

NA

Technical
Booklet



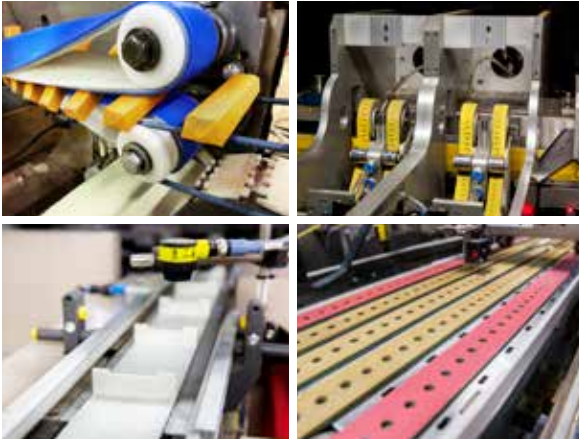
Timing & Engineered Belts

Technical Specifications & Covering Materials

Timing Belts – precision and reliability

More and more industries around the world are relying on the advantages that Ammeraal Beltech Timing Belts offer.

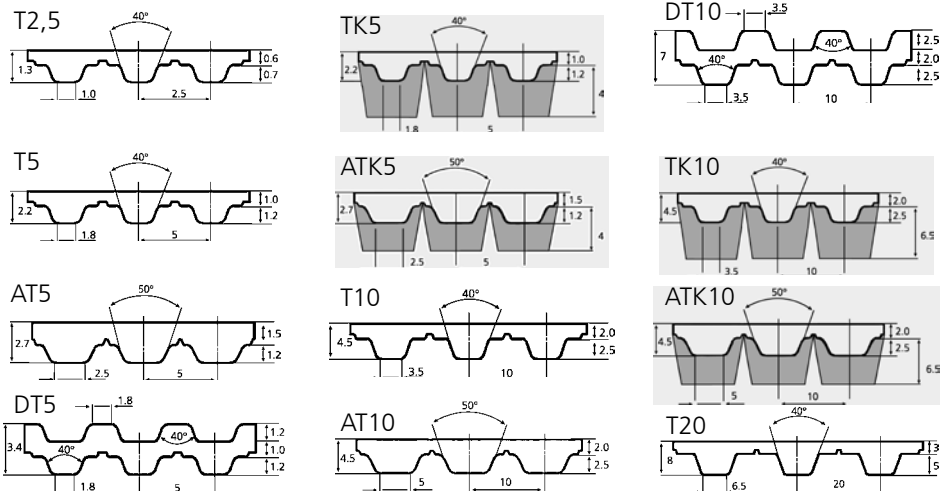
From slip-free or synchronous conveying to precise positioning, our Timing Belts deliver perfect performance and are your guarantee that everything will be where it needs to be, when it needs to be there.



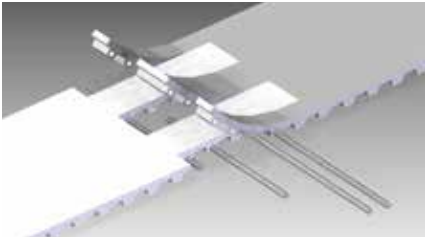
Ammeraal Beltech Timing Belts are at work in a wide range of industrial applications and environments:

- Airport baggage handling systems
- Logistics industry
- Food industry
- Print & Paper industry
- Packaging industry
- Wood industry
- Ceramic industry
- Automotive industry
- Tobacco industry
- Chemical industry
- Glass processing
- Linear positioning
- Electronics assembly lines
- Power transmission

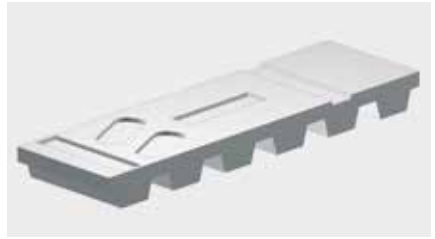
Types



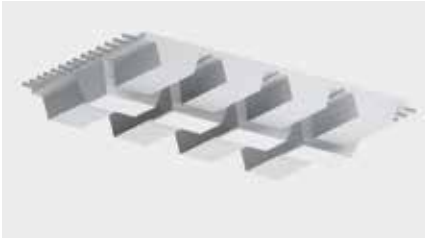
Endlessing



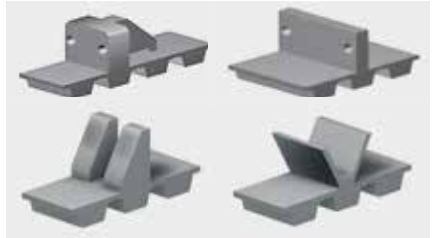
Machining



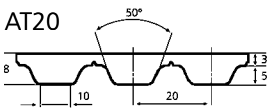
Vee-guides



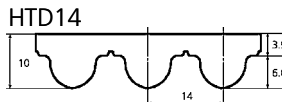
Cleats



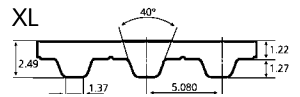
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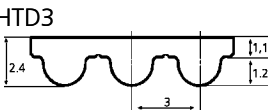
HTD14



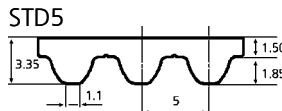
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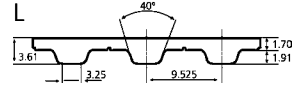
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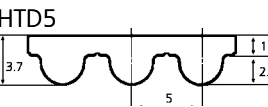
STD5



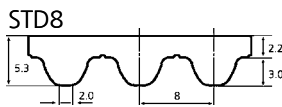
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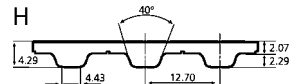
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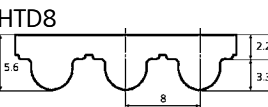
STD8



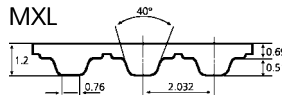
H



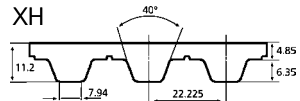
HTD8



MXL



XH



Technical Specifications

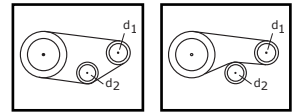
Type	Belt data			Minimum pulley diameter					
	Pitch [mm]	thickness (moulded) [mm]	weight [kg/m ²]	a) without counter flexing			b) with counter flexing		
				d1 [mm]	t1 [-]	d2 [mm]	d1 [mm]	t1 [-]	d2 [mm]
PU Linear T5 Steel NT	5	2.2	2.1	15.05	10	30	23.05	15	30
PU Linear T10 Aramid	10	4.5	4	61.81	12	50	61.81	20	50
PU Linear T10 Steel	10	4.5	4.5	61.81	12	60	61.81	20	60
PU Linear AT5 Steel NT	5	2.7	3.4	38.56	15	30	38.56	25	60
PU Linear AT10 Steel NT	10	4.5	6.4	77.73	15	50	77.73	25	120
PU Linear XL Steel	5,08	2.49	2.4	23.75	10	30	23.75	15	180
PU Linear L Steel NT	9,525	3.61	3.9	59.88	15	60	59.88	20	180
PU Linear H Steel NT	12,7	4.29	4.3	79.48	14	180	79.48	20	180
Ultrasync F5 T10 Ropanyl white FG	10	4.5	3.7	43	14	43	60	-	60
Ultrasync F2 T10 Ropanyl white NT	10	4.5	3.7	36	12	36	40	-	40
Ultrasync F2 T10 PA-fabric green NTB	10	4.5	3.7	36	12	36	40	-	40

Specials on request: * no coil nose (NC) available
 ** extra wide with less tension member available
 *** no coil nose (NC) + aramid available
 d1 and d2 = diameter of the pulley [mm]
 t1 = teeth number of pulley 1

Tensile strength

Type	Fal open end [N]	Fal welded [N]	Fbr break load [N]	Cspec [x 1000 N]
PU Linear T5 Steel NT	1690	845	1690	225
PU Linear T10 Aramid	3970	1985	3970	392
PU Linear T10 Steel	4200	2100	4200	633
PU Linear AT5 Steel NT	3500	1750	3500	438
PU Linear AT10 Steel NT	7500	3750	7500	952
PU Linear XL Steel	1500	750	1500	187
PU Linear L Steel NT	3560	1780	3560	420
PU Linear H Steel NT	3560	1780	3560	420
Ultrasync F5 T10 Ropanyl white FG	13	9	-	-
Ultrasync F2 T10 Ropanyl white NT	3	1	-	-
Ultrasync F2 T10 PA-fabric green NTB	3	1	-	-

Also available: All major pitch and configurations of neoprene – fiberglass Timing Belts and Poly Vee-belts.



a) without counter flexing

b) with counter flexing

Covering Materials

Rubber

Type	Material	Hardness [° ShA]	Density [kg /m ³]	Color	Max. contact temperature [° C]	Oil and fat resistance
EPS045 Red	synthetic rubber	45	1000	Red	-	Low
EPS240 Black	synthetic rubber foam	-	240	Black	-	Good
FBS160 Blue	"fabric covered cellular neoprene"	-	160	Blue	70	Good
FES475 Blue	Felt	-	475	Blue	120	Low
NES040 Black	neoprene rubber	40	1100	Black	120	Good
NES600 Black	neoprene sponge rubber	-	600	Black	100	Good
NRS040 Red	natural rubber	40	980	Red	70	Low
NRS040 White FG	natural rubber	40	1000	White	70	Limited
NRS040 Tan	natural rubber	40	1000	Tan	70	Low
NRS050 Orange	natural rubber	50	1050	Orange	70	Low
NRS060 Red	natural rubber	60	1100	Red	75	Low
NRS250 Orange	natural sponge rubber	-	250	Orange	65	Low
NTS055 Orange	nitrile rubber	55	1080	Orange	110	Good
PAS778 Green Dark	nylon fabric	-	220	Dark Green	80	Good
PUS400 Beige	cellular polyurethane	-	400	Beige	-	Good
PUS600 Yellow	microcellular polyurethane	50	600	Yellow	70	Excellent
PVS030 Blue P6	PVC Flexam	30	780	Blue Green	90	Limited
PVS065 White A13 FG	PVC Nonex	65	750	White	90	Good
PVS065 White FG	PVC Nonex	65	1330	White	90	Good
SRS040 Tan C37	synthetic rubber	40	800	Tan	80	Limited
NRS040-U157 Orange	natural rubber	40	1000	Orange	70	Low
NES070-U38 Black	neoprene rubber	70	1200	Black	110	Good
NTS070-U39 Green	nitrile rubber	70	1200	Green	100	Good
NTS065 White FG P5	nitrile rubber	65	1100	White	-	Good
PUS085 White FG P7	TPU Ropanyl	85	1280	White	90	Excellent
NTS055-U36 White FG	nitrile rubber	55	1080	White	110	Good
NES416-U174 Black	neoprene sponge rubber	-	416	Black	85	Good
NRS250-U40 Red	natural sponge rubber	-	250	Red	65	Low
PVS035 A34 D.Green	PVC Flexam	35	780	Dark Green	90	Limited
PUS750-U130 Green	cellular polyurethane	65	750	Green	55	Good

Rubber

Type	Static coeff. of friction to steel	Oil and fat resistance	Static coeff. of friction to steel	Food grade	Pulley factor	Standard thickness [mm]
EPS045 Red	0.7	Low	0.7	No	20	4,5
EPS240 Black	1.0	Good	1.0	No	20	6, 12.7, 24.4
FBS160 Blue	0.3	Good	0.3	No	15	1.6, 3, 6
FES475 Blue	0.3	Low	0.3	no	20	2
NES040 Black	1.0	Good	1.0	No	15	19
NES600 Black	0.9	Good	0.9	No	20	6, 12, 25
NRS040 Red	1.0	Low	1.0	No	15	3, 4.5, 6.4, 8, 9.5, 12, 20
NRS040 White FG	1.0	Limited	1.0	Yes	15	3, 6, 8, 9.5
NRS040 Tan	1.0	Low	1.0	No	15	5, 8, 10
NRS050 Orange	0.9	Low	0.9	No	20	6.4, 9.5, 12.7
NRS060 Red	1.1	Low	1.1	No	17	6, 8, 10, 12.7, 20
NRS250 Orange	1.0	Low	1.0	No	8	30
NTS055 Orange	0.9	Good	0.9	No	16	6, 10
PAS778 Green Dark	0.3	Good	0.3	No	-	0,3
PUS400 Beige	0.3	Good	0.3	No	20	3, 6
PUS600 Yellow	0.4	Excellent	0.4	No	20	3
PVS030 Blue P6	0.9	Limited	0.9	No	15	4
PVS065 White A13 FG	na	Good	-	Yes	18	4
PVS065 White FG	0.7	Good	0.7	Yes	25	5
SRS040 Tan C37	1.0	Limited	1.0	No	15	4,3
NRS040-U157 Orange	1.0	Low	1.0	No	15	12,7
NES070-U38 Black	0.7	Good	0.7	No	25	12.7, 19
NTS070-U39 Green	0.7	Good	0.7	No	25	19
NTS065 White FG P5	0.7	Good	0.7	Yes	22	3
PUS085 White FG P7	0.6	Excellent	0.6	Yes	30	3
NTS055-U36 White FG	0.9	Good	0.9	Yes	16	9.5, 12.7
NES416-U174 Black	1.3	Good	1.3	No	20	6,4
NRS250-U40 Red	1.0	Low	1.0	No	8	6.8, 12.8
PVS035 A34 D.Green	1.1	Limited	1.1	No	15	4,3
PUS750-U130 Green	0.4	Good	0.4	No	15	2

North American Service and Locations



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Conveyor Belts



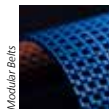
Timing Belts



Seamless Belts



Transmission Belts



Modular Belts



Fabrication & Service