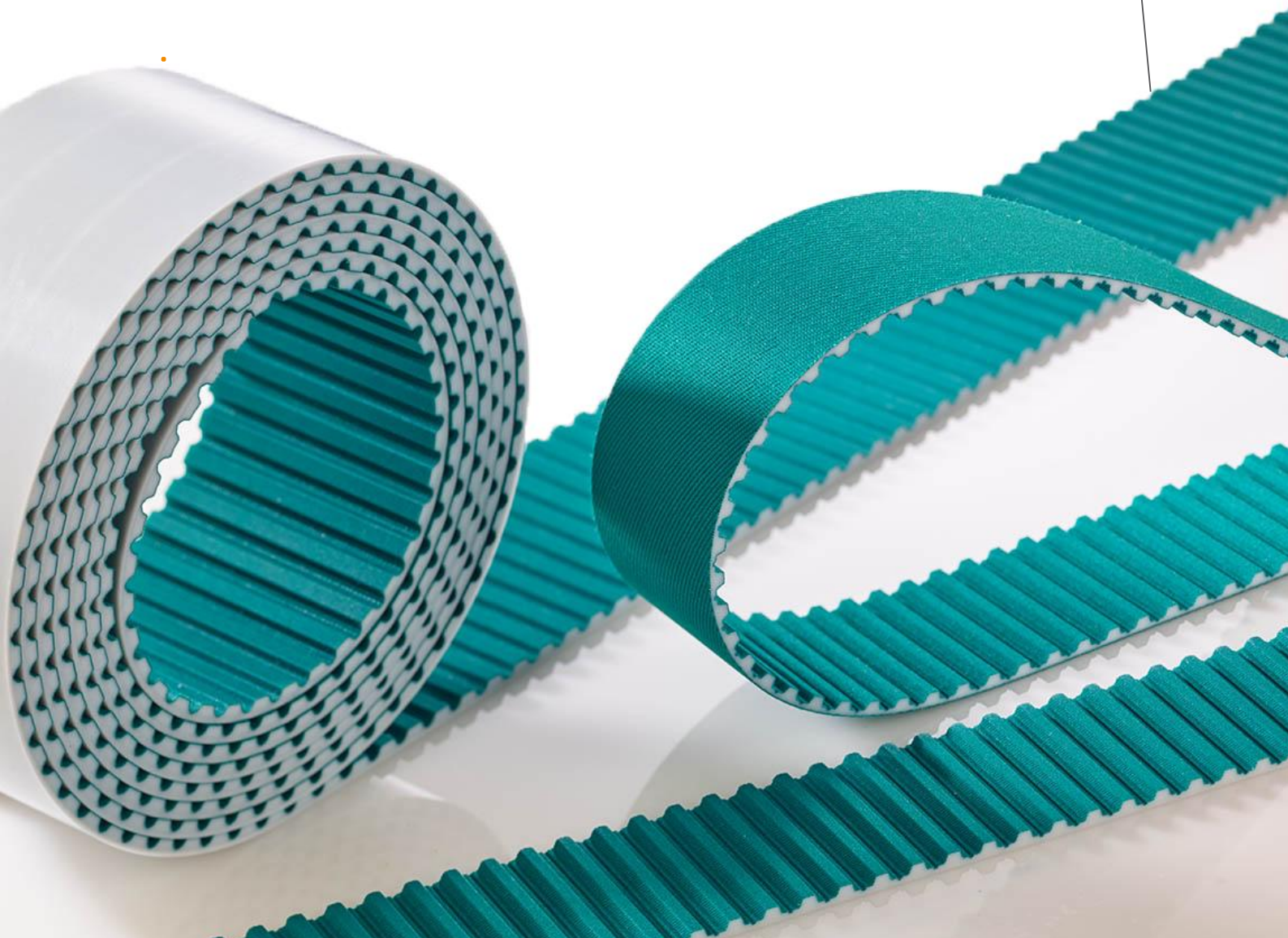


MEGALINEAR – T10

ÅBEN TANDREM T10 - DATABLAD

Standard PU tandremme i metermål - FEC Consulting



MEGALINEAR - T10 OPEN-END

ÅBEN PU TANDREM T10 - MEGADYNE



BELT CHARACTERISTICS FOR T10 TIMING BELT

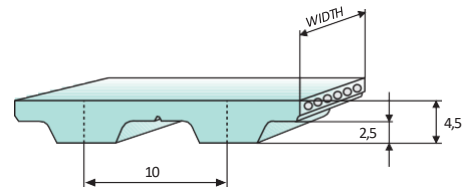
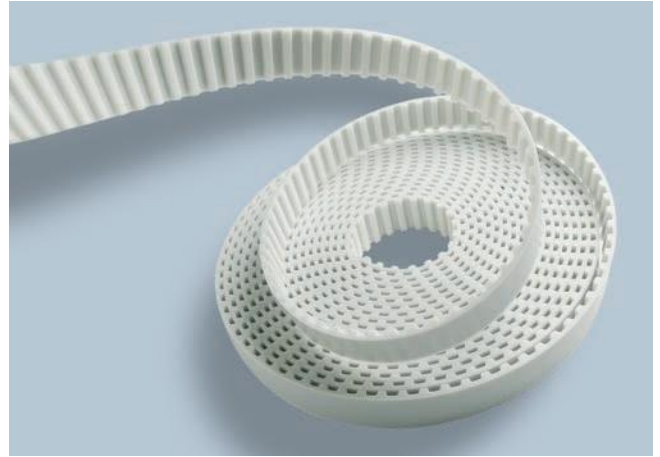
STANDARD WIDTHS (mm)	12	16	25	32	50	75	100	150
Weig (gr/m)	50	75	115	145	225	340	435	680
ht								

Standard compound: white PU 92 ShA
 Standard back cover: none
 Standard tooth cover: none
 Standard cords: S and Z torsion zinked steel
 Standard width tolerance: $\pm 0,5$ mm Standard
 thickness: $4,5 \pm 0,3$ mm
 Standard length tolerance: $\pm 0,8$ mm/m
 Standard roll length: 100 m

[Læs mere](#)

Belt options on request with minimum quantity:

Nylon fabric back
 Nylon fabric teeth Antistatic nylon
 fabric
 Transparent FDA compound
 AVAFC 60/70/85 ShA
 APL
 Fishbone
 SUPERGRIP PVC
 Cleats



TOOTH RESISTANCE

RPM(1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm)	51	49	48	47	46	45	41	39	37	36	33	31	28	25	22	20	18	14

Minimum suggested number of teeth in clamp for linear movement: 7

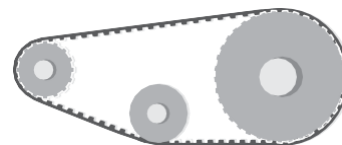
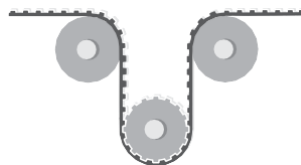
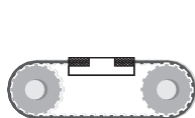
TRACTION RESISTANCE

	Belt width (mm)		12	16	25	32	50	75	100	150
Steel	Max Traction Load	(N)	995	1395	2290	2890	4785	7665	10290	11855
	Breaking Strength	(N)	3990	5585	9175	11570	19150	29125	39100	41495
	Elongation at MTL	(mm/m)	4	4	4	4	4	4	4	4
Kevlar	Max Traction Load	(N)	895	1150	2050	2565	4360	7020	9450	15240
	Breaking Strength	(N)	3590	4615	8205	10260	17440	26675	35910	53350
	Elongation at MTL	(mm/m)	8	8	8	8	8	8	8	8
HP	Max Traction Load	(N)	1575	2030	3610	4510	7670	12350	16625	26815
	Breaking Strength	(N)	6315	8120	14440	18050	30685	46930	63175	93860
	Elongation at MTL	(mm/m)	4	4	4	4	4	4	4	4
HF	Max Traction Load	(N)	1045	1460	2400	3030	5015	8025	10775	12420
	Breaking Strength	(N)	4180	5850	9610	12120	20060	30510	40960	43470
	Elongation at MTL	(mm/m)	5	5	5	5	5	5	5	5
HPF	Max Traction Load	(N)	—	2105	3740	4675	7950	12800	17235	27800
	Breaking Strength	(N)	—	8420	14970	18715	31815	48655	65500	97315
	Elongation at MTL	(mm/m)	—	5	5	5	5	5	5	5
Stainless	Max Traction Load	(N)	805	1130	1855	2340	3875	—	—	—
	Breaking Strength	(N)	3230	4520	7425	9365	15500	—	—	—
	Elongation at MTL	(mm/m)	3,8	3,8	3,8	3,8	3,8	—	—	—



MEGALINEAR T10 OPEN-END

FLEXION RESISTANCE



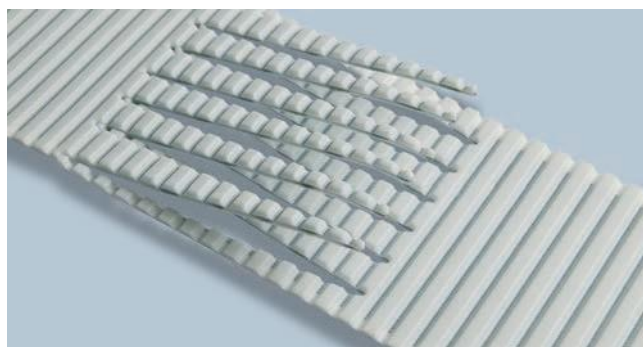
	Z min
Standard steel cords	12
Kevlar cords	15
High Power cords	15
High Flexibility cords	12
High Power Flexible cords	14
Stainless steel cords	15

Z min	Idler	mindia (mm)
20		60
20		60
20		100
15		50
20		80
20		70

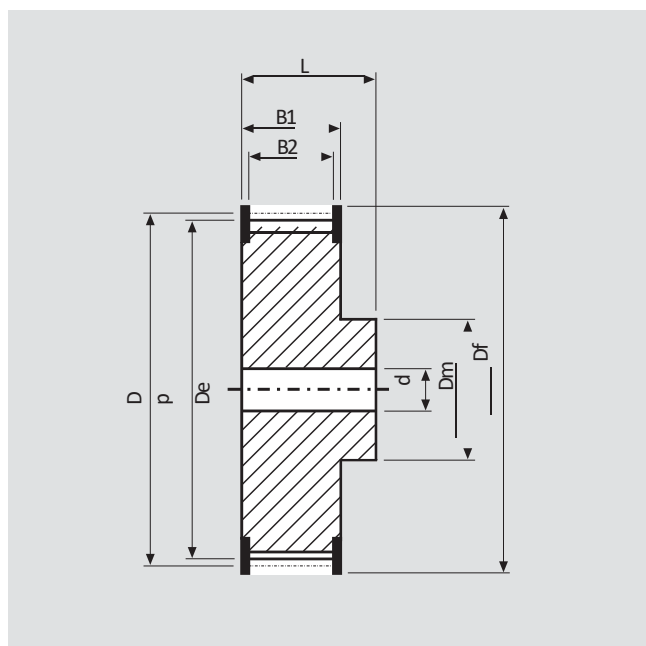
Z min	Idler	mindia (mm)
12		60
15		60
15		100
12		50
14		80
15		70

JOINED BELT INFORMATIONS – FEC CONSULTING

- Minimum splice length 300 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with PAZ, PAR, AVAFC and APL can be joined too
- Minimum diameters according above table



PULLEYS (for more details please see our pulleys catalogue)



N° Teeth	Dp	De
12	38,20	36,35
14	44,56	42,71
15	47,75	45,90
16	50,93	49,08
18	57,30	55,45
19	60,48	58,63
20	63,66	61,81
22	70,03	68,18
24	76,39	74,55
25	79,58	77,73

N° Teeth	Dp	De
26	82,76	80,91
27	85,94	84,10
28	89,13	87,28
30	95,49	93,65
32	101,86	100,01
36	114,50	112,74
40	127,32	125,48
44	140,06	138,21
48	152,79	150,94
60	190,99	189,14



Standard timing pulleys metric pitch are made in aluminum, in solid hub execution.

Solid hub

Material: aluminum

Pitch:

- T 2,5
- T 5
- T 10

• AT5

• AT 10



Solid hub

Material: on request

Pitch:

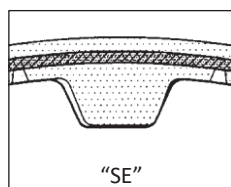
- T20
- AT20



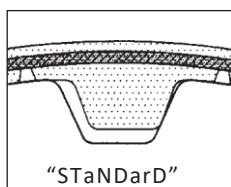
Special executions

Upon request, FEC Consulting is able to design and manufacture any type of pulley based on customer requirements.

For standard executions the teeth shape and the consequent backlash are related to the number of teeth.



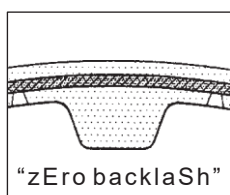
$z < 20$



$z > 20$

SE: reduced backlash

ONdemand, in case of very precise applications (e.g. positioning systems), a "zero backlash" version can be supplied.



on demand

TOLERANCES

Pulley diameter tolerances

External diameter [mm]	Tolerances [mm]
up to 25,4	-0,05 +0,00
from 25,5 to 50,8	-0,08 +0,00
from 50,9 to 102	-0,10 +0,00
from 103 to 178	-0,13 +0,00
from 179 to 305	-0,15 +0,00
from 306 to 509	-0,18 +0,00
from 510 to 761	-0,20 +0,00
from 762 to 1015	-0,23 +0,00
more than 1016	-0,25 +0,00

Radial circular runout

External diameter [mm]	Measured total eccentricity [mm]
up to 203,2	0,13
more than 203,2	add 0,013 for any 25,4 of diameter

Cylindricity tolerance

for any 100 mm	0,1 mm without exceeding the external diameter tolerance

Flanged pulleys

Timing belts, when in motion, have a slight lateral displacement. It is therefore necessary to use at least one flanged pulley to prevent the belt jumping out of the pulley.

Usually, in order to reduce the costs, the flanged pulley is the one with the smaller diameter.

In any case, when the distance of the axes is greater than 8 times the diameter of the small pulley, or when the transmission is working on shafts arranged in a position that is not horizontal, both pulleys have to be flanged.

Protective coating

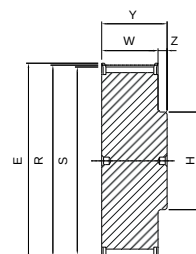
lifetime of aluminum pulleys can be reduced because the nylon coating of the belt teeth has a slightly abrasive effect.

This disadvantage can be reduced applying a high thickness anodization coating on the pulley teeth.

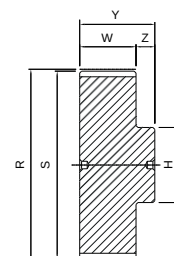


T10 Tandremskiver & Tandremshjul

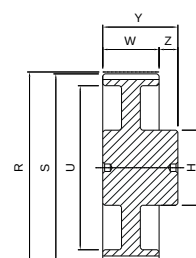
P/N.	Teeth nr.	Type	E [mm]	r [mm]	S [mm]	U [mm]	h [mm]	Belt width								z [mm]	Material
								16 mm		25 mm		32 mm		50 mm			
								W [mm]	Y [mm]	W [mm]	Y [mm]	W [mm]	Y [mm]	W [mm]	Y [mm]		
T10/12	12	1	42,0	38,20	36,34	-	28,0	21,0	31,0	30,0	40,0	-	-	-	-	10,0	aluminum
T10/14	14	1	48,0	44,56	42,70	-	32,0	21,0	31,0	30,0	40,0	-	-	-	-	10,0	
T10/15	15	1	51,0	47,75	45,89	-	32,0	21,0	31,0	30,0	40,0	-	-	-	-	10,0	
T10/16	16	1	54,0	50,93	49,07	-	35,0	21,0	31,0	30,0	40,0	-	-	-	-	10,0	
T10/18	18	1	60,0	57,30	55,44	-	40,0	21,0	31,0	30,0	40,0	37,0	47,0	56,0	66,0	10,0	
T10/19	19	1	66,0	60,48	58,62	-	44,0	21,0	31,0	30,0	40,0	37,0	47,0	56,0	66,0	10,0	
T10/20	20	1	66,0	63,66	61,80	-	46,0	21,0	31,0	30,0	40,0	37,0	47,0	56,0	66,0	10,0	
T10/22	22	1	75,0	70,03	68,17	-	52,0	21,0	31,0	30,0	40,0	37,0	47,0	56,0	66,0	10,0	
T10/24	24	1	83,0	76,39	74,53	-	58,0	21,0	31,0	30,0	40,0	37,0	47,0	56,0	66,0	10,0	
T10/25	25	1	83,0	79,58	77,72	-	60,0	21,0	31,0	30,0	40,0	37,0	47,0	56,0	66,0	10,0	
T10/26	26	1	87,0	82,76	80,90	-	60,0	21,0	31,0	30,0	40,0	37,0	47,0	56,0	66,0	10,0	
T10/27	27	1	91,0	85,94	84,08	-	60,0	21,0	31,0	30,0	40,0	37,0	47,0	56,0	66,0	10,0	
T10/28	28	1	93,0	89,13	87,27	-	60,0	21,0	31,0	30,0	40,0	37,0	47,0	56,0	66,0	10,0	
T10/30	30	1	97,0	95,49	93,63	-	60,0	21,0	31,0	30,0	40,0	37,0	47,0	56,0	66,0	10,0	
T10/32	32	1	106,0	101,86	100,00	-	65,0	21,0	31,0	30,0	40,0	37,0	47,0	56,0	66,0	10,0	
T10/36	36	1	119,0	114,59	112,73	-	70,0	21,0	31,0	30,0	40,0	37,0	47,0	56,0	66,0	10,0	
T10/40	40	1	131,0	127,32	125,46	-	80,0	21,0	31,0	30,0	40,0	37,0	47,0	56,0	66,0	10,0	
T10/44	44	3a	-	140,06	138,20	118,0	88,0	21,0	31,0	30,0	40,0	37,0	47,0	56,0	66,0	10,0	
10/48	48	3a	-	152,79	150,93	130,0	95,0	21,0	31,0	30,0	40,0	37,0	47,0	56,0	66,0	10,0	
T10/60	60	3a	-	190,99	189,13	165,0	110,0	21,0	31,0	30,0	40,0	37,0	47,0	56,0	66,0	10,0	



1



1A



3A

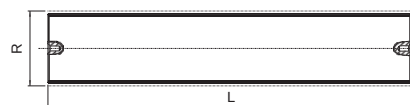


Tandbarre - Pitches T10

“T” timing bars are made of 6082 aluminum suitable for hard anodizing treatment.

Dimensions

Tandbarre (Pitch 10 mm)					
ALUMINIUM					
P/N.	Teeth nr.	Type	R [mm]	Lu [mm]	L [mm]
BAR 10T10	10	1	31,83	140	140
BAR 11T10	11	1	35,01	140	140
BAR 12T10	12	1	38,19	140	140
BAR 13T10	13	1	41,38	140	140
BAR 14T10	14	1	44,56	160	160
BAR 15T10	15	1	47,74	160	160
BAR 16T10	16	1	50,93	160	160
BAR 17T10	17	1	54,11	160	160
BAR 18T10	18	1	57,29	160	160
BAR 19T10	19	1	60,47	160	160
BAR 20T10	20	1	63,66	160	160
BAR 21T10	21	1	66,84	160	160
BAR 22T10	22	1	70,02	160	160
BAR 23T10	23	1	73,21	160	160
BAR 24T10	24	1	76,39	160	160
BAR 26T10	26	1	82,76	160	160
BAR 28T10	28	1	89,12	160	160
BAR 30T10	30	1	95,49	160	160
BAR 32T10	32	1	101,85	160	160
BAR 34T10	34	1	108,22	160	160
BAR 36T10	36	1	114,59	160	160
BAR 38T10	38	1	120,95	160	160
BAR 40T10	40	1	127,32	160	160
BAR 45T10	45	1	143,23	160	160
BAR 48T10	48	1	152,78	160	160
BAR 60T10	60	1	190,98	160	160
BAR 72T10	72	1	229,17	160	160



1

Part Number	BAR 22 T10 / AL
Timing Bar	
Teeth number	
Pitch	
Material - AL: aluminum	

KOM I KONTAKT MED OS VI RÅDGIVER DIG



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I mange årtier har FEC Consulting positioneret sig som en kompetent løsnings leverandør af tandremme, transportbånd og remme.

FEC Consulting has positioned itself over many decades as a complete solution provider in the manufacture and application of plastic conveyor belts, timing belts and coatings.

Læs også alt om vores belagte tandremme



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