**Conveyor Roller Shafts / Mini-Rollers for Conveyors**

### Roller Conveyors - Overview

#### Selection Method of Roller Conveyors

1. **Selection of Roller Width**
   - Select a roller width according to outer size of conveyed objects.
   - Optimum width selection is "Object Width + 50mm or more".
   - If the objects to be conveyed are on pallets, it is acceptable for the roller width to be narrower than the object width as long as the objects do not come into contact with the conveyor frame.

2. **Selection of roller pitch, material, and diameter**
   - Select a roller width according to the bottom surface of conveyed objects as shown below:
     - **Selection of Roller Width**
       - When the conveyed objects have hard bottoms (Steel, Plastic): 3 Pitches (4 Rollers)
       - When the conveyed objects have soft bottoms (Cushion, Rubber, etc.): 5 Pitches (6 Rollers)
   - When impact is applied while rolling, impact load in 1.5-3 times larger than the usual load. Please select the conveyer with sufficient load capacity.

#### Conveyed object weight and self rolling incline

See Table 2 for the movements of conveyed objects by own weight (self rolling incline) on inclined conveyers.

#### Roller Strength (N)

- 1 according to Condition Formula "Table 1: Strength per roller"
- Select material and diameter from Table 1 according to Condition Formula "Table 1: Strength per roller"

#### Table 1: Strength per roller

<table>
<thead>
<tr>
<th>Roller Material</th>
<th>Roller Diameter</th>
<th>Roller Strength (N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic</td>
<td>38mm</td>
<td>115</td>
</tr>
<tr>
<td></td>
<td>44mm</td>
<td>151</td>
</tr>
<tr>
<td></td>
<td>50mm</td>
<td>191</td>
</tr>
<tr>
<td>Steel</td>
<td>38mm</td>
<td>174</td>
</tr>
<tr>
<td></td>
<td>44mm</td>
<td>214</td>
</tr>
<tr>
<td></td>
<td>50mm</td>
<td>259</td>
</tr>
</tbody>
</table>

#### Table 2: Self Rolling Incline

See Table 2 for the movements of conveyed objects by own weight (self rolling incline) on inclined conveyers.

### Conveyor Roller Shafts

- **Type**: ROCO, ROCON, ROCOM, ROCOG, ROCE
- **Material**: Steel, Plastic
- **Diameter**: Ø19xP20, Ø19xP30, Ø28xP30, Ø28xP50, Ø38xP50

#### Frame Side View

The frame side view shows the roller conveyor with a roller diameter of 38mm. The roller diameter is 28mm for conveyors with a roller diameter of 28mm.

#### Roller Material

- Steel: 10mm, 15mm, 20mm, 25mm
- Plastic: 10mm, 15mm, 20mm, 25mm

#### Roller Strength

- Steel: 10mm, 15mm, 20mm, 25mm
- Plastic: 10mm, 15mm, 20mm, 25mm

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**For Pricing and Days to Ship, Please Configure Online.**

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