



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.



**RED POWER 3:**  
THE FIRST AND ONLY MAINTENANCE-FREE V-BELT



## SUPERIOR CONSTRUCTION

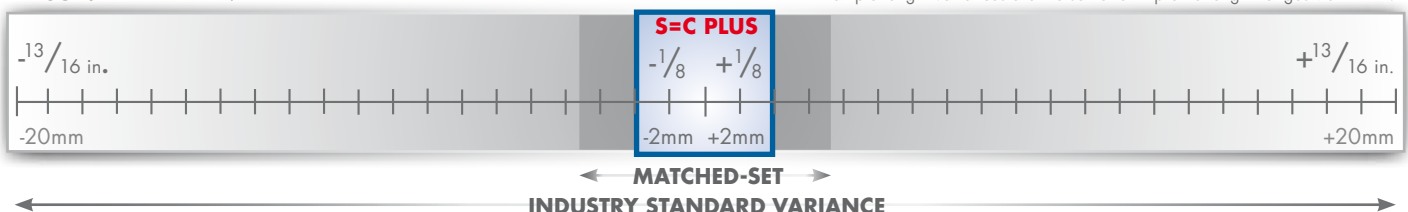
- 1 Premium polyester tension cords resist stretching to ensure the belt does not loose tension and power capacity over time.
- 2 Transverse fiber rubber increases rigidity strength while allowing the belt to flex around pulleys and idlers.
- 3 Dual wrapped for increased grip strength and greater wear 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

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

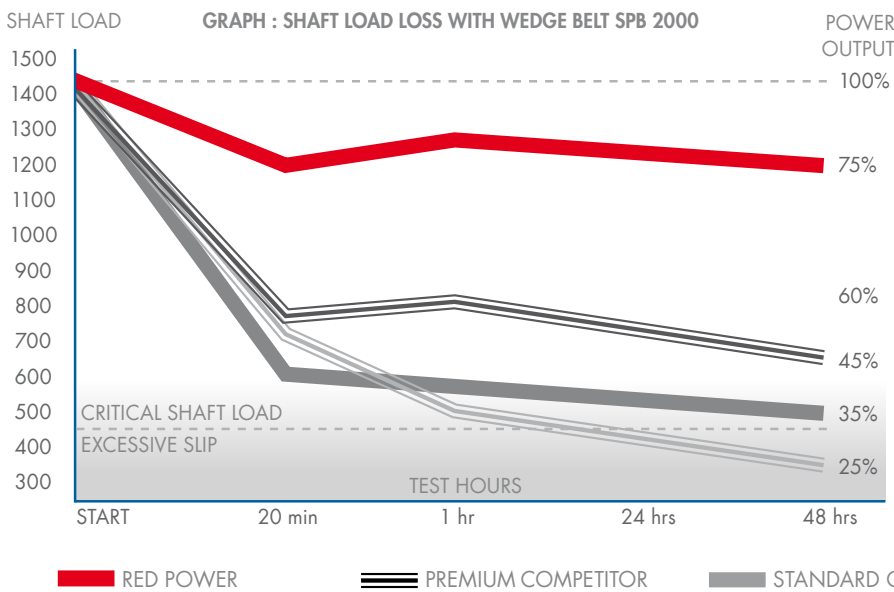
The estimate cost savings over 6 years is 35%.



With 8 standard wedge belts	SPB 3750 L <sub>d</sub>
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 L <sub>d</sub>
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

PROFILE	SINGLE	BANDED (KB)
A	52 - 100 in.	
B	52 - 148 in.	144 - 240 in.
3V	47.5 - 150 in.	50 - 150 in.
5V	50 - 315 in.	56 - 355 in.
8V	100 - 475 in.	100 - 475 in.

PROFILE	SINGLE	BANDED (KB)
SPZ	1202 - 3550 mm	1250 - 3550 mm
SPA	1207 - 4000 mm	1250 - 4500 mm
SPB	1250 - 8000 mm	2000 - 8000 mm
SPC	2000 - 8000 mm	3000 - 10000 mm

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.





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## PROVEN ADVANTAGES IN THE FIELD

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

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

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.

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.

