

1. Product Introduction

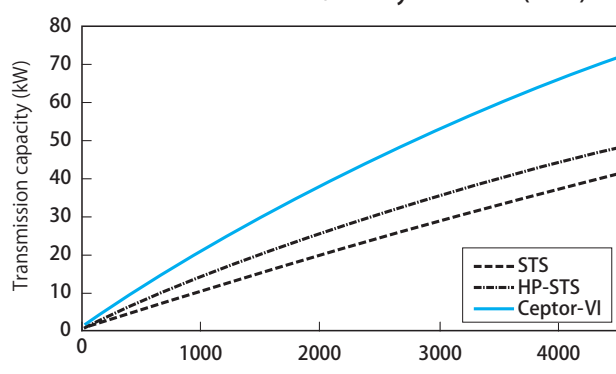
As a result of recent demands for “space-saving, weight reduction, and noise reduction” of industrial machinery, we have developed “Ceptor-VI/heavy duty STS belt” utilizing our long-accumulated technological force.

Features

■ High-torque power transmission

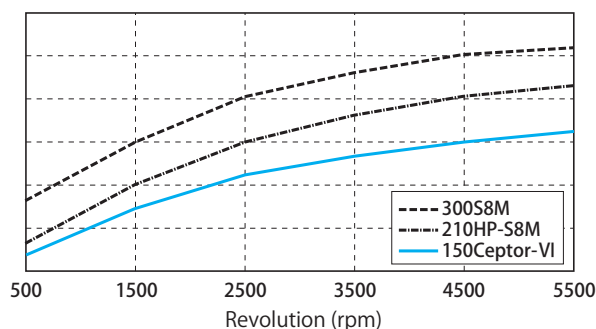
Ceptor-VI provides higher torque and higher power transmission than normal trapezoidal teeth due to the mesh theory of the unique curvilinear teeth and has achieved high torque and high power transmission by using high-rigidity and high-elasticity components. Although it varies depending on the field, it has a 2-fold or more transmission capacity compared to normal STS.

Belt width: 60 mm / Pulley: 26 teeth (S8M)



■ Low noise

As the belt width can be narrower than the standard and HP-STs specifications, the noise can be reduced.



■ Miniaturized

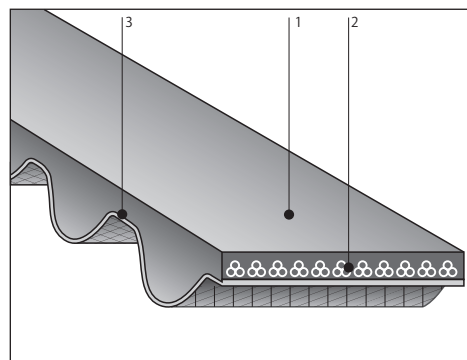
The high transmission capacity allows a narrower width and a smaller pulley diameter than the standard products and the HP-STs specification, allowing compact designs.

■ Pulleys used

Ceptor-VI can be used with the standard STS pulleys and TL STS pulleys.

*Manufacturable with the STS standard belt sizes.

Structure



1. Rubber 2. Cord 3. Facing fabric

- **Rubber:** Adoption of a synthetic rubber with little tooth deformation, high hardness, and high elasticity
- **Cord:** Adoption of a high-elasticity cord with excellent tension maintenance and excellent strength
- **Facing fabric:** Adoption of facing fabric with excellent abrasion resistance and members with excellent tooth chipping resistance and abrasion resistance

Tooth profile dimensions and indication method

Belt type	Dimension (mm)	Belt indication method
Ceptor-VI S3M		100 Ceptor-VI S3M 200 Belt nominal width (10.0mm) Belt type (Ceptor-VI S3M) Belt nominal length (200mm)
Ceptor-VI S5M		150 Ceptor-VI S5M 630 Belt nominal width (15.0mm) Belt type (Ceptor-VI S5M) Belt nominal length (630mm)
Ceptor-VI S8M		600 Ceptor-VI S8M 1000 Belt nominal width (60.0mm) Belt type (Ceptor-VI S8M) Belt nominal length (1000mm)

Ceptor™-VI standard effective lengths

Ceptor™-VI Type S3M

Belt nominal length	Pitch length (mm)	No. of teeth
Ceptor-VI S3M 93	93.00	31
Ceptor-VI S3M 96	96.00	32
Ceptor-VI S3M 99	99.00	33
Ceptor-VI S3M 108	108.00	36
Ceptor-VI S3M 120	120.00	40
Ceptor-VI S3M 123	123.00	41
Ceptor-VI S3M 129	129.00	43
Ceptor-VI S3M 132	132.00	44
Ceptor-VI S3M 138	138.00	46
Ceptor-VI S3M 141	141.00	47
Ceptor-VI S3M 144	144.00	48
Ceptor-VI S3M 147	147.00	49
Ceptor-VI S3M 150	150.00	50
Ceptor-VI S3M 156	156.00	52
Ceptor-VI S3M 159	159.00	53
Ceptor-VI S3M 162	162.00	54
Ceptor-VI S3M 168	168.00	56
Ceptor-VI S3M 171	171.00	57
Ceptor-VI S3M 174	174.00	58
Ceptor-VI S3M 177	177.00	59
Ceptor-VI S3M 180	180.00	60
Ceptor-VI S3M 183	183.00	61
Ceptor-VI S3M 186	186.00	62
Ceptor-VI S3M 189	189.00	63
Ceptor-VI S3M 192	192.00	64
Ceptor-VI S3M 195	195.00	65
Ceptor-VI S3M 198	198.00	66
Ceptor-VI S3M 201	201.00	67
Ceptor-VI S3M 204	204.00	68
Ceptor-VI S3M 207	207.00	69
Ceptor-VI S3M 210	210.00	70
Ceptor-VI S3M 213	213.00	71
Ceptor-VI S3M 219	219.00	73
Ceptor-VI S3M 222	222.00	74
Ceptor-VI S3M 225	225.00	75
Ceptor-VI S3M 228	228.00	76
Ceptor-VI S3M 234	234.00	78
Ceptor-VI S3M 237	237.00	79
Ceptor-VI S3M 240	240.00	80
Ceptor-VI S3M 243	243.00	81
Ceptor-VI S3M 246	246.00	82
Ceptor-VI S3M 249	249.00	83
Ceptor-VI S3M 252	252.00	84
Ceptor-VI S3M 255	255.00	85
Ceptor-VI S3M 258	258.00	86
Ceptor-VI S3M 261	261.00	87
Ceptor-VI S3M 264	264.00	88
Ceptor-VI S3M 267	267.00	89
Ceptor-VI S3M 270	270.00	90
Ceptor-VI S3M 273	273.00	91
Ceptor-VI S3M 276	276.00	92
Ceptor-VI S3M 279	279.00	93
Ceptor-VI S3M 282	282.00	94
Ceptor-VI S3M 285	285.00	95
Ceptor-VI S3M 288	288.00	96
Ceptor-VI S3M 291	291.00	97
Ceptor-VI S3M 294	294.00	98
Ceptor-VI S3M 297	297.00	99
Ceptor-VI S3M 300	300.00	100
Ceptor-VI S3M 303	303.00	101
Ceptor-VI S3M 306	306.00	102
Ceptor-VI S3M 309	309.00	103
Ceptor-VI S3M 312	312.00	104
Ceptor-VI S3M 315	315.00	105
Ceptor-VI S3M 318	318.00	106

Ceptor™-VI Type S3M

Belt nominal length	Pitch length (mm)	No. of teeth
Ceptor-VI S3M 324	324.00	108
Ceptor-VI S3M 327	327.00	109
Ceptor-VI S3M 330	330.00	110
Ceptor-VI S3M 333	333.00	111
Ceptor-VI S3M 336	336.00	112
Ceptor-VI S3M 339	339.00	113
Ceptor-VI S3M 342	342.00	114
Ceptor-VI S3M 348	348.00	116
Ceptor-VI S3M 351	351.00	117
Ceptor-VI S3M 354	354.00	118
Ceptor-VI S3M 360	360.00	120
Ceptor-VI S3M 363	363.00	121
Ceptor-VI S3M 366	366.00	122
Ceptor-VI S3M 369	369.00	123
Ceptor-VI S3M 372	372.00	124
Ceptor-VI S3M 375	375.00	125
Ceptor-VI S3M 378	378.00	126
Ceptor-VI S3M 384	384.00	128
Ceptor-VI S3M 387	387.00	129
Ceptor-VI S3M 390	390.00	130
Ceptor-VI S3M 396	396.00	132
Ceptor-VI S3M 399	399.00	133
Ceptor-VI S3M 402	402.00	134
Ceptor-VI S3M 405	405.00	135
Ceptor-VI S3M 408	408.00	136
Ceptor-VI S3M 414	414.00	138
Ceptor-VI S3M 417	417.00	139
Ceptor-VI S3M 420	420.00	140
Ceptor-VI S3M 423	423.00	141
Ceptor-VI S3M 426	426.00	142
Ceptor-VI S3M 432	432.00	144
Ceptor-VI S3M 438	438.00	146
Ceptor-VI S3M 444	444.00	148
Ceptor-VI S3M 447	447.00	149
Ceptor-VI S3M 453	453.00	151
Ceptor-VI S3M 456	456.00	152
Ceptor-VI S3M 459	459.00	153
Ceptor-VI S3M 468	468.00	156
Ceptor-VI S3M 471	471.00	157
Ceptor-VI S3M 474	474.00	158
Ceptor-VI S3M 480	480.00	160
Ceptor-VI S3M 483	483.00	161
Ceptor-VI S3M 486	486.00	162
Ceptor-VI S3M 489	489.00	163
Ceptor-VI S3M 492	492.00	164
Ceptor-VI S3M 498	498.00	166
Ceptor-VI S3M 501	501.00	167
Ceptor-VI S3M 507	507.00	169
Ceptor-VI S3M 510	510.00	170
Ceptor-VI S3M 513	513.00	171
Ceptor-VI S3M 516	516.00	172
Ceptor-VI S3M 519	519.00	173
Ceptor-VI S3M 522	522.00	174
Ceptor-VI S3M 525	525.00	175
Ceptor-VI S3M 528	528.00	176
Ceptor-VI S3M 534	534.00	178
Ceptor-VI S3M 537	537.00	179
Ceptor-VI S3M 540	540.00	180
Ceptor-VI S3M 543	543.00	181
Ceptor-VI S3M 549	549.00	183
Ceptor-VI S3M 552	552.00	184
Ceptor-VI S3M 555	555.00	185
Ceptor-VI S3M 564	564.00	188
Ceptor-VI S3M 573	573.00	191
Ceptor-VI S3M 579	579.00	193

Ceptor™-VI Type S3M

Belt nominal length	Pitch length (mm)	No. of teeth
Ceptor-VI S3M 588	588.00	196
Ceptor-VI S3M 597	597.00	199
Ceptor-VI S3M 600	600.00	200
Ceptor-VI S3M 603	603.00	201
Ceptor-VI S3M 609	609.00	203
Ceptor-VI S3M 612	612.00	204
Ceptor-VI S3M 621	621.00	207
Ceptor-VI S3M 633	633.00	211
Ceptor-VI S3M 636	636.00	212
Ceptor-VI S3M 648	648.00	216
Ceptor-VI S3M 657	657.00	219
Ceptor-VI S3M 660	660.00	220
Ceptor-VI S3M 666	666.00	222
Ceptor-VI S3M 678	678.00	226
Ceptor-VI S3M 681	681.00	227
Ceptor-VI S3M 687	687.00	229
Ceptor-VI S3M 690	690.00	230
Ceptor-VI S3M 696	696.00	232
Ceptor-VI S3M 699	699.00	233
Ceptor-VI S3M 720	720.00	240
Ceptor-VI S3M 726	726.00	242
Ceptor-VI S3M 735	735.00	245
Ceptor-VI S3M 741	741.00	247
Ceptor-VI S3M 750	750.00	250
Ceptor-VI S3M 768	768.00	256
Ceptor-VI S3M 771	771.00	257
Ceptor-VI S3M 789	789.00	263
Ceptor-VI S3M 804	804.00	268
Ceptor-VI S3M 810	810.00	270
Ceptor-VI S3M 819	819.00	273
Ceptor-VI S3M 825	825.00	275
Ceptor-VI S3M 831	831.00	277
Ceptor-VI S3M 837	837.00	279
Ceptor-VI S3M 852	852.00	284
Ceptor-VI S3M 858	858.00	286
Ceptor-VI S3M 882	882.00	294
Ceptor-VI S3M 885	885.00	295
Ceptor-VI S3M 888	888.00	296
Ceptor-VI S3M 900	900.00	300
Ceptor-VI S3M 909	909.00	303
Ceptor-VI S3M 918	918.00	306
Ceptor-VI S3M 927	927.00	309
Ceptor-VI S3M 936	936.00	312
Ceptor-VI S3M 954	954.00	318
Ceptor-VI S3M 990	990.00	330
Ceptor-VI S3M 999	999.00	333
Ceptor-VI S3M 1014	1014.00	338
Ceptor-VI S3M 1050	1050.00	350
Ceptor-VI S3M 1119	1119.00	373
Ceptor-VI S3M 1134	1134.00	378
Ceptor-VI S3M 1146	1146.00	382
Ceptor-VI S3M 1176	1176.00	392
Ceptor-VI S3M 1188	1188.00	396
Ceptor-VI S3M 1260	1260.00	420
Ceptor-VI S3M 1299	1299.00	433
Ceptor-VI S3M 1338	1338.00	446
Ceptor-VI S3M 1374	1374.00	458
Ceptor-VI S3M 1419	1419.00	473
Ceptor-VI S3M 1530	1530.00	510
Ceptor-VI S3M 1569	1569.00	523
Ceptor-VI S3M 1596	1596.00	532
Ceptor-VI S3M 1650	1650.00	550
Ceptor-VI S3M 1734	1734.00	578

Ceptor™-VI Type S5M

Belt nominal length	Pitch length (mm)	No. of teeth
Ceptor-VI S5M 225	225.00	45
Ceptor-VI S5M 230	230.00	46
Ceptor-VI S5M 255	255.00	51
Ceptor-VI S5M 260	260.00	52
Ceptor-VI S5M 275	275.00	55
Ceptor-VI S5M 285	285.00	57
Ceptor-VI S5M 295	295.00	59
Ceptor-VI S5M 300	300.00	60
Ceptor-VI S5M 305	305.00	61
Ceptor-VI S5M 320	320.00	64
Ceptor-VI S5M 325	325.00	65
Ceptor-VI S5M 340	340.00	68
Ceptor-VI S5M 350	350.00	70
Ceptor-VI S5M 360	360.00	72
Ceptor-VI S5M 370	370.00	74
Ceptor-VI S5M 375	375.00	75
Ceptor-VI S5M 380	380.00	76
Ceptor-VI S5M 390	390.00	78
Ceptor-VI S5M 400	400.00	80
Ceptor-VI S5M 410	410.00	82
Ceptor-VI S5M 415	415.00	83
Ceptor-VI S5M 420	420.00	84
Ceptor-VI S5M 425	425.00	85
Ceptor-VI S5M 435	435.00	87
Ceptor-VI S5M 440	440.00	88
Ceptor-VI S5M 445	445.00	89
Ceptor-VI S5M 450	450.00	90
Ceptor-VI S5M 475	475.00	95
Ceptor-VI S5M 490	490.00	98
Ceptor-VI S5M 500	500.00	100
Ceptor-VI S5M 520	520.00	104
Ceptor-VI S5M 525	525.00	105
Ceptor-VI S5M 530	530.00	106
Ceptor-VI S5M 545	545.00	109
Ceptor-VI S5M 550	550.00	110
Ceptor-VI S5M 560	560.00	112
Ceptor-VI S5M 565	565.00	113
Ceptor-VI S5M 570	570.00	114
Ceptor-VI S5M 575	575.00	115
Ceptor-VI S5M 590	590.00	118
Ceptor-VI S5M 595	595.00	119
Ceptor-VI S5M 600	600.00	120
Ceptor-VI S5M 625	625.00	125
Ceptor-VI S5M 635	635.00	127
Ceptor-VI S5M 640	640.00	128
Ceptor-VI S5M 645	645.00	129
Ceptor-VI S5M 650	650.00	130
Ceptor-VI S5M 665	665.00	133
Ceptor-VI S5M 670	670.00	134
Ceptor-VI S5M 675	675.00	135
Ceptor-VI S5M 690	690.00	138
Ceptor-VI S5M 695	695.00	139
Ceptor-VI S5M 700	700.00	140
Ceptor-VI S5M 710	710.00	142
Ceptor-VI S5M 720	720.00	144
Ceptor-VI S5M 725	725.00	145
Ceptor-VI S5M 730	730.00	146
Ceptor-VI S5M 740	740.00	148
Ceptor-VI S5M 750	750.00	150
Ceptor-VI S5M 765	765.00	153
Ceptor-VI S5M 770	770.00	154
Ceptor-VI S5M 775	775.00	155
Ceptor-VI S5M 780	780.00	156
Ceptor-VI S5M 800	800.00	160
Ceptor-VI S5M 810	810.00	162
Ceptor-VI S5M 830	830.00	166
Ceptor-VI S5M 845	845.00	169
Ceptor-VI S5M 850	850.00	170
Ceptor-VI S5M 860	860.00	172
Ceptor-VI S5M 870	870.00	174

Ceptor™-VI Type S5M

Belt nominal length	Pitch length (mm)	No. of teeth
Ceptor-VI S5M 890	890.00	178
Ceptor-VI S5M 900	900.00	180
Ceptor-VI S5M 920	920.00	184
Ceptor-VI S5M 930	930.00	186
Ceptor-VI S5M 940	940.00	188
Ceptor-VI S5M 950	950.00	190
Ceptor-VI S5M 965	965.00	193
Ceptor-VI S5M 975	975.00	195
Ceptor-VI S5M 1000	1000.00	200
Ceptor-VI S5M 1025	1025.00	205
Ceptor-VI S5M 1050	1050.00	210
Ceptor-VI S5M 1055	1055.00	211
Ceptor-VI S5M 1085	1085.00	217
Ceptor-VI S5M 1090	1090.00	218
Ceptor-VI S5M 1100	1100.00	220
Ceptor-VI S5M 1105	1105.00	221
Ceptor-VI S5M 1115	1115.00	223
Ceptor-VI S5M 1120	1120.00	224
Ceptor-VI S5M 1125	1125.00	225
Ceptor-VI S5M 1135	1135.00	227
Ceptor-VI S5M 1145	1145.00	229
Ceptor-VI S5M 1160	1160.00	232
Ceptor-VI S5M 1165	1165.00	233
Ceptor-VI S5M 1195	1195.00	239
Ceptor-VI S5M 1225	1225.00	245
Ceptor-VI S5M 1250	1250.00	250
Ceptor-VI S5M 1260	1260.00	252
Ceptor-VI S5M 1270	1270.00	254
Ceptor-VI S5M 1295	1295.00	259
Ceptor-VI S5M 1330	1330.00	266
Ceptor-VI S5M 1350	1350.00	270
Ceptor-VI S5M 1420	1420.00	284
Ceptor-VI S5M 1475	1475.00	295
Ceptor-VI S5M 1500	1500.00	300
Ceptor-VI S5M 1505	1505.00	301
Ceptor-VI S5M 1530	1530.00	306
Ceptor-VI S5M 1595	1595.00	319
Ceptor-VI S5M 1605	1605.00	321
Ceptor-VI S5M 1680	1680.00	336
Ceptor-VI S5M 1715	1715.00	343
Ceptor-VI S5M 1800	1800.00	360
Ceptor-VI S5M 2000	2000.00	400

Ceptor™-VI standard belt widths

Nominal width	60	100	150	200	250	400	600	800
Width (mm)	6	10	15	20	25	40	60	80
Ceptor-VI S3M	●	●	●					
Ceptor-VI S5M		●	●	●	●			
Ceptor-VI S8M			●	●	●	●	●	●

Note: For other belt widths than the above, please contact us.

The nominal width is indicated by a factor of ten of the belt width (mm).

Belt dimensional tolerance

Effective length

(Unit: mm)

Length	Tolerance
256 or less	±0.20
Over 256 to 384 or less	±0.23
Over 384 to 512 or less	±0.25
Over 512 to 760 or less	±0.30
Over 760 to 1016 or less	±0.33
Over 1016 to 1272 or less	±0.38
Over 1272 to 1528 or less	±0.41
Over 1528 to 1776 or less	±0.43
Over 1776 to 2032 or less	±0.46
Over 2032 to 2288 or less	±0.48
Over 2288 to 2544 or less	±0.51
Over 2544 to 2792 or less	±0.53
Over 2792 to 3048 or less	±0.56
Over 3048 to 3304 or less	±0.58
Over 3304 to 3560 or less	±0.61
Over 3560 to 3808 or less	±0.64
Over 3808 to 4064 or less	±0.66
Over 4064 to 4320 or less	±0.69
Over 4320 to 4576 or less	±0.71

Note) The effective length tolerance is the tolerance of center distance in length measurement.

Belt width (S3M/S5M)

(Unit: mm)

Belt width	Tolerance
6 or less	±0.3
Over 6 to 10 or less	±0.4
Over 10 to 20 or less	±0.5
Over 20 to 30 or less	±0.6
Over 30 to 40 or less	±0.7
Over 40 to 60 or less	±0.8

Belt width (S8M)

(Unit: mm)

Belt width	Belt pitch length 840 or less	Belt pitch length 841~1680	Belt pitch length 1681 or more
Over 10 to 40 or less	+0.8 -0.8	+0.8 -1.2	+0.8 -1.2
Over 40 to 50 or less	+0.8 -1.2	+1.2 -1.2	+1.2 -1.6
Over 50 to 75 or less	+1.2 -1.6	+1.6 -1.6	+1.6 -2.0
Over 75 to 100 or less	+1.6 -1.6	+1.6 -2.0	+2.0 -2.0
Over 100	+2.4 -2.4	+2.4 -2.8	+2.4 -3.2