Roller mill machines are widely used in food-processing industries, for various applications such as grinding grains and barley to make bread, flour and beer. These machines may also be used to produce a variety of powders and chemical products.

Megadyne Double Sided Roller Mill Belts are used in roller mills (food, corn, fruit, rice, flour, etc.) where the backside pulley has a reverse direction and relative slippage is necessary when the rolls are jammed.

Roller Mill Belts are available either Synchronous (8M, STD8 or 14M) on one side and Poly-V (PV-K or PV-L) on the other, double-sided synchronous or double-sided ribbed (PV-L). The ribbed profile allows functional slippage under jamming conditions and absorbs resulting torque spikes.
**Synchronous with PV back**

*The powerful solution.*

When both slippage and power are required, this is the best solution.

Synchronous side available in either RPP or STD profiles.
Ribbed side available in either PV-K or PV-L profiles.

**Double sided synchronous**

<table>
<thead>
<tr>
<th>ITEM CODE</th>
<th>DESCRIPTION</th>
<th>WIDTH (mm)</th>
<th>LENGTH (mm)</th>
<th>COMMONLY USED SETS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1778SLV14M6DDS</td>
<td>1778 SLV14 DD 60</td>
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<td>60</td>
<td>1778 SET of 2</td>
</tr>
<tr>
<td>1778SLV14M75DD</td>
<td>1778 SLV14 DD 75</td>
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<td>75</td>
<td>1778 SET of 2</td>
</tr>
</tbody>
</table>

**Double sided PV**

<table>
<thead>
<tr>
<th>ITEM CODE</th>
<th>DESCRIPTION</th>
<th>WIDTH (ribs)</th>
<th>LENGTH (mm)</th>
<th>COMMONLY USED SETS</th>
</tr>
</thead>
<tbody>
<tr>
<td>18-1657/2</td>
<td>PV BELT 22 PL DD</td>
<td>22</td>
<td>1765</td>
<td></td>
</tr>
<tr>
<td>18-9525/2</td>
<td>PV BELT 26 PL DD</td>
<td>26</td>
<td>1765</td>
<td></td>
</tr>
</tbody>
</table>

---

**Product**

**Synchronous with PV back**

The powerful solution.

When both slippage and power are required, this is the best solution.

Synchronous side available in either RPP or STD profiles.
Ribbed side available in either PV-K or PV-L profiles.

**Double sided synchronous**

The standard solution.

A complete range of belts, available in either RPP or STD profiles.
May be manufactured in different structures: standard, Silver or Gold.

**Double sided Poly-V**

The silent solution.

For applications where slippage is the name of the game and noise needs to be limited.
Available in either PV-K or PV-L profiles.
Application: Roller mill

Previous drive: Competitor’s standard synchronous belt with PV back

Previous drive problems: The high load was causing pulley wear and tooth jumps that damaged the cords and consequently the belts.

Solution: Megadyne’s SYNCHRONOUS 8M RPP GOLD WITH 12-RIBS PV-L, with its high breaking strength cords.

CASE STUDIES

Application: Roller mill

Previous drive: Competitor’s set of synchronous belts with PV back.

Previous drive problems: Tooth jump and requirement for increased power transmission within a limited amount of space.

Solution: Megadyne’s 35-RIBS-DOUBLE SIDED PV-L for a smooth, powerful and narrow drive.
# Roller mill machine

## Belt Types

<table>
<thead>
<tr>
<th>Belt Type</th>
<th>Tooth Pitch (mm)</th>
<th>Rib Pitch (mm)</th>
<th>Maximum Belt Width (mm)</th>
<th>Maximum Pitch Length (mm)</th>
<th>Maximum Number of Ribs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synchronous with PV back</td>
<td>8 &amp; 14</td>
<td>3.56(PVK) &amp; 4.70(PVL)</td>
<td>500</td>
<td>4400(8M) &amp; 4956(14M)</td>
<td>-</td>
</tr>
<tr>
<td>Double sided synchronous</td>
<td>8 &amp; 14</td>
<td>-</td>
<td>250/285</td>
<td>4400(8M) &amp; 4956(14M)</td>
<td>-</td>
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<tr>
<td>Double sided PV</td>
<td>-</td>
<td>3.56(PVK) &amp; 4.70(PVL)</td>
<td>500</td>
<td>5000</td>
<td>140/106</td>
</tr>
</tbody>
</table>

## Diagrams

- **Synchronous with PV back**
- **Double sided synchronous**
- **Double sided Poly-V**