



KOBEI
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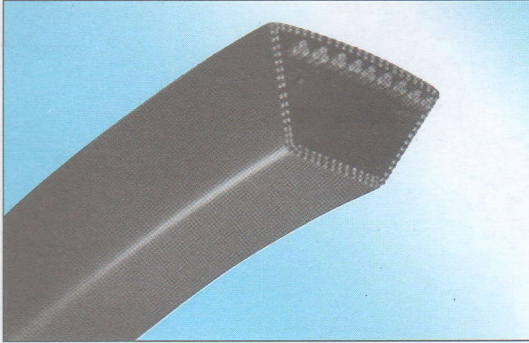
**KOBEI AUTOMOTIVE BELT
APPLICATION CATALOGUE**

2007/2008

FOR PASSENGER CARS &
LIGHT DUTY COMMERCIAL VEHICLES

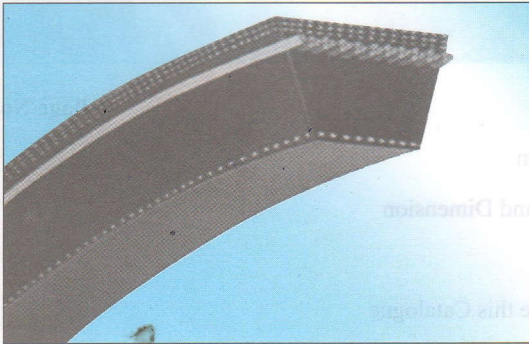
Introduction

>> KOBEI Automotive Belts Profile



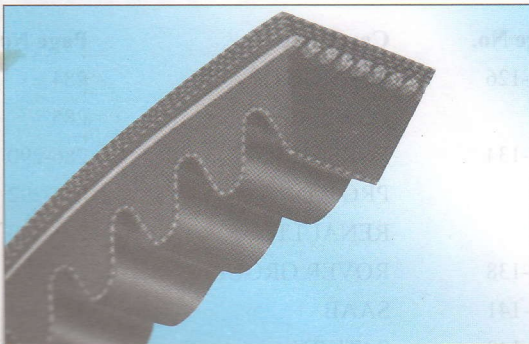
REDSEAL

- Enveloped with wear resistant and flexible fabric
- Minimized belt noise generation
- Substantial availability
- Heat resistant
- Temperature range -30°C to +80°C



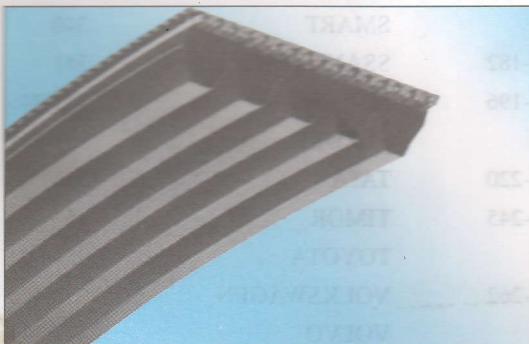
KRAF

- Laminated fabric construction minimizes belt noise
- Large gripping power minimizes belt slip
- Superior abrasion, crack, shock and bending resistance
- Heat and oil resistant
- Temperature range -30°C to +100°C



KRPF

- Cogged construction provides greater flexibility
- Allows use of smaller pulleys
- Smaller curvature radius
- Heat and oil resistant
- Temperature range -30°C to +100°C

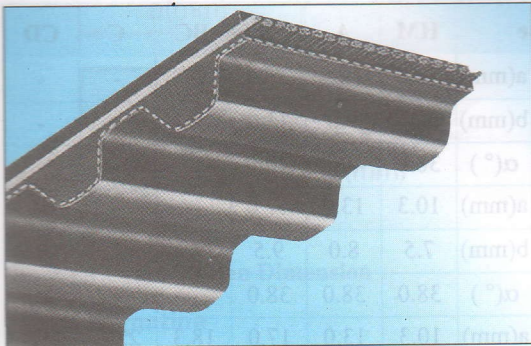


RIB-ACE

- Flexibility allows use of smaller pulleys on high speed and multi-pulley drives
- Excellent reverse bend application
- Heat and oil resistant
- Temperature range -30°C to +100°C

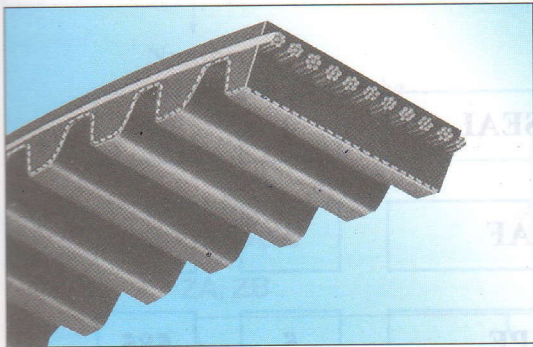
Introduction

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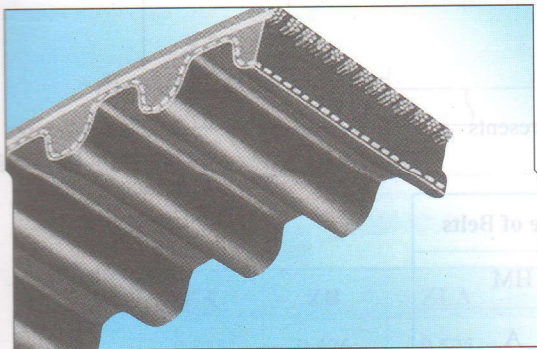
Trapezoidal Synchronous (ZA, ZB, ZLA, ZLB)

- High tensile strength with minimum belt stretch
- Minimized weight and noise compared to chain drives
- Provides intense precision



Super Torque Synchronous (STP, FS)

- Unique tension member provides stretch and resistance to elongation
- Smooth engagement of belt with pulley allows high linear speed, high efficiency and reduced system layout

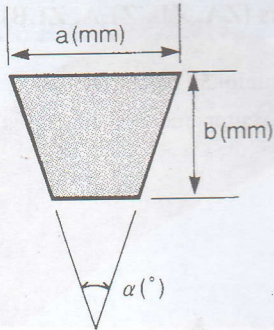


High Functional Drive (R, Y, RU, YU)

- Rounded tooth profile features enhanced pressure dispersion, minimized noise drive and higher level of resistance
- Smooth engagement of belt with pulley allows high speed operation

Belt Type and Dimension

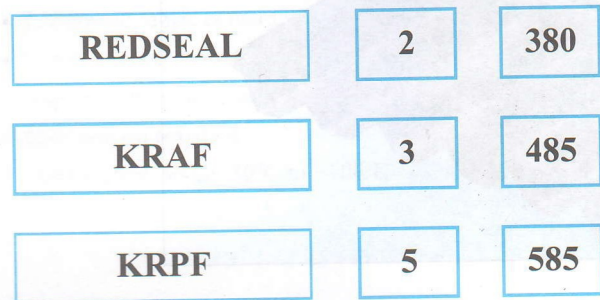
>> 1. V-Belt



Belt Cross Section Dimension

Belt Type		HM	A	B	BC	C	CD
REDSEAL (Wrapped)	a(mm)	10.0	12.5	16.5	-	-	-
	b(mm)	8.0	9.0	11.0	-	-	-
	α(°)	38.0	40.0	40.0	-	-	-
KRAF (Multiply plain)	a(mm)	10.3	13.0	17.0	-	-	-
	b(mm)	7.5	8.0	9.5	-	-	-
	α(°)	38.0	38.0	38.0	-	-	-
KRPF (Rawedge cogged)	a(mm)	10.3	13.0	17.0	18.3	22.3	25.4
	b(mm)	8.3	9.0	11.5	11.5	13.5	13.5
	α(°)	38.0	38.0	38.0	38.0	38.0	38.0

Size Designation



Construction

Letter code represents the construction of belt.

Letter Code	Construction
REDSEAL	Wrapped
KRAF	Rawedge Multiply
KRPF	Rawedge Cogged

Type

The first figure represents the type of belt.

Figure	Type of Belts
2	HM
3	A
5	B
9	BC
7	C
8	CD

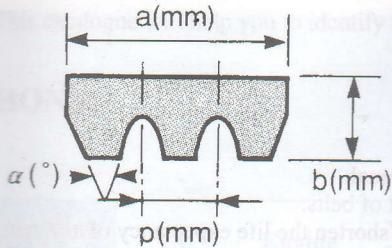
Length

The last 3 figures represent belt length in inch.

Example:
380 — 38"
485 — 48.5"
585 — 58.5"

Belt Type and Dimension

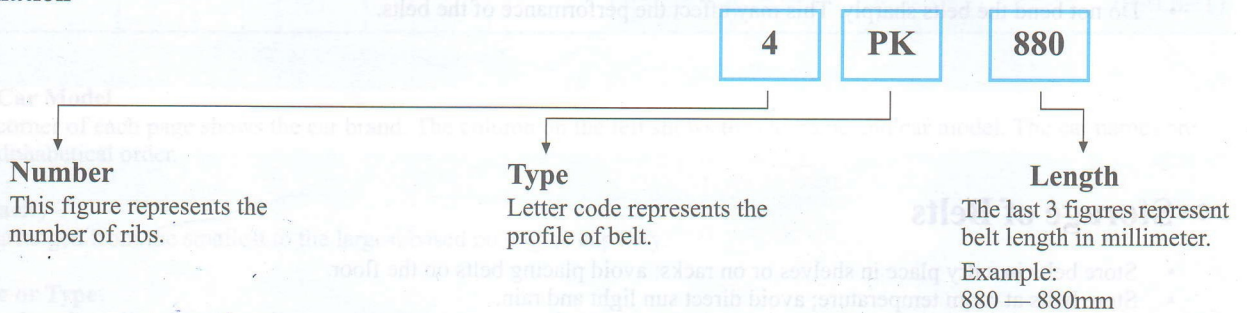
>> 2. Ribbed Belt



Belt Type	PK	
RIB-ACE	a(mm)	3.56 x N (ribs)
	b(mm)	4.3
	$\alpha(^{\circ})$	40.0
	p(mm)	3.56

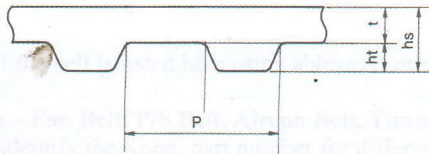
Belt Cross Section Dimension

Size Designation

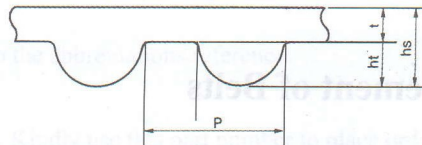


>> 3. Timing Belt

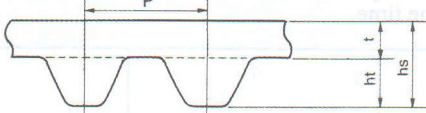
ZA, ZB



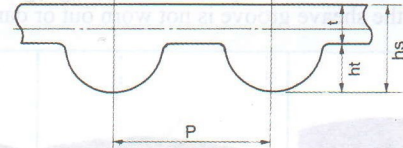
ZLA, ZLB



STP, FS



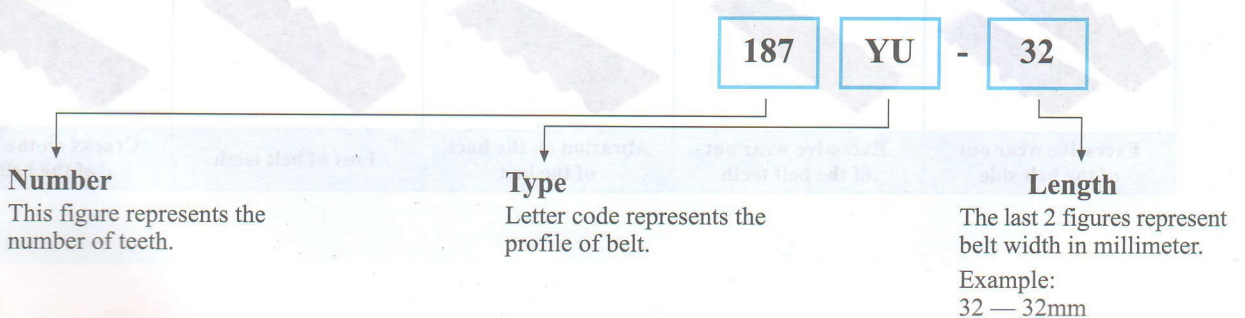
R, Y, RU, YU



Belt Cross Section Dimension

Profile	ZA	ZB	ZLA	ZLB	STP	FS	R	Y	RU	YU
P	9.525	9.525	9.525	9.525	8.000	9.525	9.525	8.000	9.525	8.000
hs	4.21	4.59	4.62	5.06	5.30	5.35	5.69	5.21	5.40	5.20
ht	1.91	2.21	2.32	2.76	3.05	3.05	3.54	3.06	3.44	3.02
t	2.30	2.30	2.30	2.30	2.25	2.30	2.15	2.15	1.96	2.18

Size Designation



Notes

>> Precaution

- Belts should be changed periodically to sustain optimum performance of the belts.
- Replace the belts at the recommended time for each car model as instructed in the manual.
- The engine is to be turned off and at a complete stop before inspection or replacement of belts.
- Loosen the belt tension before replacement of belts. Do not replace by force as it will shorten the life expectancy of the belts.
- Select and use the right belt for your car. You can select the correct belt by referring to the model and type of your car in this catalogue.
- Do not bend the belts sharply. This may affect the performance of the belts.

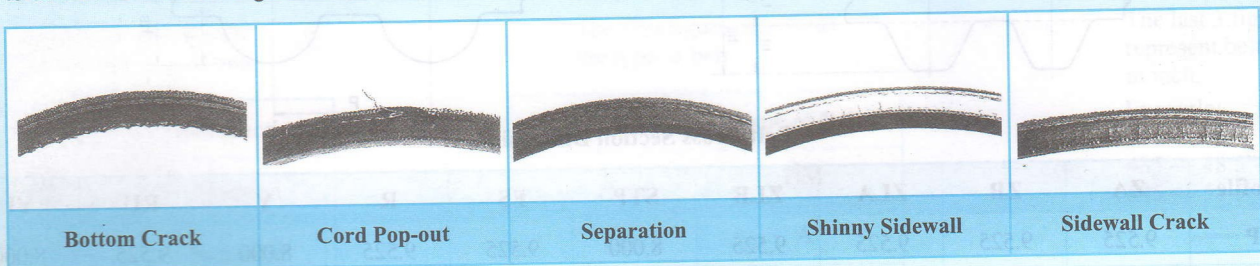
>> Storage of Belts

- Store belts in a dry place in shelves or on racks; avoid placing belts on the floor.
- Store belts at room temperature; avoid direct sun light and rain.
- Keep belts away from steam, oil and grease.
- Avoid bending or placing heavy weights on belts when storing.

>> Replacement of Belts

V-Belts

Please replace the v-belt if any of the following signs occur. For optimum performance of the new belt, it is recommended to check that the sheave groove is not worn out or damaged at the same time.



Timing Belts

Please replace the timing belt if any of the following signs occur. For optimum performance of the new belt, it is recommended to replace the idling pulleys and/or tensioning pulleys at the same time.



How to Use this Catalogue

This catalogue will help you to identify the right belt for your car. Factors that may affect the type of belt used are represented by means

HONDA

Car Name/ Car Model	CC	Engine	YEAR START	YEAR FINISH	REMARK	KOBEL BELT SIZE				
						FAN Belt	P/S Belt	Aircon Belt	Timing Belt	OTHER
ACCORD CD3	1800	F18B	1993		ALT+PS	6PK1115	4PK1060		113RU24	070RU16 (BALSHT)

Car Name/ Car Model

The top left corner of each page shows the car brand. The column on the left shows the car name and car model. The car names are arranged in alphabetical order.

Engine Capacity

Engines are arranged from the smallest to the largest based on engine capacity.

Engine Code or Type

The engine code or type listed in this column will help you to look for the right belt.

Model Year or Manufactured Year

Model years are arranged from the oldest to the newest.

Remark

The application of the belt is listed here using abbreviations. Kindly refer to the abbreviations reference.

KOBEL Belt Size – Fan Belt, P/S Belt, Aircon Belt, Timing Belt, Other

These 4 columns identify the Kobei part number for different types of belts. Kindly use this part number to place order.

List of Abbreviations

Abbreviations	Symbols	Abbreviations	Symbols
->	From	HP	Horse Power
->	Up to	HYP	Hydraulic Pump
<>	Except	INJP	Injection Pump
=	For	MOD	Model
+	With	LHD	Left Hand Drive
4WD	4 Wheel Drive	MTM	Manual Transmission
8V/8S	8 Valve	MTR	Engine
16V/16S	16 Valve	OEBELT	Original Equipment Belt
AC	Aircon Compressor	PS	Power Steeling
ALT	Alternator Belt	RHD	Right Hand Drive
AP	Air Pump	SC	Super Charger
ATM	Automatic Transmission	SOHC	Single Overhead Camshaft
Balshf	Balance Shaft	TBO	Turbo
CAMS	Camshaft	TDI	Turbo Diesel Injection
CHNR	Chassis Number	TS	Twin Spark
CYL	Cylinder	V6	V6 Engine
DI	Diesel Injection	VACP	Vacuum Pump
DOHC	Double Overhead Camshaft	WP	Water Pump
DSL	Diesel		