V-BELTS & BANDED

RED POWER 3

50% MORE POWER
100% LESS MAINTENANCE
**optibelt RED POWER 3**

**WHY CHOOSE RED POWER?**

- **MAINTENANCE-FREE:** Low-stretch cords and transverse fiber blended core eliminate the need for tensioning maintenance.
- **MORE POWER:** Transfers up to 50% more power than conventional belts.
- **MATCHED-SETS:** S=C Plus length tolerances that are much closer than industry accepted matched-set tolerances, regardless of the date manufactured.
- **SHOCK RESISTANT:** The power of aramid cord belts with the capacity to absorb shock loads.
- **INCREASED LIFE:** Dual wrapped to increase durability.
- **GREATER EFFICIENCY:** Up to 97% efficient at transferring power.
- **TEMPERATURE RANGE:** Increased ranges from -40 to 212°F
- **ANTI-STATIC:** Meets ISO 1813 requirements for being anti-static.
- **BACK-BEND:** Flex range accommodates difficult idler stress.

**SUPERIOR CONSTRUCTION**

1. Premium polyester tension cords resist stretching to ensure the belt does not loose tension and power capacity over time.
2. Transverse fiber rubber increases rigidity strength while allowing the belt to flex around pulleys and idlers.
3. Dual wrapped for increased grip strength and greater wear resistance. This specialized wrap is rubber impregnated to fuse with the belt’s core during vulcanization.

**SET-CONSTANT (S=C PLUS) PRECISION V-BELT LENGTH TOLERANCES**

OPTIBELT’S quality materials and manufacturing processes ensure the tightest v-belt length tolerances. Any two wrapped v-belts over 47” are closer than industry standard “matched-sets”, regardless of the manufactured date. This means that any drive running 2 or more single v-belts will run better simply by using Optibelt S=C PLUS v-belts.

**B105 V-BELT EXAMPLE**

<table>
<thead>
<tr>
<th>Industry Standard Variance</th>
<th>S=C PLUS</th>
<th>MATCHED-SET</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8 in.</td>
<td>±1/8</td>
<td>+1/8</td>
</tr>
<tr>
<td>20 mm</td>
<td>-2 mm</td>
<td>+2 mm</td>
</tr>
<tr>
<td>13/16 in.</td>
<td></td>
<td>+13/16 in.</td>
</tr>
</tbody>
</table>

Example length variances are the same for B profile length ranges 90-144 in.

Industry standard length tolerances for a B105 v-belt will vary + or - 13/16” or more than 1-1/2”. OPTIBELT Set-Constant (S=C PLUS) tolerances vary + or - 1/8” or only 1/4” regardless of the date manufactured.
PRACTICAL TEST
16 hours a day, 260 days a year endurance run of a simulated feed mill pelletizer press application. The test simulated 25,000 hours.

With RED POWER the results are:
- 3 fewer belts used
- No-maintenance (re-tensioning)
- Superior wear resistance

The estimate cost savings over 6 years is 35%.

With 8 standard wedge belts
- SPB 3750 Ld
- Driver pulley: 8 grooves, 170mm dia.
- Driven pulley: 8 grooves, 900mm dia.
- Pulley face width: 6.2 inch
- Theoretical belt life: 25,000 hours
- Retensioning: 10 times

With 5 RED POWER 3
- SPB 3750 Ld
- Driver pulley: 5 grooves, 170mm dia.
- Driven pulley: 5 grooves, 900mm dia.
- Pulley face width: 4.7 inch
- Theoretical belt life: 25,000 hours
- Retensioning: None

MORE POWER
Standard V-belts lose tension over time and require regular re-tensioning to work efficiently. This requires hours of labor and downtime.

RED POWER’s unique construction keeps tension throughout its lifetime. With its added capability to transfer up to 50% more power and greater wear resistance, RED POWER 3 belts can save your company hundreds of dollars or more every year.

AVAILABLE SIZES

<table>
<thead>
<tr>
<th>PROFILE</th>
<th>SINGLE</th>
<th>BANDED (KB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>52 - 100 in.</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>52 - 148 in.</td>
<td>144 - 240 in.</td>
</tr>
<tr>
<td>3V</td>
<td>47.5 - 150 in.</td>
<td>50 - 150 in.</td>
</tr>
<tr>
<td>5V</td>
<td>50 - 315 in.</td>
<td>56 - 355 in.</td>
</tr>
<tr>
<td>8V</td>
<td>100 - 475 in.</td>
<td>100 - 475 in.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PROFILE</th>
<th>SINGLE</th>
<th>BANDED (KB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPZ</td>
<td>1202 - 3550 mm</td>
<td>1250 - 3550 mm</td>
</tr>
<tr>
<td>SPA</td>
<td>1207 - 4000 mm</td>
<td>1250 - 4500 mm</td>
</tr>
<tr>
<td>SPB</td>
<td>1250 - 8000 mm</td>
<td>2000 - 8000 mm</td>
</tr>
<tr>
<td>SPC</td>
<td>2000 - 8000 mm</td>
<td>3000 - 10000 mm</td>
</tr>
</tbody>
</table>

Additional production sizes not listed are available from the factory. Contact OPTIBELT or authorized dealer for stocked profiles & lengths: 800-292-6081

All OPTIBELT V-Belts meet or exceed RMA standards for oil & static resistance.
PROVEN ADVANTAGES IN THE FIELD

Petrobas, Reposol YPF and Capsa Capex in Patagonia’s desert region of South America have discovered the advantages of RED POWER no-maintenance belts.

In test trials under normal operating conditions each company was replacing their 5V belts at 9,850 operational hours on average. When they used RED POWER 5V belts in the same application they increased belt lifespan to over 23,000 operational hours.

In other applications, under adverse conditions, belt lifespan was increased from 1,500 operational hours to over 16,000 hours!

RED POWER not only dramatically increases belt lifespan, but they do not require maintenance. No re-tensioning needs to be performed until it is time to replace the belts.