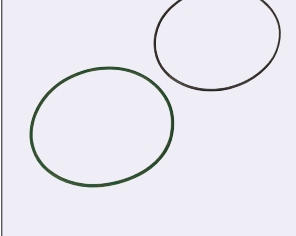


Polyurethane Round Belts

Welded Joint, Seamless, Open End

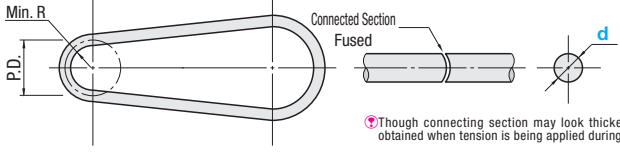
■ **Features:** Round belt of rope shape is cut into specified length and made endless with heat welding. Required length can be selected.

Welded Joint



Type	Type	Color	Material	Heat Resistant Temperature
MBT	Standard	Orange	Polyurethane	80°C
MBTH	High Tensile Strength	Green		80°C
MBTD	Antistatic	Black		50°C

Both MBT and MBTH satisfy the Food Hygienic Regulations.
MBTD has antistatic material (carbon) mixed in the base material, and therefore suitable in applications where static charge effects are unwanted.



Though connecting section may look thicker, appropriate diameter can be obtained when tension is being applied during operation.

Part Number		L (Circumference Length)	Minimum P.D. of Pulleys	5% Tensile Strength (N)	Unit Price						
Type	d	1mm Increment			Min. L ~ 500	L501~1000	L1001~2000	L2001~3000	L3001~4000	L4001~5000	L5001~6000
MBT	2	100~2000	15	1.9				-	-	-	-
	3	100~3000	20	4.1					-	-	-
	4	100~4000	30	7.4					-	-	-
	5	135~5000	40	12.5						-	-
	6	140~6000	50	16.6							
	8	190~6000	70	29.4							
	10	250~6000	90	46.2							
	MBTH	2	100~2000	20	2.8				-	-	-
3		100~3000	30	6.2					-	-	-
4		100~4000	40	11.1						-	-
5		135~5000	50	18.7							-
6		140~6000	60	24.9							
8		190~6000	80	44.1							
10		250~6000	100	69.3							
MBTD		3	200~3000	30	13					-	-
	4	200~4000	40	22						-	-
	5	200~5000	50	33							-

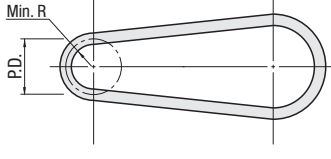
Ordering Example
Part Number - L
MBT5 - 150

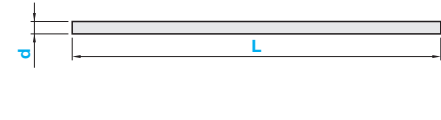
■ **Features:** Belt has no joint as it is made endless by molding.

Seamless



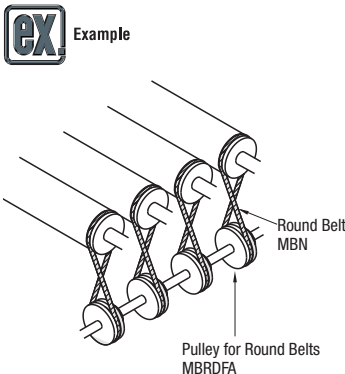
Type	Type	Color	Material	Heat Resistant Temperature
MBN	Seamless	Natural Color	Polyurethane	70°C





Part Number		Circumference Length	Minimum P.D. of Pulleys	8% Tensile Strength (N)	Unit Price
Type	d	L (mm)			
MBN	2	100	15	1.274	
		125			
		140			
		160			
		170			
		180			
		190			
		200			
	3	239	20	2.94	
		250			
		150			
		160			
		170			
		180			
		200			
		213			
MBN	4	223	30	5.292	
		236			
		250			
		260			
	5	290	40	8.232	
		305			
		330			
		390			

Ordering Example
Part Number - L
MBN2 - 100



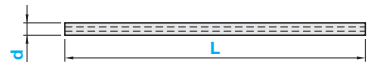
■ **Features:** Simple endless connection is possible when cross section is hollow shape and by inserting a dedicated metal jointing parts. Can be replaced without disassembling the unit.

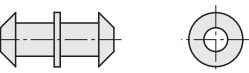
Open End (Hollow Type)



Type	Type	Color	Material	Heat Resistant Temperature
MBQ	Hollow Rope	Orange	Polyurethane	80°C
MBQC	Metal Joints for Hollow Ropes Joint Hardware	-	EN AW-5052 Equiv.	-

MBQ satisfies the food and hygiene standard in accordance to the Notice No. 434 of Japanese Ministry of Health and Welfare.





Part Number		L (Circumference Length)	Minimum P.D. of Pulleys	5% Tensile Strength (N)	Unit Price/m
Type	d	1mm Increment			
MBQ	5	1~20	40	24.5	MBQC5
	6		50	44.1	MBQC6

Part Number		Material	Unit Price per Package (10 pcs./pkg.)
Type	d		
MBQC	5 6	EN AW-5052 Equiv.	

(How to Connect)
Cut the round belt in the length 5% shorter than the calculated or actual measured length with a knife at a right angle. Hold the dedicated metal joint MBQC by using a pair of pliers. Insert the metal joint up to the center of the hollow belt end. To help the insertion in a cold season, warm the belt by immersing in warm water of 40°C for 1 ~ 2 minutes. Be sure not to damage the edge of the metal joint. Insert the metal joint into the other side of the belt.



■ **Features:** Belt cut in meters. Endless jointing is not applied.

Open End (Solid Type)

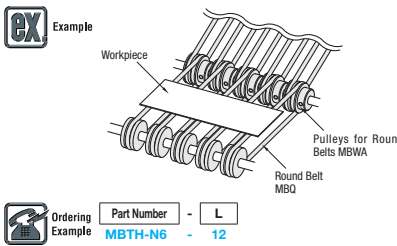


Type	Type	Color	Material	Heat Resistant Temperature
MBT-N	Standard	Orange	Polyurethane	80°C
MBTH-N	High Tensile Strength	Green	Polyurethane	80°C

Both MBT-N and MBTH-N satisfy the Food Hygienic Regulations.



Part Number		L (Circumference Length)	Unit Price/m	
Type	d	1m Increment	MBT-N	MBTH-N
MBT-N MBTH-N	1.5	10~20		-
	2			-
	2.5			-
	3			-
	3.5			-
	4			-
	5			-
	6			-
	7			-
	8			-
	9			-
	10			-
	12			-
	15			-

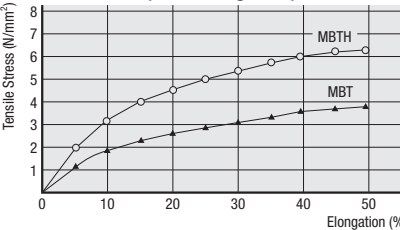


Ordering Example
Part Number - L
MBTH-N6 - 12

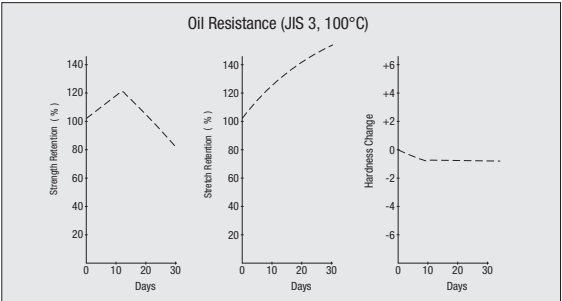
■ **Features of Polyurethane Round Belts**

Physical Properties		kgf=Nx0.101972			
Item	Test Method	Unit	MBT	MBTH	MBN
Specific Gravity	-	-	1.22	1.22	1.26
Hardness	JIS A		88	92	72
5% Modulus	JIS K 6301	N/mm ²	1.2	2.0	0.44
10% Modulus			1.8	3.1	0.88
100% Modulus			6.3	8.8	6.0
300% Modulus			16.9	14.7	9.0
Tensile Strength			24.5 or more	32.4 or more	30 or more
Tensile Elongation at Breakage	%		400 or more	400 or more	600 or more
Tear Strength	kN/mm ²		88	93	90 or more

• **Tensile Stress (Low Elongation)**



• **Oil Resistance**



• **Temperature Dependency of Tensile Strength, Stretch and Surface Hardness**

