



ISORAN SILVER

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

Because of the greater power they can transmit compared to Isoran RPP, Isoran Silver can be used to improve and easily upgrade already existing drives working with Isoran RPP in the spirit and concept of interchangeability which has identified Megadyne's market approach philosophy in the last years. By the way we always suggest to check that every other transmission component can bare the increased transmitted power.

Under the same transmission conditions, Isoran Silver belts have the same noise level of the Isoran RPP. Silver timing belts offers to designers:

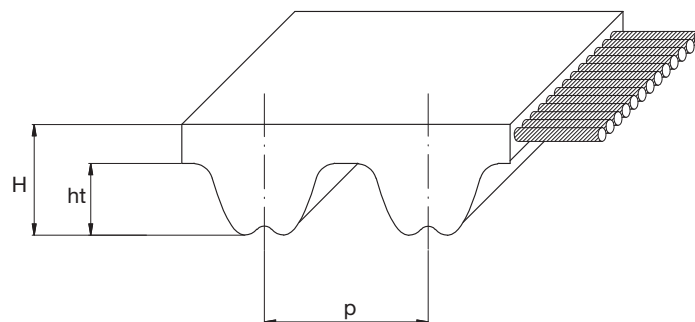
- Increased performance (by 110% compared to Isoran RPP)
- The possibility to keep using the same RPP pulleys.

Because of these features, replacing an Isoran RPP with an Isoran Silver 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.

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

Isoran Silver belts are antistatic according to BS 2050.



Pitch		SILVER5	SILVER8	SILVER14
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 / Alaklis	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 BS 2050

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

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

Thickness tolerances				
Pitch	Nominal belt thickness (mm)	Tolerance degree (mm)		
		Standard belt	Grade 2	Grade 1
SILVER5	3,80	±0,60	±0,25	±0,15
SILVER8	5,40	±0,60	±0,25	±0,15
SILVER14	9,70	±0,60	±0,25	±0,15

STANDARD WIDTHS											
Pitch	Belt widths										
	9,00	15,00	20,00	25,00	30,00	40,00	50,00	55,00	85,00	115,00	170,00
SILVER5	•	•		•							
SILVER8			•		•		•		•		
SILVER14						•		•	•	•	•

RANGE

SILVER5	
Code	Pitch length [mm]
180 SLV5	180,00
225 SLV5	225,00
235 SLV5	235,00
245 SLV5	245,00
255 SLV5	255,00
265 SLV5	265,00
270 SLV5	270,00
280 SLV5	280,00
285 SLV5	285,00
295 SLV5	295,00
300 SLV5	300,00
305 SLV5	305,00
325 SLV5	325,00
345 SLV5	345,00
350 SLV5	350,00
375 SLV5	375,00
400 SLV5	400,00
420 SLV5	420,00
425 SLV5	425,00
450 SLV5	450,00
455 SLV5	455,00
460 SLV5	460,00
465 SLV5	465,00
475 SLV5	475,00
500 SLV5	500,00
525 SLV5	525,00
535 SLV5	535,00
565 SLV5	565,00
575 SLV5	575,00
580 SLV5	580,00
600 SLV5	600,00
610 SLV5	610,00
615 SLV5	615,00
635 SLV5	635,00
640 SLV5	640,00
670 SLV5	670,00
675 SLV5	675,00
700 SLV5	700,00
705 SLV5	705,00
710 SLV5	710,00
725 SLV5	725,00
740 SLV5	740,00
750 SLV5	750,00
755 SLV5	755,00
800 SLV5	800,00
835 SLV5	835,00
850 SLV5	850,00
890 SLV5	890,00
900 SLV5	900,00
935 SLV5	935,00
940 SLV5	940,00
950 SLV5	950,00
980 SLV5	980,00
1000 SLV5	1000,00
1025 SLV5	1025,00
1050 SLV5	1050,00
1100 SLV5	1100,00
1125 SLV5	1125,00
1135 SLV5	1135,00
1195 SLV5	1195,00
1200 SLV5	1200,00
1240 SLV5	1240,00
1270 SLV5	1270,00
1420 SLV5	1420,00
1500 SLV5	1500,00
1595 SLV5	1595,00
1605 SLV5	1605,00
1690 SLV5	1690,00
1790 SLV5	1790,00
1800 SLV5	1800,00
1870 SLV5	1870,00
1895 SLV5	1895,00
1945 SLV5	1945,00
2000 SLV5	2000,00
2250 SLV5	2250,00
2525 SLV5	2525,00

SILVER8	
Code	Pitch length [mm]
248 SLV8	248,00
288 SLV8	288,00
320 SLV8	320,00
352 SLV8	352,00
360 SLV8	360,00
376 SLV8	376,00
384 SLV8	384,00
408 SLV8	408,00
416 SLV8	416,00
424 SLV8	424,00
456 SLV8	456,00
480 SLV8	480,00
536 SLV8	536,00
544 SLV8	544,00
560 SLV8	560,00
600 SLV8	600,00
608 SLV8	608,00
632 SLV8	632,00
640 SLV8	640,00
680 SLV8	680,00
720 SLV8	720,00
760 SLV8	760,00
800 SLV8	800,00
840 SLV8	840,00
880 SLV8	880,00
896 SLV8	896,00
920 SLV8	920,00
960 SLV8	960,00
1000 SLV8	1000,00
1040 SLV8	1040,00
1080 SLV8	1080,00
1120 SLV8	1120,00
1200 SLV8	1200,00
1224 SLV8	1224,00
1280 SLV8	1280,00
1352 SLV8	1352,00
1424 SLV8	1424,00
1440 SLV8	1440,00
1464 SLV8	1464,00
1600 SLV8	1600,00
1680 SLV8	1680,00
1760 SLV8	1760,00
1792 SLV8	1792,00
1800 SLV8	1800,00
1904 SLV8	1904,00
2000 SLV8	2000,00
2200 SLV8	2200,00
2240 SLV8	2240,00
2272 SLV8	2272,00
2400 SLV8	2400,00
2520 SLV8	2520,00
2600 SLV8	2600,00
2800 SLV8	2800,00
2840 SLV8	2840,00
3048 SLV8	3048,00
3200 SLV8	3200,00
3280 SLV8	3280,00
3600 SLV8	3600,00
4000 SLV8	4000,00
4400 SLV8	4400,00

SILVER14	
Code	Pitch length [mm]
966 SLV14	966,00
994 SLV14	994,00
1092 SLV14	1092,00
1106 SLV14	1106,00
1120 SLV14	1120,00
1190 SLV14	1190,00
1260 SLV14	1260,00
1288 SLV14	1288,00
1344 SLV14	1344,00
1400 SLV14	1400,00
1442 SLV14	1442,00
1568 SLV14	1568,00
1610 SLV14	1610,00
1750 SLV14	1750,00
1764 SLV14	1764,00
1778 SLV14	1778,00
1848 SLV14	1848,00
1890 SLV14	1890,00
1904 SLV14	1904,00
1960 SLV14	1960,00
2100 SLV14	2100,00
2240 SLV14	2240,00
2310 SLV14	2310,00
2380 SLV14	2380,00
2450 SLV14	2450,00
2520 SLV14	2520,00
2590 SLV14	2590,00
2660 SLV14	2660,00
2800 SLV14	2800,00
2968 SLV14	2968,00
3136 SLV14	3136,00
3150 SLV14	3150,00
3304 SLV14	3304,00
3360 SLV14	3360,00
3500 SLV14	3500,00
3850 SLV14	3850,00
3920 SLV14	3920,00
4326 SLV14	4326,00
4410 SLV14	4410,00
4578 SLV14	4578,00
4956 SLV14	4956,00