

Timing Belts with Attachments (T5, T10)

Joining Process

- **Features:** Attachments are thermally bonded to the backside of the Timing Belt enabling constant pitch conveyance of various work pieces.
- Timing Belt with Attachment T5 is compatible with Timing Pulley T5 on P.1417 and Timing Belt with Attachment T10 is compatible with Timing Pulley T10 on P.1419.

ATBT • Attachment A B

Attachment A

Attachment B

Attachment C (with Tapped Holes)

Attachment A Dimension

Type	Belt Width	A	B	T	Belt Unit Mass g/m (Width:10mm)	Attachment Weight (g)
T5	10mm	9	10	3	0.34	0.34
	15mm	14	10	3	0.52	0.52
	20mm	19	10	3	0.71	0.71
	25mm	24	10	3	0.89	0.89
T10	15mm	14	10	5	0.86	1.17
	20mm	19	10	5	1.17	1.47
	25mm	24	10	5	1.47	2.67
	30mm	29	15	5	2.67	3.59
	40mm	39	20	5	3.59	6.02

Attachment B Dimension

Type	Belt Width	A	B	T	Through Hole	G	F	T	Belt Unit Mass g/m (Width:10mm)	Attachment Weight (g)
T5	10mm	9	10	3.5	5.5	-	-	3	20.0	0.30
	15mm	14	15	4.5	9	-	-	5	20.0	0.72
	20mm	19	20	2-4.5	13	-	-	6	20.0	0.94
	25mm	24	20	2-5.5	13	-	-	6	20.0	1.61
T10	15mm	14	15	4.5	9	-	-	5	40.0	1.19
	20mm	19	20	2-4.5	13	-	-	5	40.0	1.55
	25mm	24	20	2-5.5	13	-	-	6	40.0	2.66
	30mm	29	20	2-6.5	13	-	-	7	40.0	3.15
	40mm	39	20	2-6.5	13	-	-	7	40.0	4.38
50mm	49	20	2-6.5	13	-	-	7	40.0	5.61	

Attachment C Dimension

Type	Belt Width	A	B	T	C	D	E	K	N	Belt Unit Mass g/m (Width:10mm)	Attachment Weight (g)
T10	25mm	25.0	6.5	7.8	15.0	3.2	5.0	4.8	4.0	40.0	3.9

■ **Attachment Shape Details**

- Attachment A
- Attachment B
- Attachment C (with Tapped Holes)

■ **Material**

① Main Body	Polyurethane (for Joint Process)
② Core Wire	Aramid Core Wire
③ Attachment	Polyurethane (for Joint Process)

■ **Attachment Dimension**

Type	Pitch	H	h	L
T5	5	2.2	1.2	1.8
T10	10	4.5	2.5	3.5

- ⚠ Operating Temp.: -20 ~ 70°C (Reference Value)
- ⚠ Attachment is mounted on the backside above the belt teeth.
- ⚠ Attachment C is mounted nearly on the center of the belt.
- ⚠ Joining process reduces allowable tension to approx. 50% of Open End Belts.
- ⚠ Adhesion burrs occur at the base of the adhered attachment.
- ⚠ For material properties of polyurethane for joint process, see P.1478.
- ⚠ For allowable tension of belts and design data, see P.2253.
- ⚠ If the attachments are to receive vibrations or large loads, test the applicability before using.

Example

Attachment B allows mounting of workpiece specific fixtures.

Attachment C allows screw-mounting of fixtures/brackets from above, providing freedom in workpiece heights and shapes.

■ **Joining Process**

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

■ Type: T5 (Pitch: 5mm)

Type	Part Number	Belt Nominal Width	Attachment Type	Attachment Mounting Pitch P	Number of Teeth	Circumference Length (mm)	Body Price 1~5 pc(s). Belt Nominal Width			
							100	150	200	250
ATBT	700T5	70	A	30	140	700				
	750T5	75			150	750				
	800T5	80			160	800				
	850T5	85			170	850				
	900T5	90			180	900				
	950T5	95			190	950				
	1000T5	100			200	1000				
	1050T5	105			210	1050				
	1100T5	110			220	1100				
	1150T5	115			230	1150				
	1200T5	120			240	1200				
	1250T5	125			250	1250				
	1300T5	130			260	1300				
	1350T5	135			270	1350				
	1400T5	140			280	1400				
	1450T5	145			290	1450				
	1500T5	150			300	1500				
	1550T5	155			310	1550				
	1600T5	160			320	1600				
	1650T5	165			330	1650				
	1700T5	170			340	1700				
	1750T5	175			350	1750				
	1800T5	180			360	1800				
	1850T5	185			370	1850				
	1900T5	190			380	1900				
	1950T5	195			390	1950				
	2000T5	200			400	2000				
	2050T5	205			410	2050				
	2100T5	210			420	2100				
	2150T5	215			430	2150				
2200T5	220	440	2200							
2250T5	225	450	2250							
2300T5	230	460	2300							
2350T5	235	470	2350							
2400T5	240	480	2400							
2450T5	245	490	2450							
2500T5	250	500	2500							
2550T5	255	510	2550							
2600T5	260	520	2600							
2650T5	265	530	2650							
2700T5	270	540	2700							
2750T5	275	550	2750							
2800T5	280	560	2800							
2850T5	285	570	2850							
2900T5	290	580	2900							
2950T5	295	590	2950							
3000T5	300	600	3000							
3050T5	305	610	3050							
3100T5	310	620	3100							
3150T5	315	630	3150							
3200T5	320	640	3200							
3250T5	325	650	3250							
3300T5	330	660	3300							
3350T5	335	670	3350							
3400T5	340	680	3400							
3450T5	345	690	3450							
3500T5	350	700	3500							
3550T5	355	710	3550							
3600T5	360	720	3600							
3650T5	365	730	3650							
3700T5	370	740	3700							
3750T5	375	750	3750							
3800T5	380	760	3800							
3850T5	385	770	3850							
3900T5	390	780	3900							
3950T5	395	790	3950							
4000T5	400	800	4000							

■ Type: T10 (Pitch: 10mm)

Type	Part Number	Belt Nominal Width	Attachment Type	Attachment Mounting Pitch P	Number of Teeth	Circumference Length (mm)	Body Price 1~5 pc(s). Belt Nominal Width				
							150	200	250	300	400
ATBT	700T10	70	A	30	70	700					
	750T10	75			75	750					
	800T10	80			80	800					
	850T10	85			85	850					
	900T10	90			90	900					
	950T10	95			95	950					
	1000T10	100			100	1000					
	1050T10	105			105	1050					
	1100T10	110			110	1100					
	1150T10	115			115	1150					
	1200T10	120			120	1200					
	1250T10	125			125	1250					
	1300T10	130			130	1300					
	1350T10	135			135	1350					
	1400T10	140			140	1400					
	1450T10	145			145	1450					
	1500T10	150			150	1500					
	1550T10	155			155	1550					
	1600T10	160			160	1600					
	1650T10	165			165	1650					
	1700T10	170			170	1700					
	1750T10	175			175	1750					
	1800T10	180			180	1800					
	1850T10	185			185	1850					
	1900T10	190			190	1900					
	1950T10	195			195	1950					
	2000T10	200			200	2000					
	2050T10	205			205	2050					
	2100T10	210			210	2100					
	2150T10	215			215	2150					
2200T10	220	220	2200								
2250T10	225	225	2250								
2300T10	230	230	2300								
2350T10	235	235	2350								
2400T10	240	240	2400								
2450T10	245	245	2450								
2500T10	250	250	2500								
2550T10	255	255	2550								
2600T10	260	260	2600								
2650T10	265	265	2650								
2700T10	270	270	2700								
2750T10	275	275	2750								
2800T10	280	280	2800								
2850T10	285	285	2850								
2900T10	290	290	2900								
2950T10	295	295	2950								
3000T10	300	300	3000								
3050T10	305	305	3050								
3100T10	310	310	3100								
3150T10	315	315	3150								
3200T10	320	320	3200								
3250T10	325	325	3250								
3300T10	330	330	3300								
3350T10	335	335	3350								
3400T10	340	340	3400								
3450T10	345	345	3450								
3500T10	350	350	3500								
3550T10	355	355	3550								
3600T10	360	360	3600								
3650T10	365	365	3650								
3700T10	370	370	3700								
3750T10	375	375	3750								
3800T10	380	380	3800								
3850T10	385	385	3850								
3900T10	390	390	3900								
3950T10	395	395	3950								
4000T10	400	400	4000								

- ⚠ Attachments are available from one piece.
- ⚠ When specifying one attachment, select a mounting pitch of the same number as belt number.
- ⚠ Specify attachment mounting pitch that the belt circumference length is divisible by integers.
- (Ex.) For T5 with Belt Circumference Length of 1050mm
 - 1050/30=35
 - 1050/50=21
 - × 1050/100=10.5
 - 1050/350=3
- 100 is not selectable.

Attachment Machining Charge (T5)

Belt Nominal Width	Attachment Adhesion Charge (Body Price +)	
	A	B
100		
150		
200		
250		

Attachment Machining Charge (T10)

Belt Nominal Width	Attachment Adhesion Charge (Body Price +)		
	A	B	C
150			
200			
250			
300			
400			
500			

Alterations Part Number - Attachment Type - P - (NB)

ATBT-1200T10200 - A - P100 - NB

Removal of Adhesion Burrs

Code NB

Spec. Removes ad