The same calculation criteria used for GR rails is valid for the rails RM/RV. However, the different cage designs (plastic for horizontal application and brass for both horizontal & vertical applications) should be accounted for.

1) Higher load ratings
2) Higher rigidity
3) Better overlapping of the rollers, especially in case of short stroke
4) Higher sensibility to mounting errors and impurities.
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The supply of RM and RV rails as one single piece up to a maximum length of 1600 mm is also available.
Rosa Sistemi

CAGES FOR “RM/RV” TYPE

Rails type RM/RV can be equipped with needle cages. The cages are made of plastic and brass. The plastic cages are molded in single elements which can be assembled by means of dovetail snap in ends.

They are indicated for use in horizontal applications. This type of cage is supplied in the flat state. The angle necessary during assembly can be obtained by submerging the cage in oil at 80°C and cooling it.

For vertical applications the brass cage HW is recommended. The rollers in the cages are selected within 0.001 mm.

DETERMINATION OF CAGE LENGTH & LOAD RATING WITH PROTRUDING CAGES

The type in exam is RM/RV 2025-500. The stroke is 200 mm and the load 15.000 N.

For the calculation of the cage length, the formula \( L_g = L - C/2 \) is valid.

Thus, \( L_g = 500 - 200/2 = 400 \) mm.

As we previously state, the cage FF is supplied as single elements thus, each element length is assumed as the pitch which yields:

\[ \text{NE (number of elements)} = \frac{L_g}{t} = \frac{400}{32} \text{ thus } 12.5. \]

Therefore, if the rating for each element is 8680 N the system rating will be 104.160 N.

The condition \( P>F \): 104.160=15.000 N should also be verified.

If the table was mounted vertically, the cage type HW should have been chosen.

<table>
<thead>
<tr>
<th>Rail type</th>
<th>Cage</th>
<th>Ø D</th>
<th>( b_1 )</th>
<th>( S )</th>
<th>( t )</th>
<th>( a )</th>
<th>Nº rollers x t</th>
<th>P/t (N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 2025-2025</td>
<td>FF2025</td>
<td>2</td>
<td>6,8</td>
<td>15</td>
<td>32</td>
<td>2</td>
<td>7</td>
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<td>FF2535 zw</td>
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<td>20,5</td>
<td>45</td>
<td>2,4</td>
<td>8</td>
<td>17920</td>
</tr>
<tr>
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<td>FF3045 zw</td>
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<td>13,8</td>
<td>26</td>
<td>60</td>
<td>3</td>
<td>9</td>
<td>33750</td>
</tr>
<tr>
<td>3555</td>
<td>FF3555 zw</td>
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<td>17,8</td>
<td>31,5</td>
<td>75</td>
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<td>55000</td>
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<table>
<thead>
<tr>
<th>Rail type</th>
<th>Cage</th>
<th>Ø D</th>
<th>( b_1 )</th>
<th>( S )</th>
<th>( t )</th>
<th>( t_1 )</th>
<th>( a )</th>
<th>Nº rollers x t</th>
<th>P/t (N)</th>
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<td>3,2</td>
<td>10</td>
<td>55000</td>
</tr>
</tbody>
</table>
Rosa Sistemi

END PIECES WITH OR WITHOUT WIPER
FOR HORIZONTAL & VERTIICAL STROKE

* GM and GV endpieces cannot be mounted together

<table>
<thead>
<tr>
<th></th>
<th>RM/RV 9-2025</th>
<th>RM/RV 2025</th>
<th>RM/RV 2535</th>
<th>RM/RV 3045</th>
<th>RM/RV 3555</th>
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</thead>
<tbody>
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<td>a4</td>
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<td>d</td>
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<td>g</td>
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**FIXING SCREWS**

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<tr>
<th></th>
<th>RM/RV 9 2025</th>
<th>RM/RV 2025</th>
<th>RM/RV 2535</th>
<th>RM/RV 3045</th>
<th>RM/RV 3555</th>
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</thead>
<tbody>
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<tr>
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</tr>
<tr>
<td>Code</td>
<td>VM6</td>
<td>VM8</td>
<td>VM10</td>
<td>VM12</td>
<td>VM12/L</td>
</tr>
</tbody>
</table>

**ORDERING EXAMPLE**

For vertical movement rails type RM/RV 2535-700 stroke = 480 mm.
2 rails type RM 2535-700
2 rails type RV 2535-700
2 cages type HW 20 LG = 460 mm
4 end pieces type GM 2535

For horizontal & vertical movement - rails of different length type RM 3045-400 match with rails type RV 3045-800 stroke = 400 mm.
2 rails type RM 3045-400 chamfered
2 rails type RV 3045-800
2 cages type HW 25 Lg = 600 mm
4 end pieces type GV 3045

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