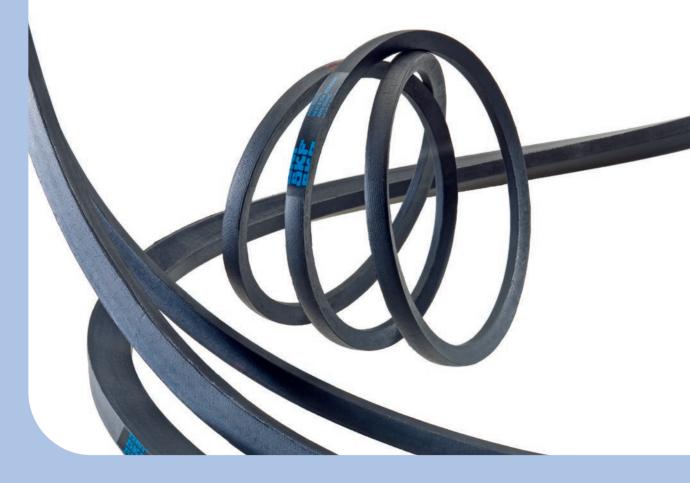
# Transmit the full power of SKF!

SKF Xtra Power Belts are designed to deliver up to 40% more power than standard wrapped belts. By replacing your existing belts with SKF Xtra Power Belts, the service life of your application can potentially be increased by up to 40%. In a nutshell: Increased service life = less downtime = less maintenance = less cost.





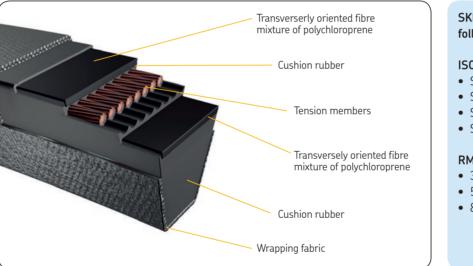
# SKF Xtra Power Belts: It's what's inside that really matters

At the first glance it might seem that SKF Xtra Power Belts are just ordinary belts but inside they exhibit extraordinary technology.

Tension members for the Xtra Power Belts are made of polyester to accommodate heavy tension loads with minimal elongation. A fibre filled compound above and below the tension members allows the belt to carry higher dynamic loads without compromising flexibility. The cover fabric provides excellent wear and abrasion resistance while providing excellent bending strength.

#### **Advantages**

- Homogeneous, coordinated integration of the belt, flank and pulley groove
- Reduced pulley groove wear due to optimized cover fabric
- Up to 97% drive efficiency
- Oil and heat resistant, antistatic cover
- One-shot tensioning, no need to re-tension the belts after the initial run-in period
- Improved smooth running behaviour and low vibration levels
- Good resistance to shock loads



# SKF Xtra Power Belts come in the following profiles:

#### ISO standard wedge

- SPZ
- SPA
- SPB
- SPC

#### RMA standard narrow wedge

- 3V
- 5V
- 8V

# **Applications**

SKF Xtra Power Belts are suitable for all kinds of industrial applications and some agricultural machines.



SKF Xtra Power Belts used in fan applications

# SKF Xtra Power Belts success story

The customer, Belgian zinc recycling company Rezinal, is one of the world's leading producers of secondary zinc. Rezinal was experiencing problems with the existing belt drives of its fans, which had to be changed every two to three months. After replacing the existing belt drives in the fan with SKF Xtra Power Belts, they have reaped significant benefits in the form of reduced unplanned downtime and savings in maintenance costs.

# The challenge

As a company that processes 50 000 tonnes of galvanized ash and 20 000 tonnes of zinc scrap each year, Rezinal has fans installed at its work site to extract zinc dust from the air and keep the air clean.

In 2008, the harsh factory environment finally took its toll on the fan belt drive operations. As a result, the existing belt drives had to be replaced every two to three months. This caused disruptions to the work processes and subsequently, prolonged downtime.

# The solution

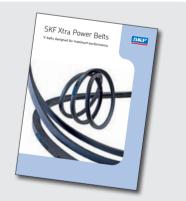
To resolve Rezinal's fan belt drive problems, SKF recommended replacing the existing belts with high quality belts from the SKF Xtra Power Belts line. Test belts were then installed in Rezinal's fan belt drives.

# The result

After Rezinal's existing fan belts were replaced by SKF Xtra Power Belts, the lifespan of the belts experienced a significant increase of two years. This meant reduced downtime, which translated into increased infrastructure reliability and safety levels within the company, as well as being environmentally friendly.







## Everything you need to know about SKF Xtra Power Belts – in one catalogue

Learn more about the complete range of SKF Xtra Power Belts in the *SKF Xtra Power Belts catalogue* (Publication 10552). A soft copy may be downloaded from the SKF Power Transmission website (www.skfptp.com).

# By developing the belt calculation app for iPhone/iPad, SKF Power Transmission has taken the extra step in supporting your business.

Here are some simple steps to using the SKF Power Transmission belt calculation app:

### Step 1 – Belt selection



Depending on your calculation preferences, select "Multiple solutions" or "Single solution". As a general rule of thumb, a "single solution" calculation is used for checking existing belt drives. The "multiple solutions" option allows for manual selection of belts and provides recommendations on possible belt types.

Motor power (kW)	29.00		After torque (Nm)	121.71	0
SF (V-belts)	1 0	>	SF (Trring)	1.2	0
		more optio	**		
Pulleys and speeds	÷				
Drivel's speed (cimirs)	1450 (		Max. Detro R deameter (mm)	200	0.
Drively speed primera	800		Max. DriveN diameter (mm)	300	0.
DriveN speed	2 (		DriveR shall destater gran)		*
			DriveN shaft damater (mm)		•
left and certier dia	larce				
Canter deterce	450 (				
Center distance Interance + (%)	s 0	÷			
Center distance tolerance - (%)	s 0	•			
		Read			
letts marked with *	ev rot mental	sn .			
		Next step			

#### Step 2 - Pulleys and belt input

Enter basic application data under the respective sections, i.e.:

- Power and drive condition
- Pulleys and speeds
- Belt and centre distance

#### Step 3 – Results

(SEE)	Results	6	
Toper Autors particut	Proc bank pullings	Start Same and	
PHO XPA1400			
Station of Industry or Sail and stati			
Discill parameter (see ) or Touriser of Section		100	
Shareh parallel must be builded of back		292	
Truck canad please		1964-67 B	
12 Advent Devil		647.54	
But good boul		8.87	
Artical environmentaria		0.00	
Public and PD		890.000	
PHG SPA1557XP			
Number of Antonios of Soil and provide			
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Double speed in their		784.85 3	
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Barly agreent (result		8.05	
Autor another Annual		4.95	
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PHG XPA1357			
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Shaft parent and a barbar of both		190	
Direct manufactured		701.05 3	
CC sistema (mett)		448.00	
Ket agent the		8.08	
defined service better		1.04	
Parameter and Phil		880 125	
PHO SPA1382			
Number of Subscript or Said could prive			
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Stational print		788.00 2	
CT. shekane levels		449.33	
Burt minut (stat)			
Arrest speeds hours			
Pointe mill (h)		104 427	
		and a	
PHG XPA1400			
Number of Address or Sol with provi			
Shaft barete and a Nation it bet		308	
The second s	Total: 29	100000	

Based on the information entered in the previous two tabs, the app will generate a list of recommended solutions for your application. You may then proceed to make a selection.

#### Step 4 – Reports

PHG	XPA1400
Input data	
Rated power [kW]	20
Rated torque [Nm]	131.7
Requested service factor	
Driver speed (nimin)	1450
Driven speed (rimin)	80
Dilite-	
Overall width (mm)	e
Overall length (mm)	610.34
Overall height (mm)	217.5
Pulley center distance (mm)	442.8
Span length (mm)	440.01
Actual driven speed (simin)	765.47
Designation	PHG XPA140
Number of belts	
Actual service factor	8.91
Belt power rating (kW)	19.40
Belt mass [kg]	0.9
Belt width (mm)	1
Direct pulling	
Designation	PHP 45PA112TE
Reference diameter (mm)	112.0
	10

The belt drive calculation app will generate a full report based on your selection in Step 3. This report can be saved as a PDF and sent out as an email.

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PUB PT/S7 12228/1 EN · February 2012

