

MEGALINEAR RPP5 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	10	15	25	30	50	75
Weight (gr/m)	40	60	100	120	195	292

Standard compound: **white Polyurethane thermoplastic 92 ShA**

Standard back cover: **none**

Standard tooth cover: **nylon fabric (NFT)**

Standard cords: **S and Z torsion zinked steel**

Standard width tolerance: **+/- 0,5 mm**

Standard thickness: **3,8 +/- 0,2 mm**

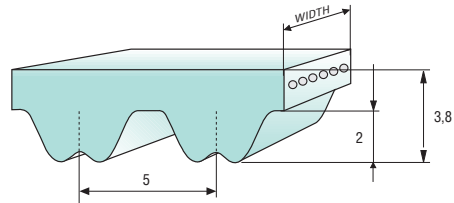
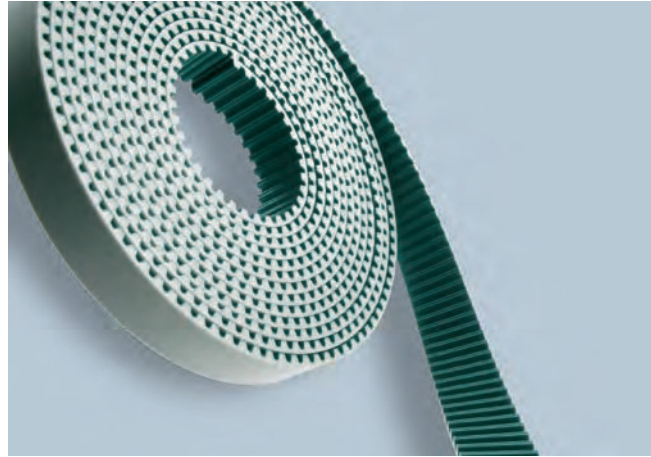
Standard length tolerance: **+/- 0,8 mm/m**

HP cord length tolerance: **+0/- 0,8 mm/m**

Standard roll length: **100 m**

Belt options on request with minimum quantity:

- Nylon fabric back
- Antistatic nylon fabric
- AVAFc 60/70/85 ShA
- APL
- Cleats



Different back coating materials see page 120

TOOTH PROFILE ACCORDING ISO 13050

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)	37	36	36	36	35	35	33	32	30	30	27	26	24	23	21	19	18	15

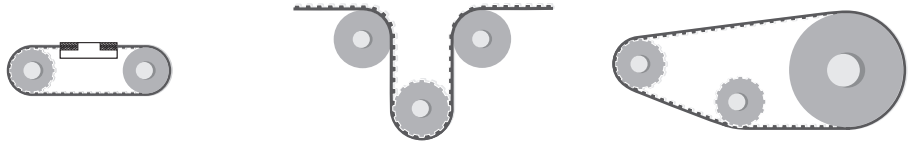
Minimum suggested number of teeth in clamp for linear movement: 7 - HP cords minimum suggested number of teeth in clamp 10

TRACTION RESISTANCE

Belt width (mm)		10	15	25	30	50	75
Steel	Max Traction Load (N)	670	1005	1805	2210	3750	6065
	Breaking Strength (N)	2680	4020	7235	8840	15005	23045
	Elongation at MTL (mm/m)	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	665	995	1795	2190	3720	-
	Breaking Strength (N)	2660	3990	7180	8775	14895	-
	Elongation at MTL (mm/m)	8	8	8	8	8	-
Stainless	Max Traction Load (N)	590	885	1590	-	-	-
	Breaking Strength (N)	2360	3540	6370	-	-	-
	Elongation at MTL (mm/m)	3,8	3,8	3,8	-	-	-
HP	Max Traction Load (N)	840	1365	2415	2940	5040	8065
	Breaking Strength (N)	3360	5460	9660	11760	20160	30660
	Elongation at MTL (mm/m)	4	4	4	4	4	4

Average values

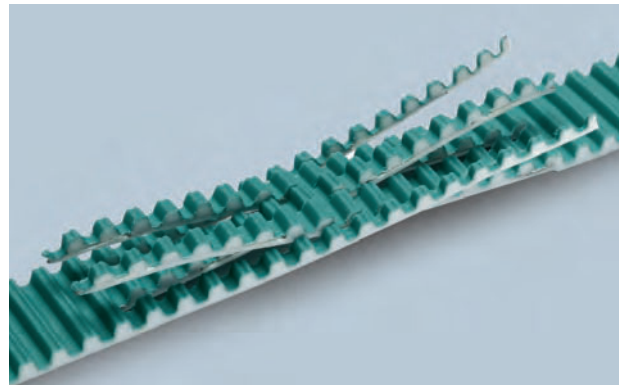
FLEXION RESISTANCE



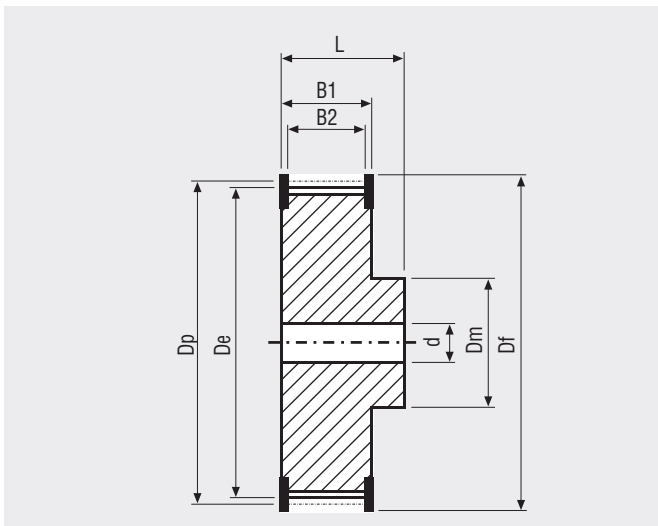
	Z_{min}	Z_{min}	Idler min dia (mm)	Z_{min}	Idler min dia (mm)
Standard steel cords	15	16	60	15	20
Kevlar cords	15	16	60	15	20
Stainless steel cords	18	18	65	18	65
High power cords	20	22	60	20	40

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 120



PULLEYS (for more details please see our pulleys catalogue)



N° Teeth	Dp	De	N° Teeth	Dp	De
15	23,87	22,73	30	47,75	46,60
16	25,46	24,32	32	50,93	49,79
18	28,65	27,50	36	57,30	56,15
20	31,83	30,69	40	63,66	62,52
21	33,42	32,28	44	70,03	68,89
22	35,01	33,87	48	76,39	75,25
24	38,20	37,05	60	95,49	94,35
26	41,38	40,24	72	114,59	113,45
28	44,56	43,42			

MEGALINEAR RPP8 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	10	15	20	30	50	85	100
Weight (gr/m)	65	100	130	195	330	560	655

Standard compound: **white Polyurethane thermoplastic 92 ShA**

Standard back cover: **none**

Standard tooth cover: **nylon fabric (NFT)**

Standard cords: **S and Z torsion zinked steel**

Standard width tolerance: **+/- 0,5 mm**

Standard thickness: **5,4 +/- 0,3 mm**

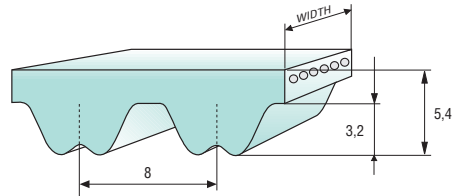
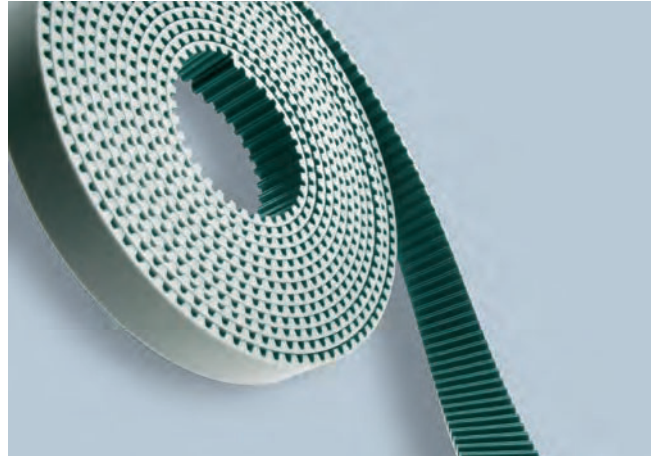
Standard length tolerance: **+/- 0,8 mm/m**

HP cord length tolerance: **+0/- 0,8 mm/m**

Standard roll length: **100 m**

Belt options on request with minimum quantity:

- Nylon fabric back
- Antistatic nylon fabric
- AVAFC 60/70/85 ShA
- APL
- Fishbone
- Ribbed
- Cleats



Different back coating materials see page 120

TOOTH PROFILE ACCORDING ISO 13050

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)	76	75	74	73	72	71	65	62	60	57	53	50	45	42	38	35	32	25

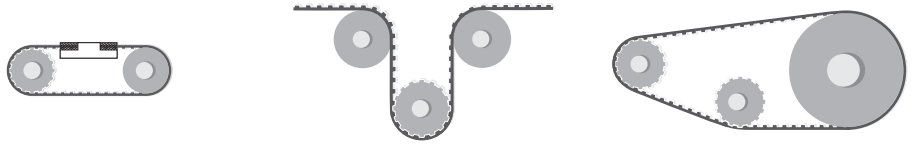
Minimum suggested number of teeth in clamp for linear movement: 7- HP cords minimum suggested number of teeth in clamp 10

TRACTION RESISTANCE

Belt width (mm)		10	15	20	30	50	85	100
Steel	Max Traction Load (N)	1425	2135	3085	4750	8075	14750	17500
	Breaking Strength (N)	5700	8550	12350	19000	32300	56050	66500
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	1185	1780	2570	3955	6725	12285	14580
	Breaking Strength (N)	4745	7120	10285	15830	26910	46695	55405
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8
HP	Max Traction Load (N)	2160	3460	4755	7785	12975	24125	27770
	Breaking Strength (N)	8650	13840	19030	31140	51900	91690	105530
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4

Average values

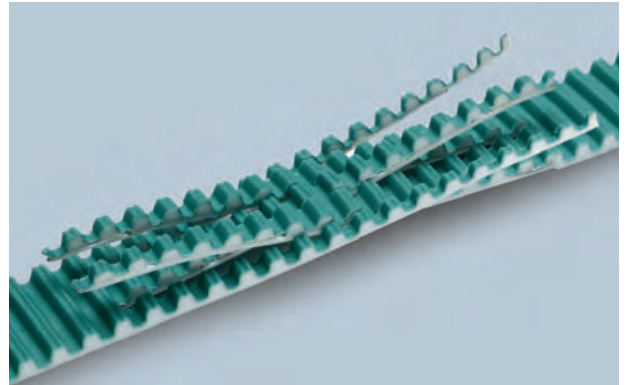
FLEXION RESISTANCE



	Z_{min}	Z_{min}	Idler min dia (mm)	Z_{min}	Idler min dia (mm)
Standard steel cords	18	20	100	18	45
Kevlar cords	18	20	100	18	45
High power cords	30	34	180	30	60

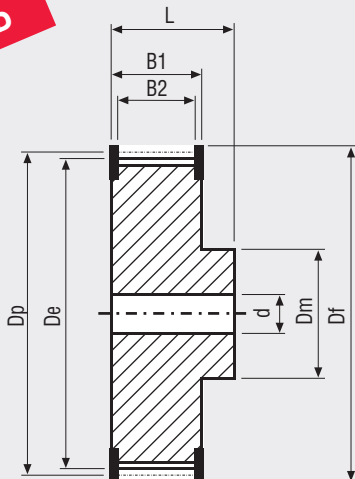
JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 120



PULLEYS (HP belts can't work on RPP or MTD standard pulleys, a special profile is required. Please contact Megadyne staff for more information)

SPECIAL SHAPE IS REQUIRED



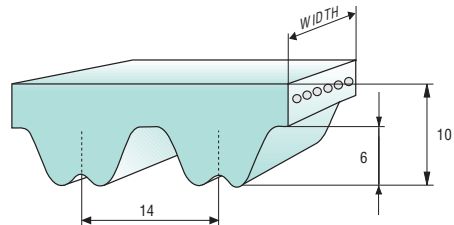
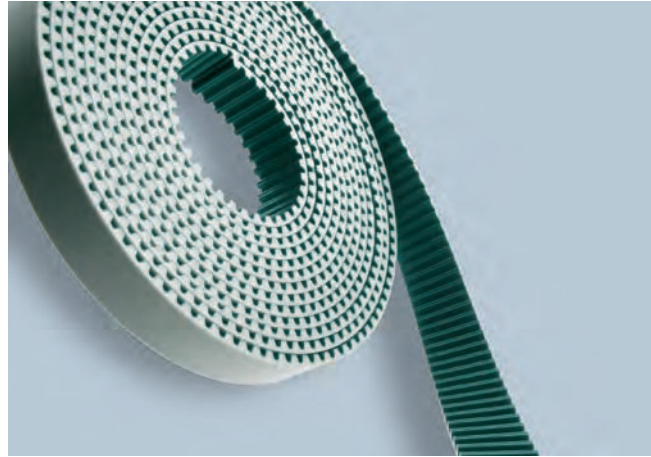
N° Teeth	Dp	De	N° Teeth	Dp	De
18	45,86	44,49	44	112,04	110,67
22	56,02	54,65	48	122,23	120,86
24	61,12	59,74	54	137,51	136,14
26	66,21	64,84	64	162,97	161,60
28	71,30	69,93	72	183,35	181,97
30	76,39	75,02	80	203,72	202,35
32	81,49	80,12	90	229,18	227,81
34	86,58	85,21	112	285,20	283,83
36	91,67	90,30	144	366,69	365,32
38	96,77	95,39	168	427,81	426,44
40	101,86	100,49	192	488,92	487,55

MEGALINEAR RPP14 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	40	55	85	115	150
Weight (gr/m)	505	610	1080	1465	1958

- Standard compound: **white Polyurethane thermoplastic 92 ShA**
- Standard back cover: **none**
- Standard tooth cover: **nylon fabric (NFT)**
- Standard cords: **S and Z torsion zinked steel**
- Standard width tolerance: **+/- 1 mm**
- Standard thickness: **10 +/- 0,4 mm**
- Standard length tolerance: **+/- 0,8 mm/m**
- Standard roll length: **100 m**
- Belt options on request with minimum quantity:
 - Nylon fabric back
 - Antistatic nylon fabric
 - AVAFC 60/70/85 ShA
 - APL
 - Fishbone
 - Ribbed
 - Cleats



Different back coating materials see page 120

TOOTH PROFILE ACCORDING ISO 13050

TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000
F _{p spec} (N/cm)	140	137	135	133	131	128	118	111	105	101	91	84	75	62	52	40	30

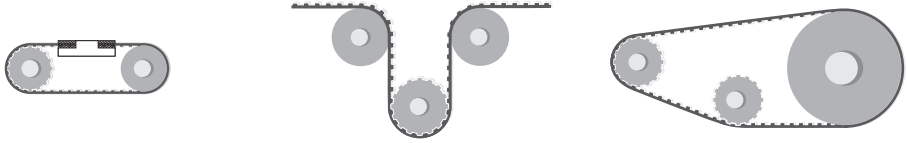
Minimum suggested number of teeth in clamp for linear movement: 8

TRACTION RESISTANCE

Belt width (mm)		40	55	85	115	150
Steel	Max Traction Load (N)	15200	22000	35000	51025	67310
	Breaking Strength (N)	60800	83600	133000	178600	235600
	Elongation at MTL (mm/m)	4	4	4	4	4

Average values

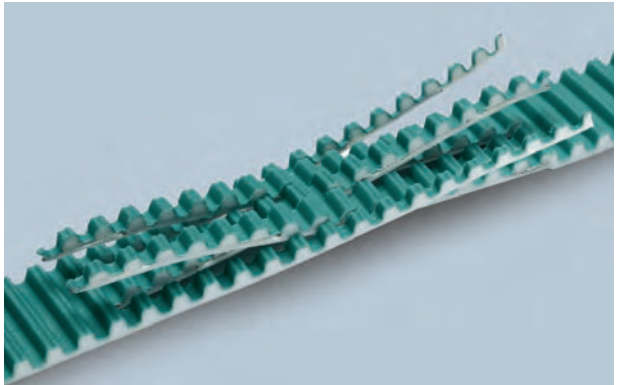
FLEXION RESISTANCE



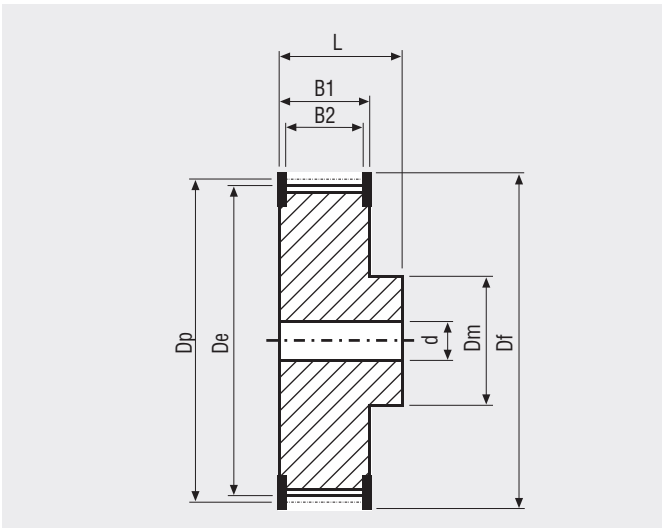
	Z_{min}	Z_{min}	Idler min dia (mm)	Z_{min}	Idler min dia (mm)
Standard steel cords	32	34	250	32	145

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 120



PULLEYS (for more details please see our pulleys catalogue)



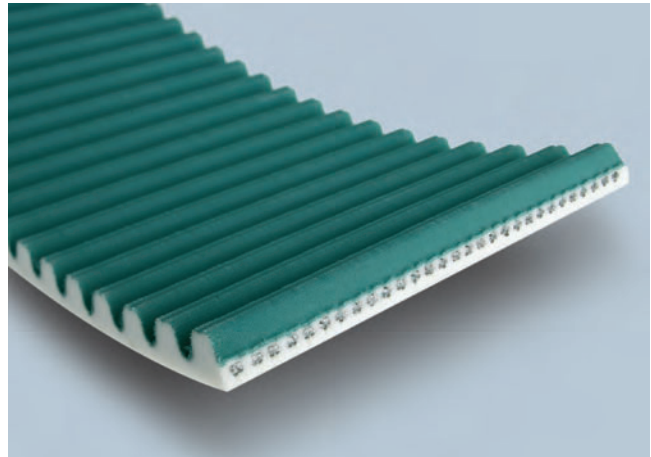
N° Teeth	Dp	De	N° Teeth	Dp	De
32	142,60	139,81	72	320,86	318,07
34	151,52	148,73	80	356,51	353,72
36	160,43	157,64	90	401,07	398,28
38	169,34	166,55	112	499,11	496,32
40	178,25	175,46	144	641,71	638,92
44	196,08	193,29	168	748,66	745,87
48	213,90	211,11	192	855,61	852,82
56	249,55	246,76	216	962,57	959,78
64	285,20	282,41			

MEGALINEAR RPP14XHP OPEN-END

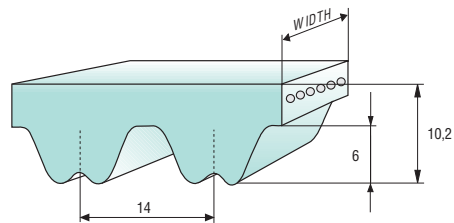
BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	40	55	85	115	150
Weight (gr/m)	640	900	1380	1890	2485

Standard compound: **white Polyurethane thermoplastic 92 ShA**
 Standard back cover: **none**
 Standard tooth cover: **nylon fabric (NFT)**
 Standard cords: **S and Z torsion zinked steel**
 Standard width tolerance: **+/- 1 mm**
 Standard thickness: **10,2 +/- 0,5 mm**
 Standard length tolerance: **-0,4/-1,2 mm/m**
 Standard roll length: **100 m**



TOOTH PROFILE ACCORDING ISO 13050



TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000
F _{p spec} (N/cm)	140	137	135	133	131	128	118	111	105	101	91	84	75	62	52	40	30

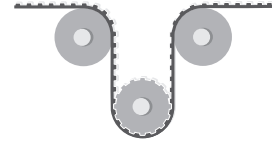
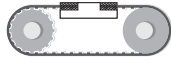
Minimum suggested number of teeth in clamp for linear movement: 12

TRACTION RESISTANCE

Belt width (mm)		40	55	85	115	150
Steel	Max Traction Load (N)	19800	30316	47365	69940	92570
	Breaking Strength (N)	79200	115200	180000	244800	324000
	Elongation at MTL (mm/m)	4	4	4	4	4

Average values

FLEXION RESISTANCE



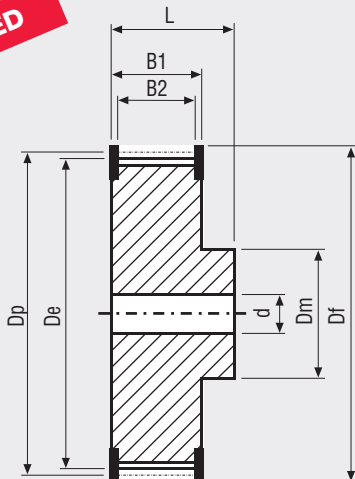
	Z_{min}	Z_{min}	Idler min dia (mm)
Standard steel cords	32	34	250

TYPICAL BELT APPLICATION



PULLEYS (XHP belts can't work on RPP or HTD profile standard pulleys, a special profile is required. PLS contact Megadyne staff for more information)

SPECIAL SHAPE IS REQUIRED



N° Teeth	Dp	De	N° Teeth	Dp	De
32	142,60	139,81	72	320,86	318,07
34	151,52	148,73	80	356,51	353,72
36	160,43	157,64	90	401,07	398,28
38	169,34	166,55	112	499,11	496,32
40	178,25	175,46	144	641,71	638,92
44	196,08	193,29	168	748,66	745,87
48	213,90	211,11	192	855,61	852,82
56	249,55	246,76	216	962,57	959,78
64	285,20	282,41			