

RPP TIMING BELTS



RUBBER CHAIN YELLOW

DUNLOP Rubber Chain Yellow belt system can be used in virtually timeless range of industry applications where a high torque synchronous drive is required. The new rubber chain yellow timing belt is constructed with the highest quality materials.

The bonded strength of all components guarantees superior torque capacity. The new materials join forces to achieve the highest standard of quality and performance in the industry.

STRUCTURE

PRECISION GROUND RUBBER BACKING

Precision ground neoprene rubber backing is designed for maximum resistance to uzuine oil, grease, heat build up, sunlight and flex fatigue. Excellent for backside idlers.

TENSION MEMBER

The fibreglass cord is the load carrying element in the new **DUNLOP** Rubber Chain Yellow belt.

This excellent characteristic of the cord guarantee incomparable tension stability both in static and dynamic conditions when compared with other aramid reinforced belts.

This characteristic can eliminate any kind of re-tensioning procedure, providing a real maintenance free operation and guarantee a perfect tooth meshing reducing abrasion, vibrations and noise.

TOOTH FACING FABRIC

Hard wearing nylon fabric is bonded to the tooth surface to improve torque carrying capacity. The external fabric surface is impregnated with a special graphite, providing a self lubrication feature which

increases the efficiency of the drive while providing:

- Exceptional resistance to abrasion and tooth shear due to the low coefficient of friction.
- Increased drive efficiency.
- Increased belt and pulley life.

BELT BODY

It's an innovative compound. The elastomer increases resistance to tooth shear up to 15% in comparison to the previous belts. The compound guarantees an exceptional resistance to flex fatigue. According to the standards ASTM D318 the flexibility test shows an improvement in the flex fatigue resistance up to 500 times more than the previous version. Furthermore this compound is formulated to show considerable resistance to mineral oil, heat and ozone.

With a higher tensile strength (10-20%) than the previous belt and with the superior flexibility of the new rubber chain yellow belt enables us to offer smaller, more compact drive systems thus offering tighter weight, higher performances and improved drive efficiency.

FEATURES

DUNLOP Rubber Chain Yellow systems offer drive energy efficiency up to 98%. This results in a reduction of energy consumption as much as 5% over other power transmission systems.

- Upgrade of the existing transmission without changing the pulleys.
- Perfect interchangeability with parabolic pulley profile RPP and HTD.
- Quiet, maintenance free operation.
- Better tooth jump resistance.
- Excellent for backside idlers.
- Superior Antistatic Properties conforming to the BS 2050 and ISO 9563.

- Belts require no special handling or storage considerations. The resulting dimensional stability assures consistent, reliable performance.
- Temperature range -25°C to + 80°C



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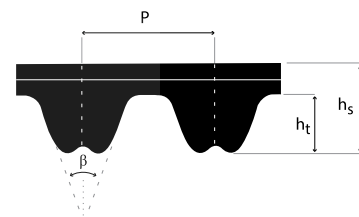
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Description

The new RPP parabolic profile is deeper than the equivalent competitors standard tooth profile. The increased depth and sturdiness of the tooth results in an increased torque transmission capability and reduced interference during meshing. The recess in the top of the tooth allows local deformation of the belt when meshing with the pulley, and this contributes to the ability to absorb shock loads and reduced interference during meshing. Other benefits include a reduction in transmission noise, an increase in tooth jump resistance, an increase in power transmitted and an increase resistance to tooth shear.

Part numbers are identified by a 3 or 4 digit number (e.g. 960) which represents the pitch length in mm, a number and letter (e.g. 8M) the belts pitch and a 2 or 3 digit number (e.g. 30) the belts width.

Belt type	Pitch	β	h_s	h_t
8M	8mm	32°	5.40	3.46
14M	14mm	32°	9.70	6.10



Interchange table

Dunlop	Gates	Contitech	Optibelt	Goodyear
Rubber Chain Yellow	Polychain GT2	EXA - SYNCHRO CHAIN	OMEGA HL	EAGLE - FALCON BLACK HAWK

Note: Manufacturers part numbers are used for descriptive purposes only and may not be direct equivalent products.

8M - RUBBER CHAIN YELLOW

8M - CROSS SECTION			BELT WIDTH				8M - CROSS SECTION			BELT WIDTH			
Part Number	Length (mm)	Number of teeth	20mm	30mm	50mm	85mm	Part Number	Length (mm)	Number of teeth	20mm	30mm	50mm	85mm
288-8M-RCY	288	36	20	30	50	85	920-8M-RCY	920	115	20	30	50	85
320-8M-RCY	320	40	20	30	50	85	960-8M-RCY	960	120	20	30	50	85
352-8M-RCY	352	44	20	30	50	85	1000-8M-RCY	1000	125	20	30	50	85
360-8M-RCY	360	45	20	30	50	85	1040-8M-RCY	1040	130	20	30	50	85
384-8M-RCY	384	48	20	30	50	85	1080-8M-RCY	1080	135	20	30	50	85
408-8M-RCY	408	51	20	30	50	85	1120-8M-RCY	1120	140	20	30	50	85
416-8M-RCY	416	52	20	30	50	85	1200-8M-RCY	1200	150	20	30	50	85
456-8M-RCY	456	57	20	30	50	85	1224-8M-RCY	1224	153	20	30	50	85
480-8M-RCY	480	60	20	30	50	85	1280-8M-RCY	1280	160	20	30	50	85
536-8M-RCY	536	67	20	30	50	85	1352-8M-RCY	1352	169	20	30	50	85
544-8M-RCY	544	68	20	30	50	85	1424-8M-RCY	1424	178	20	30	50	85
560-8M-RCY	560	70	20	30	50	85	1440-8M-RCY	1440	180	20	30	50	85
600-8M-RCY	600	75	20	30	50	85	1464-8M-RCY	1464	183	20	30	50	85
608-8M-RCY	608	76	20	30	50	85	1600-8M-RCY	1600	200	20	30	50	85
632-8M-RCY	632	79	20	30	50	85	1680-8M-RCY	1680	210	20	30	50	85
640-8M-RCY	640	80	20	30	50	85	1760-8M-RCY	1760	220	20	30	50	85
680-8M-RCY	680	85	20	30	50	85	1800-8M-RCY	1800	225	20	30	50	85
720-8M-RCY	720	90	20	30	50	85	1904-8M-RCY	1904	238	20	30	50	85
760-8M-RCY	760	95	20	30	50	85	2000-8M-RCY	2000	250	20	30	50	85
800-8M-RCY	800	100	20	30	50	85	2200-8M-RCY	2200	275	20	30	50	85
840-8M-RCY	840	105	20	30	50	85	2272-8M-RCY	2272	284	20	30	50	85
880-8M-RCY	880	110	20	30	50	85	2400-8M-RCY	2400	300	20	30	50	85
896-8M-RCY	896	112	20	30	50	85	2520-8M-RCY	2520	315	20	30	50	85

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8M - RUBBER CHAIN YELLOW continued

8M - CROSS SECTION			BELT WIDTH				8M - SECTION			BELT WIDTH			
Part Number	Length (mm)	Number of teeth	20mm	30mm	50mm	85mm	Part Number	Length (mm)	Number of teeth	20mm	30mm	50mm	85mm
2600-8M-RCY	2600	325	20	30	50	85	3280-8M-RCY	3280	410	20	30	50	85
2800-8M-RCY	2800	350	20	30	50	85	3600-8M-RCY	3600	450	20	30	50	85
3048-8M-RCY	3048	381	20	30	50	85	4400-8M-RCY	4400	550	20	30	50	85

14M - RUBBER CHAIN YELLOW

14M - (RUBBER CHAIN YELLOW) CROSS SECTION			BELT WIDTH				
Part Number	Length (mm)	Number of teeth	40mm	55mm	85mm	115mm	170mm
966-14M-RCY	966	69	40	55	85	115	170
1092-14M-RCY	1092	78	40	55	85	115	170
1106-14M-RCY	1106	79	40	55	85	115	170
1190-14M-RCY	1190	85	40	55	85	115	170
1260-14M-RCY	1260	90	40	55	85	115	170
1288-14M-RCY	1288	92	40	55	85	115	170
1344-14M-RCY	1344	96	40	55	85	115	170
1400-14M-RCY	1400	100	40	55	85	115	170
1442-14M-RCY	1442	103	40	55	85	115	170
1568-14M-RCY	1568	112	40	55	85	115	170
1610-14M-RCY	1610	115	40	55	85	115	170
1750-14M-RCY	1750	125	40	55	85	115	170
1764-14M-RCY	1764	126	40	55	85	115	170
1778-14M-RCY	1778	127	40	55	85	115	170
1848-14M-RCY	1848	132	40	55	85	115	170
1890-14M-RCY	1890	135	40	55	85	115	170
1904-14M-RCY	1904	136	40	55	85	115	170
1960-14M-RCY	1960	140	40	55	85	115	170
2100-14M-RCY	2100	150	40	55	85	115	170
2240-14M-RCY	2240	160	40	55	85	115	170
2310-14M-RCY	2310	165	40	55	85	115	170
2380-14M-RCY	2380	170	40	55	85	115	170
2450-14M-RCY	2450	175	40	55	85	115	170
2590-14M-RCY	2590	185	40	55	85	115	170
2660-14M-RCY	2660	190	40	55	85	115	170
2800-14M-RCY	2800	200	40	55	85	115	170
2968-14M-RCY	2968	212	40	55	85	115	170
3150-14M-RCY	3150	225	40	55	85	115	170
3360-14M-RCY	3360	240	40	55	85	115	170
3500-14M-RCY	3500	250	40	55	85	115	170
3850-14M-RCY	3850	275	40	55	85	115	170
3920-14M-RCY	3920	280	40	55	85	115	170
4326-14M-RCY	4326	309	40	55	85	115	170
4578-14M-RCY	4578	327	40	55	85	115	170
4956-14M-RCY	4956	354	40	55	85	115	170