

TOP DRIVE™



POWER TRANSMISSION PRODUCTS



TOTAL POWER TRANSMISSION SOLUTIONS

Fenner (India) Limited



Fenner (India) Limited is a member of the JK Organization which ranks among the top Industrial houses in India for over 100 years. The name "Fenner" has been synonymous with Mechanical Power Transmission and



Patancheru Plant - Hyderabad : Belts, Oilseals and Moulded Rubber Products

Sealing Solutions. Fenner commenced operations in

India in 1929 and put up their first manufacturing unit at Madurai in Tamilnadu in the year 1956. Currently there are 7 manufacturing units over 5 locations.



Madurai Plant - Belts & Oil seals

The product lines cover V-Belts, Oil seals, Moulded Rubber Components and Engineering Products for applications in both Industrial and Automotive mechanical power transmissions. The Industrial segment would address major sectors like Steel, Cement, Coal, Sugar, Power, Paper, Textiles, Food processing, Agriculture and many other.



Nilakkottai Plant - Madurai: Speciality Belts



Sriperumbudur Plant - Chennai: Oilseals and Moulded Rubber Products

Fenner products over several decades have stood for performance, reliability, efficiency and economy. Continuous and collaborative R&D have been the differentiators for Fenner to have emerged as most preferred solution providers by Auto OEMs and the Industrial Sectors.

Fenner has a large net work of Channel Partners in India with countrywide reach. Fenner Exports to more than 50 countries globally. Today Fenner offers truly a Total Solution to Mechanical Power Transmission and Sealing requirements on a single window basis.



Pashamallaram Plant - Hyderabad: Power Transmission Accessories

Corporate Office :

Fenner (India) Limited
Khivraj Complex - 2, 480 Anna Salai,
Nandanam, Chennai 600 035, India.

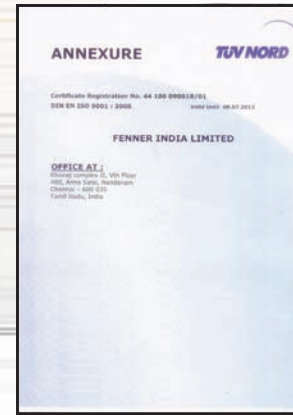
Phone : 91 - 44 - 24312450 to 57
Fax : 91 - 44- 24349016, 24320193
Email : export@fennermail.com
Website : www.fennerindia.com



ISO 14001 : MDU



ISO 9001 : MDU



ISO 9001 : MDU



TS16949-MDU



OHSAS-18001 : MDU

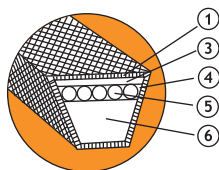


TS16949-MDU

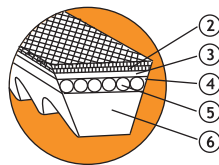




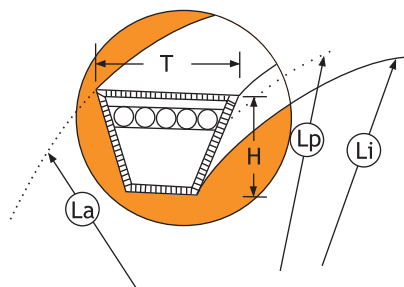
Wrapped Belts



Raw Edge Cogged Belts (REC)



No.	Name
1	Cover Fabric
2	Top Fabric
3	Top Cushion Rubber
4	Adhesion Rubber
5	Tension Member
6	Compression Rubber
7	Bottom Fabric
8	Laminate Fabric



Dimensions

- La (Outside Length)
- Li (Inside Length)
- Lp (Pitch Length)
- Le (Effective Length)

The length of a line circumscribing the belt along

- its periphery
- its inner circumference.
- its pitch zone.
- the level of the effective diameter of the measuring pulleys whilst the v-belt is at a specified tension.

T - Top width of belt
H - Height of belt

BELT CROSS REFERENCE - INDUSTRIAL

FIL	ISO	RMA	JIS	DIN	BS
Y	Y	-	-	6	Y
Z	Z	-	M	10	Z
A	A	A	A	13	A
B	B	B	B	17	B
C	C	C	C	22	C
D	D	D	D	32	D
E	E	E	E	40	-
3V	-	3V/9N	3V	-	-
5V	-	5V/15N	5V	-	-
8V	-	8V/25N	8V	-	-
SPZ	SPZ	-	-	SPZ	SPZ
SPA	SPA	-	-	SPA	SPA
SPB	SPB	-	-	SPB	SPB
SPC	SPC	-	-	SPC	SPC
2L	-	2L	-	-	-
3L	-	3L	-	-	-
4L	-	4L	-	-	-
5L	-	5L	-	-	-

ISO : INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
RMA : RUBBER MANUFACTURERS ASSOCIATION, U.S.A.
JIS : JAPANESE INDUSTRIAL STANDARD
DIN : DEUTSCHE INDUSTRIE NORMEN, GERMANY
BS : BRITISH STANDARD, U.K.
FIL : FENNER (INDIA) LIMITED



Classical Section V-Belts
 Correas trapeziales de seccion clasica
 Keilriemen



Top width 'T' - 3/8", 10 mm
 Height 'H' - 7/32", 6 mm

Section Z/10

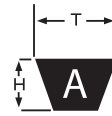
Size Ref.	Pitch Length in mm (Lp)	Outside Length in inches (La)
Z 18	480	19.5
Z 19	510	20.5
Z 20	530	21.5
Z 21	560	22.5
Z 22	580	23.5
Z 23	610	24.5
Z 24	640	25.5
Z 25	660	26.5
Z 26	690	27.5
Z 27	710	28.5
Z 28	740	29.5
Z 29	760	30.5
Z 30	790	31.5
Z 31	810	32.5
Z 32	840	33.5
Z 33	860	34.5
Z 34	890	35.5
Z 35	910	36.5
Z 36	940	37.5
Z 37	970	38.5
Z 38	990	39.5
Z 39	1020	40.5
Z 40	1040	41.5
Z 41	1070	42.5
Z 42	1090	43.5
Z 43	1120	44.5
Z 44	1140	45.5
Z 45	1170	46.5
Z 46	1190	47.5
Z 47	1220	48.5
Z 48	1240	49.5
Z 49	1270	50.5
Z 50	1300	51.5
Z 51	1320	52.5
Z 52	1350	53.5
Z 53	1370	54.5
Z 54	1400	55.5

Size Ref.	Pitch Length in mm (Lp)	Outside Length in inches (La)
Z 55	1420	56.5
Z 56	1450	57.5
Z 57	1470	58.5
Z 58	1500	59.5
Z 59	1520	60.5
Z 60	1550	61.5
Z 61	1570	62.5
Z 62	1600	63.5
Z 63	1630	64.5
Z 64	1650	65.5
Z 65	1680	66.5
Z 66	1700	67.5
Z 67	1730	68.5
Z 68	1750	69.5
Z 69	1780	70.5
Z 70	1800	71.5
Z 71	1830	72.5
Z 72	1850	73.5
Z 73	1880	74.5
Z 74	1910	75.5
Z 75	1930	76.5
Z 76	1960	77.5
Z 77	1980	78.5
Z 78	2010	79.5
Z 79	2030	80.5
Z 80	2060	81.5
Z 81	2080	82.5
Z 82	2110	83.5
Z 83	2130	84.5
Z 84	2160	85.5
Z 85	2180	86.5

Classical - Z Section Belts

Heat and Oil resistant, Antistatic
 Belt Weight: 0.059 kg/m, 0.00330 lbs/inch
 Outside lengths are approximate
 Standards: DIN 2215, RMA IP 20, ISO 4184, BS 3790, API 1B, JIS K 6323
 Sizes not mentioned in this catalog can be supplied on request

Classical Section V-Belts
 Correas trapeziales de seccion clasica
 Keilriemen



Top width 'T' - 1/2", 13 mm
 Height 'H' - 5/16", 8 mm

Section A/I3

Size Ref.	Pitch Length in mm (Lp)	Outside Length in inches (La)
A 18	490	20
A 19	520	21
A 20	540	22
A 21	570	23
A 22	590	24
A 23	620	25
A 24	640	26
A 25	670	27
A 26	690	28
A 27	720	29
A 28	740	30
A 29	770	31
A 30	800	32
A 31	820	33
A 32	850	34
A 33	870	35
A 34	900	36
A 35	920	37
A 36	950	38
A 37	970	39
A 38	1000	40
A 39	1020	41
A 40	1050	42
A 41	1070	43
A 42	1100	44
A 43	1130	45
A 44	1150	46
A 45	1180	47
A 46	1200	48
A 47	1230	49
A 48	1250	50
A 49	1280	51
A 50	1300	52
A 51	1330	53
A 52	1350	54
A 53	1380	55
A 54	1400	56
A 55	1430	57
A 56	1460	58
A 57	1480	59
A 58	1510	60
A 59	1530	61

Size Ref.	Pitch Length in mm (Lp)	Outside Length in inches (La)
A 60	1560	62
A 61	1580	63
A 62	1610	64
A 63	1630	65
A 64	1660	66
A 65	1680	67
A 66	1710	68
A 67	1730	69
A 68	1760	70
A 69	1790	71
A 70	1810	72
A 71	1840	73
A 72	1860	74
A 73	1890	75
A 74	1910	76
A 75	1940	77
A 76	1960	78
A 77	1990	79
A 78	2010	80
A 79	2040	81
A 80	2070	82
A 81	2090	83
A 82	2120	84
A 83	2140	85
A 84	2170	86
A 85	2190	87
A 86	2220	88
A 87	2240	89
A 88	2270	90
A 89	2290	91
A 90	2320	92
A 91	2340	93
A 92	2370	94
A 93	2400	95
A 94	2420	96
A 95	2450	97
A 96	2470	98
A 97	2500	99
A 98	2520	100
A 100	2570	102
A 103	2650	105
A 105	2700	107

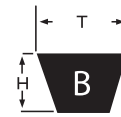
Size Ref.	Pitch Length in mm (Lp)	Outside Length in inches (La)
A 110	2830	112
A 112	2880	114
A 115	2950	117
A 116	2980	118
A 118	3030	120
A 120	3080	122
A 124	3180	126
A 125	3210	127
A 128	3280	130
A 130	3340	132
A 133	3410	135
A 134	3440	136
A 136	3490	138
A 140	3590	142
A 144	3690	146
A 158	4050	160
A 160	4100	162
A 162	4150	164
A 168	4300	170
A 173	4430	175
A 180	4610	182

Heat and Oil resistant, Antistatic
 Belt Weight: 0.108 kg/m, 0.00604 lbs/inch
 Outside lengths are approximate
 Standards: DIN 2215, RMA IP 20, ISO 4184, BS 3790, API 1B, JIS K 6323
 Sizes not mentioned in this catalog can be supplied on request

Classical - A Section Belts



Classical Section V-Belts
 Correas trapeziales de seccion clasica
 Keilriemen



Top width 'T' - 21/32", 17 mm
 Height 'H' - 7/16", 11 mm

Section B/17

Size Ref.	Pitch Length in mm (Lp)	Outside Length in inches (La)
B 20	550	23
B 21	580	24
B 22	600	25
B 23	630	26
B 24	650	27
B 25	680	28
B 26	700	29
B 27	730	30
B 28	750	31
B 29	780	32
B 30	810	33
B 31	830	34
B 32	860	35
B 33	880	36
B 34	910	37
B 35	930	38
B 36	960	39
B 37	980	40
B 38	1010	41
B 39	1030	42
B 40	1060	43
B 41	1080	44
B 42	1110	45
B 43	1140	46
B 44	1160	47
B 45	1190	48
B 46	1210	49
B 47	1240	50
B 48	1260	51
B 49	1290	52
B 50	1310	53
B 51	1340	54
B 52	1360	55
B 53	1390	56
B 54	1410	57
B 55	1440	58
B 56	1470	59
B 57	1490	60
B 58	1520	61
B 59	1540	62
B 60	1570	63
B 61	1590	64
B 62	1620	65

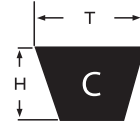
Size Ref.	Pitch Length in mm (Lp)	Outside Length in inches (La)
B 63	1640	66
B 64	1670	67
B 65	1690	68
B 66	1720	69
B 67	1740	70
B 68	1770	71
B 69	1800	72
B 70	1820	73
B 71	1850	74
B 72	1870	75
B 73	1900	76
B 74	1920	77
B 75	1950	78
B 76	1970	79
B 77	2000	80
B 78	2020	81
B 79	2050	82
B 80	2080	83
B 81	2100	84
B 82	2130	85
B 83	2150	86
B 84	2180	87
B 85	2200	88
B 86	2230	89
B 87	2250	90
B 88	2280	91
B 89	2300	92
B 90	2330	93
B 91	2350	94
B 92	2380	95
B 93	2410	96
B 94	2430	97
B 95	2460	98
B 96	2480	99
B 97	2510	100
B 98	2530	101
B 99	2560	102
B 100	2580	103
B 102	2630	105
B 103	2660	106
B 104	2680	107
B 105	2710	108
B 106	2740	109

Size Ref.	Pitch Length in mm (Lp)	Outside Length in inches (La)
B 108	2790	111
B 110	2840	113
B 112	2890	115
B 114	2940	117
B 115	2960	118
B 116	2990	119
B 118	3040	121
B 120	3090	123
B 121	3110	124
B 122	3140	125
B 124	3190	127
B 126	3240	129
B 128	3290	131
B 130	3350	133
B 133	3420	136
B 136	3500	139
B 138	3550	141
B 140	3600	143
B 142	3650	145
B 144	3700	147
B 146	3750	149
B 148	3800	151
B 150	3850	153
B 152	3900	155
B 154	3950	157
B 158	4060	161
B 162	4160	165
B 166	4260	169
B 173	4440	176
B 180	4620	183
B 188	4820	191
B 190	4870	193
B 195	5000	198
B 205	5250	208
B 210	5380	213
B 225	5760	228
B 240	6140	243
B 255	6520	258
B 270	6900	273
B 285	7280	288
B 300	7660	303
B 315	8040	318

'B' Sec range upto 570 inches

Heat and Oil resistant, Antistatic
 Belt Weight: 0.182 kg/m, 0.01019 lbs/inch
 Outside lengths are approximate
 Standards: DIN 2215, RMA IP 20, ISO 4184, BS 3790, API 1B, JIS K 6323
 Sizes not mentioned in this catalog can be supplied on request

Classical Section V-Belts
 Correas trapeciales de seccion clasica
 Keilriemen



Top width 'T' -7/8", 22 mm
 Height 'H' -17/32", 14 mm

Section C/22

Size Ref.	Pitch Length in mm (Lp)	Outside Length in inches (La)
C 36	970	40
C 37	1000	41
C 38	1020	42
C 39	1050	43
C 40	1070	44
C 41	1100	45
C 42	1120	46
C 43	1150	47
C 44	1170	48
C 45	1200	49
C 46	1220	50
C 47	1250	51
C 48	1280	52
C 50	1330	54
C 51	1350	55
C 53	1400	57
C 54	1430	58
C 55	1450	59
C 57	1500	61
C 60	1580	64
C 62	1630	66
C 63	1660	67
C 65	1710	69
C 67	1760	71
C 68	1780	72
C 69	1810	73
C 70	1830	74
C 71	1860	75
C 72	1880	76
C 73	1910	77
C 75	1960	79
C 76	1990	80
C 78	2040	82
C 80	2090	84
C 81	2110	85
C 83	2160	87
C 84	2190	88
C 85	2220	89
C 87	2270	91
C 90	2340	94
C 92	2390	96
C 93	2420	97

Size Ref.	Pitch Length in mm (Lp)	Outside Length in inches (La)
C 95	2470	99
C 96	2490	100
C 97	2520	101
C 99	2570	103
C 100	2600	104
C 101	2620	105
C 103	2670	107
C 105	2720	109
C 106	2750	110
C 107	2770	111
C 108	2800	112
C 109	2820	113
C 110	2850	114
C 111	2880	115
C 112	2900	116
C 115	2980	119
C 116	3000	120
C 118	3050	122
C 120	3100	124
C 122	3150	126
C 124	3210	128
C 126	3260	130
C 128	3310	132
C 130	3360	134
C 136	3510	140
C 140	3610	144
C 144	3710	148
C 148	3820	152
C 150	3870	154
C 152	3920	156
C 156	4020	160
C 158	4070	162
C 162	4170	166
C 170	4370	174
C 173	4450	177
C 180	4630	184
C 185	4760	189
C 190	4880	194
C 195	5010	199
C 210	5390	214
C 225	5770	229
C 238	6100	242

Size Ref.	Pitch Length in mm (Lp)	Outside Length in inches (La)
C 240	6150	244
C 255	6530	259
C 268	6860	272
C 270	6910	274
C 285	7300	289
C 298	7630	302
C 300	7680	304
C 315	8060	319
C 328	8390	332
C 330	8440	334
C 345	8820	349
C 358	9150	362
C 360	9200	364
C 390	9960	394
C 418	10670	422
C 420	10720	424

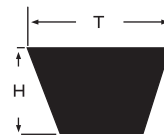
'C' Sec range upto 585 inches

Heat and Oil resistant, Antistatic
 Belt Weight: 0.299 kg/m, 0.01674 lbs/inch
 Outside lengths are approximate
 Standards: DIN 2215, RMA IP 20, ISO 4184, BS 3790, API 1B, JIS K 6323
 Sizes not mentioned in this catalog can be supplied on request

Classical - C Section Belts



Classical Section V-Belts
Correas trapeziales de seccion clasica
Keilriemen



Section	D	E
Top width 'T'	1 1/4", 32mm	1 1/2", 38mm
Height 'H'	3/4", 19mm	29/32", 23mm

Section D/32

Size Ref.	Pitch Length in mm (Lp)	Outside Length in inches (La)
D 75	1990	80
D 88	2320	93
D 90	2370	95
D 95	2500	100
D 105	2750	110
D 112	2930	117
D 120	3130	125
D 128	3330	133
D 136	3540	141
D 144	3740	149
D 158	4100	163
D 162	4200	167
D 173	4480	178
D 180	4660	185
D 195	5040	200
D 204	5260	209
D 210	5420	215
D 225	5800	230
D 238	6130	243
D 240	6180	245
D 255	6560	260
D 268	6890	273
D 270	6940	275
D 285	7320	290
D 298	7650	303
D 300	7700	305
D 314	8060	319
D 315	8080	320
D 328	8410	333
D 330	8470	335
D 345	8850	350
D 358	9180	363
D 360	9230	365
D 390	9990	395
D 418	10700	423
D 420	10750	425
D 450	11510	455

Size Ref.	Pitch Length in mm (Lp)	Outside Length in inches (La)
D 478	12220	483
D 480	12280	485
D 538	13750	543
D 540	13800	545
D 598	15270	603
D 600	15320	605

Section E/38

Size Ref.	Pitch Length in mm (Lp)	Outside Length in inches (La)
E 180	4670	186
E 195	5050	201
E 210	5430	216
E 238	6140	244
E 240	6190	246
E 268	6900	274
E 270	6950	276
E 298	7660	304
E 300	7720	306
E 328	8430	334
E 330	8480	336
E 358	9190	364
E 360	9240	366
E 390	10000	396
E 394	10100	400
E 418	10710	424
E 420	10760	426
E 478	12240	484
E 480	12290	486
E 538	13760	544
E 540	13810	546
E 598	15280	604

Classical - D. E Section Belts

Heat and Oil resistant, Antistatic

Belt Weight D: 0.608 kg/m, 0.03403 lbs/inch

Belt Weight E: 0.907 kg/m, 0.05076 lbs/inch

Outside lengths are approximate

Standards: DIN 2215, RMA IP 20, ISO 4184, BS 3790, API 1B, JIS K 6323

Sizes not mentioned in this catalog can be supplied on request

PROBLEM	CAUSE	REMEDY
Belt breaking after fitting	Forcing belt over pulley when fitting, damaging cord and cover.	Reduce drive center distance to fit belt.
	Ingress of foreign bodies e.g. a stone, during running.	Fit an effective guard
Cuts and splits in the base of the belt	Outside idler pulley in use.	Replace with inside idler pulley on the slack side of the drive. Increase the size of the existing idler.
	Pulley diameter too small.	Redesign using recommended minimum pulley pitch diameters.
	Ambient temperature too high (above +70°C/+158°F)	Ensure good ventilation and protect the belts from direct heat.
	Ambient temperature too Low (below -40°C/-104°C)	Warm area surrounding drive.
	Abnormal belt slip.	Check drive design to ensure correct number of belts, redesign if necessary. Check the drive tension.
	Contamination by oil or Chemicals.	Protect drive from contamination.
Severe belt vibration	Drive has insufficient belts.	Check drive design and modify if necessary.
	Center distance longer than recommended.	Shorten centers. Use an inside idler in the drive slack side.
	High shock loading.	Use an inside idler pulley in the slack side.
	Too low belt tension.	Correct the belt tension.
	Unbalanced pulleys.	Balance pulleys.

PROBLEM	CAUSE	REMEDY
Belts turn over in pulleys	Poor drive alignment.	Realign the pulleys.
	Excessive belt flap.	Use an inside idler in the slack side.
	Low belt tension.	Re-tension.
	Worn out belt.	Replace with the new belt.
Excessive wear on belt flanks	Incorrect pulley groove angle.	Replace with correct pulley groove angle.
	Incorrect pulley section.	Replace with new pulleys.
	Excessive wear in grooves.	Replace with new pulleys.
	Drive misalignment.	Realign.
	Small pulley diameter below recommended minimum.	Redesign using correct pulley diameters.
	Belt catching on protruding parts.	Remove protrusions or move drive away.
Belt swelling or softening	Contamination by oil or other chemicals.	Protect drive from contamination.
Unusual belt stretch	Worn or wrongly machined pulley grooves.	Replace with new pulleys.
	Used belts mixed with new belts on the drive.	Replace with a Completely new set of belts.
	Belts from different manufacturers used on same drive.	For use as matched set, belts must be from one manufacturer.
	Wrong drive design / lesser number of belts / wrong belt section.	Redesign the drive with correct number of belts / section.