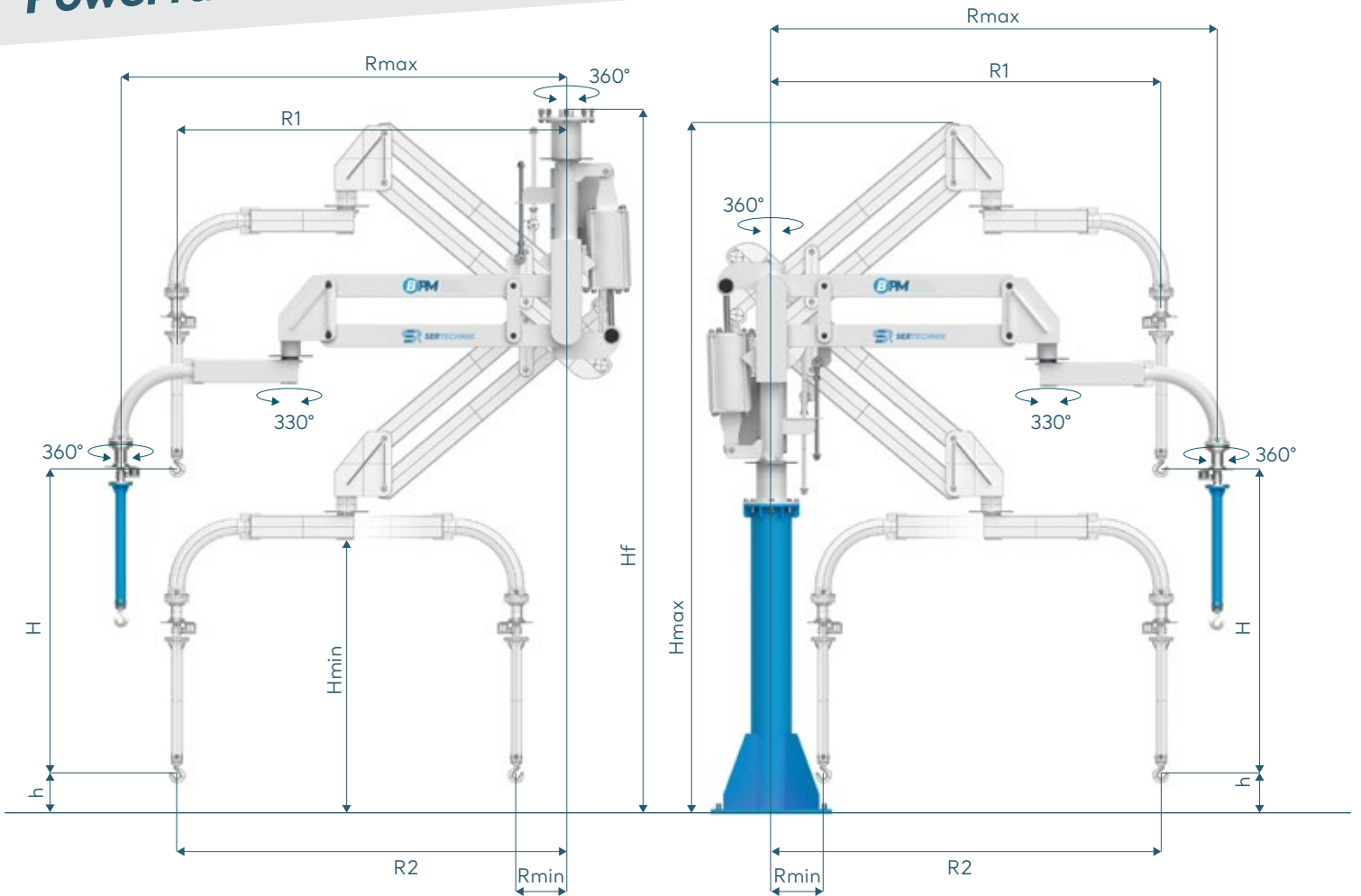
## Powerful Overhead Mounted PT



## Powerful Overhead Trolley Mounted PTA

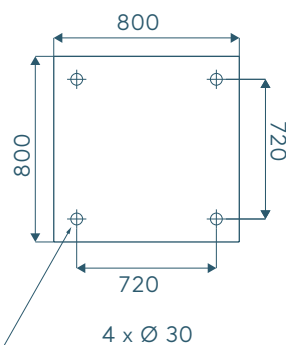


## Powerful Technical Details



Weight Capacity / kg		750	570	425	320	240
Max. Radius / mm	Rmax	2500	3000	3500	4000	4500
Min. Radius / mm	Rmin	755	850	1000	1150	1300
Vertical Lift / mm	H	1600	1900	2300	2450	2450
Min. Vertical Lift / mm	*h	200	200	200	200	200
Max. Height / mm	*Hmax	4215	4370	4560	4755	4950
Max. Ceiling Height / mm	*Hf	4200	4900	5000	5100	5100
Min. Height / mm	*Hmin	2000	2000	2000	2000	2000
Radius 1	R1	2195	2635	3060	3485	3915
Radius 2	R2	2195	2635	3060	3485	3915

\* Marked dimensions can change according to the customer request.



Mounting Plate Dimensions (mm)

# Custom Design Fixtures



# BPM Hercules

Pneumatic Manipulators with Rigid Arms



*Hercules Pneumatic Manipulator,  
1.200 kg carrying capacity version,  
displayed with the paper coil fixture.*

Hercules Pneumatic Manipulators are designed to move operator-centered loads within the work area with minimum effort. It balances the weight of the load, allowing the operator to carry the load quickly and safely.

Manipulators, either floor mounted or ceiling mounted. Hercules is equipped with special gripping tools which are particularly suitable to manually handle center offset loads in any direction, in a weightless condition. The manipulator, which consists of two arms, has a total of two brakes on the arm rotation axis. It's versatile structure allows it to fit in any working environment.

Works with dry, filtrated (40  $\mu$ m) and oil free compressed air (min. 0.7/0.8 MPa).

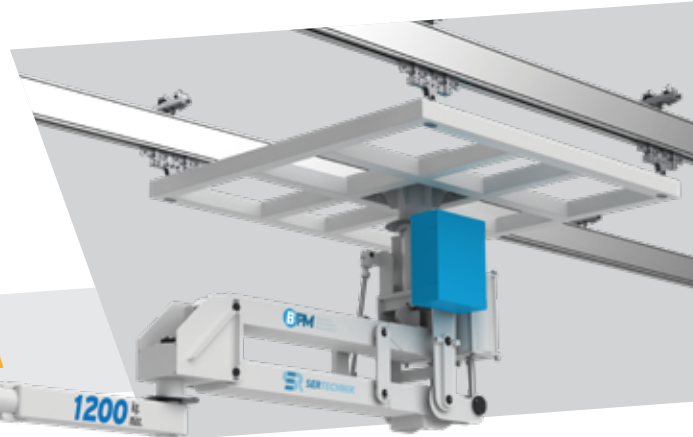
**1.200 kg** max. weight capacity. **4.500 mm** max. radius. **2.200 mm** vertical lift.  
**475 nl/min** max. air consumption.

# Mounting Options

**Hercules** Column Mounted *HY*



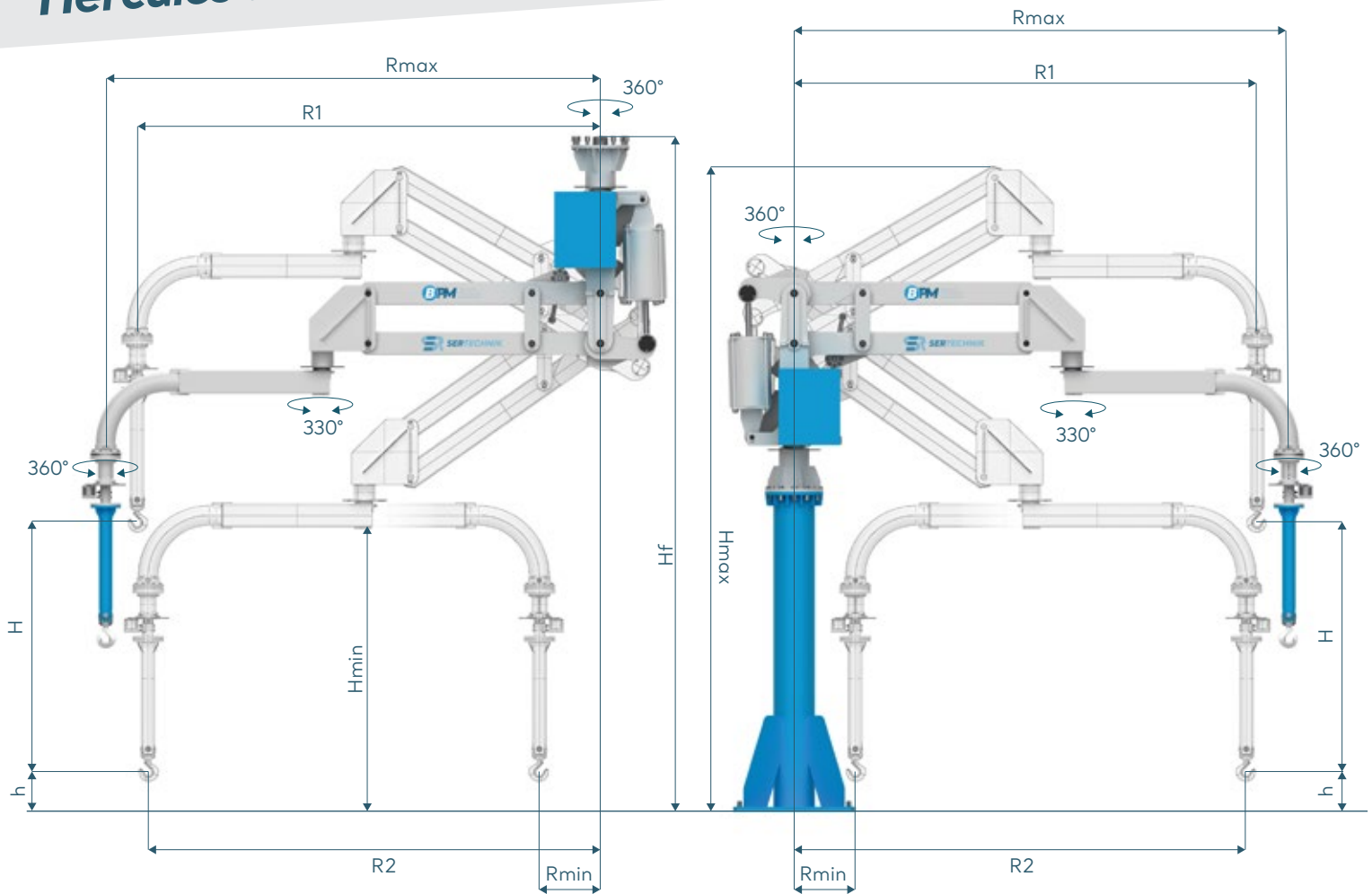
**Hercules** Overhead Mounted *HT*



**Hercules** Overhead Trolley Mounted *HTA*



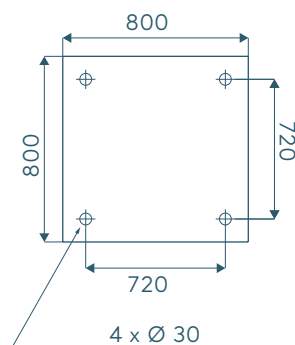
## Hercules Technical Details



### Weight Capacity / kg

		1200	1000	800	700	600
Max. Radius / mm	Rmax	2500	3000	3500	4000	4500
Min. Radius / mm	Rmin	832	882	990	1049	1167
Vertical Lift / mm	H	1400	1625	1900	2050	2200
Min. Vertical Lift / mm	*h	200	200	200	200	200
Max. Height / mm	*Hmax	4152	4375	4650	4800	4949
Max. Ceiling Height / mm	*Hf	4300	4415	4545	4616	4690
Min. Height / mm	*Hmin	2000	2000	2000	2000	2000
Radius 1	R1	2302	2771	3232	3711	4190
Radius 2	R2	2254	2715	3166	3640	4114

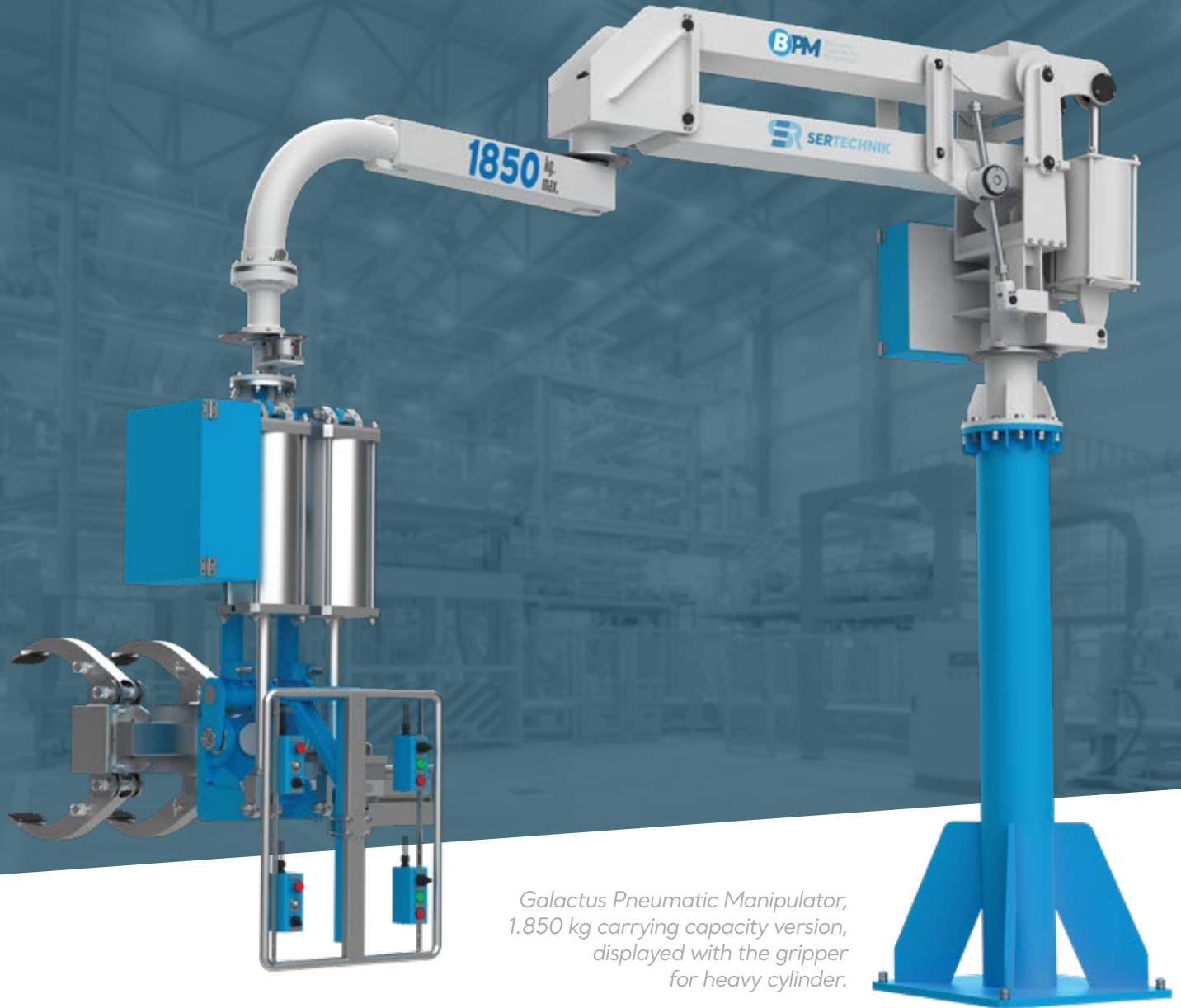
\* Marked dimensions can change according to the customer request.



Mounting Plate Dimensions (mm)

# BPM Galactus

Pneumatic Manipulators with Rigid Arms



*Galactus Pneumatic Manipulator,  
1.850 kg carrying capacity version,  
displayed with the gripper  
for heavy cylinder.*

Galactus Pneumatic Manipulators are designed to move operator-centered loads within the work area with minimum effort. It balances the weight of the load, allowing the operator to carry the load quickly and safely.

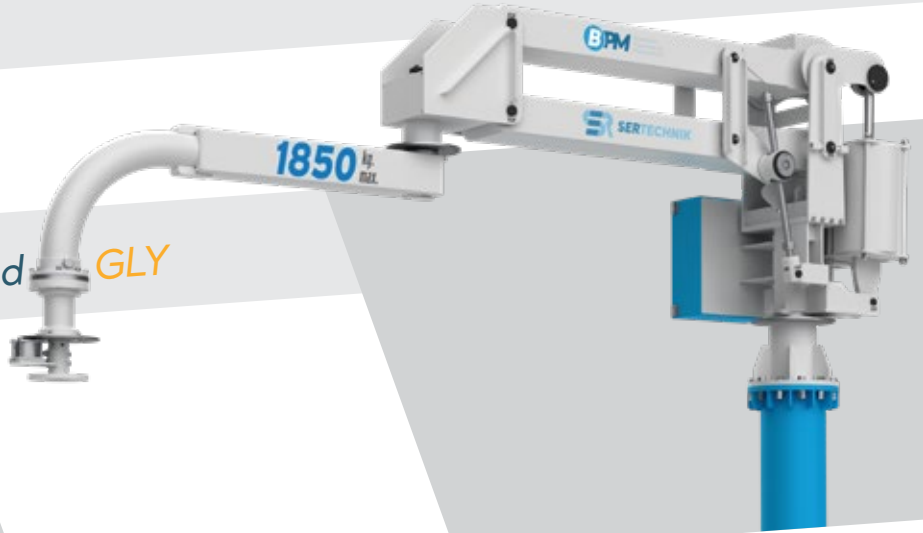
Manipulators, either floor mounted or ceiling mounted. Galactus is equipped with special gripping tools which are particularly suitable to manually handle center offset loads in any direction, in a weightless condition. The manipulator, which consists of two arms, has a total of two brakes on the arm rotation axis. It's versatile structure allows it to fit in any working environment.

Works with dry, filtrated (40  $\mu\text{m}$ ) and oil free compressed air (min. 0.7/0.8 MPa).

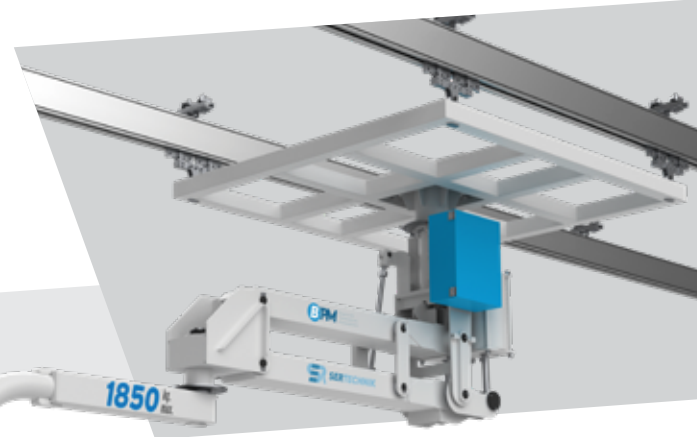
**1.850 kg** max. weight capacity. **5.000 mm** max. radius. **3.000 mm** vertical lift.  
**995 nl/min** max. air consumption.

# Mounting Options

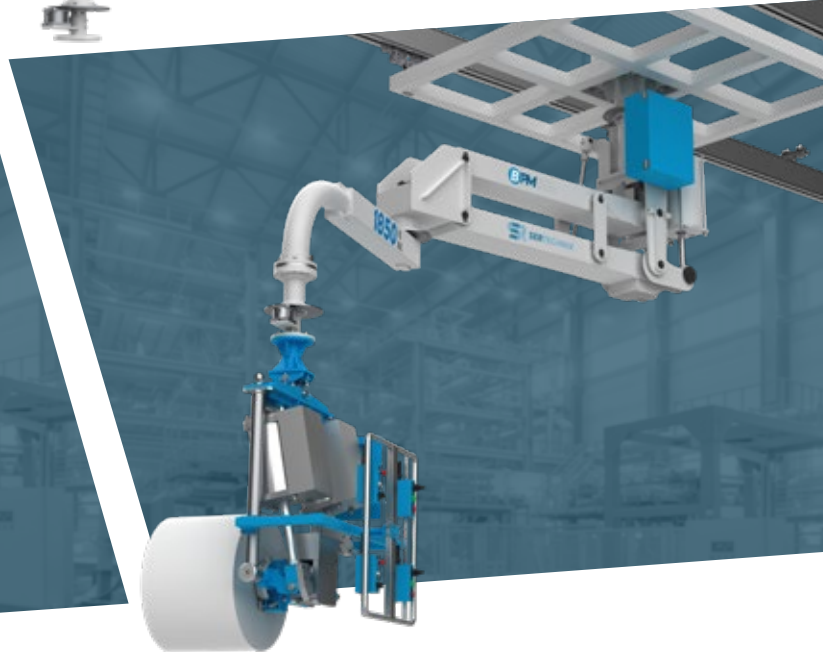
**Galactus** Column Mounted **GLY**



**Galactus** Overhead Mounted **GLT**

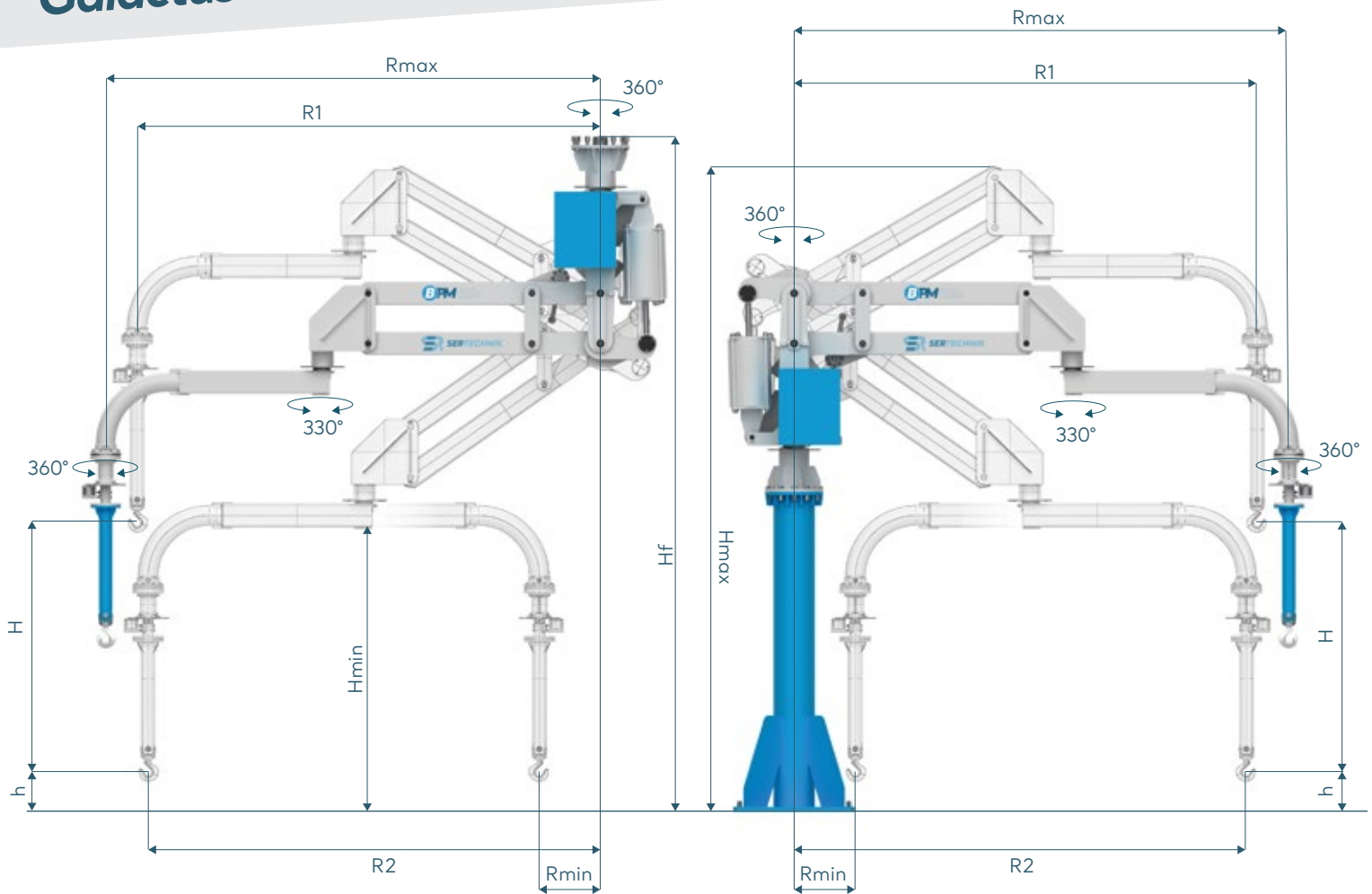


**Galactus** Overhead Trolley Mounted **GLTA**



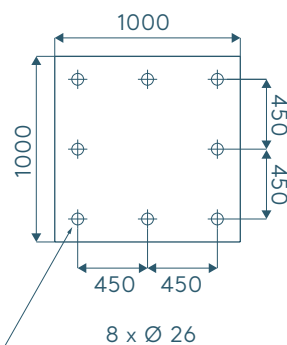


## Galactus Technical Details



Weight Capacity / kg		1850	1600	1300	1100	950	780
Max. Radius / mm	Rmax	2500	3000	3500	4000	4500	5000
Min. Radius / mm	Rmin	800	920	1034	1139	1250	1342
Vertical Lift / mm	H	1500	1830	2150	2450	2750	3000
Min. Vertical Lift / mm	*h	200	200	200	200	200	200
Max. Height / mm	*Hmax	4405	4734	5052	5350	5652	5902
Max. Ceiling Height / mm	*Hf	4822	4980	5132	5275	5420	5540
Min. Height / mm	*Hmin	2000	2000	2000	2000	2000	2000
Radius 1	R1	2259	2707	3156	3608	4060	4520
Radius 2	R2	2207	2643	3081	3523	3964	4415

\* Marked dimensions can change according to the customer request.



Mounting Plate Dimensions (mm)

# Special solutions for special needs!

## **BPM Reel Master** Servo & Pneumatic Manipulator

Capacity up to 1.000 kg.

Camera aided loading.

Servo precision with pneumatic system flexibility.

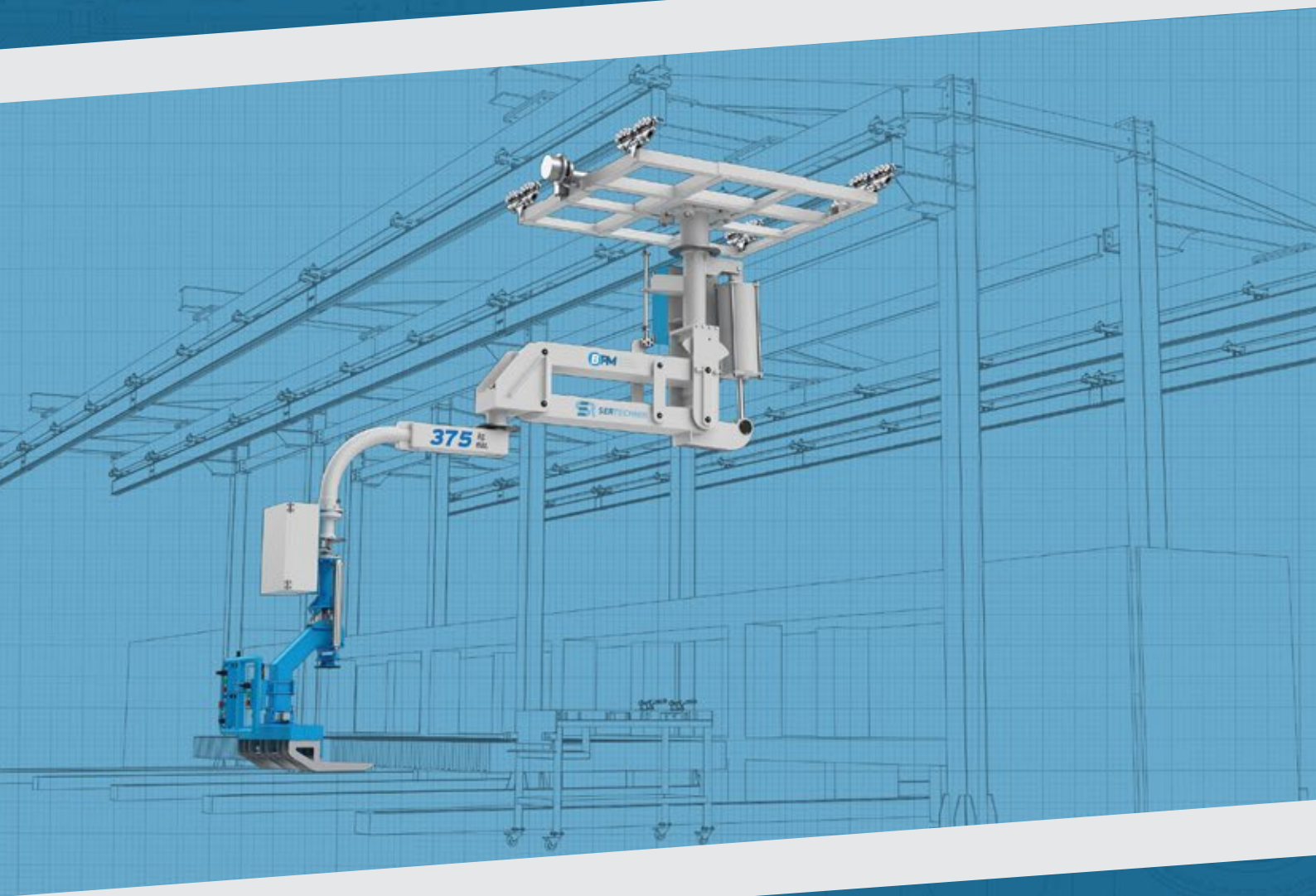
Serving capability up to 60 meters line.



**BPM Reel Master** is a tailor made solution where servo and pneumatics are used together for loading raw material bobbin's at continuously running lines such as carbon fiber, glass fiber, yarn and acrylic yarn.

# It is possible!

Because we design and produce  
just as you need.



**BPM** Bayerische  
Pneumatische  
Manipulatoren



**BPM** Bayerische  
Pneumatische  
Manipulatoren

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BPM Industrial Manipulators is a brand of Sertechnik GmbH