

Long Timing Belts - Iron Rubber®

Tooth Count Configurable Jointing Process

■ **Features:** The belt length is selectable as desired, and suitable for a long span synchronous conveyance. The Iron Rubber Type with good allowable tension.
 ■ Long Timing Belts are compatible with Timing Pulleys on P.1391-1422.

■ **Jointing Process**
 Open ended belts are made endless by thermal bonding process.
 Core wires of the joint part are not connected.

■ **Features of Cloth Lined Belts**
 Tooth Surface Cloth Lined: Reduces friction coefficient between Pulleys and Guide Rails and cuts noise.
 Backside Cloth Lined: Reduces friction coefficient of conveyed items and is suitable for accumulation conveyance.
 Both Sides Cloth Lined: Reduces friction coefficient between conveyed materials and pulleys and cuts noise.

Type	Type	Material		
		① Main Body	② Core Wire	③ Cloth
LTBJA	Standard	-	-	-
LTBHA	Tooth Surface Cloth Lined	Iron Rubber® (Polyurethane)	High Tensile Strength Steel Cord	-
LTBNA	Backside Cloth Lined	-	-	Nylon Cloth
LTBRA	Both Sides Cloth Lined	-	-	Nylon Cloth

Belt Type	Pitch	2θ(°)	H	h	i	Lr	Belt Unit Mass g/m (Width:10mm)
XL	5.08	50°	2.3	1.27	1.03	2.57	22.0
L	9.525	40°	3.6	1.69	1.91	4.65	36.2
H	12.7	40°	4.3	2.29	2.01	6.12	41.7
T5	5	40°	2.2	1.2	1.0	2.67	20.8
T10	10	40°	4.5	2.5	2.0	5.32	40.0
AT5	5	50°	2.7	1.2	1.5	-	36.0
AT10	10	50°	4.5	2.5	2.0	-	60.0

① Operating Temp: 0~80°C (Reference Value)
 ② For the belt design data, see P.2253. For material properties, see P.1478.
 ③ Iron Rubber® is a registered trademark of NOK Corp.

■ **Comparison of Friction Coefficient (Reference Value)**

Matching Material	Tooth Surface, Backside Cloth Lined	
	Cloth Lined	Standard
Stainless Steel	0.3	0.6
Polyamide	0.2	0.3
UHMWPE	0.2	0.3

* Figures in the table are examples of actual measurement, not standard values.

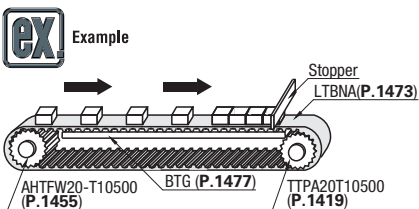
Type	Part Number		Number of Teeth Lower Limit ~ Upper Limit	Belt Width (mm)	Allowable Tension (N)	Body Price 1~5 pc(s).				Joint Process Charge (Body Price +)
	Belt Type	Belt Nominal Width				LTBJA	LTBHA	LTBNA	LTBRA	
LTBJA (Standard)	XL	025	118~9900	6.4	90	-	-	-	-	
		037		9.5	135	-	-	-		
		050		12.7	175	-	-	-		
	L	050	70~6299	12.7	320	-	-	-	-	
		075		19.1	480	-	-	-		
		100		25.4	640	-	-	-		
H	150	56~3938	38.1	950	-	-	-	-		
	075		19.1	480	-	-	-			
	100		25.4	640	-	-	-			
LTBHA (Tooth Surface Cloth Lined)	200		38.1	960	-	-	-	-		
	150		50.8	1280	-	-	-			
	100		10	150	-	-	-			
LTBNA (Backside Cloth Lined)	150	120~9900	15	200	-	-	-	-		
	200		20	270	-	-	-			
	250		25	350	-	-	-			
LTBRA (Both Sides Cloth Lined)	150	70~5000	15	320	-	-	-	-		
	200		20	440	-	-	-			
	250		25	640	-	-	-			
AT5	100	140~9900	10	210	-	-	-	-		
	150		15	350	-	-	-			
	200		15	710	-	-	-			
AT10	150	70~4000	20	890	-	-	-	-		
	200		20	890	-	-	-			
	250		25	1070	-	-	-			

① Overall Length: Number of Teeth x Pitch. ② Kgf=Nx0.101972
 ③ Allowable tension shows the allowable value of tensile load.

④ For orders larger than indicated quantity, please request a quotation.

Ordering Example

Type	Belt Type	Belt Nominal Width	Number of Teeth
LTBJA	AT5	150	800
LTBRA	H	200	300



① For other app. examples, see P.1478

Long Timing Belts - Polyurethane

Tooth Count Configurable Jointing Process

■ **Features:** The belt length is selectable as desired, and suitable for a long span synchronous conveyance.
 ■ Long Timing Belts are compatible with Timing Pulleys on P.1393-1422.

■ **Jointing Process**
 Open ended belts are made endless by thermal bonding process.
 Core wires of the joint part are not connected.

■ **Features of Cloth Lined Belts**
 Backside Cloth Lined: Reduces friction coefficient of conveyed items and is suitable for accumulation conveyance.
 Both Sides Cloth Lined: Reduces friction coefficient between conveyed materials and pulleys and cuts noise.

Type	Type	Material		
		① Main Body	② Core Wire	③ Cloth
LTBJ	Standard	-	-	-
LTBN	Backside Cloth Lined	Polyurethane	T5, T10, L, H, S5M, S8M, Aramid Core Wire	-
LTBR	Both Sides Cloth Lined	-	AT5, AT10: Steel Cord	Nylon Cloth

Belt Type	Pitch	2θ(°)	H	h	i	L	Unit Mass g/m (Width: 10mm)
L	9.525	40°	3.6	1.91	1.69	3.25	29.1, 28.8
H	12.7	40°	4.36	2.29	2.07	4.4	36.2, 33.8
T5	5	40°	2.2	1.2	1.0	1.8	19.0, 20.0
T10	10	40°	4.5	2.5	2.0	3.5	37.7, 34.5, 32.5
AT5	5	50°	2.7	1.2	1.5	2.5	32.0, -
AT10	10	50°	4.5	2.5	2.0	5.0	58.6, -

Belt Type	Pitch	Ra	Lr	H	h	i	Unit Mass g/m (Width: 10mm)
S5M	5	3.25	3.25	3.31	1.81	1.5	29.0
S8M	8	5.2	5.2	5.3	2.95	2.35	45.2

① Operating Temp: -20~70°C (Reference Value)
 ② For the belt design data, see P.2253. For material properties, see P.1478.

■ **Comparison of Friction Coefficient (Reference Value)**

Matching Material	Tooth Surface		Back Surface	
	Cloth Lined	Standard	Cloth Lined	Standard
Steel	0.34	0.65	0.29	0.75
Stainless Steel	0.22	0.68	0.17	0.69
Aluminum	0.19	0.42	0.15	0.50
UHMWPE	0.18	0.31	0.17	0.32
Teflon	0.12	0.21	0.12	0.28

* Figures in the table are examples of actual measurement, not standard values.

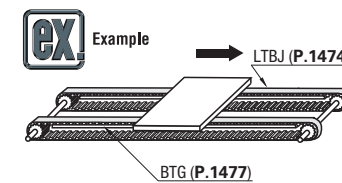
Type	Part Number		Number of Teeth Lower Limit ~ Upper Limit	Belt Width (mm)	Allowable Tension (N)	Body Price 1~5 pc(s).			Joint Process Charge (Body Price +)	
	Belt Type	Belt Nominal Width				LTBJ	LTBN	LTBR	Standard	Cloth Lined
LTBJ (Standard)	L	050	74~1049	12.7	92	-	-	-	-	-
		075		19.1	138	-	-	-		
		100		25.4	184	-	-	-		
		150		38.1	276	-	-	-		
		075		19.1	163	-	-	-		
		100		25.4	216	-	-	-		
	H	150	38.1	324	-	-	-			
		200	50.8	432	-	-	-			
		100	10	60	-	-	-			
		150	15	90	-	-	-			
		250	25	150	-	-	-			
		150	15	117	-	-	-			
S8M	250	25	196	-	-	-				
	300	30	235	-	-	-				
	400	40	313	-	-	-				
	100	10	58	-	-	-				
	150	15	87	-	-	-				
	200	20	116	-	-	-				
T5	250	25	145	-	-	-				
	150	15	180	-	-	-				
	200	20	240	-	-	-				
	250	25	300	-	-	-				
	300	30	360	-	-	-				
	400	40	481	-	-	-				
AT5	500	50	601	-	-	-				
	100	10	74	-	-	-				
	150	15	110	-	-	-				
	200	20	145	-	-	-				
	150	15	234	-	-	-				
	200	20	312	-	-	-				
AT10	250	25	391	-	-	-				

① Overall Length: Number of Teeth x Pitch. ② Kgf=Nx0.101972

④ For orders larger than indicated quantity, please request a quotation.

Ordering Example

Type	Belt Type	Belt Nominal Width	Number of Teeth
LTBJ	AT5	150	800
LTBR	H	200	300



① For other app. examples, see P.1478