

# MOV↑↓MAT®

*SPECIAL ARTICULATED ARMS FOR  
DIFFERENT APLICATIONS*



## **TECNOSPIRO, S.A.**

Pol. Ind. Pla dels Vinyats, nau 2 –

08250 St.Joan de Vilatorrada (Barcelona) – Spain

☎ +34 93 8764359 – 93 876404  
E-mail: [comercial@tecnospiro.com](mailto:comercial@tecnospiro.com)

☎ +34 93 8767738 – 93 8764044  
<http://www.tecnospiro.com>



## **DESCRIPTION**

### **MOVIMAT<sup>®</sup> - 200**

The Movimat<sup>®</sup>-200 arm configuration keeps always the same radius, varying only the type of headmember ( 3 options) and the weight to hold up (there are 6 different options).

*Description in page 3*

### **MOVIMAT<sup>®</sup> - 300**

On Movimat<sup>®</sup>-300 range, the arm configuration is divided in 3 different groups: **parallel arm, articulated arm and headmember** (3 options) and with different weights to hold up. The user can choose every part by separate depending on the working area needed to cover and the weight of his tool.

*Description in page 4*

### **MOVIMAT<sup>®</sup> - 300 AIR**

The arm configuration is exactly the same as on the Movimat<sup>®</sup>-300 but the machine is prepared for being fixed on ceiling in inverted position.

*Description in page 5*

### **MOVIMAT<sup>®</sup> - 500**

On the range of Movimat<sup>®</sup>-500 there is the **parallel arm** (double) and the **head** (3 options). The user chooses every part by separate depending on the working area needed to cover and the weight of his tool.

*Description in page 6*

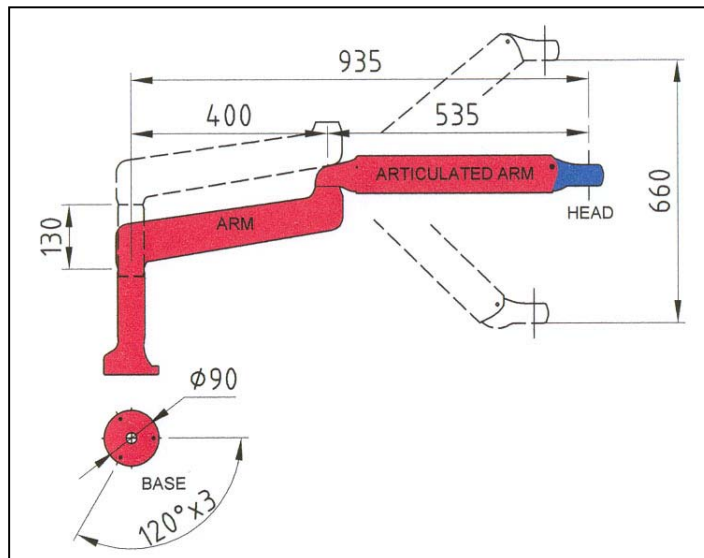
## MOVIMAT<sup>®</sup> – 200: Choice of the articulated arm

Depending on the needed headmember (3 options to choose) and the interval of weights to support, you choose the articulated arm. You always have the same working area.

Example of order:

**MOVIMAT PB4 + C12**, allows to bear on a weight between 2,2 Kg.– 4,1 kg., and has one flat headmember where to mount the wished device.

| Articulated arm | Vertical head C11<br>Flat head C12 |      | Orientable head C13       |      |
|-----------------|------------------------------------|------|---------------------------|------|
|                 | Interval of weights (Kg.)          |      | Interval of weights (Kg.) |      |
|                 | Min.                               | Max. | Min.                      | Max. |
| <b>PB1</b>      | 0,4                                | 1,1  | 0                         | 0,4  |
| <b>PB2</b>      | 0,9                                | 2,1  | 0,2                       | 1,4  |
| <b>PB3</b>      | 1,1                                | 2,5  | 0,4                       | 1,8  |
| <b>PB4</b>      | 2,2                                | 4,1  | 1,5                       | 3,4  |
| <b>PB5</b>      | 3,5                                | 6,2  | 2,8                       | 5,5  |
| <b>PB6</b>      | 4,9                                | 8,1  | 4,2                       | 7,4  |



| Headmember                     |                                |                                |
|--------------------------------|--------------------------------|--------------------------------|
|                                |                                |                                |
| <b>Vertical C11</b>            | <b>Flat C12</b>                | <b>Orientable C13</b>          |
| <b>Maximum torque = 300 Nm</b> | <b>Maximum torque = 300 Nm</b> | <b>Maximum torque = 75 Nm.</b> |

## MOVIMAT® – 300: Choice of the articulated arm

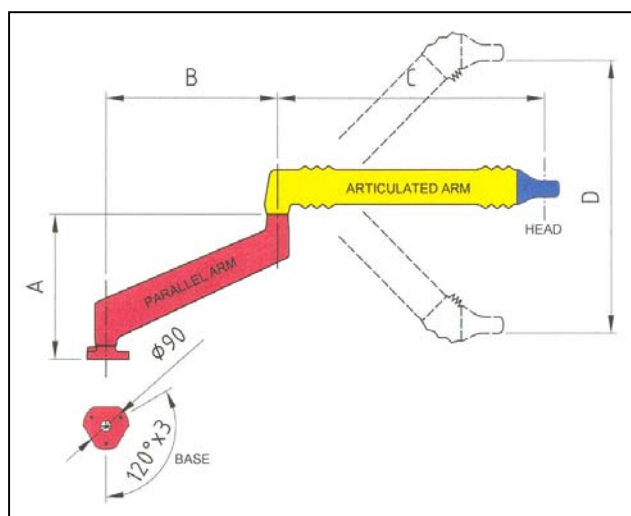
Define your priorities by looking at columns: “maximum working radius” & “range of weights to support”.

Once established the priorities, you must select the MOVIMAT® special arm configuration by adding the “head” needed (3 options).

### Example of order:

If your tool's weight is between 3÷8 Kg. and the maximum working radius is 1150 mm., your arm configuration must be P1+B12; adding one headmember (e.g. vertical) we complete the arm MOVIMAT P1 + B12 + C21

| Maximum Working radius (mm.) | Range of weights to support(Kg.)<br>Min. – Max. | Parallel arm | Measures A/B (mm) | Articulated arm | Measures C/D (mm.) |
|------------------------------|---|--------------|-------------------|-----------------|--------------------|
| 1.150                        | 1 ---- 4  | P1           | 400 / 500         | B11             | 700 / 700          |
|                              | 3 ---- 8  |              |                   | B12             |                    |
|                              | 8 ---- 18                                       |              |                   | B13             |                    |
|                              | 14 ---- 30                                      |              |                   | B14             |                    |
| 1.450                        | 1 ---- 5  | P1           | 400 / 500         | B15             | 1.000 / 1.100      |
|                              | 5 ---- 12                                       |              |                   | B16             |                    |
|                              | 9 ---- 20                                       |              |                   | B17             |                    |
| 1.500                        | 1 ---- 4  | P3           | 400 / 800         | B11             | 700 / 700          |
|                              | 3 ---- 8  |              |                   | B12             |                    |
|                              | 8 ---- 18                                       |              |                   | B13             |                    |
|                              | 14 ---- 30                                      |              |                   | B14             |                    |
| 1.800                        | 1 ---- 5  | P3           | 400 / 800         | B15             | 1.000 / 1.100      |
|                              | 5 ---- 12                                       |              |                   | B16             |                    |
|                              | 9 ---- 20                                       |              |                   | B17             |                    |



| Headmember                     |                                |                                |
|--------------------------------|--------------------------------|--------------------------------|
|                                |                                |                                |
| <b>Vertical C21</b>            | <b>Flat C22</b>                | <b>Orientable C23</b>          |
| <b>Maximum torque: 500 Nm.</b> | <b>Maximum torque: 500 Nm.</b> | <b>Maximum torque: 150 Nm.</b> |

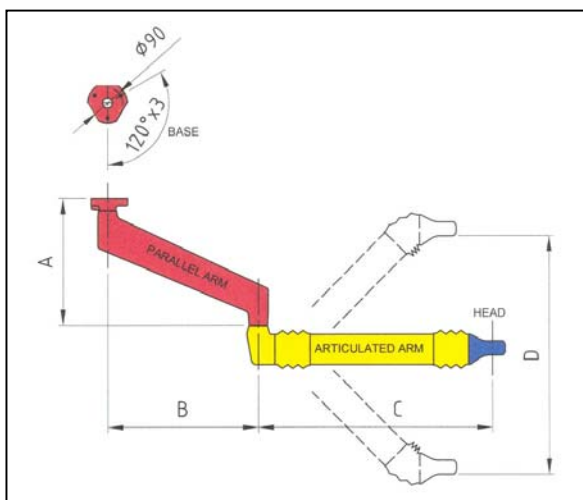
## MOVIMAT<sup>®</sup> – 300 AIR: Choice of the articulated arm


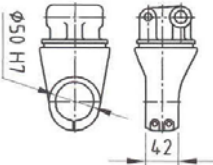

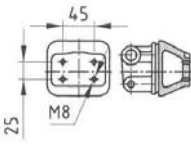

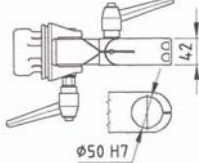
By looking to the columns “maximum working radius” & “range of weights to support”, you define your special arm needs.

Once you have established your priorities, you must follow the columns “parallel arm” and “articulated arm” and select the MOVIMAT<sup>®</sup> special arm configuration by adding the suitable headmember (3 options).

*Example of order:* If your tool weight is between 3÷8 kg and the wished maximum working area is 1150 mm, the right configuration is the A1+B12; by adding one headmember (e.g. “vertical”) we complete the arm MOVIMAT A1 + B12 + C21

| Maximum working radius (mm.) | Range of weights to support (Kg.) Min. – Max. | Parallel arm | Measures A/B (mm) | Articulated arm | Measures C/D (mm.) |
|------------------------------|---|--------------|-------------------|-----------------|--------------------|
| 1.150                        | 1 ---- 4                                      | A1           | 400 / 500         | B11             | 700 / 700          |
|                              | 3 ---- 8                                      |              |                   | B12             |                    |
|                              | 8 ---- 18                                     |              |                   | B13             |                    |
|                              | 14 ---- 30                                    |              |                   | B14             |                    |
| 1.450                        | 1 ---- 5                                      | A1           | 400 / 500         | B15             | 1.000 / 1.100      |
|                              | 5 ---- 12                                     |              |                   | B16             |                    |
|                              | 9 ---- 20                                     |              |                   | B17             |                    |
| 1.500                        | 1 ---- 4                                      | A3           | 400 / 800         | B11             | 700 / 700          |
|                              | 3 ---- 8                                      |              |                   | B12             |                    |
|                              | 8 ---- 18                                     |              |                   | B13             |                    |
|                              | 14 ---- 30                                    |              |                   | B14             |                    |
| 1.800                        | 1 ---- 5                                      | A3           | 400 / 800         | B15             | 1.000 / 1.100      |
|                              | 5 ---- 12                                     |              |                   | B16             |                    |
|                              | 9 ---- 20                                     |              |                   | B17             |                    |



| Headmember  |  |   |
|---|--|---|
|   |   |   |
| <b>Vertical C21</b>   | <b>Flat C22</b>  | <b>Orientable C23</b>   |
| Maximum torque: 500 Nm.   | Maximum torque: 500 Nm.  | Maximum torque: 150 Nm.   |

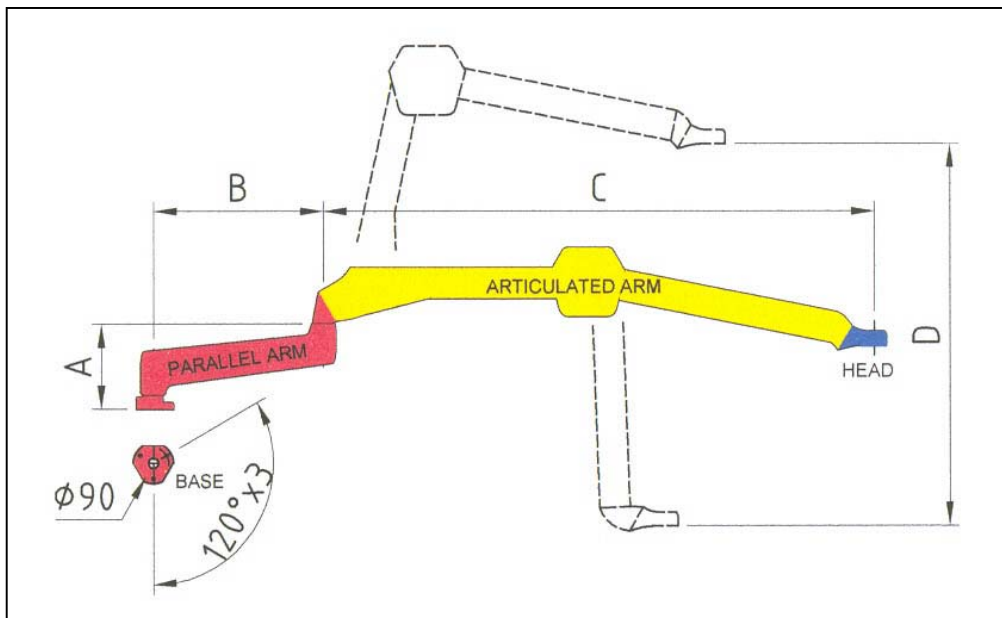
## MOVIMAT<sup>®</sup> – 500: Choice of the articulated arm

By looking into the columns “maximum working radius” & “range of weights to support”, you identify your priorities.

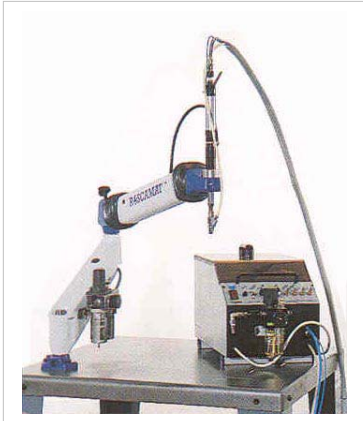
Once you have established them and following the columns “parallel arm” and “articulated arm”, you select the **MOVIMAT<sup>®</sup>** special arm configuration, by adding a “headmember” (3 options to choose).

*Example of order:* If you have to hold up a weight between 1÷3 kg. and the maximum working radius needed is 1150 mm. you get the arm P1 + B12; by adding the headmember (e.g. “vertical”) we complete the arm **MOVIMAT<sup>®</sup> P2 + B18 + C24**

| Maximum working radius (mm.) | Range of weights to support (Kg.)<br><i>Min. – Max.</i> | Parallel arm | Measures A/B (mm) | Articulated arm | Measures C/D (mm.) |
|------------------------------|---|--------------|-------------------|-----------------|--------------------|
| 2.000                        | 1 ---- 3  | P2           | 300 / 500         | B18             | 1.500 / 1.200      |
|                              | 3 ---- 6  |              |                   | B19             |                    |
| 2.300                        | 1 ---- 3  | P3           | 400 / 800         | B18             | 1.500 / 1.200      |
|                              | 3 ---- 6  |              |                   | B19             |                    |



| Headmember  |  |   |
|---|--|---|
|   |   |   |
| <b>Vertical C24</b>   | <b>Flat C25</b>  | <b>Orientable C26</b>   |
| <b>Maximum torque: 500 Nm.</b>  | <b>Maximum torque: 500 Nm.</b>   | <b>Maximum torque: 150 Nm.</b>  |



## MOVIMAT®

Combining the different structural parts, parallel arm, articulated arm and headmember, we can manufacture a large variety of articulated arm with different lengths and where to fix different motors, tools or devices loads. By this way, you obtain an easy moving and weightless arm to carry out different operations without operator's fatigue.

