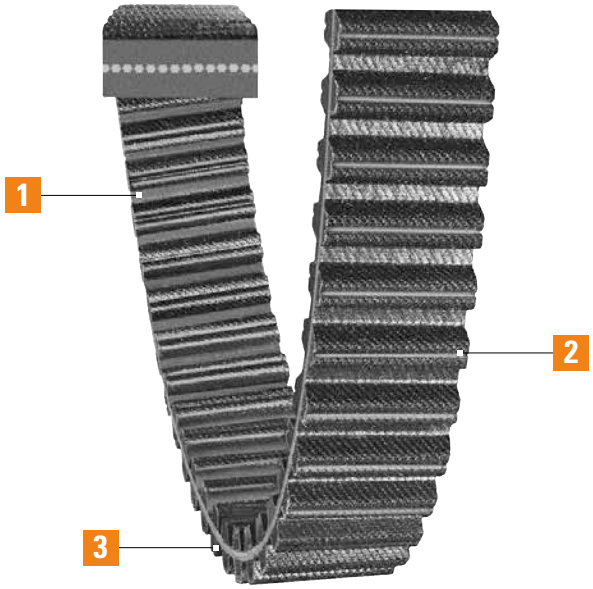
Dual Synchronous
Synchronous Drive Belt

MADE IN USA



1 Molded Tooth Construction
Provides greater shear resistance and load capacity.

2 RPP® Profile
Tooth design allows for smoother, quieter operation.

3 Load Capacity
100% on both sides of belt.

Recommended Sprockets:
High Torque Synchronous Sprockets – MPB, QD, Taper Bushed (8mm, 14mm)

Superior performance

Smaller, more compact system

Reduced drive weight and space

100% load capacity on both sides

Applications:

- Printing presses
- Mixers
- Agitators
- Machine tools
- Robotics
- Sewing machines
- Vending machines
- & More

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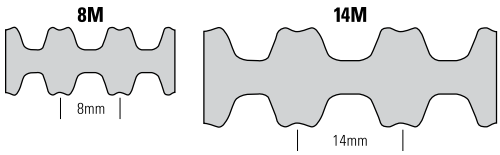


Proven performance from both sides of the belt for greater flexibility and efficiency in your drive design.

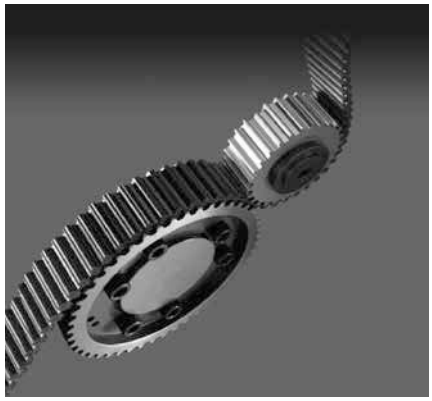
The Dual Synchronous Belt yields proven performance in a double sided design providing maintenance-free synchronization from both sides of the belt.

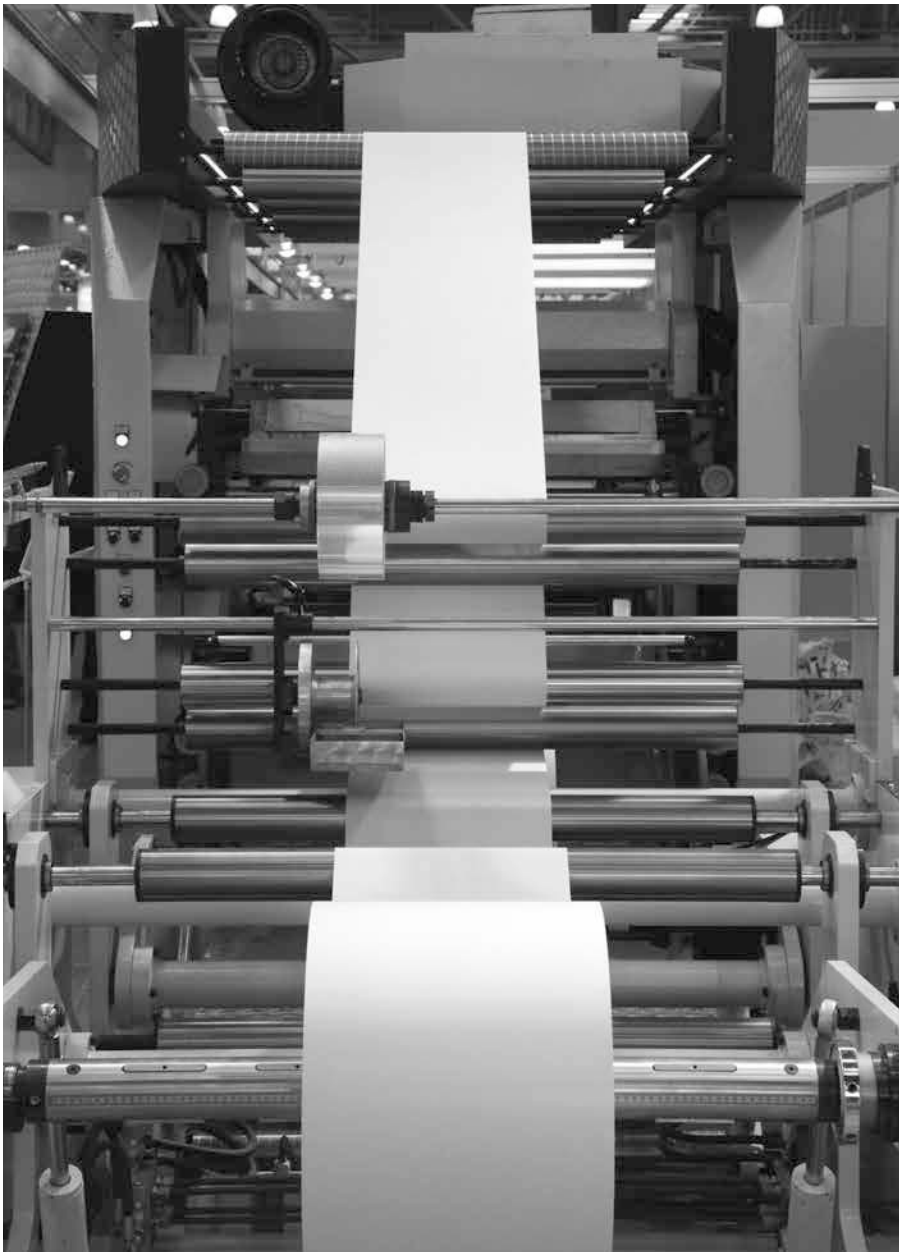
Molded teeth provide excellent shear resistance and resistance to tooth jump.

The manufacturing process allows for equal load capacity on both sides of the belt, a feature not found in many dual sided belts on the market.

Achieve greater drive design flexibility and efficiency with the Dual Synchronous Belt.

Choose Dual Synchronous Belts for a compact, efficient, quiet, and smoother running drive.





Dual Synchronous Part Numbers

Part Number Example: **D1200-8M-50 =**

D	1200	-	8M	-	50
Dual Sided Construction	Pitch Length (millimeters)		Tooth Pitch (RPP tooth profile)		Width (millimeters)

Part Number	Number Of Teeth	Pitch Length		Weight (lbs)
		(mm)	(in)	
8M Pitch – High Torque Synchronous (HTS) Sprockets: MPB, QD, Taper Bushed (8mm)				
D720-8M-20	90	720	28.00	0.23
D720-8M-30	90	720	28.00	0.35
D720-8M-50	90	720	28.00	0.58
D720-8M-85	90	720	28.00	0.98
D800-8M-20	100	800	32.00	0.26
D800-8M-30	100	800	32.00	0.38
D800-8M-50	100	800	32.00	0.64
D800-8M-85	100	800	32.00	1.09
D840-8M-20	105	840	33.00	0.27
D840-8M-30	105	840	33.00	0.40
D840-8M-50	105	840	33.00	0.67
D840-8M-85	105	840	33.00	1.14
D880-8M-20	110	880	35.00	0.28
D880-8M-30	110	880	35.00	0.42
D880-8M-50	110	880	35.00	0.71
D880-8M-85	110	880	35.00	1.20
D920-8M-20	115	920	36.20	0.29
D920-8M-30	115	920	36.20	0.44
D920-8M-50	115	920	36.20	0.74
D920-8M-85	115	920	36.20	1.25
D960-8M-20	120	960	38.00	0.31
D960-8M-30	120	960	38.00	0.46
D960-8M-50	120	960	38.00	0.77
D960-8M-85	120	960	38.00	1.31
D1040-8M-20	130	1040	41.00	0.33
D1040-8M-30	130	1040	41.00	0.50
D1040-8M-50	130	1040	41.00	0.83
D1040-8M-85	130	1040	41.00	1.42
D1120-8M-20	140	1120	44.00	0.36
D1120-8M-30	140	1120	44.00	0.54
D1120-8M-50	140	1120	44.00	0.90
D1120-8M-85	140	1120	44.00	1.53
D1200-8M-20	150	1200	47.00	0.38

Part Number	Number Of Teeth	Pitch Length		Weight (lbs)
		(mm)	(in)	
8M Pitch – High Torque Synchronous (HTS) Sprockets: MPB, QD, Taper Bushed (8mm)				
D1200-8M-30	150	1200	47.00	0.58
D1200-8M-50	150	1200	47.00	0.96
D1200-8M-85	150	1200	47.00	1.63
D1280-8M-20	160	1280	50.00	0.41
D1280-8M-30	160	1280	50.00	0.62
D1280-8M-50	160	1280	50.00	1.03
D1280-8M-85	160	1280	50.00	1.74
D1440-8M-20	180	1440	57.00	0.46
D1440-8M-30	180	1440	57.00	0.69
D1440-8M-50	180	1440	57.00	1.15
D1440-8M-85	180	1440	57.00	1.96
D1600-8M-20	200	1600	63.00	0.51
D1600-8M-30	200	1600	63.00	0.77
D1600-8M-50	200	1600	63.00	1.28
D1600-8M-85	200	1600	63.00	2.18
D1760-8M-20	220	1760	69.00	0.56
D1760-8M-30	220	1760	69.00	0.85
D1760-8M-50	220	1760	69.00	1.41
D1760-8M-85	220	1760	69.00	2.40
D1800-8M-20	225	1800	71.00	0.58
D1800-8M-30	225	1800	71.00	0.87
D1800-8M-50	225	1800	71.00	1.44
D1800-8M-85	225	1800	71.00	2.45
D2000-8M-20	250	2000	79.00	0.64
D2000-8M-30	250	2000	79.00	0.96
D2000-8M-50	250	2000	79.00	1.60
D2000-8M-85	250	2000	79.00	2.72
D2200-8M-20	275	2200	86.60	0.71
D2200-8M-30	275	2200	86.60	1.06
D2200-8M-50	275	2200	86.60	1.76
D2200-8M-85	275	2200	86.60	3.00
D2400-8M-20	300	2400	94.00	0.77
D2400-8M-30	300	2400	94.00	1.15

Dual Synchronous Part Numbers

Part Number	Number Of Teeth	Pitch Length (mm)	Pitch Length (in)	Weight (lbs)
8M Pitch – High Torque Synchronous (HTS) Sprockets: MPB, QD, Taper Bushed (8mm)				
D2400-8M-50	300	2400	94.00	1.92
D2400-8M-85	300	2400	94.00	3.27
D2600-8M-20	325	2600	102.00	0.83
D2600-8M-30	325	2600	102.00	1.25
D2600-8M-50	325	2600	102.00	2.08
D2600-8M-85	325	2600	102.00	3.54
D2800-8M-20	350	2800	110.00	0.90
D2800-8M-30	350	2800	110.00	1.35
D2800-8M-50	350	2800	110.00	2.24
D2800-8M-85	350	2800	110.00	3.81
D3048-8M-20	381	3048	120.00	0.98
D3048-8M-30	381	3048	120.00	1.47
D3048-8M-50	381	3048	120.00	2.44
D3048-8M-85	381	3048	120.00	4.15
D3280-8M-20	410	3280	129.00	1.05
D3280-8M-30	410	3280	129.00	1.58
D3280-8M-50	410	3280	129.00	2.63
D3280-8M-85	410	3280	129.00	4.47
D3600-8M-20	450	3600	142.00	1.15
D3600-8M-30	450	3600	142.00	1.73
D3600-8M-50	450	3600	142.00	2.89
D3600-8M-85	450	3600	142.00	4.90
D4400-8M-20	550	4400	173.00	1.41
D4400-8M-30	550	4400	173.00	2.12
D4400-8M-50	550	4400	173.00	3.53
D4400-8M-85	550	4400	173.00	5.99
14M Pitch – High Torque Synchronous Sprockets: MPB, QD, Taper Bushed (14mm)				
D966-14M-115	69	966	38.00	2.86
D966-14M-170	69	966	38.00	4.22
D966-14M-40	69	966	38.00	0.99
D966-14M-55	69	966	38.00	1.37
D966-14M-85	69	966	38.00	2.11

Part Number	Number Of Teeth	Pitch Length (mm)	Pitch Length (in)	Weight (lbs)
14M Pitch – High Torque Synchronous (HTS) Sprockets: MPB, QD, Taper Bushed (14mm)				
D1190-14M-115	85	1190	46.90	3.52
D1190-14M-170	85	1190	46.90	5.20
D1190-14M-40	85	1190	46.90	1.22
D1190-14M-55	85	1190	46.90	1.68
D1190-14M-85	85	1190	46.90	2.60
D1400-14M-115	100	1400	55.00	4.14
D1400-14M-170	100	1400	55.00	6.12
D1400-14M-40	100	1400	55.00	1.44
D1400-14M-55	100	1400	55.00	1.98
D1400-14M-85	100	1400	55.00	3.06
D1610-14M-115	115	1610	63.00	4.76
D1610-14M-170	115	1610	63.00	7.04
D1610-14M-40	115	1610	63.00	1.66
D1610-14M-55	115	1610	63.00	2.28
D1610-14M-85	115	1610	63.00	3.52
D1778-14M-115	127	1778	70.00	5.26
D1778-14M-170	127	1778	70.00	7.77
D1778-14M-40	127	1778	70.00	1.83
D1778-14M-55	127	1778	70.00	2.51
D1778-14M-85	127	1778	70.00	3.88
D1890-14M-115	135	1890	74.00	5.59
D1890-14M-170	135	1890	74.00	8.26
D1890-14M-40	135	1890	74.00	1.94
D1890-14M-55	135	1890	74.00	2.67
D1890-14M-85	135	1890	74.00	4.13
D2100-14M-115	150	2100	83.00	6.21
D2100-14M-170	150	2100	83.00	9.18
D2100-14M-40	150	2100	83.00	2.16
D2100-14M-55	150	2100	83.00	2.97
D2100-14M-85	150	2100	83.00	4.59
D2310-14M-115	165	2310	91.00	6.83
D2310-14M-170	165	2310	91.00	10.09
D2310-14M-40	165	2310	91.00	2.38

Part Number Example: **D2400-8M-50** = **D** (Dual Sided Cog Construction) **2400** (Pitch Length (millimeters)) - **8M** (Tooth Pitch (RPP tooth profile)) - **50** (Width (millimeters))

Part Number	Number Of Teeth	Pitch Length (mm)	Pitch Length (in)	Weight (lbs)
14M Pitch – High Torque Synchronous (HTS) Sprockets: MPB, QD, Taper Bushed (14mm)				
D2310-14M-55	165	2310	91.00	3.27
D2310-14M-85	165	2310	91.00	5.05
D2450-14M-115	175	2450	96.00	7.24
D2450-14M-170	175	2450	96.00	10.71
D2450-14M-40	175	2450	96.00	2.52
D2450-14M-55	175	2450	96.00	3.46
D2450-14M-85	175	2450	96.00	5.35
D2590-14M-115	185	2590	102.00	7.66
D2590-14M-170	185	2590	102.00	11.32
D2590-14M-40	185	2590	102.00	2.66
D2590-14M-55	185	2590	102.00	3.66
D2590-14M-85	185	2590	102.00	5.66
D2800-14M-115	200	2800	110.00	8.28
D2800-14M-170	200	3150	110.00	12.24
D2800-14M-40	200	2800	110.00	2.88
D2800-14M-55	200	2800	110.00	3.96
D2800-14M-85	200	2800	110.00	6.12
D3150-14M-115	225	3150	124.00	9.31
D3150-14M-170	225	3360	124.00	13.76
D3150-14M-40	225	3150	124.00	3.24
D3150-14M-55	225	3150	124.00	4.45
D3150-14M-85	225	3150	124.00	6.88
D3360-14M-115	240	3360	132.00	9.93
D3360-14M-170	240	3360	132.00	14.68
D3360-14M-40	240	3360	132.00	3.45
D3360-14M-55	240	3360	132.00	4.75
D3360-14M-85	240	3360	132.00	7.34
D3500-14M-115	250	3500	138.00	10.35
D3500-14M-170	250	3500	138.00	15.29
D3500-14M-40	250	3500	138.00	3.60
D3500-14M-55	250	3500	138.00	4.95
D3500-14M-85	250	3500	138.00	7.65
D3850-14M-115	275	3850	152.00	11.38

Part Number	Number Of Teeth	Pitch Length (mm)	Pitch Length (in)	Weight (lbs)
14M Pitch – High Torque Synchronous (HTS) Sprockets: MPB, QD, Taper Bushed (14mm)				
D3850-14M-170	275	3850	152.00	16.82
D3850-14M-40	275	3850	152.00	3.96
D3850-14M-55	275	3850	152.00	5.44
D3850-14M-85	275	3850	152.00	8.41
D4326-14M-115	309	4326	170.00	12.79
D4326-14M-170	309	4326	170.00	18.90
D4326-14M-40	309	4326	170.00	4.45
D4326-14M-55	309	4326	170.00	6.12
D4326-14M-85	309	4326	170.00	9.45
D4578-14M-115	327	4578	180.00	13.53
D4578-14M-170	327	4578	180.00	20.01
D4578-14M-40	327	4578	180.00	0.47
D4578-14M-55	327	4578	180.00	6.47
D4578-14M-85	327	4578	180.00	10.00
D4956-14M-115	354	4956	195.00	14.65
D4956-14M-170	354	4956	195.00	21.66
D4956-14M-40	354	4956	195.00	5.10
D4956-14M-55	354	4956	195.00	7.01
D4956-14M-85	354	4956	195.00	10.83

Dual Synchronous
Sleeves

MADE IN USA

- **Full factory width sleeves**
- **All sleeves will have the edges trimmed before shipment**
- **Cut sleeves cannot be accepted for return**
- **All weights are approximate**

Timken maintains inventory of most Carlisle® sleeve sizes. Non-stock sizes will be indicated by an asterisk following the part number. Contact customer service for availability. Minimum order quantity and/or extended lead times may apply.

Occasional production inconsistencies which may render a portion of the sleeve unusable can be present as a normal part of the production process.

Each sleeve is inspected to ensure that it contains 90% or more usable product. A full width sleeve with less than 10% unusable product is considered acceptable.

Dual Synchronous Sleeve Part Numbers

Part Number	Sleeve Width (mm)	Sleeve Weight (lbs)
8M Pitch – High Torque Synchronous (HTS) Sprockets: MPB, QD, Taper Bushed (8mm)		
D720-8M-150SL	150	1.73
D800-8M-150SL	150	1.92
D840-8M-150SL	150	2.02
D880-8M-150SL	150	2.12
D920-8M-150SL	150	2.21
D960-8M-215SL	215	3.31
D1040-8M-215SL	215	3.58
D1120-8M-215SL	215	3.86
D1200-8M-215SL	215	4.14
D1224-8M-150SL	150	4.22
D1280-8M-215SL	215	4.41
D1440-8M-215SL	215	4.96
D1600-8M-215SL	215	5.51
D1760-8M-215SL	215	6.07
D1800-8M-215SL	215	6.20
D2000-8M-215SL	215	6.89
D2200-8M-215SL	215	7.58
D2400-8M-215SL	215	8.27
D2600-8M-215SL	215	8.96
D2800-8M-215SL	215	9.65
D3048-8M-215SL	215	10.50
D3280-8M-215SL	215	11.30
D3600-8M-215SL	215	12.41
D4400-8M-215SL	215	15.16

Part Number Example: **D1200-8M-215SL** = D – 1200 8M – 215 SL

- D: Dual Sided Cog Construction
- 1200: Pitch Length (millimeters)
- 8M: Tooth Pitch (RPP tooth profile)
- 215: Width (millimeters)
- SL: Sleeve

Part Number	Sleeve Width (mm)	Sleeve Weight (lbs)
14M Pitch – High Torque Synchronous (HTS) Sprockets: MPB, QD, Taper Bushed (14mm)		
D966-14M-170SL	170	4.22
D1190-14M-170SL	170	5.20
D1400-14M-215SL	215	7.74
D1610-14M-215SL	215	8.90
D1778-14M-215SL	215	9.83
D1890-14M-215SL	215	10.45
D2100-14M-215SL	215	11.61
D2310-14M-215SL	215	12.77
D2450-14M-215SL	215	13.54
D2590-14M-215SL	215	14.31
D2800-14M-215SL	215	15.47
D3150-14M-215SL	215	17.41
D3360-14M-215SL	215	18.57
D3500-14M-215SL	215	19.34
D3850-14M-215SL	215	21.28
D4326-14M-215SL	215	23.91
D4578-14M-215SL	215	25.30
D4956-14M-215SL	215	27.39