

(IV) Bancollan Round Belt

1. An Introduction

Our company sells a long linear Bancollan round belt (jointing type). Recently, demand has increased for round belts with no need for jointing and outstanding operations in low temperatures, meant for use in office equipment and laser equipment. In order

to satisfy clients' needs, our company has enhanced this belt's quality for an even higher-performing round belt- the Bancollan round belt.

Features

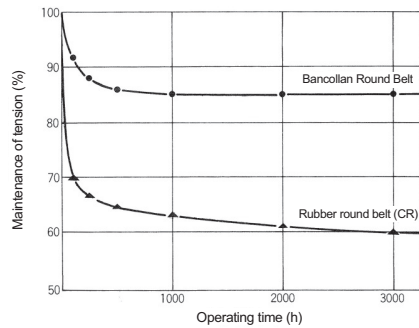
- Simple Belt Installation**
Even when there is a fixed spacing between axles, installation remains very simple. There is no need for sliding pulleys, as is required when using belts with tensile members, or for adjustments to tensioning, thereby cutting down on the time required for installation.
- Stable Tension**
For belts without tensile members, stable tension is extremely important to their overall performance. When comparing Bancollan round belts with general rubber round belts or belts with tensile members, fewer changes in tension due to bending or permanent elongation is found, meaning that maintenance is basically unnecessary.

- Smooth Start-up, Even in Low Temperatures**
Because polyurethane rubber with a special formula has been used, even in a -20°C environment, there is no sign of hardening, (permanent) bending and creasing, or other such phenomena, meaning start-up can proceed smoothly as there are no accidents resulting from increases in start-up torques.

Examples of Use

- Office Equipment**
Photocopiers
Fax machines
Power typewriters
Registers
Ticket vending machines Currency exchange machines
Automated ticketing machines
Pricing machinery
Automated cash machines
- Laser Instruments · Audio Equipment**
Tape decks
VTR
- Others**
Super compact fans Atmospheric pollution measuring machines
Vacuum cleaners Spectrum analysis equipment
Agitators Tabletop winders
Roller conveyors
Rotating lights
Grinders

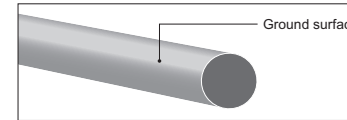
Image 1 Changes in the Bancollan Round Belt's Tension (6% Initial Rate of Extension)



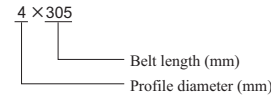
Structure and Features

When purchasing a Bancollan round belt, please be sure to abide by the dimensions listed in Table 1. Because these products are made to order, please enquire with our company for information about the date of delivery, batch sizes, and prices.

Belt's Exterior



Example of Belt Labeling



Dimensional labeling is applied to each individual package using a designated label.

Belt's Basic Qualities

Items	Materials	# 267WLS
Hardness		72° (JIS)
Specific weight		1.26
Stretching stress	When stretched by 4%	35 (Pa)
	When stretched by 6%	50 (Pa)
	When stretched by 8%	64 (Pa)
Stretching strength		Over 3000 (N/cm ²)
Extent of stretching at the point of breaking		600 (%)

Permitted Deviations in Dimensions

Permitted Differences in Belt's Profile

Unit: mm

Profile diameter	2	3	4	5
Permitted deviations	±0.15	±0.15	±0.20	±0.25

Belt Lengths

Unit: mm

Belt Lengths	Permitted deviations
100~200	±2.0
201~400	±3.0
401~500	±4.0

Belt Dimensions

Table 1 Table of Standard Belt Dimensions (K-type)

φ2		φ4	
Belt Lengths	Effective central length	Belt Lengths	Effective central length
82	86.9	140	148.4
91	96.5	160	169.6
100	106.0	170	180.2
107	113.4	175	185.5
112	118.7	200	212.0
120	127.2	213	225.8
125	132.5	225	238.5
130	137.8	230	243.8
134	142.0	235	249.1
136	144.2	240	254.4
140	148.4	250	265.0
145	153.7	254	269.2
147	155.8	258	273.5
152	161.1	264	279.8
160	169.6	275	291.5
170	180.2	284	301.0
180	190.8	285	302.1
183	194.0	290	307.4
190	201.4	300	318.0
200	212.0	305	323.3
213	225.8	316	335.0
227	240.6	323	342.4
239	253.3	332	351.9
244	258.6	335	355.1
250	265.0	346	366.8
273	289.4	361	382.7
290	307.4	367	389.0
444	470.6	370	392.2
470	498.2	374	396.4
		377	399.6
		385	408.1
		390	413.4
		415	439.9
		474	502.4
		500	530.0
		540	572.4
φ3			
Belt Lengths	Effective central length		
115	121.9		
120	127.2		
132	139.9		
138	146.3		
140	148.4		
150	159.0		
153	162.2		
155	164.3		
160	169.6		
165	174.9		
170	180.2		
172	182.3		
180	190.8		
182	192.9		
190	201.4		
200	212.0		
204	216.2		
213	225.8		
223	236.4		
230	243.8		
236	250.2		
240	254.4		
250	265.0		
260	275.6		
275	291.5		
282	298.9		
285	302.1		
290	307.4		
305	323.3		
308	326.5		
330	349.8		
347	367.8		
356	377.4		
363	384.8		
376	398.6		
390	413.4		
400	424.0		
430	455.8		
441	467.5		
450	477.0		
645	683.7		
φ5			
Belt Lengths	Effective central length		
200	212.0		
210	222.6		
220	233.2		
225	238.5		
230	243.8		
247	261.8		
248	262.9		
250	265.0		
275	291.5		
290	307.4		
300	318.0		
305	323.3		
310	328.6		
330	349.8		
345	365.7		
348	368.9		
363	384.8		
375	397.5		
380	402.8		
384	407.0		
402	426.1		
422	447.3		
440	466.4		
460	487.6		
685	726.1		

· The belt's length is its central length without elongation.
· The effective central length refers to the belt's central length following a 6% elongation.