



MEGADYNE MEGASYNC™

GOLD2

# MEGADYNE MEGASYNC™

## GOLD2



Gold2 belts have RPC profile, designed even to be interchangeable with existing deep toothed profile, which include HTB, RPP profiles and run on pulleys according to ISO 13050. MEGASYNC™ Gold2 belts are antistatic according to ISO 9563.

Megadyne MEGASYNC™ Gold2 belts have been developed to give a more powerful alternative to RPP and Silver3 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.

MEGASYNC™ Gold3 can be used to improve and easily upgrade already existing drives working with both MEGASYNC™ RPP and MEGASYNC™ Silver. Also, we always suggest to check that every other transmission component can withstand the increased transmitted power, especially if you are going to replace a MEGASYNC™ RPP, because of the wide power upgrade.

The design of Gold2 timing belts offer:

- Increased performance compared to MEGASYNC™ RPP and to MEGASYNC™ Silver3
- The possibility to keep using the same RPP pulleys.

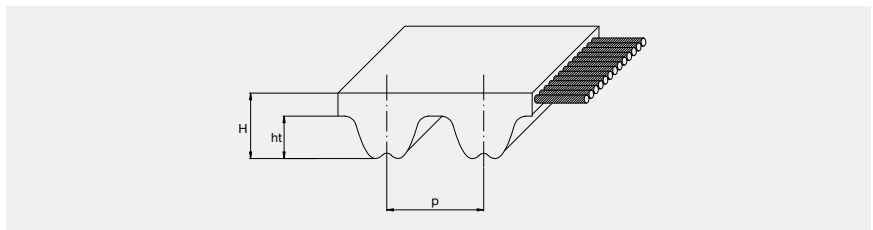
MEGASYNC™ Gold2 14M belts have two nylon plies on the teeth to:

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

Because of these features, replacing an MEGASYNC™ RPP or Silver3 with an MEGASYNC™ Gold2 can:

- 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
- Reduce the pulley diameters thanks to the higher power rate; this leads to a lower belt linear speed and to the consequent noise reduction.

### GOLD2



PITCH		GOLD2 5M	GOLD2 8M	GOLD2 14M
Pitch length (mm)	p	5,00	8,00	14,00
Teeth height (mm)	ht	2,00	3,20	6,00
Belt height (mm)	H	3,80	5,40	9,70

#### RESISTANCE TO: STD BELT RESISTANCE

Water	<b>Medium</b>
Acids / Alkalis	<b>None</b>
Solvents	<b>None</b>
Mineral oils	<b>Low</b>
Oils	<b>Low</b>
Greases	<b>Medium</b>
Fuels	<b>None</b>
Environmental agents	<b>Medium</b>

#### OTHER FEATURES

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



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## GOLD2

### 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
-	11,10	+0,5 / -0,8	+0,5 / 0,8	-
11,10	38,10	±0,8	+0,8 / -1,3	+0,8 / -1,3
38,10	50,80	+0,8 / -1,3	±1,3	+1,3 / -1,5
50,80	76,20	+1,3 / -1,5	±1,5	+1,5 / -2,0
76,20	170,00	+1,3 / -1,5	+1,3 / -2,0	±2,0

LENGTH TOLERANCES			
BELT LENGTH (mm)		TOLERANCE (mm)	CENTER 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		$\pm \left[ 0,95 + \left( \frac{L - 2286}{254} \cdot 0,03 \right) \right]$	$\pm \left[ 0,475 + \left( \frac{L - 2286}{254} \cdot 0,015 \right) \right]$

THICKNESS TOLERANCES				
PITCH	NOMINAL BELT THICKNESS (mm)	TOLERANCE DEGREE (mm)		
		STANDARD BELT	GRADE 2	GRADE 1
GLD2 5M	3,80	±0,60	±0,25	±0,15
GLD2 8M	5,40	±0,60	±0,25	±0,15
GLD2 14M	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)										
	9	15	20	25	30	40	50	55	85	115	170
GLD2 5M	•	•		•							
GLD2 8M			•		•		•		•		
GLD2 14M						•		•	•	•	•



# MEGADYNE MEGASYNC™

## GOLD2 RANGE

### GOLD2 5M

CODE	PITCH LENGTH (mm)
180 GLD2 5M	180
225 GLD2 5M	225
235 GLD2 5M	235
245 GLD2 5M	245
255 GLD2 5M	255
265 GLD2 5M	265
270 GLD2 5M	270
280 GLD2 5M	280
285 GLD2 5M	285
295 GLD2 5M	295
300 GLD2 5M	300
305 GLD2 5M	305
325 GLD2 5M	325
330 GLD2 5M	330
345 GLD2 5M	345
350 GLD2 5M	350
375 GLD2 5M	375
400 GLD2 5M	400
420 GLD2 5M	420
425 GLD2 5M	425
450 GLD2 5M	450
455 GLD2 5M	455
460 GLD2 5M	460
465 GLD2 5M	465
475 GLD2 5M	475
500 GLD2 5M	500
525 GLD2 5M	525
535 GLD2 5M	535
565 GLD2 5M	565
575 GLD2 5M	575
580 GLD2 5M	580
600 GLD2 5M	600
610 GLD2 5M	610
615 GLD2 5M	615
635 GLD2 5M	635
640 GLD2 5M	640
650 GLD2 5M	650
670 GLD2 5M	670
675 GLD2 5M	675
700 GLD2 5M	700
705 GLD2 5M	705
710 GLD2 5M	710
725 GLD2 5M	725
740 GLD2 5M	740
750 GLD2 5M	750
755 GLD2 5M	755
800 GLD2 5M	800
835 GLD2 5M	835
850 GLD2 5M	850
890 GLD2 5M	890
900 GLD2 5M	900
935 GLD2 5M	935
940 GLD2 5M	940
950 GLD2 5M	950
980 GLD2 5M	980
1000 GLD2 5M	1000
1025 GLD2 5M	1025
1050 GLD2 5M	1050
1100 GLD2 5M	1100
1125 GLD2 5M	1125
1135 GLD2 5M	1135
1195 GLD2 5M	1195

### GOLD2 5M

CODE	PITCH LENGTH (mm)
1200 GLD2 5M	1200
1240 GLD2 5M	1240
1270 GLD2 5M	1270
1420 GLD2 5M	1420
1500 GLD2 5M	1500
1595 GLD2 5M	1595
1605 GLD2 5M	1605
1690 GLD2 5M	1690
1790 GLD2 5M	1790
1800 GLD2 5M	1800
1870 GLD2 5M	1870
1895 GLD2 5M	1895
1945 GLD2 5M	1945
2000 GLD2 5M	2000
2250 GLD2 5M	2250
2350 GLD2 5M	2350
2525 GLD2 5M	2525

### GOLD2 8M

CODE	PITCH LENGTH (mm)
248 GLD2 8M	248
288 GLD2 8M	288
320 GLD2 8M	320
352 GLD2 8M	352
360 GLD2 8M	360
376 GLD2 8M	376
384 GLD2 8M	384
408 GLD2 8M	408
416 GLD2 8M	416
424 GLD2 8M	424
456 GLD2 8M	456
480 GLD2 8M	480
536 GLD2 8M	536
544 GLD2 8M	544
560 GLD2 8M	560
600 GLD2 8M	600
608 GLD2 8M	608
632 GLD2 8M	632
640 GLD2 8M	640
680 GLD2 8M	680
720 GLD2 8M	720
760 GLD2 8M	760
800 GLD2 8M	800
840 GLD2 8M	840
880 GLD2 8M	880
896 GLD2 8M	896
920 GLD2 8M	920
960 GLD2 8M	960
976 GLD2 8M	976
1000 GLD2 8M	1000
1040 GLD2 8M	1040
1064 GLD2 8M	1064
1080 GLD2 8M	1080
1120 GLD2 8M	1120
1160 GLD2 8M	1160
1200 GLD2 8M	1200
1224 GLD2 8M	1224
1280 GLD2 8M	1280
1352 GLD2 8M	1352

### GOLD2 8M

CODE	PITCH LENGTH (mm)
1424 GLD2 8M	1424
1440 GLD2 8M	1440
1464 GLD2 8M	1464
1512 GLD2 8M	1512
1584 GLD2 8M	1584
1600 GLD2 8M	1600
1680 GLD2 8M	1680
1760 GLD2 8M	1760
1800 GLD2 8M	1800
1904 GLD2 8M	1904
2000 GLD2 8M	2000
2200 GLD2 8M	2200
2240 GLD2 8M	2240
2272 GLD2 8M	2272
2400 GLD2 8M	2400
2520 GLD2 8M	2520
2600 GLD2 8M	2600
2800 GLD2 8M	2800
2840 GLD2 8M	2840
3048 GLD2 8M	3048
3200 GLD2 8M	3200
3280 GLD2 8M	3280
3600 GLD2 8M	3600
4000 GLD2 8M	4000
4400 GLD2 8M	4400

### GOLD2 14M

CODE	PITCH LENGTH (mm)
966 GLD2 14M	966
994 GLD2 14M	994
1092 GLD2 14M	1092
1106 GLD2 14M	1106
1120 GLD2 14M	1120
1190 GLD2 14M	1190
1260 GLD2 14M	1260
1288 GLD2 14M	1288
1344 GLD2 14M	1344
1400 GLD2 14M	1400
1442 GLD2 14M	1442
1512 GLD2 14M	1512
1568 GLD2 14M	1568
1610 GLD2 14M	1610
1750 GLD2 14M	1750
1764 GLD2 14M	1764
1778 GLD2 14M	1778
1848 GLD2 14M	1848
1890 GLD2 14M	1890
1904 GLD2 14M	1904
1960 GLD2 14M	1960
2100 GLD2 14M	2100
2240 GLD2 14M	2240
2310 GLD2 14M	2310
2380 GLD2 14M	2380
2450 GLD2 14M	2450
2520 GLD2 14M	2520
2590 GLD2 14M	2590
2660 GLD2 14M	2660
2800 GLD2 14M	2800
2968 GLD2 14M	2968

### GOLD2 14M

CODE	PITCH LENGTH (mm)
3136 GLD2 14M	3136
3150 GLD2 14M	3150
3304 GLD2 14M	3304
3360 GLD2 14M	3360
3500 GLD2 14M	3500
3850 GLD2 14M	3850
3920 GLD2 14M	3920
4326 GLD2 14M	4326
4410 GLD2 14M	4410
4578 GLD2 14M	4578
4956 GLD2 14M	4956

### GOLD2 8DD\*

CODE	PITCH LENGTH (mm)
600 GLD2-8DD	600
608 GLD2-8DD	608
632 GLD2-8DD	632
640 GLD2-8DD	640
680 GLD2-8DD	680
720 GLD2-8DD	720
760 GLD2-8DD	760
800 GLD2-8DD	800
840 GLD2-8DD	840
880 GLD2-8DD	880
896 GLD2-8DD	896
920 GLD2-8DD	920
960 GLD2-8DD	960
1000 GLD2-8DD	1000
1040 GLD2-8DD	1040
1080 GLD2-8DD	1080
1120 GLD2-8DD	1120
1200 GLD2-8DD	1200
1224 GLD2-8DD	1224
1280 GLD2-8DD	1280
1352 GLD2-8DD	1352
1424 GLD2-8DD	1424
1440 GLD2-8DD	1440
1464 GLD2-8DD	1464
1600 GLD2-8DD	1600
1680 GLD2-8DD	1680
1760 GLD2-8DD	1760
1792 GLD2-8DD	1792
1800 GLD2-8DD	1800
1904 GLD2-8DD	1904
2000 GLD2-8DD	2000
2200 GLD2-8DD	2200
2240 GLD2-8DD	2240
2272 GLD2-8DD	2272
2400 GLD2-8DD	2400
2520 GLD2-8DD	2520
2600 GLD2-8DD	2600
2800 GLD2-8DD	2800
2840 GLD2-8DD	2840
3048 GLD2-8DD	3048
3200 GLD2-8DD	3200
3280 GLD2-8DD	3280
3600 GLD2-8DD	3600
4000 GLD2-8DD	4000
4400 GLD2-8DD	4400

### GOLD2 14DD\*

CODE	PITCH LENGTH (mm)
966 GLD2-14DD	966
994 GLD2-14DD	994
1092 GLD2-14DD	1092
1106 GLD2-14DD	1106
1120 GLD2-14DD	1120
1190 GLD2-14DD	1190
1260 GLD2-14DD	1260
1288 GLD2-14DD	1288
1344 GLD2-14DD	1344
1400 GLD2-14DD	1400
1442 GLD2-14DD	1442
1568 GLD2-14DD	1568
1610 GLD2-14DD	1610
1750 GLD2-14DD	1750
1764 GLD2-14DD	1764
1778 GLD2-14DD	1778
1848 GLD2-14DD	1848
1890 GLD2-14DD	1890
1904 GLD2-14DD	1904
1960 GLD2-14DD	1960
2100 GLD2-14DD	2100
2240 GLD2-14DD	2240
2310 GLD2-14DD	2310
2380 GLD2-14DD	2380
2450 GLD2-14DD	2450
2520 GLD2-14DD	2520
2660 GLD2-14DD	2660
2800 GLD2-14DD	2800
2968 GLD2-14DD	2968
3136 GLD2-14DD	3136
3150 GLD2-14DD	3150
3304 GLD2-14DD	3304
3360 GLD2-14DD	3360
3500 GLD2-14DD	3500
3850 GLD2-14DD	3850
3920 GLD2-14DD	3920
4326 GLD2-14DD	4326
4410 GLD2-14DD	4410
4578 GLD2-14DD	4578
4956 GLD2-14DD	4956

(\* ) ON DEMAND



# MEGADYNE MEGASYNC™

## GOLD2 5M

**BASIC PERFORMANCE IN W FOR GOLD2 5M - 9 mm WIDE (W / 9 mm)**

D (mm)	28,65	31,83	35,01	38,2	41,38	44,56	50,93	57,3	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	8	10	12	14	16	19	24	30	37	40	44	51	59	66	73
20	15	18	22	26	30	34	44	55	67	81	88	103	117	132	147
30	21	26	31	36	42	48	62	78	95	114	132	154	176	198	220
50	32	40	47	56	65	75	97	121	147	177	208	257	293	330	367
70	43	53	63	75	87	100	129	161	197	235	278	359	411	462	513
100	59	72	86	101	118	136	175	218	267	319	377	505	587	660	733
200	106	130	155	183	213	245	316	395	482	578	681	913	1.067	1.200	1.333
300	150	183	220	259	302	347	447	559	682	817	964	1.291	1.600	1.800	2.000
400	192	235	281	331	386	444	572	715	872	1.045	1.232	1.650	2.126	2.400	2.666
500	233	284	340	401	467	537	692	865	1.056	1.265	1.491	1.997	2.572	2.999	3.332
600	272	332	397	469	545	628	808	1.010	1.234	1.478	1.743	2.334	3.006	3.598	3.998
700	310	378	453	535	622	716	922	1.153	1.407	1.686	1.988	2.662	3.429	4.198	4.663
800	347	424	508	599	697	803	1.034	1.292	1.577	1.890	2.228	2.984	3.843	4.796	5.328
900	384	469	562	663	771	888	1.143	1.429	1.744	2.090	2.464	3.300	4.249	5.311	5.993
1000	420	513	615	725	844	971	1.251	1.563	1.909	2.286	2.696	3.610	4.649	5.810	6.657
1100	456	557	667	787	915	1.053	1.357	1.696	2.070	2.480	2.924	3.916	5.042	6.302	7.321
1200	491	600	719	847	986	1.135	1.461	1.827	2.230	2.671	3.150	4.217	5.430	6.787	7.983
1300	526	642	769	907	1.056	1.215	1.565	1.956	2.387	2.860	3.372	4.515	5.813	7.265	8.646
1400	560	684	820	967	1.125	1.294	1.667	2.083	2.543	3.046	3.592	4.809	6.191	7.737	9.307
1500	594	726	869	1.025	1.193	1.373	1.768	2.209	2.697	3.230	3.809	5.099	6.565	8.204	9.968
1600	628	767	919	1.083	1.260	1.450	1.868	2.334	2.849	3.413	4.024	5.387	6.935	8.666	10.577
1700	661	808	967	1.141	1.327	1.527	1.967	2.458	3.000	3.593	4.237	5.671	7.301	9.123	11.134
1800	695	848	1.016	1.198	1.394	1.603	2.065	2.580	3.150	3.772	4.447	5.953	7.664	9.575	11.685
1900	727	888	1.064	1.254	1.459	1.679	2.162	2.702	3.298	3.950	4.656	6.233	8.022	10.023	12.230
2000	760	928	1.111	1.310	1.524	1.754	2.258	2.822	3.445	4.125	4.863	6.509	8.378	10.466	12.771
2400	868	1.059	1.269	1.496	1.741	2.003	2.578	3.221	3.931	4.707	5.548	7.424	9.552	11.929	14.550
2800	1.012	1.235	1.479	1.744	2.029	2.334	3.004	3.753	4.579	5.482	6.461	8.642	11.115	13.876	16.919
3000	1.073	1.310	1.568	1.849	2.151	2.474	3.184	3.978	4.853	5.810	6.846	9.154	11.772	14.693	17.911
3200	1.114	1.360	1.628	1.919	2.233	2.568	3.305	4.128	5.036	6.028	7.102	9.494	12.206	15.230	18.561
3600	1.252	1.528	1.830	2.157	2.509	2.885	3.712	4.636	5.654	6.765	7.969	10.649	13.684	17.065	20.787
4000	1.369	1.670	2.000	2.357	2.741	3.152	4.054	5.061	6.171	7.382	8.694	11.610	14.910	18.583	22.622
4500	1.512	1.844	2.207	2.601	3.025	3.478	4.471	5.580	6.800	8.132	9.572	12.773	16.389	20.409	
5000	1.651	2.014	2.411	2.840	3.301	3.795	4.877	6.083	7.411	8.858	10.422	13.893	17.809		
6000	1.922	2.344	2.803	3.301	3.835	4.406	5.657	7.048	8.577	10.240	12.035	16.006			
7000	2.183	2.659	3.179	3.740	4.343	4.987	6.394	7.956	9.669	11.528	13.530				
8000	2.433	2.962	3.538	4.160	4.827	5.538	7.089	8.807	10.685	12.718					
10000	2.902	3.527	4.205	4.935	5.715	6.545	8.345								
12000	3.330	4.038	4.802	5.622	6.495	7.418									
14000	3.715	4.490	5.324	6.213											



# MEGADYNE MEGASYNC™

## GOLD2 8M

**BASIC PERFORMANCE IN kW FOR GOLD2 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	183,35	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	0,20	0,22	0,24	0,26	0,28	0,30	0,32	0,34	0,35	0,37	0,41	0,45	0,52	0,60	0,67	0,75
30	0,28	0,31	0,34	0,37	0,40	0,43	0,46	0,49	0,52	0,55	0,62	0,67	0,78	0,90	1,01	1,12
50	0,45	0,49	0,54	0,59	0,63	0,68	0,73	0,78	0,83	0,88	0,98	1,08	1,28	1,49	1,68	1,87
70	0,60	0,67	0,73	0,79	0,86	0,92	0,99	1,05	1,12	1,18	1,32	1,45	1,73	2,01	2,29	2,58
100	0,83	0,92	1,00	1,09	1,18	1,27	1,36	1,45	1,54	1,63	1,82	2,00	2,38	2,77	3,16	3,56
200	1,55	1,71	1,87	2,03	2,20	2,36	2,53	2,70	2,86	3,03	3,38	3,72	4,43	5,15	5,88	6,62
300	2,23	2,46	2,69	2,92	3,16	3,39	3,63	3,88	4,12	4,36	4,86	5,36	6,37	7,40	8,45	9,51
400	2,88	3,18	3,48	3,78	4,08	4,39	4,70	5,01	5,33	5,65	6,28	6,93	8,24	9,58	10,93	12,31
500	3,52	3,88	4,25	4,62	4,99	5,36	5,74	6,12	6,51	6,89	7,67	8,46	10,06	11,69	13,35	15,03
600	4,14	4,57	5,00	5,44	5,87	6,32	6,76	7,21	7,66	8,12	9,03	9,96	11,85	13,77	15,71	17,68
700	4,76	5,25	5,74	6,24	6,74	7,25	7,76	8,28	8,80	9,32	10,37	11,44	13,60	15,80	18,03	20,29
800	5,36	5,91	6,47	7,03	7,60	8,17	8,75	9,33	9,91	10,50	11,69	12,89	15,32	17,80	20,31	22,86
900	5,96	6,57	7,19	7,81	8,44	9,08	9,72	10,36	11,01	11,67	12,98	14,32	17,02	19,77	22,56	25,38
1000	6,55	7,22	7,90	8,59	9,28	9,98	10,68	11,39	12,10	12,82	14,27	15,73	18,70	21,71	24,77	27,87
1100	7,13	7,86	8,60	9,35	10,10	10,86	11,63	12,40	13,18	13,96	15,53	17,13	20,35	23,64	26,96	30,33
1200	7,71	8,50	9,30	10,11	10,92	11,74	12,57	13,40	14,24	15,08	16,79	18,51	21,99	25,53	29,12	32,75
1300	8,28	9,13	9,99	10,86	11,73	12,61	13,50	14,40	15,30	16,20	18,03	19,87	23,61	27,41	31,26	35,15
1400	8,85	9,76	10,67	11,60	12,53	13,48	14,42	15,38	16,34	17,31	19,26	21,23	25,22	29,27	33,37	37,51
1500	9,41	10,38	11,35	12,34	13,33	14,33	15,34	16,36	17,38	18,40	20,48	22,57	26,81	31,11	35,46	39,85
1600	9,97	10,99	12,03	13,07	14,12	15,18	16,25	17,32	18,40	19,49	21,69	23,90	28,38	32,93	37,52	42,16
1700	10,53	11,61	12,70	13,80	14,91	16,02	17,15	18,28	19,42	20,57	22,88	25,22	29,94	34,73	39,57	44,44
1800	11,08	12,21	13,36	14,52	15,69	16,86	18,05	19,24	20,44	21,64	24,07	26,53	31,49	36,52	41,59	46,70
1900	11,62	12,82	14,02	15,23	16,46	17,69	18,93	20,18	21,44	22,71	25,25	27,82	33,02	38,28	43,59	48,93
2000	12,17	13,42	14,68	15,95	17,23	18,52	19,82	21,13	22,44	23,76	26,43	29,11	34,54	40,03	45,57	51,13
2500	14,85	16,37	17,90	19,45	21,00	22,57	24,15	25,74	27,33	28,93	32,16	35,41	41,95	48,54	55,15	61,75
3000	17,46	19,24	21,04	22,85	24,68	26,51	28,36	30,21	32,07	33,94	37,70	41,47	49,04	56,63	64,19	
3500	20,02	22,06	24,11	26,18	28,26	30,35	32,45	34,56	36,67	38,79	43,04	47,30	55,82	64,29		
4000	22,52	24,81	27,11	29,43	31,75	34,09	36,43	38,78	41,13	43,49	48,20	52,91	62,28			
4500	24,98	27,51	30,05	32,60	35,16	37,73	40,30	42,88	45,46	48,03	53,17	58,29				
5000	27,39	30,15	32,92	35,70	38,49	41,28	44,07	46,85	49,64	52,42	57,95					