



Fenner Torque Drive PLUS[®] 3 offers;

- State of the art power ratings.
- Compact drive package - reduced weight.
- Quiet operation.
- Accuracy of positioning.
- Anti-static as standard.
- Runs on standard HTD pulleys.

In the mid 1990s, Torque Drive Plus (MR) was introduced to give significantly enhanced power capacity over HTD (M) belt drive systems, with lower noise levels and lower backlash.

The next generation was TDP2 (MGT), but continuous development work has now produced Fenner Torque Drive Plus 3, with all these attributes and yet higher power capacity.

Designated MXP these belts are available in 8mm and 14mm pitches, with the same standard widths and lengths as HTD and TDP/TDP2, and operate in standard HTD pulleys.

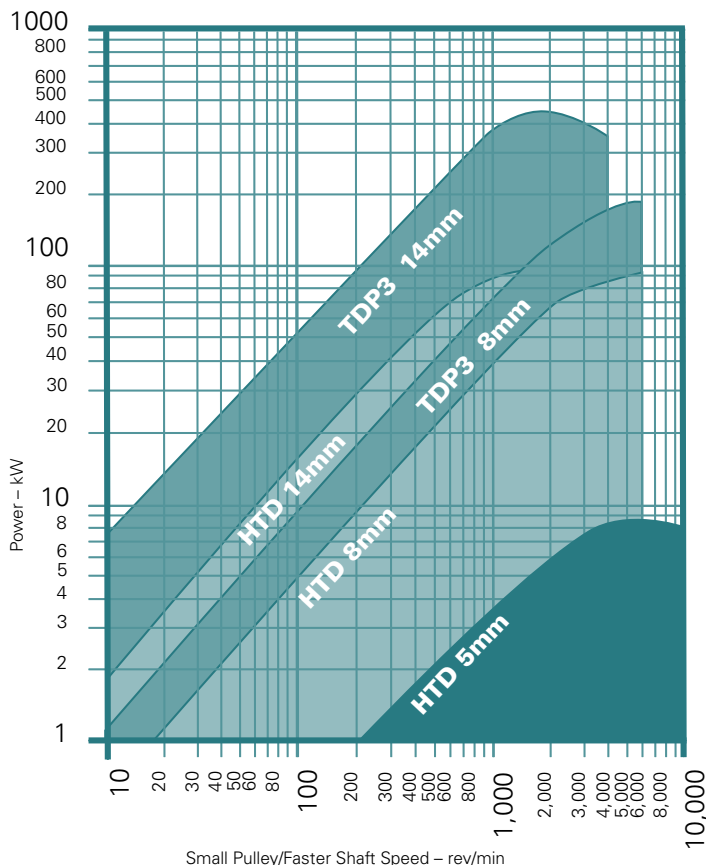
They allow design of lighter, more compact, more cost-effective drive packages.

Alternatively, their use on existing HTD or TDP/TDP2 drives will give longer service life.

Torque Drive Plus 3 is the ultimate in rubber/glass-fibre synchronous belts.

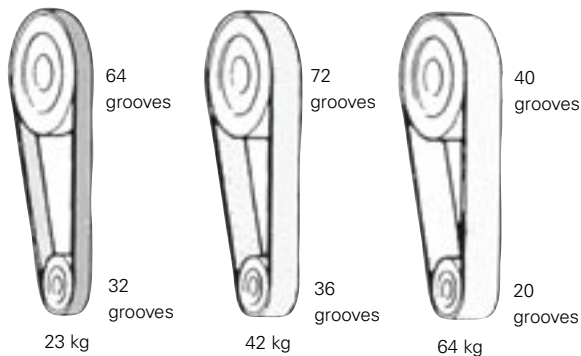
The Fenner HTD and Torque Drive Plus 3 drive systems conform to the ISO 13050 standard.

COMPARISON OF HTD, TORQUE DRIVE PLUS3 DRIVE POWER RATINGS



DRIVE PACKAGE COMPARISON

14 MXP	14M HTD	XH
55 mm	115 mm	178 mm



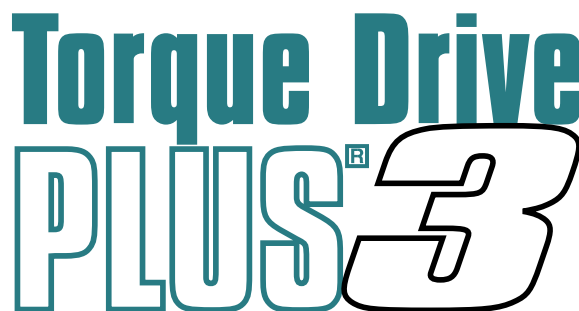
Drive Condition

Driver: 45 kW motor
1460 rev/min
16 hrs/day

Driven: Rotary gear pump
730 rev/min ± 5%

ANTI-STATIC AS STANDARD

Fenner Torque Drive Plus 3 belts are static conductive to the definitive ISO 9563 standard.

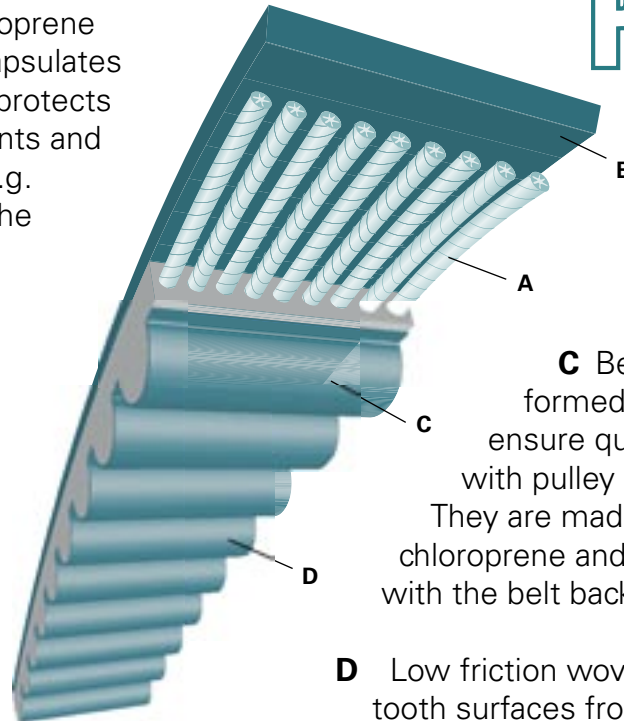




Torque Drive PLUS[®] 3

A Helically wound glass-fibre tensile member gives high tensile modulus and excellent fatigue life.

B Flexible, durable chloroprene backing polymer, encapsulates the tensile cords and protects them from contaminants and mechanical damage e.g. from idler pulleys on the back of the belt.



C Belt teeth are precisely formed and accurately spaced to ensure quiet, efficient engagement with pulley grooves.

They are made of medium hardness chloroprene and are bonded integrally with the belt backing.

D Low friction woven nylon facing protects tooth surfaces from wear and aids quiet, efficient running.

TORQUE DRIVE PLUS 3 BELTS

The three principal dimensions of a belt are:

pitch **pitch length** **width**
and are used in this order as a designation e.g. 8MXP-1120-30.

Belt pitch is the distance in millimetres between two adjacent tooth centres as measured on the pitch line of the belt.

Belt pitch length is the total length of the belt (circumference) in millimetres as measured along the pitch line. The theoretical pitch line of a belt lies within the tensile member.

TEMPERATURE

Torque Drive Plus 3 belt performance is generally unaffected in ambient temperatures between -25°C and +100°C. Temperatures beyond these extremes should be referred to your local Authorised Distributor.

8mm PITCH (8MXP) BELTS

Pitch Length mm	20mm WIDE Cat. Code	30mm WIDE Cat. Code	50mm WIDE Cat. Code	85mm WIDE Cat. Code
480	286J0048	286K0048	286L0048	286M0048
560	56	56	56	56
600	60	60	60	60
640	64	64	64	64
720	72	72	72	72
800	80	80	80	80
880	88	88	88	88
960	96	96	96	96
1040	104	104	104	104
1120	112	112	112	112
1200	120	120	120	120
1280	128	128	128	128
1440	144	144	144	144
1600	160	160	160	160
1760	176	176	176	176
1800	180	180	180	180
2000	200	200	200	200
2400	240	240	240	240
2600	260	260	260	260
2800	280	280	280	280

14mm PITCH (14MXP) BELTS

Pitch Length mm	40mm WIDE Cat. Code	55mm WIDE Cat. Code	85mm WIDE Cat. Code	115mm WIDE Cat. Code	170mm WIDE Cat. Code
966	286N0096	286P0096	286R0096	286S0096	286T0096
1190	119	119	119	119	119
1400	140	140	140	140	140
1610	161	161	161	161	161
1778	177	177	177	177	177
1890	189	189	189	189	189
2100	210	210	210	210	210
2310	231	231	231	231	231
2450	245	245	245	245	245
2590	259	259	259	259	259
2800	280	280	280	280	280
3150	315	315	315	315	315
3500	350	350	350	350	350
3850	385	385	385	385	385
4326	432	432	432	432	432
4578	457	457	457	457	457

TDP3 DRIVE SELECTION PROCEDURE

1) Determine Drive Requirements

- The nature of the driving machine (usually the prime mover) and the driven machine and the duty cycle in hrs./day.
- The rotational speeds of the driving and driven machines.
- The power capability and starting arrangements of the prime mover and the power absorbed by the driven machines.
- The required drive centre distance and the machine shaft diameters.

2) Calculate Design Power

Select a service factor from the table – page 90. Include an additional factor if the drive is speed increasing.

Multiply normal running (absorbed) power by the service factor to give **design power – kW**.

3) Belt Pitch

Use the **belt pitch** selection guide - page 89 to select 8mm or 14mm pitch according to the point of intersection of the small pulley (faster shaft) rotational speed and the design power.

If the intersection lies close to the 8/14mm pitch boundary, either pitch may be appropriate, attempt the design procedure on 8mm pitch first but be aware that later criteria may make 14mm necessary.

4) Speed Ratio

Divide the rotational speed of the faster shaft (rev/min) by that of the slower shaft to determine **speed ratio**.

5) Pulley Selection

Refer to the drive tables (pages 96 to 101) for the appropriate belt pitch. From the first column select the required speed ratio and consult the next two columns for appropriate **pulley groove numbers**.

Where alternative groove number pairs are available be aware that criteria in steps 6 & 7 may influence the ultimate selection.

Consider any drive dimensional limitations by reference to pulley dimension tables on pages 102 to 104, noting that pulleys with up to 72 grooves may have flanges that determine the o/dia.

6) Belt Length & Centre Distance

Read along the line in the drive table for the selected pulley groove number pair and select the centre distance closest to that required. The standard **belt length** giving that **centre distance** is at the head of the column.

If centre distance is critical, be aware that alternative groove number pairs may offer a closer value with standard belt lengths.

7) Power Rating & Belt Width

Refer to the **power rating** table on page 89 for the chosen belt pitch, locate the small pulley groove number/rotational speed combination, and note the **power rating** (for the narrowest standard belt width).

Multiply this rating by the belt length factor for the chosen belt length, from the listing beneath the main table.

Divide the **design power** by the length corrected power rating, to give required belt width factor. Refer to the width factors below the rating table and select the belt width with a factor equal to or greater than required.

8) Shaft Sizes

Check the **bore capacity** of the chosen pulleys against the pulley dimension tables on pages 102 & 104.

If the pulleys will not accommodate the drive **shafts** it will be necessary to consider other pulley combinations, possibly using an alternative belt pitch.

NOTE

An optimum drive will use a belt of width factor just greater than that required. If alternative groove number pairs can give close to the required speed ratio, slightly larger pulley groove numbers may allow a narrower belt, or slightly smaller groove numbers may be possible with the same belt width.

Larger diameter pulleys typically reduce bearing and shaft loads.

Avoid drives where the belt width exceeds the small pulley diameter.

EXAMPLE

1) Drive Requirements

- AC cage rotor electric motor driving to a rotary gear pump. 24 hr/day.
- 1450 rev/min motor, pump to run at 740rev/min +/-5%.
- 60 kW motor, soft start – no pump absorbed power given.
- Centres 800/850mm, motor shaft 60mm, pump shaft 75mm.

2) Design Power

Service factor for medium duty, soft start, 24 hr/day = 1.7.

Design power = 1.7 x 60 = 102 kW.

3) Belt Pitch

Pitch selection chart shows intersection of 1450 rev/min and 102 kW to be within the capability of 14mm pitch.

4) Speed Ratio

1450/740 = 1.97:1

A 2:1 ratio satisfies the +/-5% criterion.

5) Pulley Selection

From page 100, 32 to 64 grooves is one combination giving 2:1 ratio.

6) Belt Length & Centre Distance

A belt length of 2310mm gives centres of 816mm.

7) Power Rating & Belt Width

The power rating table shows a value of 46.74 kW for a 32 groove pulley at 1450 rev/min for a 40mm wide belt.

Belt length factor for a 2310mm belt = 1.0 - no change to power ratings.

102/46.74 = 2.18. Next larger standard width factor = 2.31 for 85mm wide belt.

8) Shaft Sizes

The 32-14M-85 pulley uses a 2517 Taper Lock bush, max. bore 60mm – OK.

The 64-14M-85 pulley uses a 3525 Taper Lock bush, max. bore 100mm – OK.

DRIVE SPECIFICATION

Motor pulley:	32-14M-85 HTD pulley.
Taper Lock bush:	2517/60mm.
Driven pulley:	64-14M-85 HTD pulley.
Taper Lock bush:	3525/75mm.
Belt:	14MXP - 2310-85 Torque Drive Plus 3 belt.

DRIVE ORDERING INSTRUCTIONS

A complete drive usually consists of five components:

two pulleys, two Taper Lock bushes & one belt.

- Pulleys. Standard HTD pulleys. Codes are shown on the dimension tables, pages 102 to 104
- Taper Lock bushes. Bush sizes are shown on the pulley dimension tables. Bush codes are on Shaft Fixings pages 126 & 127.
- Belts. Belt codes are shown on page 87.

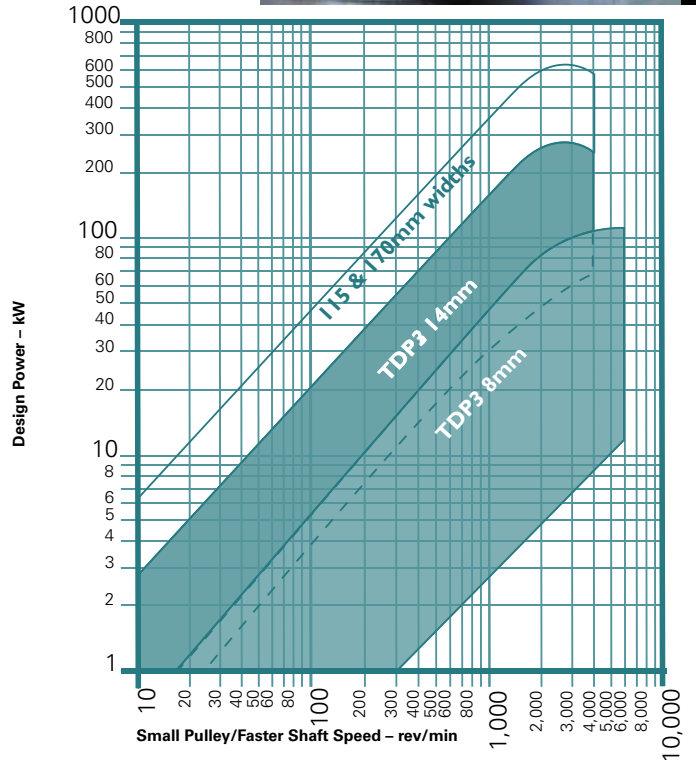
The drive selection above would be ordered as:

Driving pulley	32-14M-85	Code 043R0032.
Taper Lock bush	2517/60mm	Code 029M0060.
Driven pulley	64-14M-85	Code 043R0064.
Taper Lock bush	3525/75mm	Code 029J0075.
Belt	14MXP-2320-85	Code 286R0231.



BELT PITCH SELECTION GUIDE

Torque Drive PLUS[®] 3



POWER RATINGS (KW) FOR 20MM WIDE 8MXP BELT

Rev/min of small pulley	Number of grooves														
	22	24	26	28	30	32	34	36	38	40	44	48	56	64	72
100	0.43	0.50	0.57	0.65	0.73	0.81	0.89	0.97	1.06	1.14	1.30	1.45	1.71	1.88	1.94
200	0.83	0.97	1.11	1.26	1.41	1.57	1.72	1.88	2.04	2.19	2.50	2.79	3.27	3.59	3.71
300	1.23	1.43	1.64	1.85	2.07	2.30	2.53	2.76	2.99	3.21	3.66	4.07	4.76	5.22	5.37
400	1.61	1.88	2.15	2.43	2.72	3.01	3.31	3.61	3.91	4.20	4.78	5.31	6.21	6.78	6.97
500	1.99	2.32	2.65	3.00	3.35	3.71	4.08	4.44	4.81	5.17	5.87	6.52	7.60	8.29	8.51
600	2.37	2.75	3.14	3.55	3.97	4.40	4.83	5.26	5.69	6.11	6.93	7.69	8.96	9.76	9.99
720	2.82	3.27	3.73	4.22	4.71	5.21	5.73	6.23	6.74	7.24	8.20	9.09	10.57	11.49	11.74
800	3.10	3.60	4.11	4.64	5.19	5.74	6.29	6.85	7.40	7.95	8.99	9.96	11.56	12.54	12.79
960	3.65	4.23	4.83	5.45	6.08	6.72	7.37	8.01	8.65	9.28	10.50	11.62	13.44	14.54	14.80
1000	3.82	4.42	5.05	5.70	6.36	7.03	7.71	8.38	9.05	9.71	10.97	12.13	14.02	15.16	15.41
1200	4.52	5.23	5.97	6.73	7.50	8.29	9.08	9.86	10.64	11.40	12.86	14.20	16.36	17.63	17.85
1450	5.38	6.21	7.08	7.98	8.89	9.81	10.73	11.64	12.55	13.43	15.12	16.66	19.11	20.51	20.67
1600	5.57	6.43	7.33	8.25	9.18	10.12	11.07	12.00	12.93	13.83	15.55	17.12	19.58	20.95	21.07
1800	6.54	7.55	8.59	9.66	10.75	11.84	12.94	14.02	15.09	16.13	18.10	19.89	22.67	24.17	24.21
2000	7.18	8.29	9.43	10.59	11.77	12.96	14.15	15.32	16.47	17.59	19.71	21.62	24.56	26.08	26.02
2500	8.74	10.07	11.43	12.82	14.22	15.62	17.01	18.39	19.73	21.02	23.46	25.60	28.82	30.30	29.91
2850	9.79	11.26	12.76	14.29	15.83	17.37	18.89	20.38	21.83	23.24	25.84	28.11	31.42	32.79	32.10
3000	10.23	11.76	13.32	14.91	16.50	18.09	19.66	21.20	22.70	24.14	26.80	29.12	32.44	33.74	32.91
3500	11.65	13.36	15.10	16.87	18.63	20.38	22.10	23.78	25.40	26.94	29.77	32.18	35.46	36.43	35.06
4000	13.00	14.88	16.78	18.70	20.61	22.49	24.34	26.12	27.83	29.45	32.37	34.79	37.88	38.39	36.37
4500	14.28	16.31	18.36	20.41	22.44	24.44	26.37	28.23	30.00	31.66	34.61	36.98	39.71	39.63	36.86
5000	15.50	17.66	19.83	22.00	24.13	26.21	28.21	30.12	31.92	33.59	36.49	38.73	40.98	40.16	36.55
5500	16.65	18.93	21.21	23.47	25.68	27.81	29.86	31.79	33.58	35.23	38.02	40.06	41.68	40.00	35.44
6000	17.74	20.12	22.49	24.82	27.08	29.26	31.31	33.24	35.00	36.60	39.21	40.98	41.82	39.16	33.56

BELT LENGTH CORRECTION FACTORS (multiplier)

Belt length mm	384 - 600	640 - 880	960 - 1200	1280 - 1760	1800 - 4400
Length factor	0.8	0.9	1.0	1.1	1.2

BELT WIDTH FACTORS

Belt width mm	20	30	50	85
Width factor	1.00	1.58	2.73	4.76

POWER RATINGS (KW) FOR 40MM WIDE 14MXP BELT

Rev/min of small pulley	Number of grooves											
	28	29	30	32	34	36	38	40	44	48	56	64
10	0.44	0.47	0.50	0.55	0.60	0.65	0.69	0.74	0.88	0.92	1.10	1.29
20	0.85	0.90	0.96	1.06	1.15	1.24	1.33	1.42	1.69	1.78	2.13	2.48
50	1.99	2.12	2.24	2.48	2.71	2.92	3.14	3.35	3.98	4.20	5.03	5.87
100	3.77	4.03	4.27	4.73	5.16	5.58	5.99	6.40	7.60	8.00	9.59	11.18
200	7.09	7.58	8.04	8.91	9.72	10.52	11.29	12.06	14.30	15.06	18.02	20.95
300	10.19	10.91	11.57	12.82	14.00	15.13	16.25	17.34	20.55	21.61	25.78	29.88
400	13.13	14.06	14.92	16.52	18.04	19.50	20.92	22.31	26.40	27.73	32.98	38.10
500	15.93	17.06	18.11	20.05	21.88	23.64	25.34	27.02	31.89	33.48	39.68	45.67
600	18.61	19.93	21.16	23.42	25.54	27.58	29.55	31.48	37.06	38.87	45.91	52.63
720	21.78	23.34	24.77	27.40	29.87	32.22	34.50	36.72	43.13	45.20	53.17	60.71
800	23.65	25.33	26.88	29.73	32.38	34.90	37.34	39.71	46.51	48.69	57.04	64.84
960	27.20	29.20	30.90	34.20	37.20	40.00	42.70	45.33	52.90	55.30	64.30	72.60
1000	28.30	30.30	32.14	35.50	38.60	41.55	44.38	47.11	54.64	57.29	66.51	74.85
1200	32.59	34.88	36.97	40.78	44.28	47.57	50.70	53.71	62.11	64.73	74.38	82.77
1450	37.49	40.10	42.46	46.74	50.62	54.24	57.65	60.90	69.77	72.47	82.07	89.83
1600	40.20	42.97	45.47	49.98	54.04	57.81	61.34	64.66	73.62	76.30	85.57	92.58
1800	43.54	46.50	49.72	53.93	58.18	62.08	65.69	69.07	77.83	80.50	88.95	94.56
2000	46.59	49.71	52.51	57.46	61.84	65.80	69.43	72.78	81.29	83.66	90.90	94.63
2200	49.35	52.61	55.51	60.59	65.02	68.99	72.57	75.81	83.74	85.81	91.44	92.82
2500	52.95	56.35	59.33	64.49	68.89	72.72	76.09	79.04	85.59	87.06	89.47	86.40
2850	56.46	59.94	62.96	68.05	72.25	75.77	78.71	81.12	85.46	85.99	83.65	
3000	57.70	61.20	64.20	69.21	73.26	76.58	79.26	81.37	84.54	84.58	79.82	
3500	60.83	64.23	67.06	71.55	74.87	77.27	78.85	79.68	79.95	76.02		
4000	62.41	65.54	68.03	71.64	73.86	74.94	75.01	74.12	66.07			

BELT LENGTH CORRECTION FACTORS (multiplier)

Belt length mm	966 - 1190	1400-1610	1778-1890	2100-2450	2590-3360	3500-6860
Length factor	0.80	0.90	0.95	1.00	1.05	1.10

BELT WIDTH FACTORS

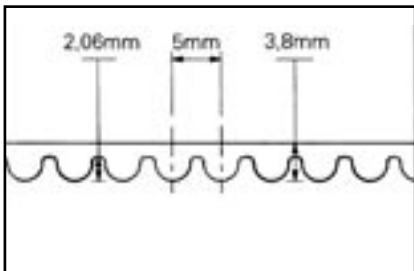
Belt width mm	40	55	85	115	170
Width factor	1.00	1.44	2.31	3.18	4.78

SERVICE FACTORS - for selecting both Torque Drive Plus 3 and HTD drives.

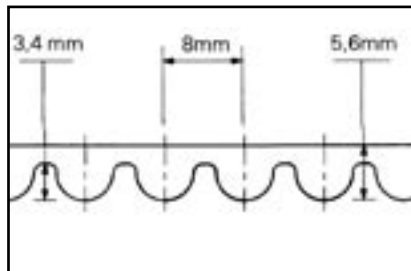
TYPES OF DRIVEN MACHINE	TYPES OF PRIME MOVER					
	'Soft' Starts			'Heavy' Starts		
	AC electric motors		DC electric motors	AC electric motors		DC electric motors
	<p>SPECIAL CASES</p> <p>For speed increasing drives of:</p> <p>1.00 - 1.24 - no additional factor</p> <p>1.25 - 1.74 - add 0.1</p> <p>1.75 - 2.49 - add 0.2</p> <p>2.50 - 3.49 - add 0.3</p> <p>3.50 and greater - add 0.4</p> <p>Seasonal / intermittent use - subtract 0.2</p> <p>Idler pulley used on drive - add 0.2</p>					
- star / delta start - synchronous - split wound - inverter control I/C engines with 4 or more cylinders. Prime movers with centrifugal clutches or fluid couplings.		- shunt wound - stepper motors	- DOL start - single phase - slip ring		- series wound - compound - servo motors	
Hours per day duty			Hours per day duty			
10 and under	Over 10 to 16	Over 16	10 and under	Over 10 to 16	Over 16	
<p>LIGHT DUTY</p> Agitators (uniform density), Bakery machinery: Dough mixers, Blowers except positive displacement. Centrifugal pumps and compressors. Belt conveyors, (uniformly loaded). Exhausters. Fans up to 7.5 kW. Paper machinery: Agitators, calenders, dryers, Printing machinery: Linotype machines, cutters, folders. Screens: Drum, conical. Woodworking machinery: Lathes, band saws.	1.2	1.4	1.6	1.6	1.8	2.0
<p>MEDIUM DUTY</p> Agitators and Mixers (variable density), Belt conveyors (not uniformly loaded), Brick and clay machinery, augers, mixers, granulators. Fans over 7.5 kW. Generators, Line shafts, Laundry machinery. Punches, presses, shears. Printing machinery: Presses, newspaper, rotary embossing, flat bed magazine. Pumps: Positive displacement, rotary. Screens, vibrating. Machine tools.	1.3	1.5	1.7	1.7	1.9	2.1
<p>HEAVY DUTY</p> Blowers, positive displacement. Bucket elevators Centrifuges. Conveyors: Drag, pan, screw. Paper machinery: Beaters, jordans, mash pumps, pulpers. Pumps, piston. Pulverizers. Woodworking machinery. Textile machinery. Exiters.	1.5	1.7	1.9	1.9	2.1	2.3
<p>EXTRA HEAVY DUTY</p> Brick machinery, pug mills. Compressors, piston. Crushers: Gyrotory, jaw roll. Hoists. Mills: Ball, rod, tube, rubber. Rubber machinery: Calenders, extruders, mills.	1.7	1.9	2.1	2.1	2.3	2.5

BELT DIMENSIONS

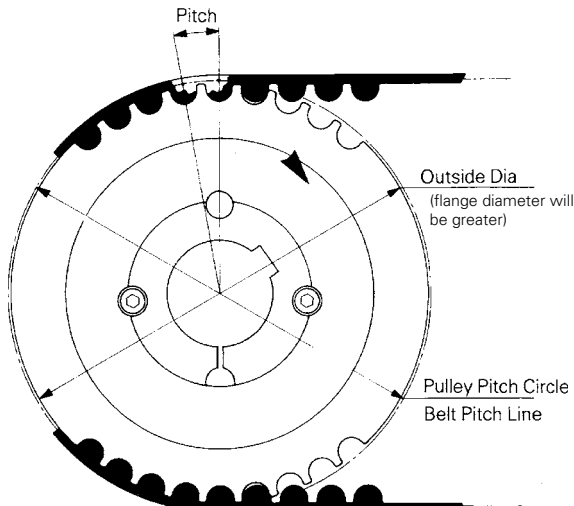
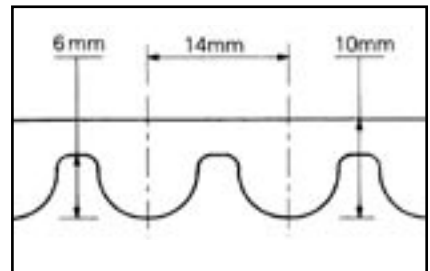
5M HTD



8MXP & 8M HTD



14MXP & 14M HTD



PULLEYS

The three principal dimensions of a pulley are:

number of grooves pitch width

and are used in this order as a designation e.g. 72-8M-50.

On the pulley, pitch is the distance between groove centres and is measured on the pulley pitch circle.

The pitch circle of the pulley coincides with the pitch line of the belt running in it. The pulley pitch diameter is always greater than its outer diameter.

Torque Drive Plus 3 belts run with standard Fenner Taper Lock HTD pulleys.

Standard pulley dimensions are listed in the tables on s 102 to 104.

CENTRE DISTANCE IN MILLIMETRES

Speed Ratio	Number of grooves on		Belt pitch length in millimetres																				Speed Ratio
	Driving Pulley	Driven Pulley	480	560	600	640	720	800	880	960	1040	1120	1200	1280	1440	1600	1760	1800	2000	2400	2600	2800	
			60 teeth	70 teeth	75 teeth	80 teeth	90 teeth	100 teeth	110 teeth	120 teeth	130 teeth	140 teeth	150 teeth	160 teeth	180 teeth	200 teeth	220 teeth	225 teeth	250 teeth	300 teeth	325 teeth	350 teeth	
1.00	24	24	144	184	204	224	264	304	344	384	424	464	504	544	624	704	784	804	904	1104	1204	1304	1.00
1.00	26	26	136	176	196	216	256	296	336	376	416	456	496	536	616	696	776	796	896	1096	1196	1296	1.00
1.00	28	28	128	168	188	208	248	288	328	368	408	448	488	528	608	688	768	788	888	1088	1188	1288	1.00
1.00	30	30	120	160	180	200	240	280	320	360	400	440	480	520	600	680	760	780	880	1080	1180	1280	1.00
1.00	32	32	112	152	172	192	232	272	312	352	392	432	472	512	592	672	752	772	872	1072	1172	1272	1.00
1.00	34	34	104	144	164	184	224	264	304	344	384	424	464	504	584	664	744	764	864	1064	1164	1264	1.00
1.00	36	36	-	136	156	176	216	256	296	336	376	416	456	496	576	656	736	756	856	1056	1156	1256	1.00
1.00	38	38	-	128	148	168	208	248	288	328	368	408	448	488	568	648	728	748	848	1048	1148	1248	1.00
1.00	40	40	-	120	140	160	200	240	280	320	360	400	440	480	560	640	720	740	840	1040	1140	1240	1.00
1.00	44	44	-	-	-	144	184	224	264	304	344	384	424	464	544	624	704	724	824	1024	1124	1224	1.00
1.00	48	48	-	-	-	-	168	208	248	288	328	368	408	448	528	608	688	708	808	1008	1108	1208	1.00
1.00	56	56	-	-	-	-	-	176	216	256	296	336	376	416	496	576	656	676	776	976	1076	1176	1.00
1.00	64	64	-	-	-	-	-	-	184	224	264	304	344	384	464	544	624	644	744	944	1044	1144	1.00
1.00	72	72	-	-	-	-	-	-	-	-	232	272	312	352	432	512	592	612	712	912	1012	1112	1.00
1.00	80	80	-	-	-	-	-	-	-	-	-	240	280	320	400	480	560	580	680	880	980	1080	1.00
1.05	38	40	-	124	144	164	204	244	284	324	364	404	444	484	564	644	724	744	844	1044	1144	1244	1.05
1.06	36	38	-	132	152	172	212	252	292	332	372	412	452	492	572	652	732	752	852	1052	1152	1252	1.06
1.06	34	36	-	140	160	180	220	260	300	340	380	420	460	500	580	660	740	760	860	1060	1160	1260	1.06
1.06	32	34	108	148	168	188	228	268	308	348	388	428	468	508	588	668	748	768	868	1068	1168	1268	1.06
1.07	30	32	116	156	176	196	236	276	316	356	396	436	476	516	596	676	756	776	876	1076	1176	1276	1.07
1.07	28	30	124	164	184	204	244	284	324	364	404	444	484	524	604	684	764	784	884	1084	1184	1284	1.07
1.08	26	28	132	172	192	212	252	292	332	372	412	452	492	532	612	692	772	792	892	1092	1192	1292	1.08
1.08	24	26	140	180	200	220	260	300	340	380	420	460	500	540	620	700	780	800	900	1100	1200	1300	1.08
1.09	44	48	-	-	-	136	176	216	256	296	336	376	416	456	536	616	696	716	816	1016	1116	1216	1.09
1.10	40	44	-	-	132	152	192	232	272	312	352	392	432	472	552	632	712	732	832	1032	1132	1232	1.10
1.11	36	40	-	128	148	168	208	248	288	328	368	408	448	488	568	648	728	748	848	1048	1148	1248	1.11
1.11	72	80	-	-	-	-	-	-	-	-	216	256	296	336	416	496	576	596	696	896	996	1096	1.11
1.12	34	38	-	136	156	176	216	256	296	336	376	416	456	496	576	656	736	756	856	1056	1156	1256	1.12
1.13	32	36	104	144	164	184	224	264	304	344	384	424	464	504	584	664	744	764	864	1064	1164	1264	1.13
1.13	64	72	-	-	-	-	-	-	-	208	248	288	328	368	448	528	608	628	728	928	1028	1128	1.13
1.13	80	90	-	-	-	-	-	-	-	-	-	260	300	380	460	540	560	660	860	960	1060	1.13	
1.13	30	34	112	152	172	192	232	272	312	352	392	432	472	512	592	672	752	772	872	1072	1172	1272	1.13
1.14	28	32	120	160	180	200	240	280	320	360	400	440	480	520	600	680	760	780	880	1080	1180	1280	1.14
1.14	56	64	-	-	-	-	-	-	200	240	280	320	360	400	480	560	640	660	760	960	1060	1160	1.14
1.15	26	30	128	168	188	208	248	288	328	368	408	448	488	528	608	688	768	788	888	1088	1188	1288	1.15
1.16	38	44	-	-	136	156	196	236	276	316	356	396	436	476	556	636	716	736	836	1036	1136	1236	1.16
1.17	24	28	136	176	196	216	256	296	336	376	416	456	496	536	616	696	776	796	896	1096	1196	1296	1.17
1.17	48	56	-	-	-	-	152	192	232	272	312	352	392	432	512	592	672	692	792	992	1092	1192	1.17
1.18	34	40	-	132	152	172	212	252	292	332	372	412	452	492	572	652	732	752	852	1052	1152	1252	1.18
1.19	32	38	-	140	160	180	220	260	300	340	380	420	460	500	580	660	740	760	860	1060	1160	1260	1.19
1.20	30	36	108	148	168	188	228	268	308	348	388	428	468	508	588	668	748	768	868	1068	1168	1268	1.20
1.20	40	48	-	-	-	144	184	224	264	304	344	384	424	464	544	624	704	724	824	1024	1124	1224	1.20
1.21	28	34	116	156	176	196	236	276	316	356	396	436	476	516	596	676	756	776	876	1076	1176	1276	1.21
1.22	36	44	-	120	140	160	200	240	280	320	360	400	440	480	560	640	720	740	840	1040	1140	1240	1.22
1.23	26	32	124	164	184	204	244	284	324	364	404	444	484	524	604	684	764	784	884	1084	1184	1284	1.23
1.25	24	30	132	172	192	212	252	292	332	372	412	452	492	532	612	692	772	792	892	1092	1192	1292	1.25
1.25	32	40	-	136	156	176	216	256	296	336	376	416	456	496	576	656	736	756	856	1056	1156	1256	1.25
1.25	64	80	-	-	-	-	-	-	-	-	231	271	311	351	432	512	592	612	712	912	1012	1112	1.25
1.25	72	90	-	-	-	-	-	-	-	-	-	235	275	315	395	475	556	576	676	876	976	1076	1.25
1.26	38	48	-	-	127	147	188	228	268	308	348	388	428	468	548	628	708	728	828	1028	1128	1228	1.26
1.27	30	38	103	144	164	184	224	264	304	344	384	424	464	504	584	664	744	764	864	1064	1164	1264	1.27
1.27	44	56	-	-	-	-	159	199	240	280	320	360	400	440	520	600	680	700	800	1000	1100	1200	1.27
1.29	28	36	112	152	172	192	232	272	312	352	392	432	472	512	592	672	752	772	872	1072	1172	1272	1.29
1.29	56	72	-	-	-	-	-	-	183	223	263	303	343	383	464	544	624	644	744	944	1044	1144	1.29
1.29	34	44	-	123	143	164	204	244	284	324	364	404	444	484	564	644	724	744	844	1044	1144	1244	1.29
1.31	26	34	120	160	180	200	240	280	320	360	400	440	480	520	600	680	760	780	880	1080	1180	1280	1.31
1.33	24	32	128	168	188	208	248	288	328	368	408	448	488	528	608	688	768	788	888	1088	1188	1288	1.33
1.33	30	40	-	139	159	180	220	260	300	340	380	420	460	500	580	660	740	760	860	1060	1160	1260	1.33
1.33	36	48	-	-	131	151	191	231	272	312	352	392	432	472	552	632	712	732	832	1032	1132	1232	1.33
1.33	48	64	-	-	-	-	-	-	175	215	255	295	335	375	456	536	616	636	736	936	1036	1136	1.33
1.36	28	38	107	147	168	188	228	268	308	348	388	428	468	508</									



Fenner Torque Drive Plus® 3 MXP & HTD 8M Drives

CENTRE DISTANCE IN MILLIMETRES

Speed Ratio	Number of grooves on		Belt pitch length in millimetres																				Speed Ratio	
	Driving Pulley	Driven Pulley	480	560	600	640	720	800	880	960	1040	1120	1200	1280	1440	1600	1760	1800	2000	2400	2600	2800		
			60 teeth	70 teeth	75 teeth	80 teeth	90 teeth	100 teeth	110 teeth	120 teeth	130 teeth	140 teeth	150 teeth	160 teeth	180 teeth	200 teeth	220 teeth	225 teeth	250 teeth	300 teeth	325 teeth	350 teeth		
1.41	64	90	-	-	-	-	-	-	-	-	250	290	330	411	491	571	591	691	891	991	1091	1.41		
1.41	34	48	-	-	135	155	195	235	275	315	356	396	436	476	556	636	716	736	836	1036	1136	1236	1.41	
1.42	24	34	123	164	184	204	244	284	324	364	404	444	484	524	604	684	764	784	884	1084	1184	1284	1.42	
1.43	28	40	103	143	163	183	223	264	304	344	384	424	464	504	584	664	744	764	864	1064	1164	1264	1.43	
1.43	56	80	-	-	-	-	-	-	-	206	246	286	327	367	447	527	607	627	727	927	1028	1128	1.43	
1.45	44	64	-	-	-	-	-	182	223	263	303	343	383	423	503	583	664	684	784	984	1084	1184	1.45	
1.46	26	38	111	151	171	191	231	272	312	352	392	432	472	512	592	672	752	772	872	1072	1172	1272	1.46	
1.47	30	44	-	131	151	171	211	251	291	332	372	412	452	492	572	652	732	752	852	1052	1152	1252	1.47	
1.47	38	56	-	-	-	-	170	211	251	291	331	371	411	451	531	612	692	712	812	1012	1112	1212	1.47	
1.50	24	36	119	159	179	199	240	280	320	360	400	440	480	520	600	680	760	780	880	1080	1180	1280	1.50	
1.50	32	48	-	118	139	159	199	239	279	319	359	399	440	480	560	640	720	740	840	1040	1140	1240	1.50	
1.50	48	72	-	-	-	-	-	198	238	278	318	359	399	439	519	599	679	699	799	999	1099	1199	1.50	
1.54	26	40	107	147	167	187	227	267	307	348	388	428	468	508	588	668	748	768	868	1068	1168	1268	1.54	
1.56	36	56	-	-	-	134	174	214	255	295	335	375	415	455	535	615	696	716	816	1016	1116	1216	1.56	
1.56	72	112	-	-	-	-	-	-	-	-	-	-	-	267	348	429	509	530	630	830	931	1031	1.56	
1.57	28	44	-	134	155	175	215	255	295	335	375	416	456	496	576	656	736	756	856	1056	1156	1256	1.57	
1.58	24	38	115	155	175	195	235	275	315	356	396	436	476	516	596	676	756	776	876	1076	1176	1276	1.58	
1.60	30	48	-	122	142	162	203	243	283	323	363	403	443	483	564	644	724	744	844	1044	1144	1244	1.60	
1.60	40	64	-	-	-	-	149	190	230	270	310	351	391	431	511	591	671	691	791	991	1092	1192	1.60	
1.61	56	90	-	-	-	-	-	-	-	-	224	264	305	345	426	506	586	606	707	907	1007	1107	1.61	
1.64	44	72	-	-	-	-	-	164	205	245	286	326	366	406	487	567	647	667	767	967	1067	1167	1.64	
1.65	34	56	-	-	-	137	178	218	258	299	339	379	419	459	539	619	699	719	820	1020	1120	1220	1.65	
1.67	24	40	110	151	171	191	231	271	311	351	391	432	472	512	592	672	752	772	872	1072	1172	1272	1.67	
1.67	48	80	-	-	-	-	-	179	220	261	301	342	382	422	502	582	662	682	782	982	1082	1182	1.67	
1.68	38	64	-	-	-	-	152	193	234	274	314	354	395	435	515	595	675	695	795	995	1095	1195	1.68	
1.69	26	44	-	138	158	179	219	259	299	339	379	419	459	499	580	660	740	760	860	1060	1160	1260	1.69	
1.71	28	48	-	125	146	166	206	247	287	327	367	407	447	487	567	647	728	748	848	1048	1148	1248	1.71	
1.75	32	56	-	-	-	141	181	222	262	302	343	383	423	463	543	623	703	723	823	1024	1124	1224	1.75	
1.75	64	112	-	-	-	-	-	-	-	-	-	-	-	240	281	363	444	524	545	645	846	946	1046	1.75
1.78	36	64	-	-	-	-	156	197	237	278	318	358	398	439	519	599	679	699	799	999	1099	1199	1.78	
1.80	40	72	-	-	-	-	-	171	212	253	293	334	374	414	494	575	655	675	775	975	1075	1175	1.80	
1.80	80	144	-	-	-	-	-	-	-	-	-	-	-	-	342	424	506	526	626	826	926	1026	1.80	
1.82	44	80	-	-	-	-	-	186	227	268	309	349	389	429	509	589	669	689	789	989	1089	1189	1.82	
1.83	24	44	-	142	162	182	223	263	303	343	383	423	463	503	583	664	744	764	864	1064	1164	1264	1.83	
1.85	26	48	-	129	149	170	210	250	291	331	371	411	451	491	571	651	731	751	851	1052	1152	1252	1.85	
1.87	30	56	-	-	-	144	185	226	266	306	346	387	427	467	547	627	707	727	827	1027	1128	1228	1.87	
1.88	48	90	-	-	-	-	-	197	238	279	320	360	401	441	521	602	682	702	802	1002	1103	1203	1.88	
1.88	34	64	-	-	-	-	159	200	241	281	322	362	402	442	523	603	683	703	803	1003	1103	1203	1.88	
1.89	38	72	-	-	-	-	-	175	216	256	297	337	378	418	498	578	658	678	778	978	1079	1179	1.89	
2.00	24	48	-	132	153	173	214	254	294	335	375	415	455	495	575	655	735	755	855	1056	1156	1256	2.00	
2.00	28	56	-	-	127	148	189	229	270	310	350	390	431	471	551	631	711	731	831	1031	1131	1231	2.00	
2.00	32	64	-	-	-	-	163	204	245	285	325	366	406	446	526	607	687	707	807	1007	1107	1207	2.00	
2.00	36	72	-	-	-	-	-	178	219	260	301	341	381	422	502	582	662	682	782	983	1083	1183	2.00	
2.00	40	80	-	-	-	-	-	193	234	275	316	356	397	437	517	597	677	697	797	997	1097	1197	2.00	
2.00	56	112	-	-	-	-	-	-	-	-	-	-	-	254	295	377	458	539	559	660	861	961	1062	2.00
2.00	72	144	-	-	-	-	-	-	-	-	-	-	-	-	-	356	438	519	539	640	841	941	1042	2.00
2.05	44	90	-	-	-	-	-	-	-	204	245	286	327	367	448	529	609	629	730	930	1030	1130	2.05	
2.10	80	168	-	-	-	-	-	-	-	-	-	-	-	-	-	-	367	449	530	731	831	931	1032	2.10
2.11	38	80	-	-	-	-	-	-	197	238	279	320	360	400	481	561	642	662	762	963	1063	1163	2.11	
2.12	34	72	-	-	-	-	-	182	223	264	304	345	385	425	506	586	666	686	787	987	1087	1187	2.12	
2.13	30	64	-	-	-	-	166	207	248	289	329	369	410	450	530	610	691	711	811	1011	1111	1211	2.13	
2.15	26	56	-	-	130	151	192	233	273	314	354	394	434	474	555	635	715	735	835	1035	1135	1235	2.15	
2.22	36	80	-	-	-	-	-	-	200	242	282	323	364	404	485	565	646	666	766	966	1067	1167	2.22	
2.25	32	72	-	-	-	-	-	185	226	267	308	348	389	429	509	590	670	690	790	991	1091	1191	2.25	
2.25	40	90	-	-	-	-	-	-	210	252	293	334	375	415	496	576	656	676	776	976	1076	1176	2.25	
2.25	64	144	-	-	-	-	-	-	-	-	-	-	-	-	286	370	453	473	575	777	878	979	2.25	
2.29	28	64	-	-	-	-	170	211	252	292	333	373	413	454	534	614	694	714	815	1015	1115	1215	2.29	
2.33	24	56	-	-	134	155	196	236	277	317	358	398	438	478	559	639	719	739	839	1039	1139	1239	2.33	
2.33	48	112	-	-	-	-	-	-	-	-	225	268	309	352	433	514	594	614	715	915	1015	1115	2.33	
2.33	72	168	-	-	-	-	-	-	-	-	-	-	-	-	-	-	380	461	542	743	843	943	2.33	
2.35	34	80	-	-	-	-	-	161	204	245	286	327	367	408	488	569	649	669	770	970	1070	1171	2.35	
2.37	38	90	-	-	-	-	-	-	-	214	255	297	338	378	459	540	620	640	741	941	1042	1142	2.37	
2.40	30	72	-	-	-	-	146	188	230	271	311	352	392	433	513	594</								

CENTRE DISTANCE IN MILLIMETRES

Speed Ratio	Number of grooves on		Belt pitch length in millimetres																				Speed Ratio
	Driving Pulley	Driven Pulley	480	560	600	640	720	800	880	960	1040	1120	1200	1280	1440	1600	1760	1800	2000	2400	2600	2800	
			60 teeth	70 teeth	75 teeth	80 teeth	90 teeth	100 teeth	110 teeth	120 teeth	130 teeth	140 teeth	150 teeth	160 teeth	180 teeth	200 teeth	220 teeth	225 teeth	250 teeth	300 teeth	325 teeth	350 teeth	
2.50	32	80	-	-	-	-	-	165	207	248	290	330	371	411	492	573	653	673	774	974	1074	1174	2.50
2.50	36	90	-	-	-	-	-	-	-	217	259	300	341	382	463	544	624	644	745	946	1046	1146	2.50
2.55	44	112	-	-	-	-	-	-	-	-	-	232	274	316	399	480	561	582	683	884	984	1085	2.55
2.57	28	72	-	-	-	-	150	192	233	274	315	356	396	436	517	597	678	698	798	998	1099	1199	2.57
2.57	56	144	-	-	-	-	-	-	-	-	-	-	-	-	299	384	467	487	589	792	893	994	2.57
2.63	64	168	-	-	-	-	-	-	-	-	-	-	-	-	-	394	415	519	724	825	927	2.63	
2.65	34	90	-	-	-	-	-	-	178	220	262	304	345	385	467	547	628	648	749	949	1050	1150	2.65
2.67	24	64	-	-	-	134	177	218	259	300	340	381	421	461	542	622	702	722	822	1023	1123	1223	2.65
2.67	30	80	-	-	-	-	-	168	210	252	293	334	375	415	496	576	657	677	777	978	1078	1178	2.67
2.67	72	192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	446	654	757	858	2.67	
2.77	26	72	-	-	-	-	153	195	237	278	319	359	400	440	521	601	681	702	802	1002	1102	1203	2.77
2.80	40	112	-	-	-	-	-	-	-	-	238	281	323	364	406	487	569	589	690	891	992	1092	2.80
2.81	32	90	-	-	-	-	-	181	224	266	307	348	389	470	551	632	652	752	953	1053	1154	2.81	
2.86	28	80	-	-	-	-	-	171	214	255	297	338	378	419	500	580	661	681	781	982	1082	1182	2.86
2.95	38	112	-	-	-	-	-	-	-	-	242	284	326	366	409	491	572	593	694	895	996	1096	2.95
3.00	24	72	-	-	-	-	156	199	240	281	322	363	403	444	524	605	685	705	806	1006	1106	1206	3.00
3.00	30	90	-	-	-	-	-	184	227	269	311	352	393	434	474	555	635	656	756	957	1057	1157	3.00
3.00	48	144	-	-	-	-	-	-	-	-	-	-	-	312	397	480	501	604	807	908	1009	3.00	
3.00	56	168	-	-	-	-	-	-	-	-	-	-	-	-	320	407	428	533	738	840	941	3.00	
3.00	64	192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	350	459	668	771	873	3.00	
3.08	26	80	-	-	-	-	-	174	217	259	300	341	382	422	503	584	664	685	785	986	1086	1186	3.08
3.11	36	112	-	-	-	-	-	-	-	245	288	330	371	413	495	576	596	697	899	999	1100	3.11	
3.21	28	90	-	-	-	-	-	187	230	273	314	355	396	477	558	639	659	760	961	1061	1161	3.21	
3.27	44	144	-	-	-	-	-	-	-	-	-	-	-	319	404	487	508	611	814	915	1016	3.27	
3.29	34	112	-	-	-	-	-	-	-	204	248	291	333	373	416	498	579	600	701	903	1003	1104	3.29
3.33	24	80	-	-	-	-	-	178	220	262	304	345	385	426	507	588	668	688	789	989	1090	1190	3.33
3.43	56	192	-	-	-	-	-	-	-	-	-	-	-	-	340	363	472	682	785	887	3.43		
3.46	26	90	-	-	-	-	-	191	234	276	318	359	400	481	562	643	663	764	965	1065	1165	3.46	
3.50	32	112	-	-	-	-	-	-	207	251	294	337	379	420	502	583	603	705	906	1007	1107	3.50	
3.50	48	168	-	-	-	-	-	-	-	-	-	-	-	-	333	420	442	547	752	854	956	3.50	
3.60	40	144	-	-	-	-	-	-	-	-	-	-	-	325	411	494	515	618	821	922	1023	3.60	
3.73	30	112	-	-	-	-	-	-	-	210	255	298	340	423	505	587	607	708	910	1011	1111	3.73	
3.75	24	90	-	-	-	-	-	194	237	279	321	362	403	485	566	647	667	767	968	1069	1169	3.75	
3.79	38	144	-	-	-	-	-	-	-	-	-	-	-	328	414	498	518	621	825	926	1027	3.79	
3.82	44	168	-	-	-	-	-	-	-	-	-	-	-	-	339	427	448	553	760	862	963	3.82	
4.00	28	112	-	-	-	-	-	-	-	213	258	301	343	427	509	590	611	712	914	1014	1115	4.00	
4.00	36	144	-	-	-	-	-	-	-	-	-	-	-	331	417	501	522	625	829	930	1031	4.00	
4.00	48	192	-	-	-	-	-	-	-	-	-	-	-	-	-	352	375	485	696	799	901	4.00	
4.20	40	168	-	-	-	-	-	-	-	-	-	-	-	-	346	433	455	560	767	869	970	4.20	
4.24	34	144	-	-	-	-	-	-	-	-	-	-	-	244	335	421	505	525	628	832	933	1035	4.24
4.31	26	112	-	-	-	-	-	-	-	216	261	304	347	430	512	594	614	716	917	1018	1119	4.31	
4.36	44	192	-	-	-	-	-	-	-	358	381	492	703	806	908	4.36							
4.42	38	168	-	-	-	-	-	-	-	-	-	-	-	349	437	459	564	770	872	974	4.42		
4.50	32	144	-	-	-	-	-	-	-	-	-	-	247	338	424	508	529	632	836	937	1038	4.50	
4.67	24	112	-	-	-	-	-	-	219	264	308	350	434	516	597	618	719	921	1022	1122	4.67		
4.67	36	168	-	-	-	-	-	-	-	-	-	-	-	-	352	440	461	567	774	876	978	4.67	
4.80	30	144	-	-	-	-	-	-	-	-	-	-	250	341	427	511	532	635	839	941	1042	4.80	
4.80	40	192	-	-	-	-	-	-	-	-	-	-	-	-	-	365	388	498	710	813	916	4.90	
4.94	34	168	-	-	-	-	-	-	-	-	-	-	-	-	355	443	465	570	777	879	981	4.94	
5.05	38	192	-	-	-	-	-	-	-	-	-	-	-	-	368	391	502	713	816	919	5.05		
5.14	28	144	-	-	-	-	-	-	-	-	-	-	-	253	344	431	515	536	639	843	944	1046	5.14
5.25	32	168	-	-	-	-	-	-	-	-	-	-	-	-	358	446	468	574	781	883	985	5.25	
5.33	36	192	-	-	-	-	-	-	-	-	-	-	-	-	371	394	505	716	820	923	5.33		
5.54	26	144	-	-	-	-	-	-	-	-	-	-	256	348	434	518	539	642	847	948	1049	5.54	
5.60	30	168	-	-	-	-	-	-	-	-	-	-	-	-	361	450	471	577	784	887	988	5.60	
5.65	34	192	-	-	-	-	-	-	-	-	-	-	-	-	-	374	397	508	720	823	926	5.65	
6.00	24	144	-	-	-	-	-	-	-	-	-	-	259	351	437	522	542	646	850	952	1053	6.00	
6.00	28	168	-	-	-	-	-	-	-	-	-	-	-	-	269	364	453	475	581	785	890	992	6.00
6.00	32	192	-	-	-	-	-	-	-	-	-	-	-	-	-	377	400	511	723	827	930	6.00	
6.40	30	192	-	-	-	-	-	-	-	-	-	-	-	-	-	380	403	515	727	830	933	6.40	
6.46	26	168	-	-	-	-	-	-	-	-	-	-	-	272	368	478	456	584	791	894	996	6.46	
6.86	28	192	-	-	-	-	-	-	-	-	-	-	-	-	-	383	406	519	730	834	937	6.86	

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CENTRE DISTANCE IN MILLIMETRES

Speed Ratio	Number of grooves on		Belt pitch length in millimetres																Speed Ratio
	Driving Pulley	Driven Pulley	966	1190	1400	1610	1778	1890	2100	2310	2450	2590	2800	3150	3500	3850	4326	4578	
			69 teeth	85 teeth	100 teeth	115 teeth	127 teeth	135 teeth	150 teeth	165 teeth	175 teeth	185 teeth	200 teeth	225 teeth	250 teeth	275 teeth	309 teeth	327 teeth	
1.00	28	28	287	399	504	609	693	749	854	959	1029	1099	1204	1379	1554	1729	1967	2093	1.00
1.00	29	29	280	392	497	602	686	742	847	952	1022	1092	1197	1372	1547	1722	1960	2086	1.00
1.00	30	30	273	385	490	595	679	735	840	945	1015	1085	1190	1365	1540	1715	1953	2079	1.00
1.00	32	32	259	371	476	581	665	721	826	931	1001	1071	1176	1351	1526	1701	1939	2065	1.00
1.00	34	34	245	357	462	567	651	707	812	917	987	1057	1162	1337	1512	1687	1925	2051	1.00
1.00	36	36	231	343	448	553	637	693	798	903	973	1043	1148	1323	1498	1673	1911	2037	1.00
1.00	38	38	217	329	434	539	623	679	784	889	959	1029	1134	1309	1484	1659	1897	2023	1.00
1.00	40	40	203	315	420	525	609	665	770	875	945	1015	1120	1295	1470	1645	1883	2009	1.00
1.00	44	44	-	287	392	497	581	637	742	847	917	987	1092	1267	1442	1617	1855	1981	1.00
1.00	48	48	-	259	364	469	553	609	714	819	889	959	1064	1239	1414	1589	1827	1953	1.00
1.00	56	56	-	-	308	413	497	553	658	763	833	903	1008	1183	1358	1533	1771	1897	1.00
1.03	29	30	276	388	493	598	682	738	843	948	1018	1088	1193	1368	1543	1718	1956	2082	1.00
1.04	28	29	283	395	500	605	689	745	850	955	1025	1095	1200	1375	1550	1725	1963	2089	1.04
1.05	38	40	210	322	427	532	616	672	777	882	952	1022	1127	1302	1477	1652	1890	2016	1.05
1.06	36	38	224	336	441	546	630	686	791	896	966	1036	1141	1316	1491	1666	1904	2030	1.06
1.06	34	36	238	350	455	560	644	700	805	910	980	1050	1155	1330	1505	1680	1918	2044	1.06
1.06	32	34	252	364	469	574	658	714	819	924	994	1064	1169	1344	1519	1694	1932	2058	1.06
1.07	30	32	266	378	483	588	672	728	833	938	1008	1078	1183	1358	1533	1708	1946	2072	1.07
1.07	28	30	280	392	497	602	686	742	847	952	1022	1092	1197	1372	1547	1722	1960	2086	1.07
1.09	44	48	-	273	378	483	567	623	728	833	903	973	1078	1253	1428	1603	1841	1967	1.09
1.10	40	44	-	301	406	511	595	651	756	861	931	1001	1106	1281	1456	1631	1869	1995	1.10
1.10	29	32	269	381	486	591	675	731	836	941	1011	1081	1186	1361	1536	1711	1949	2075	1.10
1.11	36	40	217	329	434	539	623	679	784	889	959	1029	1134	1309	1484	1659	1897	2023	1.11
1.12	34	38	231	343	448	553	637	693	798	903	973	1043	1148	1323	1498	1673	1911	2037	1.12
1.13	32	36	245	357	462	567	651	707	812	917	987	1057	1162	1337	1512	1687	1925	2051	1.13
1.13	30	34	259	371	476	581	665	721	826	931	1001	1071	1176	1351	1526	1701	1939	2065	1.13
1.14	28	32	273	385	490	595	679	735	840	945	1015	1085	1190	1365	1540	1715	1953	2079	1.14
1.14	56	64	-	-	-	385	469	525	630	735	805	875	980	1155	1330	1505	1743	1869	1.14
1.16	38	44	-	308	413	518	602	658	763	868	938	1008	1113	1288	1463	1638	1876	2002	1.16
1.17	48	56	-	-	336	441	525	581	686	791	861	931	1036	1211	1386	1561	1799	1925	1.17
1.17	29	34	262	374	479	584	668	724	829	934	1004	1074	1179	1354	1529	1704	1942	2068	1.17
1.18	34	40	224	336	441	546	630	686	791	896	966	1036	1141	1316	1491	1666	1904	2030	1.18
1.19	32	38	238	350	455	560	644	700	805	910	980	1050	1155	1330	1505	1680	1918	2044	1.19
1.20	30	36	252	364	469	574	658	714	819	924	994	1064	1169	1344	1519	1694	1932	2058	1.20
1.20	40	48	-	286	392	497	581	637	742	847	917	987	1092	1267	1442	1617	1855	1981	1.20
1.21	28	34	266	378	483	588	672	728	833	938	1008	1078	1183	1358	1533	1708	1946	2072	1.21
1.22	36	44	202	314	420	525	609	665	770	875	945	1015	1120	1295	1470	1645	1883	2009	1.22
1.24	29	36	255	367	472	577	661	717	822	927	997	1067	1172	1347	1522	1697	1935	2061	1.24
1.25	32	40	230	343	448	553	637	693	798	903	973	1043	1148	1323	1498	1673	1911	2037	1.25
1.26	38	48	-	293	398	504	588	644	749	854	924	994	1099	1274	1449	1624	1862	1988	1.26
1.27	30	38	244	357	462	567	651	707	812	917	987	1057	1162	1337	1512	1687	1925	2051	1.27
1.27	44	56	-	244	349	454	538	594	699	805	875	945	1050	1225	1400	1575	1813	1939	1.27
1.29	28	36	258	371	476	581	665	721	826	931	1001	1071	1176	1351	1526	1701	1939	2065	1.29
1.29	56	72	-	-	-	355	440	496	601	706	776	846	951	1126	1302	1477	1715	1841	1.29
1.29	34	44	209	321	426	532	616	672	777	882	952	1022	1127	1302	1477	1652	1890	2016	1.29
1.31	29	38	248	360	465	570	654	710	815	920	990	1060	1165	1340	1515	1690	1928	2054	1.31
1.33	30	40	237	349	454	560	644	700	805	910	980	1050	1155	1330	1505	1680	1918	2044	1.33
1.33	36	48	-	300	405	510	594	650	756	861	931	1001	1106	1281	1456	1631	1869	1995	1.33
1.33	48	64	-	-	306	411	496	552	657	762	832	902	1007	1182	1358	1533	1771	1897	1.33
1.36	28	38	251	363	468	574	658	714	819	924	994	1064	1169	1344	1519	1694	1932	2058	1.36
1.38	32	44	215	328	433	538	622	678	784	889	959	1029	1134	1309	1484	1659	1897	2023	1.38
1.38	29	40	240	353	458	563	647	703	808	913	983	1053	1158	1333	1508	1683	1921	2047	1.38
1.40	40	56	-	257	362	468	552	608	713	818	888	958	1063	1238	1414	1589	1827	1953	1.40
1.41	34	48	-	306	412	517	601	657	762	867	937	1008	1113	1288	1463	1638	1876	2002	1.41
1.43	28	40	244	356	461	566	650	706	812	917	987	1057	1162	1337	1512	1687	1925	2051	1.43

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CENTRE DISTANCE IN MILLIMETRES

Speed Ratio	Number of grooves on		Belt pitch length in millimetres																Speed Ratio
	Driving Pulley	Driven Pulley	966	1190	1400	1610	1778	1890	2100	2310	2450	2590	2800	3150	3500	3850	4326	4578	
			69 teeth	85 teeth	100 teeth	115 teeth	127 teeth	135 teeth	150 teeth	165 teeth	175 teeth	185 teeth	200 teeth	225 teeth	250 teeth	275 teeth	309 teeth	327 teeth	
1.43	56	80	-	-	-	325	410	466	571	677	747	817	922	1098	1273	1448	1686	1812	1.43
1.45	44	64	-	-	319	425	509	565	671	776	846	916	1021	1196	1371	1546	1784	1910	1.45
1.47	30	44	222	335	440	545	629	685	790	895	965	1036	1141	1316	1491	1666	1904	2030	1.47
1.47	38	56	-	263	369	474	559	615	720	825	895	965	1070	1245	1420	1595	1834	1960	1.47
1.50	32	48	200	313	418	524	608	664	769	874	944	1014	1119	1295	1470	1645	1883	2009	1.50
1.50	48	72	-	-	-	381	466	522	628	733	803	873	979	1154	1329	1504	1742	1868	1.50
1.52	29	44	225	338	443	548	633	689	794	899	969	1039	1144	1319	1494	1669	1907	2033	1.52
1.56	36	56	-	269	375	481	565	621	727	832	902	972	1077	1252	1427	1602	1840	1966	1.56
1.57	28	44	228	341	447	552	636	692	797	902	972	1042	1147	1323	1498	1673	1911	2037	1.57
1.60	30	48	206	319	425	530	615	671	776	881	951	1021	1126	1301	1476	1652	1890	2016	1.60
1.60	40	64	-	-	332	438	522	579	684	789	859	929	1035	1210	1385	1560	1798	1924	1.60
1.61	56	90	-	-	-	-	370	427	534	640	710	780	886	1061	1237	1412	1650	1776	1.61
1.64	44	72	-	-	287	394	479	535	641	746	817	887	992	1167	1343	1518	1756	1882	1.64
1.65	34	56	-	276	382	488	572	628	733	839	909	979	1084	1259	1434	1609	1847	1973	1.65
1.66	29	48	209	323	428	534	618	674	779	884	955	1025	1130	1305	1480	1655	1893	2019	1.66
1.67	48	80	-	-	-	350	435	492	598	703	774	844	949	1125	1300	1475	1714	1840	1.67
1.68	38	64	-	-	338	444	529	585	691	796	866	936	1041	1217	1392	1567	1805	1931	1.68
1.71	28	48	212	326	432	537	621	678	783	888	958	1028	1133	1308	1483	1658	1896	2023	1.71
1.75	32	56	-	282	388	494	579	635	740	845	915	986	1091	1266	1441	1616	1854	1980	1.75
1.78	36	64	-	-	344	451	535	592	697	803	873	943	1048	1223	1399	1574	1812	1938	1.78
1.80	40	72	-	-	300	407	492	548	654	760	830	900	1005	1181	1356	1531	1770	1896	1.80
1.82	44	80	-	-	-	362	448	505	611	717	787	857	963	1138	1314	1489	1727	1853	1.82
1.87	30	56	-	288	395	501	585	641	747	852	922	992	1097	1273	1448	1623	1861	1987	1.87
1.88	48	90	-	-	-	-	395	452	559	665	736	807	912	1088	1264	1439	1677	1804	1.88
1.88	34	64	-	243	351	457	542	598	704	809	879	950	1055	1230	1405	1581	1819	1945	1.88
1.89	38	72	-	-	306	413	498	555	661	766	837	907	1012	1188	1363	1538	1776	1902	1.89
1.93	29	56	-	291	389	504	588	645	750	855	926	996	1101	1276	1451	1626	1865	1991	1.93
2.00	28	56	-	294	401	507	592	648	753	859	929	999	1104	1279	1455	1630	1868	1994	2.00
2.00	32	64	-	249	357	464	548	605	710	816	886	956	1062	1237	1412	1587	1826	1952	2.00
2.00	36	72	-	-	312	419	505	561	667	773	843	913	1019	1194	1370	1545	1783	1909	2.00
2.00	40	80	-	-	-	374	460	517	624	730	800	870	976	1152	1327	1502	1741	1867	2.00
2.00	56	112	-	-	-	-	-	-	444	553	625	696	802	979	1155	1331	1570	1696	2.00
2.05	44	90	-	-	-	320	407	465	572	678	749	820	925	1101	1277	1452	1691	1817	2.05
2.11	38	80	-	-	-	380	467	524	630	736	807	877	983	1158	1334	1509	1747	1874	2.11
2.12	34	72	-	-	318	426	511	568	674	779	850	920	1026	1201	1376	1552	1790	1916	2.12
2.13	30	64	-	255	363	470	555	611	717	823	893	963	1068	1244	1419	1594	1832	1959	2.13
2.21	29	64	-	258	366	473	558	615	720	826	896	966	1072	1247	1422	1598	1836	1962	2.21
2.22	36	80	-	-	-	387	473	530	636	743	813	884	989	1165	1340	1516	1754	1880	2.22
2.25	32	72	-	-	324	432	517	574	680	786	856	927	1032	1208	1383	1558	1797	1923	2.25
2.25	40	90	-	-	-	331	419	477	584	691	762	833	938	1114	1290	1466	1704	1831	2.25
2.29	28	64	-	261	369	476	561	618	724	829	899	970	1075	1250	1426	1601	1839	1965	2.29
2.33	48	112	-	-	-	-	-	-	468	577	649	721	828	1005	1181	1358	1597	1723	2.33
2.35	34	80	-	-	282	393	479	536	643	749	820	890	996	1172	1347	1523	1761	1887	2.35
2.37	38	90	-	-	-	337	425	483	591	697	768	839	945	1121	1297	1472	1711	1837	2.37
2.40	30	72	-	-	330	438	524	580	687	792	863	933	1039	1214	1390	1565	1804	1930	2.40
2.48	29	72	-	-	333	441	527	584	690	796	866	937	1042	1218	1393	1569	1807	1933	2.48
2.50	32	80	-	-	288	399	485	542	649	755	826	897	1002	1178	1354	1529	1768	1894	2.50
2.50	36	90	-	-	-	343	431	489	597	704	775	845	951	1128	1303	1479	1718	1844	2.50
2.55	44	112	-	-	-	-	-	368	480	590	662	733	840	1018	1194	1371	1610	1736	2.55
2.57	28	72	-	-	336	444	530	587	693	799	869	940	1045	1221	1397	1572	1810	1937	2.57
2.57	56	144	-	-	-	-	-	-	-	485	561	671	852	1031	1209	1450	1577	2.57	
2.65	34	90	-	-	-	349	437	495	603	710	781	852	958	1134	1310	1486	1724	1851	2.65
2.67	30	80	-	-	294	405	491	549	656	762	833	903	1009	1185	1360	1536	1775	1901	2.67
2.76	29	80	-	-	297	408	494	552	659	765	836	906	1012	1188	1364	1539	1778	1904	2.76
2.80	40	112	-	-	-	-	-	379	492	602	674	746	853	1031	1207	1384	1623	1750	2.80

All centre distances are rounded values – Consult your local Authorised Distributor if centre distance is fixed.



CENTRE DISTANCE IN MILLIMETRES

Speed Ratio	Number of grooves on		Belt pitch length in millimetres																Speed Ratio
	Driving Pulley	Driven Pulley	966	1190	1400	1610	1778	1890	2100	2310	2450	2590	2800	3150	3500	3850	4326	4578	
			69 teeth	85 teeth	100 teeth	115 teeth	127 teeth	135 teeth	150 teeth	165 teeth	175 teeth	185 teeth	200 teeth	225 teeth	250 teeth	275 teeth	309 teeth	327 teeth	
2.81	32	90	-	-	-	354	443	501	609	716	787	858	964	1141	1317	1492	1731	1858	2.81
2.86	28	80	-	-	300	411	498	555	662	768	839	910	1015	1191	1367	1543	1781	1907	2.86
2.95	38	112	-	-	-	-	-	385	498	608	680	752	859	1037	1214	1390	1630	1756	2.95
3.00	30	90	-	-	-	360	449	507	615	723	794	865	971	1147	1323	1499	1738	1864	3.00
3.00	48	144	-	-	-	-	-	-	-	-	508	584	695	877	1056	1234	1475	1603	3.00
3.00	56	168	-	-	-	-	-	-	-	-	-	-	560	749	933	1113	1356	1484	3.00
3.10	29	90	-	-	-	363	452	510	619	726	797	868	974	1150	1327	1502	1741	1868	3.10
3.11	36	112	-	-	-	-	-	390	504	614	686	758	865	1043	1220	1397	1636	1763	3.11
3.21	28	90	-	-	-	366	455	513	622	729	800	871	977	1154	1330	1506	1745	1871	3.21
3.27	44	144	-	-	-	-	-	-	-	-	441	519	595	707	889	1069	1247	1488	3.27
3.29	34	112	-	-	-	-	-	396	509	620	692	764	872	1050	1227	1403	1643	1769	3.29
3.43	56	192	-	-	-	-	-	-	-	-	-	-	-	635	826	1012	1259	1388	3.43
3.50	32	112	-	-	-	-	-	401	515	626	698	770	878	1056	1233	1410	1649	1776	3.50
3.50	48	168	-	-	-	-	-	-	-	-	-	-	583	773	957	1138	1381	1509	3.50
3.60	40	144	-	-	-	-	-	-	-	452	530	607	719	901	1081	1260	1501	1629	3.60
3.73	30	112	-	-	-	-	343	407	521	632	704	777	884	1062	1240	1416	1656	1783	3.73
3.79	38	144	-	-	-	-	-	-	-	457	536	612	725	907	1087	1266	1507	1635	3.79
3.82	44	168	-	-	-	-	-	-	-	-	-	-	594	784	969	1150	1394	1522	3.82
3.86	29	112	-	-	-	-	346	410	524	635	707	780	887	1065	1243	1419	1659	1786	3.86
4.00	28	112	-	-	-	-	349	413	527	638	710	783	890	1069	1246	1423	1662	1789	4.00
4.00	36	144	-	-	-	-	-	-	-	462	542	618	730	913	1094	1272	1514	1641	4.00
4.00	48	192	-	-	-	-	-	-	-	-	-	-	-	654	849	1035	1283	1413	4.00
4.20	40	168	-	-	-	-	-	-	-	-	-	-	605	796	981	1162	1406	1534	4.20
4.24	34	144	-	-	-	-	-	-	-	488	547	624	736	919	1100	1279	1520	1648	4.24
4.36	44	192	-	-	-	-	-	-	-	-	-	-	-	668	861	1047	1295	1425	4.36
4.42	38	168	-	-	-	-	-	-	-	-	-	488	610	802	986	1168	1412	1541	4.42
4.50	32	144	-	-	-	-	-	-	-	473	553	630	742	925	1106	1285	1527	1654	4.50
4.67	36	168	-	-	-	-	-	-	-	-	-	493	616	807	992	1174	1419	1547	4.67
4.80	30	144	-	-	-	-	-	-	-	479	558	635	748	931	1112	1291	1533	1661	4.80
4.80	40	192	-	-	-	-	-	-	-	-	-	-	-	678	872	1059	1307	1437	4.80
4.94	34	168	-	-	-	-	-	-	-	-	-	499	621	813	998	1180	1425	1553	4.94
4.97	29	144	-	-	-	-	-	-	-	481	561	638	751	934	1115	1294	1536	1664	4.97
5.05	38	192	-	-	-	-	-	-	-	-	-	-	-	684	878	1065	1313	1443	5.05
5.14	28	144	-	-	-	-	-	-	-	484	564	641	754	937	1118	1297	1539	1667	5.14
5.25	32	168	-	-	-	-	-	-	-	-	-	504	627	819	1004	1186	1431	1560	5.25
5.33	36	192	-	-	-	-	-	-	-	-	-	-	-	689	884	1071	1319	1449	5.33
5.60	30	168	-	-	-	-	-	-	-	-	-	509	632	825	1010	1192	1437	1566	5.60
5.65	34	192	-	-	-	-	-	-	-	-	-	-	-	695	889	1076	1325	1455	5.65
5.79	29	168	-	-	-	-	-	-	-	-	-	512	635	828	1013	1195	1440	1569	5.79
6.00	28	168	-	-	-	-	-	-	-	-	-	514	638	830	1016	1198	1443	1572	6.00
6.00	32	192	-	-	-	-	-	-	-	-	-	-	-	700	895	1082	1331	1462	6.00
6.40	30	192	-	-	-	-	-	-	-	-	-	-	-	706	901	1088	1337	1468	6.40
6.62	29	192	-	-	-	-	-	-	-	-	-	-	-	708	904	1091	1340	1471	6.62
6.86	28	192	-	-	-	-	-	-	-	-	-	-	-	711	906	1094	1343	1474	6.86

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