



ISORAN RPP AND ISORAN RPP DD

Megadyne Isoran RPP and Isoran RPP DD belts are a high power and high precision class of belt. Compared to Isoran Imperial, they can transmit more power in the same width or can allow a reduction of width to transmit the same power. This kind of belt uses a parabolic profile with the purpose to transmit more power and reduce the kind of accidents as tooth jump and to reduce noise.

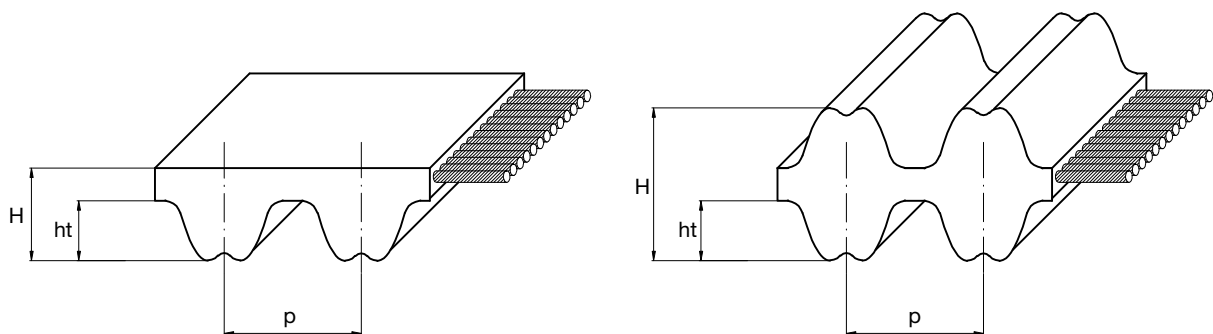
The parabolic profile has a progressive pressure angle since the tooth root up to the top. This allows to have a taller tooth with the same pitch length. These two features lead to the following advantages:

- Reduction interference between the pulley and the belt and its related wearing coming from the torque peaks;
- Less noise;
- More resistance to tooth jump and to tooth shear;
- Higher transmittable torques;
- Less pre-tension.

Looking at the tooth design, it has a groove on the top. This allows a local deformation leading to the following advantages:

- A smoother engagement;
- A better meshing of the tooth in the pulley groove;
- A more uniform sharing of engaging teeth's stress;
- Less noise because of the smoother engagement;
- Less wearing because of the less slippage during engagement.

RPP profile have been designed even to be interchangeable with existing deep groove profiles and run on pulleys according to ISO 13050.



Pitch		RPP3	RPP5	RPP8	RPP14	RPP5 DD	RPP8 DD	RPP14 DD
Pitch length (mm)	p	3	5	8	14	5	8	14
Teeth height (mm)	ht	1,15	2,00	3,20	6,00	2,00	3,20	5,70
Belt height (mm)	H	2,40	3,80	5,40	9,70	5,20	7,80	14,00

Resistance to:	Standard belt resistance
Water	Medium
Acids / Alkalies	None
Solvents	None
Mineral oils	Low
Oils	Low
Greases	Medium
Fuels	None
Environmental agents	Medium

Other features	
Temperature range	Min: -25 °C
	Max: 80 °C
	Max peak: 100 °C
Hardness	74 +/- 4 ShA

ISORAN RPP AND ISORAN RPP DD

STANDARD TOLERANCES

Width tolerances				
Belt width (mm)		Tolerance on belt width		
More than	Up to	Belt length (mm)		
		Up to 838	More than 838 up to 1676	More than 1676
-	11,1	+0,5 -0,8	+0,5 -0,8	--
11,1	38,1	±0,8	+0,8 -1,3	+0,8 -1,3
38,1	50,8	+0,8 -1,3	±1,3	+1,3 -1,5
50,8	76,2	+1,3 -1,5	±1,5	+1,5 -2,0
76,2	170,0	+1,3 -1,5	+1,3 -2,0	±2,0

Length tolerances			
Belt length [mm]		Tolerance (mm)	Centre distance tolerance (mm)
More than	Up to		
254	381	±0,45	±0,225
381	508	±0,50	±0,250
508	762	±0,60	±0,300
762	991	±0,65	±0,325
991	1,220	±0,75	±0,375
1,220	1,524	±0,80	±0,400
1,524	1,778	±0,85	±0,425
1,778	2,032	±0,90	±0,450
2,032	2,286	±0,95	±0,475
over 2,286		$\pm [0,95 + \left(\frac{L - 2286}{254} \cdot 0,03 \right)]$	$\pm [0,475 + \left(\frac{L - 2286}{254} \cdot 0,015 \right)]$

Thickness tolerances				
Pitch	Nominal belt tickness (mm)	Tolerance degree (mm)		
		Standard belt	Grade 2	Grade 1
RPP3	2,40	±0,60	±0,25	±0,15
RPP5	3,80	±0,60	±0,25	±0,15
RPP8	5,40	±0,60	±0,25	±0,15
RPP14	9,70	±0,60	±0,25	±0,15

For specific application where you might require different tolerances, please contact our Application Department.

STANDARD WIDTHS												
Pitch	Belt widths (mm)											
	6	9	15	20	25	30	40	50	55	85	115	170
RPP3	•	•	•									
RPP5 / RPP5 DD		•	•		•							
RPP8 / RPP8 DD				•		•		•		•		
RPP14 / RPP14 DD							•		•	•	•	•

RANGE

RRP3	
Code	Pitch length (mm)
90 RPP3	90
105 RPP3	105
129 RPP3	129
141 RPP3	141
144 RPP3	144
147 RPP3	147
150 RPP3	150
159 RPP3	159
168 RPP3	168
174 RPP3	174
177 RPP3	177
180 RPP3	180
186 RPP3	186
195 RPP3	195
201 RPP3	201
204 RPP3	204
210 RPP3	210
213 RPP3	213
225 RPP3	225
231 RPP3	231
240 RPP3	240
243 RPP3	243
246 RPP3	246
249 RPP3	249
252 RPP3	252
255 RPP3	255
261 RPP3	261
264 RPP3	264
267 RPP3	267
270 RPP3	270
276 RPP3	276
285 RPP3	285
288 RPP3	288
291 RPP3	291
297 RPP3	297
300 RPP3	300
312 RPP3	312
318 RPP3	318
327 RPP3	327
330 RPP3	330
333 RPP3	333
336 RPP3	336
339 RPP3	339
345 RPP3	345
351 RPP3	351
357 RPP3	357
363 RPP3	363
375 RPP3	375
384 RPP3	384
390 RPP3	390
393 RPP3	393
405 RPP3	405
420 RPP3	420
423 RPP3	423
432 RPP3	432
447 RPP3	447
474 RPP3	474
480 RPP3	480
486 RPP3	486
489 RPP3	489
495 RPP3	495
501 RPP3	501
510 RPP3	510
513 RPP3	513
522 RPP3	522
531 RPP3	531
537 RPP3	537
564 RPP3	564
570 RPP3	570
573 RPP3	573
576 RPP3	576
579 RPP3	579
582 RPP3	582
597 RPP3	597
600 RPP3	600
633 RPP3	633
648 RPP3	648
669 RPP3	669
711 RPP3	711
735 RPP3	735
738 RPP3	738
747 RPP3	747
756 RPP3	756
804 RPP3	804
882 RPP3	882
945 RPP3	945
1062 RPP3	1062
1125 RPP3	1125
1245 RPP3	1245
1263 RPP3	1263
1500 RPP3	1500
1530 RPP3	1530
1863 RPP3	1863

RPP5	
Code	Pitch length (mm)
180 RPP5	180
225 RPP5	225
235 RPP5	235
245 RPP5	245
255 RPP5	255
265 RPP5	265
270 RPP5	270
280 RPP5	280
285 RPP5	285
295 RPP5	295
300 RPP5	300
305 RPP5	305
325 RPP5	325
330 RPP5	330
345 RPP5	345
350 RPP5	350
375 RPP5	375
400 RPP5	400
420 RPP5	420
425 RPP5	425
450 RPP5	450
455 RPP5	455
460 RPP5	460
465 RPP5	465
475 RPP5	475
500 RPP5	500
525 RPP5	525
535 RPP5	535
565 RPP5	565
575 RPP5	575
580 RPP5	580
600 RPP5	600
610 RPP5	610
615 RPP5	615
635 RPP5	635
640 RPP5	640
650 RPP5	650
670 RPP5	670
675 RPP5	675
700 RPP5	700
705 RPP5	705
710 RPP5	710
725 RPP5	725
740 RPP5	740
750 RPP5	750
755 RPP5	755
800 RPP5	800
835 RPP5	835
850 RPP5	850
890 RPP5	890
900 RPP5	900
935 RPP5	935
940 RPP5	940
950 RPP5	950
980 RPP5	980
1000 RPP5	1000
1025 RPP5	1025
1050 RPP5	1050
1100 RPP5	1100
1125 RPP5	1125
1135 RPP5	1135
1195 RPP5	1195
1200 RPP5	1200
1240 RPP5	1240
1270 RPP5	1270
1420 RPP5	1420
1500 RPP5	1500
1595 RPP5	1595
1605 RPP5	1605
1690 RPP5	1690
1790 RPP5	1790
1800 RPP5	1800
1870 RPP5	1870
1895 RPP5	1895
1945 RPP5	1945
2000 RPP5	2000
2250 RPP5	2250
2350 RPP5	2350
2525 RPP5	2525

RPP8	
Code	Pitch length (mm)
248 RPP8	248
288 RPP8	288
320 RPP8	320
352 RPP8	352
360 RPP8	360
376 RPP8	376
384 RPP8	384
408 RPP8	408
416 RPP8	416
424 RPP8	424
456 RPP8	456
480 RPP8	480
536 RPP8	536
544 RPP8	544
560 RPP8	560
600 RPP8	600
608 RPP8	608
632 RPP8	632
640 RPP8	640
680 RPP8	680
720 RPP8	720
760 RPP8	760
800 RPP8	800
840 RPP8	840
880 RPP8	880
896 RPP8	896
920 RPP8	920
960 RPP8	960
992 RPP8	992
1000 RPP8	1000
1032 RPP8	1032
1040 RPP8	1040
1080 RPP8	1080
1120 RPP8	1120
1160 RPP8	1160
1200 RPP8	1200
1224 RPP8	1224
1280 RPP8	1280
1344 RPP8	1344
1352 RPP8	1352
1424 RPP8	1424
1440 RPP8	1440
1464 RPP8	1464
1544 RPP8	1544
1600 RPP8	1600
1680 RPP8	1680
1760 RPP8	1760
1792 RPP8	1792
1800 RPP8	1800
1904 RPP8	1904
2000 RPP8	2000
2200 RPP8	2200
2240 RPP8	2240
2272 RPP8	2272
2400 RPP8	2400
2520 RPP8	2520
2600 RPP8	2600
2800 RPP8	2800
2840 RPP8	2840
3048 RPP8	3048
3200 RPP8	3200
3280 RPP8	3280
3600 RPP8	3600
4000 RPP8	4000
4400 RPP8	4400

RPP14	
Code	Pitch length (mm)
966 RPP14	966
994 RPP14	994
1092 RPP14	1092
1106 RPP14	1106
1120 RPP14	1120
1190 RPP14	1190
1260 RPP14	1260
1288 RPP14	1288
1344 RPP14	1344
1400 RPP14	1400
1442 RPP14	1442
1512 RPP14	1512
1568 RPP14	1568
1610 RPP14	1610
1750 RPP14	1750
1764 RPP14	1764
1778 RPP14	1778
1848 RPP14	1848
1890 RPP14	1890
1904 RPP14	1904
1960 RPP14	1960
2100 RPP14	2100
2240 RPP14	2240
2310 RPP14	2310
2380 RPP14	2380
2450 RPP14	2450
2520 RPP14	2520
2590 RPP14	2590
2660 RPP14	2660
2800 RPP14	2800
2968 RPP14	2968
3136 RPP14	3136
3150 RPP14	3150
3304 RPP14	3304
3360 RPP14	3360
3500 RPP14	3500
3850 RPP14	3850
3920 RPP14	3920
4326 RPP14	4326
4410 RPP14	4410
4578 RPP14	4578
4956 RPP14	4956

RPP5 DD	
Code	Pitch length (mm)
600 RPP5 DD	600
610 RPP5 DD	610
615 RPP5 DD	615
635 RPP5 DD	635
640 RPP5 DD	640
650 RPP5 DD	650
670 RPP5 DD	670
675 RPP5 DD	675
700 RPP5 DD	700
705 RPP5 DD	705
710 RPP5 DD	710
725 RPP5 DD	725
740 RPP5 DD	740
750 RPP5 DD	750
755 RPP5 DD	755
800 RPP5 DD	800
835 RPP5 DD	835
850 RPP5 DD	850
890 RPP5 DD	890
900 RPP5 DD	900
935 RPP5 DD	935
940 RPP5 DD	940
950 RPP5 DD	950
980 RPP5 DD	980
1000 RPP5 DD	1000
1025 RPP5 DD	1025
1050 RPP5 DD	1050
1100 RPP5 DD	1100
1125 RPP5 DD	1125
1135 RPP5 DD	1135
1195 RPP5 DD	1195
1200 RPP5 DD	1200
1240 RPP5 DD	1240
1270 RPP5 DD	1270
1420 RPP5 DD	1420
1500 RPP5 DD	1500
1595 RPP5 DD	1595
1605 RPP5 DD	1605
1690 RPP5 DD	1690
1790 RPP5 DD	1790
1800 RPP5 DD	1800
1870 RPP5 DD	1870
1895 RPP5 DD	1895
1945 RPP5 DD	1945
2000 RPP5 DD	2000
2250 RPP5 DD	2250
2350 RPP5 DD	2350
2525 RPP5 DD	2525

RPP8 DD	
Code	Pitch length (mm)
600 RPP8 DD	600
608 RPP8 DD	608
632 RPP8 DD	632
640 RPP8 DD	640
680 RPP8 DD	680
720 RPP8 DD	720
800 RPP8 DD	800
840 RPP8 DD	840
880 RPP8 DD	880
896 RPP8 DD	896
920 RPP8 DD	920
960 RPP8 DD	960
1000 RPP8 DD	1000
1040 RPP8 DD	1040
1080 RPP8 DD	1080
1120 RPP8 DD	1120
1160 RPP8 DD	1160
1200 RPP8 DD	1200
1224 RPP8 DD	1224
1280 RPP8 DD	1280
1352 RPP8 DD	1352
1424 RPP8 DD	1424
1440 RPP8 DD	1440
1464 RPP8 DD	1464
1600 RPP8 DD	1600
1680 RPP8 DD	1680
1760 RPP8 DD	1760
1792 RPP8 DD	1792
1800 RPP8 DD	1800
1904 RPP8 DD	1904
2000 RPP8 DD	2000
2200 RPP8 DD	2200
2240 RPP8 DD	2240
2272 RPP8 DD	2272
2400 RPP8 DD	2400
2520 RPP8 DD	2520
2600 RPP8 DD	2600
2800 RPP8 DD	2800
2840 RPP8 DD	2840
3048 RPP8 DD	3048
3200 RPP8 DD	3200
3280 RPP8 DD	3280
3600 RPP8 DD	3600
4000 RPP8 DD	4000
4400 RPP8 DD	4400

RPP14 DD	
Code	Pitch length (mm)
966 RPP14 DD	966
994 RPP14 DD	994
1092 RPP14 DD	1092
1106 RPP14 DD	1106
1120 RPP14 DD	1120
1190 RPP14 DD	1190
1260 RPP14 DD	1260
1288 RPP14 DD	1288
1344 RPP14 DD	1344
1400 RPP14 DD	1400
1442 RPP14 DD	1442
1512 RPP14 DD	1512
1568 RPP14 DD	1568
1610 RPP14 DD	1610
1750 RPP14 DD	1750
1764 RPP14 DD	1764
1778 RPP14 DD	1778
1848 RPP14 DD	1848
1890 RPP14 DD	1890
1904 RPP14 DD	1904
1960 RPP14 DD	1960
2100 RPP14 DD	2100
2240 RPP14 DD	2240
2310 RPP14 DD	2310
2380 RPP14 DD	2380
2450 RPP14 DD	2450
2520 RPP14 DD	2520
2590 RPP14 DD	2590
2660 RPP14 DD	2660
2800 RPP14 DD	2800
2968 RPP14 DD	2968
3136 RPP14 DD	3136
3150 RPP14 DD	3150
3304 RPP14 DD	3304
3360 RPP14 DD	3360
3500 RPP14 DD	3500
3850 RPP14 DD	3850
3920 RPP14 DD	3920
4326 RPP14 DD	4326
4410 RPP14 DD	4410
4578 RPP14 DD	4578
4956 RPP14 DD	4956

BASIC PERFORMANCE Pb IN W FOR ISORAN RPP3 - 6 mm WIDE (W / 6 mm)															
d (mm)	9,55	11,46	13,37	15,28	17,19	19,10	22,92	26,74	30,56	38,20	45,84	53,48	61,12	68,75	76,39
z	10	12	14	16	18	20	24	28	32	40	48	56	64	72	80
rpm															
10	1	1	1	1	2	2	2	3	3	4	5	6	8	9	10
20	1	2	2	2	3	3	4	5	6	7	9	11	13	15	17
30	2	2	3	3	4	4	5	6	7	10	12	15	17	20	22
50	3	3	4	5	5	6	8	9	11	14	18	21	25	29	33
70	3	4	5	6	7	8	10	12	14	18	23	28	32	37	42
100	5	6	7	8	9	10	13	16	18	24	30	36	42	49	55
200	8	10	11	13	16	18	22	26	31	40	50	61	71	82	93
300	10	13	16	18	21	24	30	36	42	55	68	82	96	111	126
400	13	16	19	23	26	30	37	44	62	80	100	120	141	163	185
500	15	19	23	27	31	35	44	52	71	92	115	138	162	187	212
600	17	22	26	31	35	40	50	60	79	103	129	155	182	209	237
700	20	24	29	34	40	45	56	67	87	114	142	171	201	231	262
800	22	27	32	38	44	50	62	75	96	125	155	187	219	253	286
900	24	29	35	42	48	54	68	81	103	135	168	202	237	273	310
1000	26	32	38	45	52	59	73	88	111	145	181	217	255	293	332
1100	28	34	41	48	56	63	79	95	119	155	193	232	272	313	355
1200	29	37	44	52	59	67	84	101	126	164	204	246	288	332	376
1300	31	39	47	55	63	72	89	107	133	174	216	260	305	351	397
1400	33	41	49	58	67	76	94	113	140	183	227	273	321	369	418
1500	35	43	52	61	70	80	99	119	147	192	239	287	336	387	438
1600	36	45	55	64	74	84	104	125	154	201	250	300	352	404	458
1700	38	47	57	67	77	88	109	131	160	209	260	313	367	422	477
1800	40	50	60	70	81	91	114	137	167	218	271	326	381	438	496
1900	41	52	62	73	84	95	118	142	174	227	281	338	396	455	515
2000	43	54	64	76	87	99	123	148	199	259	322	386	452	519	586
2400	49	61	74	87	100	113	141	169	223	290	360	431	504	578	652
2800	55	69	83	97	112	127	158	190	246	320	396	474	553	633	713
3200	61	76	92	108	124	140	174	210	268	348	430	514	599	684	768
3600	67	83	100	117	135	153	190	229	289	375	463	552	642	731	819
4000	72	90	108	127	146	166	206	247	338	438	538	637	735	830	922
5000	85	106	128	150	172	195	242	290	384	493	602	707	808	903	989
6000	98	122	146	171	197	223	275	329	425	542	655	762	859	945	1017
7000	110	136	163	191	220	248	307	366	462	584	697	799	886	954	999
8000	121	150	180	210	241	273	336	399	522	644	745	818	858	858	813
10000	142	176	211	246	281	316	387	456	564	670	736	752	706	588	
12000	162	200	239	277	316	354	429	499	585	685	664	586			
14000	180	222	264	305	346	386	461	528							

BASIC PERFORMANCE Pb IN W FOR ISORAN RPP5 AND RPP5 DD - 9 mm WIDE (W / 9 mm)													
d (mm)	22,28	25,46	28,65	31,83	38,20	44,56	50,93	63,66	76,39	89,13	101,86	114,59	127,32
z	14	16	18	20	24	28	32	40	48	56	64	72	80
rpm													
10	5	6	7	7	9	11	13	15	17	19	21	26	30
20	8	10	11	13	16	19	22	25	29	32	36	43	51
30	11	13	15	17	21	25	30	34	39	44	49	59	69
50	16	19	22	25	31	37	44	51	57	64	71	86	101
70	21	25	28	32	40	48	56	65	74	83	92	110	130
100	27	32	37	42	52	63	74	85	96	108	120	144	169
200	46	54	62	71	88	106	124	143	162	182	202	243	285
300	62	73	84	96	119	143	168	194	220	246	273	329	386
400	77	91	105	119	148	178	209	240	273	306	339	408	479
500	91	107	124	140	175	210	247	284	322	361	401	482	566
600	105	123	142	161	200	241	283	325	369	414	459	553	648
700	118	138	159	181	225	270	317	365	414	465	516	620	727
800	130	153	176	200	248	299	351	404	458	513	570	685	803
900	142	167	192	218	271	326	383	441	500	560	622	748	877
1000	154	180	208	236	293	353	414	477	541	606	673	808	948
1100	165	194	223	253	315	379	445	519	581	651	722	867	1017
1200	176	207	238	270	336	404	474	546	619	694	770	925	1084
1300	187	220	253	287	357	429	504	580	657	736	817	981	1149
1400	198	232	267	303	377	454	532	612	694	778	862	1035	1212
1500	208	244	281	319	397	477	560	644	713	818	907	1089	1274
1600	219	256	295	335	417	501	587	676	776	858	951	1141	1335
1700	229	268	309	351	436	524	614	707	801	897	994	1192	1393
1800	239	280	322	366	455	547	641	737	835	935	1036	1241	1451
1900	249	292	336	381	473	569	667	767	869	972	1077	1290	1507
2000	258	303	349	396	492	591	692	796	902	1009	1117	1338	1562
2400	296	347	399	453	563	675	791	909	1028	1149	1271	1518	1767
2800	332	389	448	507	630	755	884	1014	1146	1279	1413	1682	1950
3200	366	429	494	559	694	831	971	1113	1256	1400	1543	1830	2112
3600	399	468	538	609	755	903	1054	1206	1359	1511	1663	1962	2252
4000	432	505	581	657	813	972	1132	1293	1453	1613	1770	2077	2368
5000	508	594	681	769	948	1128	1307	1484	1657	1825	1986	2286	2547
6000	578	675	773	871	1068	1262	1452	1635	1809	1971	2120	2372	2548
7000	644	749	856	962	1171	1374	1566	1744	1905	2046	2164	2318	2347
8000	704	818	931	1043	1259	1462	1646	1806	1939	2040	2105	2108	1914
10000	811	935	1056	1171	1382	1559	1693	1776	1800	1756	1637		
12000	899	1026	1144	1252	1427	1538	1570	1507					
14000	966	1087	1193	1280	1386	1382	1248						

RPP8 - RPP8 DD

BASIC PERFORMANCE Pb IN kW FOR ISORAN RPP8 AND RPP8 DD - 20 mm WIDE (kW / 20 mm)																
d (mm)	56,02	61,12	66,21	71,30	76,39	81,49	86,58	91,67	96,77	101,86	112,05	122,23	142,60	162,97	183,35	203,72
z	22	24	26	28	30	32	34	36	38	40	44	48	56	64	72	80
rpm																
10	0,06	0,07	0,08	0,08	0,09	0,10	0,11	0,11	0,12	0,13	0,14	0,16	0,19	0,22	0,26	0,29
20	0,11	0,12	0,13	0,14	0,15	0,16	0,18	0,19	0,20	0,22	0,24	0,27	0,32	0,38	0,44	0,49
30	0,14	0,16	0,17	0,19	0,21	0,22	0,24	0,26	0,27	0,29	0,33	0,36	0,44	0,51	0,59	0,67
50	0,21	0,23	0,26	0,28	0,30	0,33	0,35	0,38	0,40	0,43	0,48	0,53	0,64	0,75	0,87	0,98
70	0,27	0,30	0,33	0,36	0,39	0,42	0,45	0,49	0,52	0,55	0,62	0,69	0,82	0,97	1,12	1,27
100	0,35	0,39	0,43	0,47	0,51	0,55	0,59	0,63	0,68	0,72	0,81	0,90	1,08	1,27	1,46	1,65
200	0,59	0,66	0,72	0,79	0,86	0,93	1,00	1,07	1,14	1,21	1,36	1,51	1,81	2,13	2,45	2,78
300	0,80	0,89	0,98	1,07	1,16	1,26	1,35	1,45	1,54	1,64	1,84	2,04	2,46	2,88	3,32	3,77
400	0,99	1,10	1,21	1,33	1,44	1,56	1,67	1,79	1,91	2,03	2,28	2,53	3,05	3,57	4,12	4,67
500	1,17	1,30	1,43	1,57	1,70	1,84	1,98	2,12	2,26	2,40	2,70	2,99	3,60	4,22	4,86	5,51
600	1,35	1,49	1,64	1,80	1,95	2,11	2,27	2,43	2,59	2,76	3,09	3,43	4,12	4,83	5,56	6,31
700	1,51	1,68	1,85	2,02	2,19	2,37	2,55	2,73	2,91	3,09	3,47	3,84	4,62	5,42	6,24	7,07
800	1,67	1,85	2,04	2,23	2,42	2,62	2,81	3,01	3,21	3,42	3,83	4,25	5,10	5,98	6,88	7,79
900	1,82	2,02	2,23	2,43	2,64	2,86	3,07	3,29	3,51	3,77	4,18	4,63	5,57	6,52	7,50	8,49
1000	1,97	2,19	2,41	2,63	2,86	3,09	3,32	3,55	3,79	4,03	4,52	5,01	6,01	7,04	8,09	9,16
1100	2,12	2,35	2,59	2,83	3,07	3,31	3,56	3,81	4,07	4,32	4,84	5,37	6,45	7,55	8,67	9,80
1200	2,26	2,51	2,76	3,01	3,27	3,54	3,80	4,07	4,34	4,61	5,16	5,72	6,87	8,03	9,22	10,42
1300	2,40	2,66	2,93	3,20	3,47	3,75	4,03	4,31	4,60	4,89	5,47	6,07	7,27	8,51	9,75	11,02
1400	2,53	2,81	3,09	3,38	3,67	3,96	4,26	4,56	4,86	5,16	5,78	6,40	7,67	8,96	10,27	11,59
1500	2,67	2,96	3,26	3,56	3,86	4,17	4,48	4,79	5,11	5,43	6,07	6,73	8,05	9,40	10,76	12,13
1600	2,80	3,10	3,41	3,73	4,05	4,37	4,69	5,02	5,35	5,69	6,36	7,04	8,43	9,83	11,24	12,66
1700	2,93	3,25	3,57	3,90	4,23	4,57	4,91	5,25	5,59	5,94	6,64	7,35	8,79	10,24	11,50	13,16
1800	3,05	3,39	3,72	4,07	4,41	4,76	5,11	5,47	5,83	6,19	6,92	7,65	9,14	10,64	11,70	13,60
1900	3,18	3,52	3,87	4,23	4,59	4,95	5,32	5,69	6,06	6,43	7,19	7,95	9,48	11,02	12,56	14,09
2000	3,30	3,66	4,02	4,39	4,76	5,14	5,52	5,90	6,28	6,67	7,45	8,23	9,81	11,39	12,97	15,52
2200	3,54	3,92	4,32	4,70	5,10	5,50	5,90	6,31	6,72	7,13	7,95	8,78	10,44	12,09	13,72	15,31
2400	3,77	4,18	4,59	5,00	5,42	5,85	6,27	6,70	7,13	7,56	8,43	9,30	11,03	12,73	14,39	16,00
2600	3,99	4,42	4,86	5,30	5,74	6,18	6,63	7,08	7,53	7,98	8,88	9,78	11,57	13,31	14,99	16,59
2800	4,21	4,66	5,12	5,58	6,04	6,51	6,97	7,44	7,91	8,38	9,31	10,24	12,07	13,83	15,50	17,06
3000	4,42	4,90	5,37	5,85	6,33	6,82	7,30	7,79	8,27	8,76	9,72	10,67	12,52	14,29	15,93	17,43
3500	4,93	5,45	5,97	6,49	7,02	7,54	8,06	8,58	9,10	9,61	10,62	11,60	13,46	15,14		
4000					7,64	8,19	8,73	9,28	9,81	10,33	11,35	12,32	14,08			
4500						8,75	9,31	9,86	10,40	10,92	11,91	12,82				
5000							9,80	10,34	10,86	11,35	12,27	13,08				
5500									11,18	11,63	12,44					
6000										11,36	11,75	12,38				

BASIC PERFORMANCE Pb IN kW FOR ISORAN RPP14 AND RPP14 DD - 40 mm WIDE (kW / 40 mm)																	
d (mm)	124,78	129,23	133,69	142,60	151,51	160,43	169,34	178,25	196,08	213,90	231,73	249,55	267,38	285,21	303,03	320,86	356,51
z	28	29	30	32	34	36	38	40	44	48	52	56	60	64	68	72	80
rpm																	
10	0,43	0,45	0,47	0,51	0,54	0,58	0,62	0,66	0,74	0,82	0,91	0,99	1,08	1,16	1,25	1,34	1,52
20	0,73	0,76	0,79	0,85	0,92	0,98	1,05	1,11	1,25	1,38	1,52	1,67	1,81	1,96	2,10	2,25	2,56
30	0,98	1,03	1,07	1,15	1,24	1,33	1,42	1,51	1,69	1,88	2,07	2,26	2,45	2,65	2,85	3,05	3,46
50	1,44	1,50	1,57	1,69	1,82	1,95	2,08	2,21	2,48	2,75	3,03	3,31	3,60	3,89	4,18	4,48	5,08
70	1,86	1,94	2,02	2,18	2,34	2,51	2,68	2,85	3,19	3,54	3,90	4,26	4,63	5,00	5,38	5,76	6,54
100	2,42	2,53	2,63	2,85	3,06	3,28	3,50	3,72	4,17	4,63	5,10	5,57	6,05	6,54	7,03	7,53	8,54
200	4,08	4,25	4,43	4,79	5,15	5,51	5,88	6,25	7,01	7,78	8,57	9,36	10,17	10,99	11,81	12,65	14,35
300	5,52	5,76	6,00	6,48	6,97	7,47	7,97	8,47	9,50	10,54	11,60	12,67	13,76	14,87	15,98	17,11	19,41
400	6,85	7,14	7,44	8,04	8,64	9,26	9,87	10,50	11,77	13,06	14,37	15,69	17,04	18,40	19,78	21,17	23,99
500	8,09	8,44	8,79	9,49	10,21	10,93	11,66	12,39	13,89	15,40	16,94	18,50	20,08	21,68	23,30	24,92	28,22
600	9,27	9,67	10,07	10,87	11,69	12,51	13,34	14,19	15,89	17,62	19,37	21,15	22,94	24,75	26,58	28,42	32,15
700	10,39	10,84	11,28	12,19	13,10	14,02	14,95	15,89	17,79	19,71	21,67	23,64	25,63	27,64	29,66	31,70	35,80
800	11,47	11,96	12,45	13,45	14,45	15,46	16,48	17,51	19,60	21,71	23,84	26,00	28,17	30,36	32,55	34,76	39,19
900	12,51	13,04	13,58	14,66	15,75	16,85	17,95	19,07	21,33	23,61	25,91	28,23	30,57	32,91	35,26	37,62	42,32
1000	13,51	14,06	14,66	15,82	16,99	18,18	19,37	20,56	22,98	25,42	27,88	30,35	32,82	35,31	37,79	40,27	45,20
1100	14,48	15,10	15,71	16,95	18,20	19,45	20,72	21,99	24,56	27,14	29,74	32,34	34,95	37,55	40,14	42,72	47,81
1200	15,42	16,07	16,72	18,03	19,36	20,69	22,02	23,37	26,07	28,78	31,50	34,22	36,93	39,63	42,30	44,96	50,16
1300	16,33	17,02	17,70	19,08	20,47	21,87	23,28	24,68	27,51	30,34	33,17	35,98	38,78	41,55	44,29	46,98	52,23
1400	17,21	17,93	18,65	20,10	21,55	23,01	24,48	25,94	28,88	31,81	34,73	37,63	40,49	43,31	46,08	48,79	54,01
1500	18,07	18,82	19,57	21,08	22,59	24,11	25,63	27,16	30,18	33,20	36,20	39,15	42,05	44,90	47,67	50,37	55,48
1600	18,90	19,68	20,46	22,02	23,59	25,16	26,73	28,30	31,42	34,51	37,56	40,55	43,47	46,31	49,06	51,71	56,65
1700	19,70	20,50	21,31	22,93	24,55	26,17	27,78	29,39	32,58	35,73	38,81	41,82	44,73	47,55	50,24	52,81	57,49
1800	20,48	21,31	22,14	23,81	25,47	27,13	28,78	30,42	33,67	36,86	39,96	42,96	45,84	48,60	51,21	53,65	58,00
1900	21,23	22,08	22,94	24,65	26,35	28,05	29,73	31,40	34,69	37,90	40,99	43,96	46,79	49,46	51,94	54,23	58,15
2000	21,95	22,83	23,71	25,45	27,19	28,92	30,63	32,32	35,64	38,84	41,92	44,83	47,57	50,12	52,45		
2500	25,19	26,15	27,09	28,96	30,79	32,58	34,32	36,00	39,19	42,11	44,70	46,94					
3000			29,69	31,54	33,31	34,98	36,56	38,03									
3500			31,43	33,10	34,63	35,99	37,19	38,19									
4000				33,55	34,63												



ISORAN SILVER & SILVER 2

Megadyne Isoran Silver belts have been developed to give a more powerful alternative to Isoran RPP belts. Competing against high performance transmission systems, using chains and gears, that always have a disadvantage in terms of weight, noise, lubrication and maintenance costs.

Due to of the greater power they can transmit compared to Isoran RPP, Isoran Silver can be used to improve and easily upgrade existing drives working with Isoran. Interchangeability is the key factor to flexible approach when upgrading with ISORAN SILVER, ensure that the other key equipments component are able to handle the increased transmitted power.

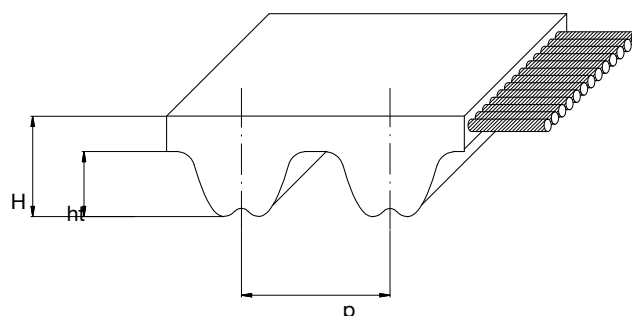
The new generation of RPP SILVER is made with materials of the highest quality and strength. Employing innovative manufacturing processes and techniques, the homogeneous construction of all components and a higher cohesive bond, imparts superior torque capacity, thus positioning the new SILVER 2 at a high performance level.

New SILVER 2 offers a wealth of improved properties and is distinguished above all, by the increased power capacity. Thanks to the use of “state of the art” materials, the SILVER 2 is particularly recommended for efficient and compact drives which experience high starting torques and allow the designer more flexibility due to the following advantages:

1. Increase of power load capacity by up to +50%, compared to the previous Silver; consequently more compact and lightweight drives are possible under the same power rating;
2. Break the equation “More Performance”=“More Cost”, as the Silver 2 retains the same selling price of the previous Silver generation, while offering a consistent improvement in performance;
3. Maintain the proven RPP tooth profile of Silver, thus continuing to give a full functional interchangeability with other deep profile systems;
4. Allows the existing RPP and SILVER systems to be upgraded without the necessity to replace the pulleys; thus extending the service life of existing drives at zero-cost.

The new SILVER 2 belts will be available in 8M and 14M pitches, with the same range of lengths of the previous SILVER generation. Each type will be available both in sleeves and single belts, maintaining the same basic dimensions and widths.

ISORAN SILVER 2 belts have RPP profile, designed even to be interchangeable with existing deep groove profiles and run on pulleys according to ISO 13050. Isoran Silver 2 8M and 14M belts are antistatic according to ISO 9563. Isoran Silver 5M standard are not antistatic (available in antistatic version on request).



Pitch		SILVER 5	SILVER 2 8M	SILVER 2 14M
Pitch length (mm)	p	5	8	14
Teeth height (mm)	ht	2,00	3,20	6,00
Belt height (mm)	H	3,80	5,40	9,70

Resistance to:	Standard belt resistance
Water	Medium
Acids / Alkalis	None
Solvents	None
Mineral oils	Low
Oils	Low
Greases	Medium
Fuels	None
Environmental agents	Medium

Other features	
Temperature range	Min: -25 °C
	Max: 80 °C
	Max peak: 100 °C
Hardness	90 +/-4 ShA
Antistatic (for 8M and 14M)	According to ISO 9563

ISORAN SILVER AND SILVER 2

STANDARD TOLERANCES

Width tolerances				
Belt width (mm)		Tolerance on belt width		
More than	Up to	Belt length (mm)		
		Up to 838	More than 838 up to 1676	More than 1676
-	11,1	+0,5 -0,8	+0,5 -0,8	-
11,1	38,1	±0,8	+0,8 -1,3	+0,8 -1,3
38,1	50,8	+0,8 -1,3	±1,3	+1,3 -1,5
50,8	76,2	+1,3 -1,5	±1,5	+1,5 -2,0
76,2	170,0	+1,3 -1,5	+1,3 -2,0	±2,0

Length tolerances			
Belt length (mm)		Tolerance (mm)	Centre distance tolerance (mm)
More than	Up to		
254	381	±0,45	±0,225
381	508	±0,50	±0,250
508	762	±0,60	±0,300
762	991	±0,65	±0,325
991	1,220	±0,75	±0,375
1,220	1,524	±0,80	±0,400
1,524	1,778	±0,85	±0,425
1,778	2,032	±0,90	±0,450
2,032	2,286	±0,95	±0,475
over 2,286		$\pm \left[0,95 + \left(\frac{L - 2286}{254} \cdot 0,03 \right) \right]$	$\pm \left[0,475 + \left(\frac{L - 2286}{254} \cdot 0,015 \right) \right]$

For specific application where you might require different tolerances, please contact our Application Department.

Thickness tolerances				
Pitch	Nominal belt tickness (mm)	Tolerance degree (mm)		
		Standard belt	Grade 2	Grade 1
SILVER 5	3,80	±0,60	±0,25	±0,15
SILVER 2 8M	5,40	±0,60	±0,25	±0,15
SILVER 2 14M	9,70	±0,60	±0,25	±0,15

STANDARD WIDTHS											
Pitch	Belt widths										
	9	15	20	25	30	40	50	55	85	115	170
SILVER 5	•	•		•							
SILVER 2 8M			•		•		•		•		
SILVER 2 14M						•		•	•	•	•

RANGE

SILVER 5	
Code	Pitch length [mm]
180 SLV5	180
225 SLV5	225
235 SLV5	235
245 SLV5	245
255 SLV5	255
265 SLV5	265
270 SLV5	270
280 SLV5	280
285 SLV5	285
295 SLV5	295
300 SLV5	300
305 SLV5	305
325 SLV5	325
330 SLV5	330
345 SLV5	345
350 SLV5	350
375 SLV5	375
400 SLV5	400
420 SLV5	420
425 SLV5	425
450 SLV5	450
455 SLV5	455
460 SLV5	460
465 SLV5	465
475 SLV5	475
500 SLV5	500
525 SLV5	525
535 SLV5	535
565 SLV5	565
575 SLV5	575
580 SLV5	580
600 SLV5	600
610 SLV5	610
615 SLV5	615
635 SLV5	635
640 SLV5	640
650 SLV5	650
670 SLV5	670
675 SLV5	675
700 SLV5	700
705 SLV5	705
710 SLV5	710
725 SLV5	725
740 SLV5	740
750 SLV5	750
755 SLV5	755
800 SLV5	800
835 SLV5	835
850 SLV5	850
890 SLV5	890
900 SLV5	900
935 SLV5	935
940 SLV5	940
950 SLV5	950
980 SLV5	980
1000 SLV5	1000
1025 SLV5	1025
1050 SLV5	1050
1100 SLV5	1100
1125 SLV5	1125
1135 SLV5	1135
1195 SLV5	1195
1200 SLV5	1200
1240 SLV5	1240
1270 SLV5	1270
1420 SLV5	1420
1500 SLV5	1500
1595 SLV5	1595
1605 SLV5	1605
1690 SLV5	1690
1790 SLV5	1790
1800 SLV5	1800
1870 SLV5	1870
1895 SLV5	1895
1945 SLV5	1945
2000 SLV5	2000
2250 SLV5	2250
2350 SLV5	2350
2525 SLV5	2525

SILVER 2 8M	
Code	Pitch length [mm]
248 SLV2 8M	248
288 SLV2 8M	288
320 SLV2 8M	320
352 SLV2 8M	352
360 SLV2 8M	360
376 SLV2 8M	376
384 SLV2 8M	384
408 SLV2 8M	408
416 SLV2 8M	416
424 SLV2 8M	424
456 SLV2 8M	456
480 SLV2 8M	480
536 SLV2 8M	536
544 SLV2 8M	544
560 SLV2 8M	560
600 SLV2 8M	600
608 SLV2 8M	608
632 SLV2 8M	632
640 SLV2 8M	640
680 SLV2 8M	680
720 SLV2 8M	720
760 SLV2 8M	760
800 SLV2 8M	800
840 SLV2 8M	840
880 SLV2 8M	880
896 SLV2 8M	896
920 SLV2 8M	920
960 SLV2 8M	960
1000 SLV2 8M	1000
1040 SLV2 8M	1040
1080 SLV2 8M	1080
1120 SLV2 8M	1120
1160 SLV2 8M	1160
1200 SLV2 8M	1200
1224 SLV2 8M	1224
1280 SLV2 8M	1280
1352 SLV2 8M	1352
1424 SLV2 8M	1424
1440 SLV2 8M	1440
1464 SLV2 8M	1464
1600 SLV2 8M	1600
1680 SLV2 8M	1680
1760 SLV2 8M	1760
1800 SLV2 8M	1800
1904 SLV2 8M	1904
2000 SLV2 8M	2000
2200 SLV2 8M	2200
2240 SLV2 8M	2240
2272 SLV2 8M	2272
2400 SLV2 8M	2400
2520 SLV2 8M	2520
2600 SLV2 8M	2600
2800 SLV2 8M	2800
2840 SLV2 8M	2840
3048 SLV2 8M	3048
3200 SLV2 8M	3200
3280 SLV2 8M	3280
3600 SLV2 8M	3600
4000 SLV2 8M	4000
4400 SLV2 8M	4400

SILVER 2 14M	
Code	Pitch length [mm]
966 SLV2 14M	966
994 SLV2 14M	994
1092 SLV2 14M	1092
1106 SLV2 14M	1106
1120 SLV2 14M	1120
1190 SLV2 14M	1190
1260 SLV2 14M	1260
1288 SLV2 14M	1288
1344 SLV2 14M	1344
1400 SLV2 14M	1400
1442 SLV2 14M	1442
1512 SLV2 14M	1512
1568 SLV2 14M	1568
1610 SLV2 14M	1610
1750 SLV2 14M	1750
1764 SLV2 14M	1764
1778 SLV2 14M	1778
1848 SLV2 14M	1848
1890 SLV2 14M	1890
1904 SLV2 14M	1904
1960 SLV2 14M	1960
2100 SLV2 14M	2100
2240 SLV2 14M	2240
2310 SLV2 14M	2310
2380 SLV2 14M	2380
2450 SLV2 14M	2450
2520 SLV2 14M	2520
2590 SLV2 14M	2590
2660 SLV2 14M	2660
2800 SLV2 14M	2800
2968 SLV2 14M	2968
3136 SLV2 14M	3136
3150 SLV2 14M	3150
3304 SLV2 14M	3304
3360 SLV2 14M	3360
3500 SLV2 14M	3500
3850 SLV2 14M	3850
3920 SLV2 14M	3920
4326 SLV2 14M	4326
4410 SLV2 14M	4410
4578 SLV2 14M	4578
4956 SLV2 14M	4956

SILVER 8DD	
Code	Pitch length [mm]
600 SLV8 DD	600
608 SLV8 DD	608
632 SLV8 DD	632
640 SLV8 DD	640
680 SLV8 DD	680
720 SLV8 DD	720
760 SLV8 DD	760
800 SLV8 DD	800
840 SLV8 DD	840
880 SLV8 DD	880
896 SLV8 DD	896
920 SLV8 DD	920
960 SLV8 DD	960
1000 SLV8 DD	1000
1040 SLV8 DD	1040
1080 SLV8 DD	1080
1120 SLV8 DD	1120
1200 SLV8 DD	1200
1224 SLV8 DD	1224
1280 SLV8 DD	1280
1352 SLV8 DD	1352
1424 SLV8 DD	1424
1440 SLV8 DD	1440
1464 SLV8 DD	1464
1600 SLV8 DD	1600
1680 SLV8 DD	1680
1760 SLV8 DD	1760
1792 SLV8 DD	1792
1800 SLV8 DD	1800
1904 SLV8 DD	1904
2000 SLV8 DD	2000
2200 SLV8 DD	2200
2240 SLV8 DD	2240

SILVER 8DD	
Code	Pitch length [mm]
2272 SLV8 DD	2272
2400 SLV8 DD	2400
2520 SLV8 DD	2520
2600 SLV8 DD	2600
2800 SLV8 DD	2800
2840 SLV8 DD	2840
3048 SLV8 DD	3048
3200 SLV8 DD	3200
3280 SLV8 DD	3280
3600 SLV8 DD	3600
4000 SLV8 DD	4000
4400 SLV8 DD	4400

SILVER 2 14M	
Code	Pitch length [mm]
966 SLV14 DD	966
994 SLV14 DD	994
1092 SLV14 DD	1092
1106 SLV14 DD	1106
1120 SLV14 DD	1120
1190 SLV14 DD	1190
1260 SLV14 DD	1260
1288 SLV14 DD	1288
1344 SLV14 DD	1344
1400 SLV14 DD	1400
1442 SLV14 DD	1442
1568 SLV14 DD	1568
1610 SLV14 DD	1610
1750 SLV14 DD	1750
1764 SLV14 DD	1764
1778 SLV14 DD	1778
1848 SLV14 DD	1848
1890 SLV14 DD	1890
1904 SLV14 DD	1904
1960 SLV14 DD	1960
2100 SLV14 DD	2100
2240 SLV14 DD	2240
2310 SLV14 DD	2310
2380 SLV14 DD	2380
2450 SLV14 DD	2450
2520 SLV14 DD	2520
2590 SLV14 DD	2590
2660 SLV14 DD	2660
2800 SLV14 DD	2800
2968 SLV14 DD	2968
3136 SLV14 DD	3136
3150 SLV14 DD	3150
3304 SLV14 DD	3304
3360 SLV14 DD	3360
3500 SLV14 DD	3500
3850 SLV14 DD	3850
3920 SLV14 DD	3920
4326 SLV14 DD	4326
4410 SLV14 DD	4410
4578 SLV14 DD	4578
4956 SLV14 DD	4956

ISORAN SILVER 5

BASIC PERFORMANCE Pb IN W FOR SILVER 5 - 9 mm wide (W / 9 mm)															
d (mm)	28,65	31,83	35,01	38,20	41,38	44,56	50,93	57,30	63,66	70,03	76,39	89,13	101,86	114,59	127,32
z	18	20	22	24	26	28	32	36	40	44	48	56	64	72	80
rpm															
10	7	8	8	9	10	11	12	14	15	17	18	21	25	28	31
20	12	15	17	18	20	21	25	28	31	34	37	43	49	55	61
30	17	21	25	28	30	32	37	41	46	51	55	64	74	83	92
50	26	32	39	46	50	54	61	69	77	84	92	107	123	138	153
70	35	43	51	61	70	75	86	97	107	118	129	150	172	193	215
100	48	58	70	82	96	107	123	138	153	169	184	215	245	276	307
200	86	105	126	149	173	200	245	276	307	337	368	429	491	552	613
300	122	149	173	211	245	282	363	414	460	506	552	644	736	828	920
400	156	191	229	269	314	361	465	552	613	675	736	859	981	1104	1227
500	189	231	277	326	380	437	563	690	767	843	920	1073	1227	1380	1533
600	221	270	323	381	444	510	657	822	920	1012	1104	1288	1472	1656	1840
700	252	308	369	435	506	582	750	938	1073	1181	1288	1503	1717	1932	2146
800	283	345	413	487	567	653	841	1051	1227	1349	1472	1717	1962	2208	2453
900	313	382	457	539	627	722	930	1162	1380	1518	1656	1932	2208	2483	2759
1000	342	418	500	590	687	790	1017	1272	1533	1686	1840	2146	2453	2759	3065
1100	371	453	543	640	745	857	1104	1380	1685	1855	2024	2361	2698	3035	3372
1200	400	488	585	689	802	923	1189	1486	1815	2024	2208	2575	2943	3310	3678
1300	428	523	626	738	859	989	1273	1592	1943	2192	2391	2790	3188	3586	3984
1400	456	557	667	786	915	1053	1356	1696	2070	2361	2575	3004	3433	3861	4290
1500	484	591	707	834	971	1117	1439	1799	2196	2529	2759	3218	3678	4137	4596
1600	511	624	748	882	1026	1181	1520	1901	2321	2698	2943	3433	3923	4412	4901
1700	538	657	787	928	1080	1243	1601	2002	2444	2866	3127	3647	4167	4687	5207
1800	565	690	827	975	1135	1306	1681	2102	2566	3035	3310	3861	4412	4962	5512
1900	592	723	866	1021	1188	1367	1761	2201	2688	3203	3494	4076	4657	5237	5818
2000	618	755	905	1067	1241	1429	1840	2300	2808	3363	3678	4290	4901	5512	6123
2400	707	863	1034	1219	1419	1632	2102	2628	3208	3843	4412	5146	5879	6611	7342
2800	824	1007	1206	1422	1655	1904	2452	3065	3742	4482	5146	6001	6854	7707	8557
3000	875	1068	1279	1508	1755	2020	2601	3251	3969	4754	5512	6428	7342	8254	9164
3200	908	1109	1329	1567	1823	2098	2701	3376	4122	4937	5821	6854	7828	8800	9770
3600	1022	1248	1494	1762	2050	2359	3038	3797	4636	5552	6546	7707	8800	9891	10978
4000	1118	1365	1635	1928	2243	2581	3324	4154	5070	6073	7160	8557	9770	10978	12181
4500	1236	1509	1807	2131	2480	2853	3674	4591	5604	6712	7912	9618	10978	12331	
5000	1352	1651	1977	2331	2713	3121	4018	5021	6128	7339	8651	10676	12181		
6000	1579	1928	2309	2722	3167	3643	4690	5860	7151	8561	10090	12781			
7000	1800	2197	2631	3102	3609	4151	5342	6673	8142	9746	11484				
8000	2016	2460	2946	3172	4039	4646	5978	7465	9105	10896					
10000	2434	2970	3555	4189	4871	5601	7202								
12000	2836	3459	4139	4875	5667	6514									
14000	3224	3930	4701	5534											

BASIC PERFORMANCE IN kW FOR SILVER 2 8M - 20 mm WIDE (kW / 20 mm)

d (mm)	56,02	61,12	66,21	71,30	76,39	81,49	86,58	91,67	96,77	101,86	112,05	122,23	142,60	162,97	183,53	203,72
z	22	24	26	28	30	32	34	36	38	40	44	48	56	64	72	80
rpm																
10	0,06	0,07	0,08	0,09	0,09	0,10	0,10	0,11	0,12	0,12	0,13	0,15	0,17	0,19	0,22	0,24
20	0,11	0,13	0,15	0,17	0,18	0,19	0,21	0,22	0,23	0,24	0,27	0,29	0,34	0,39	0,44	0,49
30	0,16	0,18	0,22	0,24	0,27	0,29	0,31	0,33	0,35	0,36	0,40	0,44	0,51	0,58	0,66	0,73
50	0,26	0,29	0,35	0,39	0,43	0,47	0,51	0,55	0,58	0,61	0,67	0,73	0,85	0,97	1,09	1,22
70	0,36	0,40	0,48	0,53	0,58	0,64	0,69	0,75	0,81	0,85	0,94	1,02	1,19	1,36	1,53	1,70
100	0,49	0,56	0,66	0,73	0,81	0,88	0,96	1,04	1,12	1,20	1,34	1,46	1,70	1,95	2,19	2,43
200	0,94	1,06	1,26	1,39	1,53	1,67	1,82	1,97	2,12	2,28	2,60	2,92	3,40	3,89	4,38	4,86
300	1,36	1,53	1,83	2,02	2,22	2,43	2,64	2,86	3,08	3,31	3,77	4,25	5,10	5,83	6,56	7,29
400	1,77	2,00	2,38	2,64	2,90	3,17	3,45	3,73	4,02	4,31	4,92	5,54	6,80	7,77	8,74	9,71
500	2,18	2,46	2,92	3,24	3,56	3,89	4,23	4,58	4,93	5,29	6,04	6,81	8,42	9,71	10,92	12,13
600	2,58	2,91	3,46	3,83	4,21	4,60	5,00	5,41	5,83	6,26	7,14	7,92	9,23	10,54	11,85	13,16
700	2,97	3,35	3,98	4,41	4,85	5,30	5,77	6,24	6,72	7,21	8,23	9,23	10,76	12,29	13,81	15,32
800	3,36	3,79	4,51	4,99	5,49	6,00	6,52	7,05	7,60	8,15	9,30	10,48	12,29	14,02	15,76	17,48
900	3,74	4,22	5,02	5,56	6,11	6,68	7,26	7,86	8,47	9,08	10,36	11,67	13,81	15,76	17,69	19,62
1000	4,12	4,65	5,53	6,12	6,74	7,36	8,00	8,66	9,32	10,00	11,40	12,85	15,32	17,48	19,62	21,75
1100	4,50	5,07	6,04	6,68	7,35	8,03	8,73	9,44	10,17	10,92	12,44	14,02	16,83	19,19	21,54	23,86
1200	4,87	5,49	6,54	7,24	7,96	8,70	9,45	10,23	11,01	11,82	13,47	15,17	18,34	20,90	23,44	25,95
1300	5,25	5,91	7,04	7,79	8,56	9,36	10,17	11,00	11,85	12,71	14,48	16,31	19,83	22,59	25,32	28,02
1400	5,61	6,33	7,53	8,34	9,16	10,01	10,88	11,77	12,67	13,60	15,49	17,44	21,32	24,28	27,20	30,07
1500	5,98	6,74	8,02	8,88	9,76	10,66	11,59	12,53	13,49	14,47	16,48	18,56	22,80	25,95	29,05	32,10
1600	6,34	7,15	8,51	9,42	10,35	11,31	12,29	13,29	14,30	15,34	17,47	19,67	24,24	27,61	30,88	34,10
1700	6,71	7,56	8,99	9,95	10,94	11,95	12,98	14,03	15,11	16,20	18,45	20,76	25,58	29,25	32,70	36,07
1800	7,07	7,96	9,47	10,48	11,52	12,58	13,67	14,78	15,91	17,06	19,42	21,85	26,90	30,88	34,50	38,02
1900	7,42	8,36	9,95	11,01	12,10	13,21	14,35	15,51	16,70	17,90	20,38	22,92	28,21	32,50	36,27	39,94
2000	7,78	8,76	10,42	11,53	12,67	13,84	15,03	16,24	17,48	18,74	21,32	23,98	29,50	34,10	38,02	41,82
2500	10,54	11,86	14,11	15,59	17,12	18,67	20,26	21,87	23,51	25,17	28,57	32,04	39,17	46,20	51,04	55,55
3000	10,95	12,32	14,64	16,18	17,76	19,37	21,01	22,68	24,38	26,10	29,60	33,18	40,51	47,90	52,82	
3500	12,86	14,45	17,17	18,97	20,79	22,65	24,55	26,46	28,41	30,37	34,35	38,40	46,59	54,83		
4000	14,45	16,23	19,28	21,27	23,29	25,35	27,43	29,54	31,66	33,81	38,14	42,49	51,21			
4500	15,99	17,94	21,30	23,47	25,67	27,90	30,15	32,42	34,70	37,00	41,59	46,17				
5000	17,48	19,59	23,24	25,57	27,93	30,31	32,70	35,10	37,51	39,91	44,69					
5500	18,92	21,16	25,08	27,56	30,05	32,56	35,06	37,57	40,06	42,54						

ISORAN SILVER 2 14M

BASIC PERFORMANCE IN kW FOR SILVER 2 14M - 40 mm WIDE (kW / 40 mm)																	
d (mm)	124,78	129,23	133,69	142,60	151,52	160,43	169,34	178,25	196,08	213,90	231,73	249,55	267,38	285,21	303,03	320,86	356,51
z	28	29	30	32	34	36	38	40	44	48	52	56	60	64	68	72	80
rpm																	
10	0,42	0,44	0,46	0,49	0,52	0,55	0,58	0,61	0,67	0,73	0,79	0,85	0,91	0,97	1,03	1,09	1,21
20	0,85	0,88	0,91	0,97	1,03	1,09	1,15	1,21	1,33	1,46	1,58	1,70	1,82	1,94	2,06	2,18	2,43
30	1,24	1,29	1,34	1,45	1,55	1,64	1,73	1,82	2,00	2,18	2,37	2,55	2,73	2,91	3,09	3,28	3,64
50	1,95	2,03	2,12	2,28	2,45	2,62	2,80	2,97	3,32	3,64	3,94	4,25	4,55	4,85	5,16	5,46	6,07
70	2,63	2,74	2,85	3,08	3,30	3,54	3,77	4,00	4,48	4,96	5,46	5,94	6,37	6,79	7,22	7,64	8,49
100	3,61	3,76	3,91	4,22	4,53	4,85	5,17	5,49	6,15	6,81	7,49	8,17	8,86	9,56	10,27	10,92	12,13
200	6,67	6,95	7,23	7,81	8,38	8,97	9,56	10,16	11,36	12,59	13,84	15,10	16,38	17,68	18,99	20,31	22,99
300	9,55	9,96	10,36	11,18	12,01	12,85	13,69	14,55	16,28	18,03	19,82	21,62	23,45	25,30	27,18	29,07	32,90
400	12,33	12,85	13,37	14,43	15,49	16,57	17,66	18,76	20,99	23,26	25,55	27,88	30,23	32,61	35,02	37,45	42,37
500	15,02	15,65	16,29	17,57	18,87	20,19	21,51	22,85	25,56	28,31	31,10	33,93	36,79	39,68	42,59	45,54	51,50
600	17,64	18,39	19,14	20,65	22,17	23,71	25,27	26,84	30,01	33,24	36,50	39,81	43,15	46,53	49,94	53,37	60,32
700	20,72	21,60	22,48	24,25	26,03	27,84	29,66	31,50	35,22	38,99	42,81	46,67	50,57	54,51	58,47	62,47	70,54
800	22,74	23,70	24,66	26,60	28,56	30,54	32,53	34,55	38,62	42,74	46,91	51,13	55,39	59,68	64,01	68,36	77,13
900	25,22	26,28	27,35	29,50	31,67	33,86	36,06	38,29	42,79	47,34	51,94	56,59	61,28	66,00	70,75	75,52	85,12
1000	27,67	28,83	30,00	32,35	34,72	37,12	39,53	41,96	46,87	51,84	56,86	61,92	67,02	72,14	77,29	82,46	92,83
1100	30,08	31,34	32,60	35,15	37,73	40,32	42,93	45,57	50,88	56,25	61,67	67,12	72,61	78,12	83,65	89,18	100,27
1200	32,45	33,81	35,17	37,91	40,68	43,47	46,28	49,11	54,81	60,57	66,37	72,20	78,05	83,93	89,80	95,68	107,40
1300	34,79	36,24	37,70	40,64	43,59	46,57	49,57	52,59	58,67	64,80	70,96	77,15	83,35	89,55	95,75	101,94	114,24
1400	37,10	38,65	40,20	43,32	46,46	49,63	52,81	56,01	62,45	68,93	75,44	81,96	88,49	95,00	101,50	107,96	120,76
1460	38,48	40,07	41,68	44,91	48,16	51,43	54,72	58,03	64,68	71,37	78,07	84,79	91,49	98,18	104,84	111,46	124,52
1600	41,63	43,36	45,09	48,56	52,06	55,58	59,11	62,66	69,78	76,92	84,06	91,19	98,29	105,34	112,33	119,25	132,80
1700	43,86	45,66	47,48	51,13	54,80	58,48	62,18	65,89	73,33	80,77	88,20	95,59	102,94	110,21	117,40	124,49	
1800	46,05	47,94	49,84	53,65	57,49	61,33	65,19	69,06	76,79	84,52	92,22	99,85	107,42	114,88	122,24	129,45	
1900	48,21	50,19	52,17	56,14	60,13	64,14	68,15	72,16	80,18	88,17	96,72	103,97	111,72	119,34	126,82		
2000	50,34	52,40	54,46	58,59	62,74	66,89	71,04	75,20	83,49	91,72	99,88	107,93	115,84	123,59			
2400	58,59	60,94	63,29	67,99	72,69	77,37	82,03	86,67	95,85	104,84	113,62						
2800	66,36	68,96	71,56	76,73	81,88	86,97	92,01	96,99	106,72								
2920	68,59	71,26	73,92	79,22	84,47	89,67	94,79	99,84	109,67								
3000	70,05	72,77	75,47	80,85	86,16	91,42	96,59	101,68	111,55								
3500	78,72	81,66	84,57	90,31	95,93	101,42											
4000	86,52	89,58	92,61	98,52													
4500	93,35	96,46															



ISORAN GOLD

ISORAN GOLD

Megadyne Isoran Gold belts have been developed to give a more powerful alternative to RPP and Silver belts to compete against high performance transmission systems using chains and gears, that always have a disadvantage in terms of weight, noise, lubrication and maintenance costs.

As for Isoran Silver, Isoran Gold can be used to improve and easily upgrade already existing drives working with both Isoran RPP and Isoran Silver. Also here, we always suggest to check that every other transmission component can bare the increased transmitted power, especially if you are going to replace an Isoran RPP, because of the wide power upgrade. GOLD timing belts offer to designers:

- Increased performance compared to Isoran RPP and to Isoran Silver.
- The possibility to keep using the same RPP pulleys.

Isoran GOLD belts have two nylon plies on the tooth to:

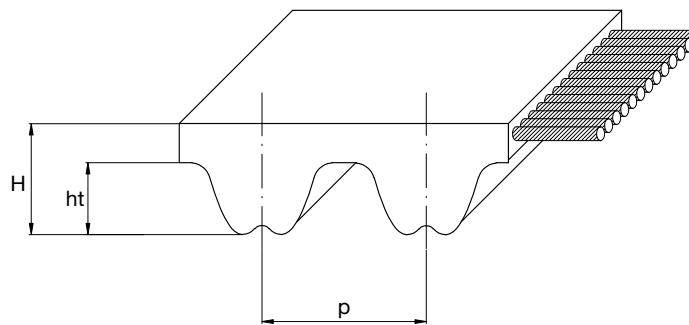
- Improve belt resistance to wearing;
- Reduce friction and noise levels.

Because of these features, replacing an Isoran RPP or an Isoran Silver with an Isoran Gold can allow:

- To reduce belt width thanks to the higher power rate; this allows also to reduce the required pulley width. They both lead to a significant transmission weight reduction.
- To reduce the pulley dimension thanks to the higher power rate; this leads to a lower belt linear speed and to the consequent noise reduction.

Gold belts have RPP profile, designed even to be interchangeable with existing deep groove profiles and run on pulleys according to ISO 13050.

Isoran Gold belts are antistatic according to ISO 9563



Pitch		GOLD8	GOLD14
Pitch length (mm)	p	8	14
Teeth height (mm)	ht	3,20	6,00
Belt height (mm)	H	5,40	9,70

Resistance to:	Standard belt resistance
Water	Medium
Acids / Alkalies	None
Solvents	None
Mineral oils	Low
Oils	Low
Greases	Medium
Fuels	None
Environmental agents	Medium

Other features	
Temperature range	Min: -25 °C
	Max: 80 °C
	Max peak: 100 °C
Hardness	90 +/-4 ShA
Antistatic	According to ISO 9563

STANDARD TOLERANCES

Width tolerances				
Belt width (mm)		Tolerance on belt width		
		Belt length (mm)		
More than	Up to	Up to 838	More than 838 up to 1676	More than 1676
-	11,1	+0,5 -0,8	+0,5 -0,8	-
11,1	38,1	±0,8	+0,8 -1,3	+0,8 -1,3
38,1	50,8	+0,8 -1,3	±1,3	+1,3 -1,5
50,8	76,2	+1,3 -1,5	±1,5	+1,5 -2,0
76,2	170,0	+1,3 -1,5	+1,3 -2,0	±2,0

Length tolerances			
Belt length [mm]		Tolerance [mm]	Centre distance tolerance [mm]
More than	Up to		
254	381	±0,45	±0,225
381	508	±0,50	±0,250
508	762	±0,60	±0,300
762	991	±0,65	±0,325
991	1,220	±0,75	±0,375
1,220	1,524	±0,80	±0,400
1,524	1,778	±0,85	±0,425
1,778	2,032	±0,90	±0,450
2,032	2,286	±0,95	±0,475
over 2,286		$\pm [0,95 + \left(\frac{L - 2286}{254} \cdot 0,03 \right)]$	$\pm [0,475 + \left(\frac{L - 2286}{254} \cdot 0,015 \right)]$

For specific application where you might require different tolerances, please contact our Application Department.

Thickness tolerances				
Pitch	Nominal belt thickness (mm)	Tolerance degree [mm]		
		Standard belt	Grade 2	Grade 1
RPP8	5,40	±0,60	±0,25	±0,15
RPP14	9,70	±0,60	±0,25	±0,15

STANDARD WIDTHS												
Pitch	Belt widths											
	6	9	15	20	25	30	40	50	55	85	115	170
RPP3	•	•	•									
RPP5 / RPP5 DD		•	•		•							
RPP8 / RPP8 DD				•		•		•		•		
RPP14 / RPP14 DD							•		•	•	•	•

RANGE

GOLD8		GOLD14	
Code	Pitch length [mm]	Code	Pitch length [mm]
248 GLD8	248	966 GLD14	966
288 GLD8	288	994 GLD14	994
320 GLD8	320	1092 GLD14	1092
352 GLD8	352	1106 GLD14	1106
360 GLD8	360	1120 GLD14	1120
376 GLD8	376	1190 GLD14	1190
384 GLD8	384	1260 GLD14	1260
408 GLD8	408	1288 GLD14	1288
416 GLD8	416	1344 GLD14	1344
424 GLD8	424	1400 GLD14	1400
456 GLD8	456	1442 GLD14	1442
480 GLD8	480	1512 GLD14	1512
536 GLD8	536	1568 GLD14	1568
544 GLD8	544	1610 GLD14	1610
560 GLD8	560	1750 GLD14	1750
600 GLD8	600	1764 GLD14	1764
608 GLD8	608	1778 GLD14	1778
632 GLD8	632	1848 GLD14	1848
640 GLD8	640	1890 GLD14	1890
680 GLD8	680	1904 GLD14	1904
720 GLD8	720	1960 GLD14	1960
760 GLD8	760	2100 GLD14	2100
800 GLD8	800	2240 GLD14	2240
840 GLD8	840	2310 GLD14	2310
880 GLD8	880	2380 GLD14	2380
896 GLD8	896	2450 GLD14	2450
920 GLD8	920	2520 GLD14	2520
960 GLD8	960	2590 GLD14	2590
1000 GLD8	1000	2660 GLD14	2660
1040 GLD8	1040	2800 GLD14	2800
1080 GLD8	1080	2968 GLD14	2968
1120 GLD8	1120	3136 GLD14	3136
1160 GLD8	1160	3150 GLD14	3150
1200 GLD8	1200	3304 GLD14	3304
1224 GLD8	1224	3360 GLD14	3360
1280 GLD8	1280	3500 GLD14	3500
1352 GLD8	1352	3850 GLD14	3850
1424 GLD8	1424	3920 GLD14	3920
1440 GLD8	1440	4326 GLD14	4326
1464 GLD8	1464	4410 GLD14	4410
1600 GLD8	1600	4578 GLD14	4578
1680 GLD8	1680	4956 GLD14	4956
1760 GLD8	1760		
1792 GLD8	1792		
1800 GLD8	1800		
1904 GLD8	1904		
2000 GLD8	2000		
2200 GLD8	2200		
2240 GLD8	2240		
2272 GLD8	2272		
2400 GLD8	2400		
2520 GLD8	2520		
2600 GLD8	2600		
2800 GLD8	2800		
2840 GLD8	2840		
3048 GLD8	3048		
3200 GLD8	3200		
3280 GLD8	3280		
3600 GLD8	3600		
4000 GLD8	4000		
4400 GLD8	4400		

BASIC PERFORMANCE IN Kw FOR GOLD8 - 20 mm WIDE (kW / 20 mm)																
d (mm)	56,02	61,12	66,21	71,30	76,39	81,49	86,58	91,67	96,77	101,86	112,05	122,23	142,60	162,97	183,35	203,72
z	22	24	26	28	30	32	34	36	38	40	44	48	56	64	72	80
rpm																
10	0,10	0,11	0,12	0,13	0,14	0,15	0,16	0,17	0,18	0,19	0,21	0,22	0,26	0,30	0,34	0,37
20	0,18	0,20	0,22	0,24	0,25	0,27	0,29	0,31	0,33	0,35	0,39	0,43	0,51	0,60	0,67	0,75
30	0,26	0,28	0,31	0,34	0,36	0,39	0,42	0,45	0,48	0,50	0,56	0,62	0,74	0,85	0,98	1,10
50	0,40	0,45	0,49	0,53	0,57	0,62	0,66	0,70	0,75	0,79	0,88	0,97	1,16	1,34	1,53	1,73
70	0,54	0,60	0,66	0,71	0,77	0,83	0,89	0,95	1,01	1,07	1,19	1,31	1,56	1,81	2,07	2,33
100	0,75	0,82	0,90	0,98	1,06	1,14	1,22	1,30	1,38	1,46	1,63	1,79	2,13	2,48	2,83	3,19
200	1,38	1,52	1,66	1,81	1,95	2,10	2,25	2,40	2,55	2,70	3,00	3,31	3,94	4,58	5,23	5,89
300	1,97	2,18	2,38	2,59	2,80	3,01	3,22	3,43	3,65	3,86	4,30	4,74	5,64	6,56	7,48	8,43
400	2,54	2,81	3,07	3,34	3,61	3,88	4,15	4,43	4,70	4,98	5,55	6,12	7,28	8,46	9,65	10,86
500	3,10	3,42	3,74	4,07	4,39	4,72	5,06	5,39	5,73	6,07	6,76	7,45	8,86	10,30	11,75	13,23
600	3,64	4,02	4,40	4,78	5,16	5,55	5,94	6,34	6,73	7,13	7,94	8,76	10,41	12,10	13,81	15,54
700	4,17	4,60	5,04	5,47	5,92	6,36	6,81	7,26	7,72	8,18	9,10	10,03	11,93	13,86	15,81	17,80
800	4,70	5,18	5,67	6,16	6,66	7,16	7,66	8,17	8,68	9,20	10,24	11,29	13,42	15,59	17,79	20,01
900	5,21	5,75	6,29	6,84	7,39	7,94	8,50	9,07	9,64	10,21	11,36	12,52	14,89	17,29	19,72	22,19
1000	5,72	6,31	6,90	7,50	8,11	8,72	9,33	9,95	10,57	11,20	12,46	13,74	16,33	18,97	21,63	24,33
1100	6,23	6,86	7,51	8,16	8,82	9,48	10,15	10,82	11,50	12,18	13,56	14,94	17,76	20,62	23,51	26,44
1200	6,72	7,41	8,11	8,81	9,52	10,24	10,96	11,69	12,42	13,15	14,63	16,13	19,17	22,25	25,37	28,52
1300	7,22	7,96	8,70	9,46	10,22	10,99	11,76	12,54	13,32	14,11	15,70	17,31	20,56	23,86	27,20	30,57
1400	7,70	8,49	9,29	10,10	10,91	11,73	12,56	13,39	14,22	15,06	16,76	18,47	21,93	25,45	29,00	32,58
1500	8,19	9,03	9,88	10,73	11,60	12,47	13,34	14,22	15,11	16,00	17,80	19,62	23,29	27,02	30,78	34,57
1600	8,67	9,56	10,45	11,36	12,27	13,19	14,12	15,05	15,99	16,93	18,84	20,76	24,64	28,57	32,54	36,54
1700	9,14	10,08	11,03	11,98	12,95	13,92	14,89	15,88	16,86	17,86	19,86	21,88	25,97	30,11	34,28	38,47
1800	9,62	10,60	11,60	12,60	13,61	14,63	15,66	16,69	17,73	18,77	20,88	23,00	27,29	31,62	35,99	40,38
1900	10,08	11,12	12,16	13,21	14,27	15,34	16,42	17,50	18,59	19,68	21,88	24,11	28,59	33,12	37,68	42,26
2000	10,55	11,63	12,72	13,82	14,93	16,05	17,17	18,30	19,44	20,58	22,88	25,20	29,88	34,60	39,35	44,11
2500	12,84	14,15	15,47	16,81	18,15	19,50	20,86	22,23	23,60	24,98	27,75	30,53	36,14	41,76	47,37	52,96
3000	15,06	16,60	18,14	19,70	21,27	22,84	24,43	26,01	27,61	29,21	32,41	35,63	42,07	48,48	54,83	
3500	17,23	18,98	20,74	22,51	24,29	26,08	27,87	29,67	31,47	33,28	36,89	40,49	47,67	54,75		
4000	19,35	21,30	23,27	25,25	27,23	29,22	31,21	33,20	35,20	37,19	41,16	45,12	52,93			
4500	21,42	23,57	25,73	27,90	30,08	32,25	34,43	36,60	38,77	40,94	45,24	49,50				
5000	23,44	25,78	28,13	30,49	32,84	35,19	37,54	39,88	42,21	44,52	49,11					

ISORAN GOLD14

BASIC PERFORMANCE IN kW FOR GOLD14 - 40 mm WIDE (kW / 40 mm)																	
d (mm)	124,78	129,23	133,69	142,6	151,52	160,43	169,34	178,25	196,08	213,9	231,73	249,55	267,38	285,21	303,03	320,86	356,51
z	28	29	30	32	34	36	38	40	44	48	52	56	60	64	68	72	80
rpm																	
10	0,75	0,78	0,81	0,86	0,91	0,97	1,02	1,07	1,18	1,29	1,40	1,50	1,61	1,72	1,82	1,93	2,15
20	1,44	1,50	1,56	1,67	1,79	1,91	2,03	2,15	2,36	2,58	2,79	3,01	3,22	3,43	3,65	3,86	4,29
30	2,07	2,16	2,24	2,41	2,58	2,75	2,92	3,10	3,45	3,80	4,16	4,51	4,83	5,15	5,47	5,80	6,44
50	3,28	3,42	3,55	3,82	4,09	4,36	4,63	4,90	5,46	6,02	6,59	7,16	7,74	8,32	8,91	9,50	10,70
70	4,44	4,62	4,80	5,17	5,53	5,90	6,27	6,64	7,39	8,15	8,92	9,69	10,48	11,27	12,06	12,86	14,48
100	6,13	6,37	6,62	7,12	7,62	8,13	8,64	9,15	10,19	11,24	12,29	13,36	14,44	15,53	16,62	17,73	19,96
200	11,43	11,89	12,36	13,29	14,22	15,17	16,12	17,08	19,01	20,96	22,94	24,93	26,94	28,97	31,01	33,07	37,23
300	16,47	17,13	17,80	19,13	20,48	21,84	23,21	24,59	27,37	30,19	33,03	35,90	38,79	41,71	44,65	47,61	53,58
400	21,33	22,19	23,05	24,78	26,53	28,29	30,07	31,85	35,45	39,09	42,77	46,48	50,22	53,99	57,79	61,62	69,34
500	26,07	27,12	28,17	30,29	32,42	34,58	36,74	38,92	43,31	47,76	52,25	56,77	61,34	65,94	70,57	75,23	84,64
600	30,71	31,94	33,18	35,68	38,19	40,72	43,27	45,84	51,01	56,24	61,51	66,84	72,20	77,61	83,05	88,52	99,56
700	35,27	36,69	38,11	40,97	43,86	46,76	49,69	52,63	58,56	64,55	70,60	76,70	82,84	89,03	95,25	101,51	114,12
800	39,76	41,36	42,96	46,18	49,43	52,70	55,99	59,31	65,98	72,72	79,52	86,38	93,28	100,23	107,21	114,23	128,37
900	44,19	45,96	47,74	51,32	54,93	58,56	62,21	65,89	73,29	80,76	88,30	95,89	103,54	111,22	118,94	126,70	142,30
1000	48,56	50,51	52,46	56,39	60,35	64,34	68,34	72,37	80,49	88,69	96,94	105,25	113,61	122,02	130,45	138,92	155,94
1100	52,88	55,00	57,13	61,40	65,71	70,04	74,40	78,78	87,60	96,49	105,45	114,46	123,52	132,62	141,75	150,90	169,27
1200	57,16	59,44	61,74	66,36	71,00	75,68	80,38	85,10	94,61	104,19	113,83	123,53	133,26	143,03	152,83	162,64	182,30
1300	61,39	63,84	66,31	71,26	76,24	81,25	86,28	91,34	101,52	111,78	122,09	132,45	142,84	153,26	163,70	174,14	195,02
1400	65,58	68,20	70,82	76,10	81,42	86,76	92,12	97,51	108,35	119,26	130,22	141,23	152,25	163,30	174,35	185,39	207,43
1500	69,73	72,51	75,30	80,90	86,54	92,21	97,90	103,61	115,10	126,64	138,24	149,86	161,50	173,15	184,78	196,40	219,52
1600	73,84	76,78	79,73	85,65	91,61	97,60	103,61	109,64	121,75	133,92	146,13	158,36	170,59	182,80	195,00	207,15	231,29
1700	77,91	81,01	84,12	90,36	96,63	102,93	109,25	115,59	128,32	141,10	153,90	166,71	179,50	192,27	204,98	217,64	
1800	81,95	85,20	88,47	95,02	101,60	108,20	114,83	121,48	134,81	148,17	161,55	174,91	188,25	201,53	214,74		
1900	85,95	89,36	92,78	99,63	106,52	113,42	120,35	127,29	141,21	155,14	169,07	182,97	196,82	210,59			
2000	89,92	93,48	97,05	104,20	111,38	118,59	125,81	133,04	147,52	162,01	176,47	190,88	205,21	219,44			
2500	109,27	113,54	117,82	126,39	134,98	143,56	152,14	160,71	177,78	194,73							
3000	127,78	132,71	137,64	147,49	157,31	167,10	176,85	186,54									
3500	145,46	150,98	156,48	167,44	178,33	183,13											
4000	162,27	168,30	174,30	186,19													
4500	178,17																

SPECIAL EXECUTION FEASIBILITY

Megadyne can make special execution on customer's request to improve belt properties and to better suit to special applications.

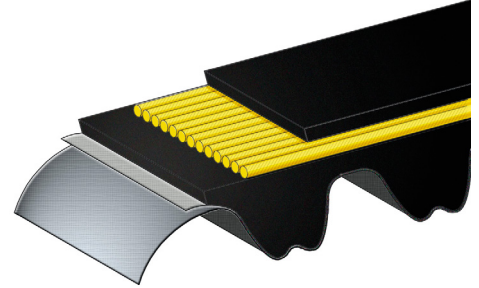
SUPER

On customer's request and with minimum quantity Megadyne can produce Isoran, Isoran RPP and Isoran Silver with a double nylon fabric on the tooth surface to improve torque carrying capacity. Isoran Gold has already two nylon fabric plies.

The advantages of this solution are:

- Exceptional resistance to abrasion
- Low coefficient of friction
- Increased drive efficiency
- Increased belt and pulley life.

This solution will increase the belt performances by a 10%.



ANTISTATIC

On customer's request and with minimum quantity Megadyne can produce Isoran L, H, RPP5 and RPP8 in antistatic version according to ISO 9563. We remind that Isoran Silver and Isoran Gold already comply ISO 9563.

For very severe applications, Megadyne can also produce super-conductive belts overcoming ISO 9563 parameters.

HIGH TEMPERATURE

On customer's request and with minimum quantity Megadyne can produce special belts to work up to 130°C. Please check with our Application Department for advice or for even more severe requirement.

SPECIAL COMPOUNDS

On customer's request and with minimum quantity Megadyne can also manufacture belts to stand to specific chemicals or environments as acids, oils, solvents, etc. Please check with our Application Department for guidance.

LOW NOISE

On customer's request and with minimum quantity Megadyne can produce soft compounded belts (60 ±3 ShA) to reduce noise level. In this case, belt's performance will decrease by a 10% compared to an Isoran or an Isoran RPP.

SPECIAL BRANDING

On customer's request and with minimum quantity Megadyne can brand the belts with special branding.

SPECIAL PACKAGING

On customer's request and with minimum quantity Megadyne can package the belts following special customer's indications.

PAINTING

For painting applications (as automotive painting shop) Megadyne suggest to use Megapaint, special suited and developed for this kind of application. Belts are available in RPP8 pitch and have the same performance of SILVER 2 8M. For further information, please check in Megapaint brochure or contact Megadyne's Application Department.

USEFUL FORMULAS AND CONVERSION TABLE

SPEED

V: peripheral speed [m/s]	$V = \frac{d_1 \cdot n_1}{19100}$	$n_1 = \frac{V \cdot 19100}{d_1}$	$d_1 = \frac{V \cdot 19100}{n_1}$
n_1 : rotation speed [RPM]			
d_1 : pulley diameter [mm]			

FORCES AND TORQUE

F_u : peripheral force [N]	$F_u = \frac{19,1 \cdot 10^6 \cdot P}{d_1 \cdot n_1}$	$F_u = \frac{2000 \cdot M}{d_1}$	$F_u = \frac{P \cdot 10^3}{d_1}$
M_t : drive torque [Nm]			
P: power [kW]			
n_1 : rotation speed [RPM]			
d_1 : pulley diameter [mm]			
V: peripheral speed [m/s]	$M_t = \frac{P \cdot 9550}{n_1}$	$M_t = \frac{F_u \cdot d_1}{2000}$	$M_t = \frac{P \cdot d_1}{2 \cdot V}$

SPEED

P: power [kW]	$P = \frac{F_u \cdot d_1 \cdot n_1}{19,1 \cdot 10^6}$	$P = \frac{M_t \cdot n_1}{9550}$	$P = \frac{F_u \cdot V}{1000}$
F_u : peripheral force [N]			
M_t : drive torque [Nm]			
n_1 : rotation speed [RPM]			
d_1 : pulley diameter [mm]			

To convert from	To	Multiply by
CV	HP	0,9863201
CV	kcal/h	63,24151
CV	W	735,4988
CV	kW	0,7354988
CV	kgf $\leftrightarrow$ m/s	75
CV	lbf $\leftrightarrow$ ft/s	542,476
HP	CV	1,01387
HP	kcal/h	641,1865
HP	W	745,6999
HP	kW	0,7456999
HP	kgf $\leftrightarrow$ m/s	76,04022
HP	lbf $\leftrightarrow$ ft/s	550
in	m	0,0254
in	cm	2,54
in	mm	25,4
in	ft	0,083
in ²	m ²	0,00064516
in ²	cm ²	6,4516
in ²	mm ²	645,16
in ²	ft ²	0,006944444
in ³	m ³	1,63871·10 ⁻⁵
in ³	cm ³	16,38706
in ³	mm ³	16387,06
in ³	ft ³	0,000578704

To convert from	To	Multiply by
J	CV $\leftrightarrow$ h	3,77673·10 ⁻⁷
J	HP $\leftrightarrow$ h	3,72506·10 ⁻⁷
J	kWh	2,77778·10 ⁻⁷
kg	lb	2,204623
kgf	N	9,80665
kgf	lbf	2,204623
kgf $\leftrightarrow$ m/s	CV	0,01333333
kgf $\leftrightarrow$ m/s	W	9,80665
kgf $\leftrightarrow$ m/s	kW	0,00980665
kW	CV	1,359622
kW	kcal/h	859,8452
kW	W	1000
kW	kgf $\leftrightarrow$ m/s	101,9716
kW	lbf $\leftrightarrow$ ft/s	737,5621
lb	kg	0,4535924
lb	kgf	0,4535924
lb	N	4,448222
N	kgf	0,1019716
N	lbf	0,2248089
W	CV	0,001359622
W	HP	0,001341022
W	kcal/h	0,8598452
W	kW	0,001
W	kgf $\leftrightarrow$ m/s	0,1019716
W	lbf $\leftrightarrow$ ft/s	0,7375621