



TIRE INDUSTRY CATALOG



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Rexnord meets your conveying and power transmission needs with a full line of products to support the tire industry. Rexnord's plastic conveying chains, couplings, bearings, speed reducers, engineered chain, brakes and clutches are all used in the industry to move product throughout the plant. Whether the application is in rubber processing or tire making, Rexnord has the solution. Products from Rexnord are engineered to meet the most demanding applications while providing reliable long life.



CATALOG PAGES / APPLICATION PHOTOGRAPHS

Rex® LBP3003 MatTop® Chain
 Rex® LBP3004 MatTop® Chain

CATALOG PAGES / APPLICATION PHOTOGRAPHS

Rex® LBP3003 MatTop® Chain
 Rex® LBP3004 MatTop® Chain
 Rex® LBP3000 Series MatTop® Chain Compatible Sprockets
 Rex® 5995 MatTop® Chain
 Rex® 5998 MatTop® Chain
 Rex® 5590 Series MatTop® Chain Compatible Sprockets
 Rex® 7705 MatTop® Chain
 Rex® 7705 RubberTop™ MatTop® Chain
 Rex® 7708 MatTop® Chain
 Rex® 7700 Series MatTop® Chain Compatible Sprockets
 Rex® 8506 MatTop® Chain
 Rex® 8507 MatTop® Chain
 Rex® 8500 Series MatTop® Chain Compatible Sprockets

LBP 3004 transfer Application Photograph



LBP 3003 Application Photograph



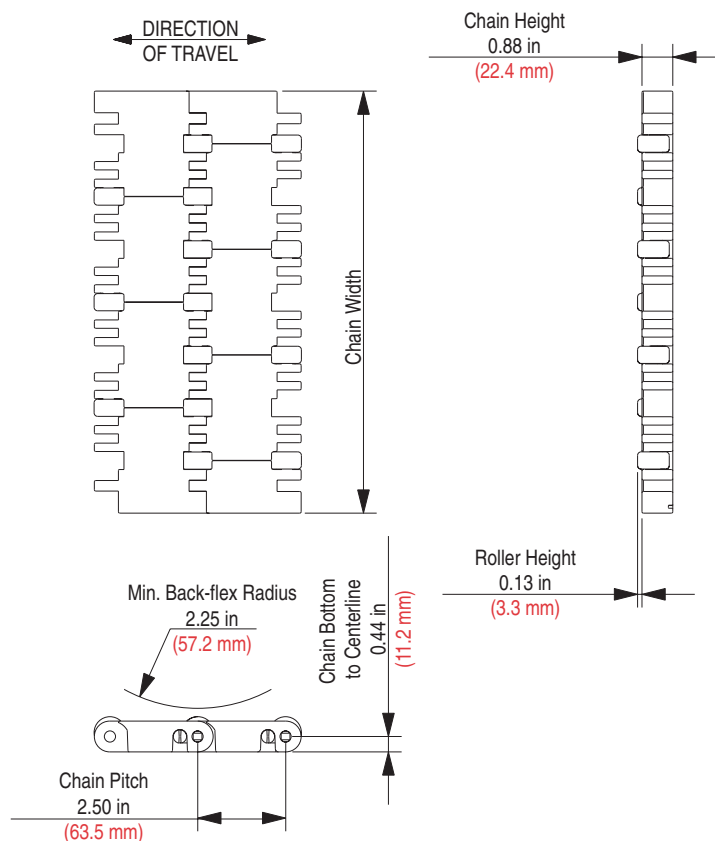


Chain is shown in Black High Temperature (HTB) material.

Number of Sprockets

Chain Capacity	Number of Sprockets	
	per ft of width	per m of width
0% - 70%	2	7
70% - 100%	3	10

Chain Drawing



Available Materials

[illegible]

Standard materials are highlighted. All other materials are available on a made-to-order basis subject to minimum order requirements. Chain strength is listed at room temperature. NR = Not Recommended.

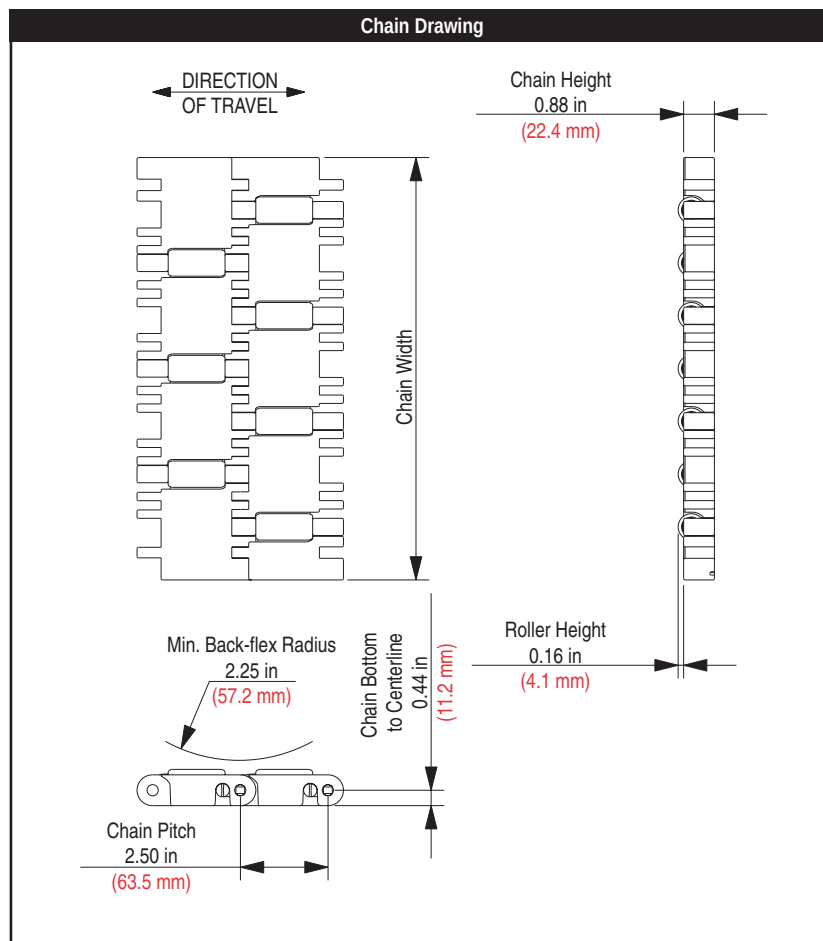
The Food and Drug Administration (FDA) accepts certain materials for direct food contact. FDA approved material is compliant to FDA 21 CFR § 177.

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1. Chain widths are available in increments of 1½ in (38.1 mm).
2. Open area = 3.3%.
3. Rex® HP™ acetel rollers



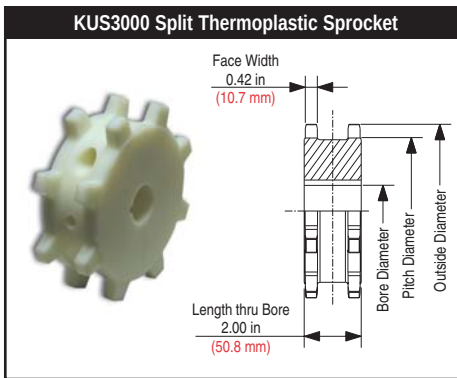
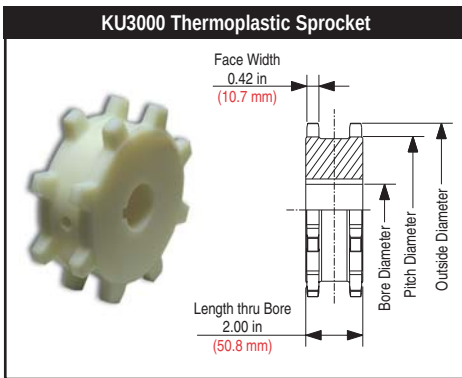
Chain Information		
Chain Capacity	Number of Sprockets	
	per ft of width	per m of width
0% - 70%	2	7
70% - 100%	3	10

[illegible]

Standard materials are highlighted. All other materials are available on a made-to-order basis subject to minimum order requirements. Chain strength is listed at room temperature. NR = Not Recommended.

Additional Notes

1. Chain widths are available in increments of 1½ in (38.1 mm).
2. Open area = 3.3%.
3. Rex® HP™ acetal rollers



KU3000 Thermoplastic Sprocket Information																			
Number of Teeth		Pitch Diameter		Outside Diameter		Bore Diameter (Shaft-Ready)								Bore Diameter (Idler)				Approximate Weight	
						Round				Square									
						in		mm		in		mm		in		mm			
actual	effect	in	mm	in	mm	min	max	min	max	min	max	min	max	min	max	min	max	lbs	kg
8	8	6.494	164.95	6.398	162.51	1-3/4	3	45	85	1	2-7/8	25	70	1	4	25	100	1.70	0.77
13	13	10.384	263.75	10.481	266.22	2	6-3/4	65	175	1	5-3/4	25	145	1	7	25	180	5.32	2.41

Shaft-ready round bore sprockets are shipped with keyway and setscrew.

KUS3000 Split Thermoplastic Sprocket Information																			
Number of Teeth		Pitch Diameter		Outside Diameter		Bore Diameter (Shaft-Ready)								Bore Diameter (Idler)				Approximate Weight	
						Round				Square									
						in		mm		in		mm		in		mm			
actual	effect	in	mm	in	mm	min	max	min	max	min	max	min	max	min	max	min	max	lbs	kg
8	8	6.494	164.95	6.398	162.51	1-3/4	2-1/4	45	65	1	2	25	55	1	4	25	100	1.85	0.84
13	13	10.384	263.75	10.481	266.22	2	5-3/4	65	120	1	5-1/2	25	135	1	7	25	180	5.55	2.52

Shaft-ready round bore sprockets are shipped with keyway and setscrews.

HT 5998 Application Photograph



Rex® HT5998 chain has the durability to handle Dip Tank applications with reliable longevity. The 2-1/4 inch pitch chain is designed with engineered chain technology originating from the aggregate industry to provide continuous positive chain/sprocket interaction, even in abrasive applications. The 40% open area insures continuous, uniform coating of the rubber for non-stick palletizing.

HS 5998 Application Photograph



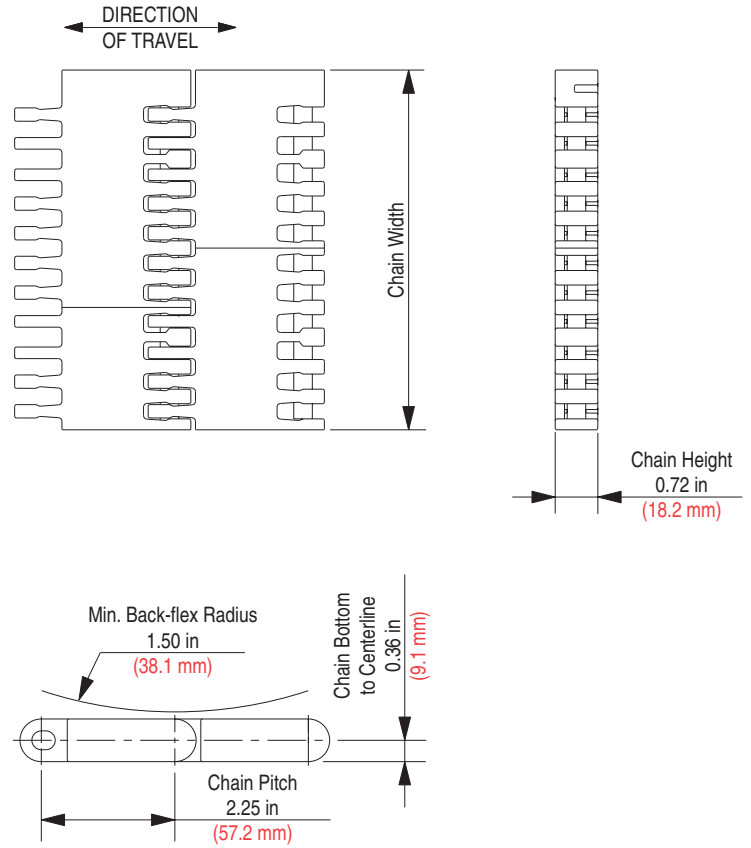
Rex® HS5998 chain is ideal for cooling applications. The surface of the chain has 45% open area to provide uniform quick cooling through a water bath or water spray. The chain also works well in air cooling applications. The chain has a rigid link/pin design that prevents pulsation, providing a uniform, consistent rubber surface and thickness.

5995



Chain is shown in White Cut Resistant (WSM) material.

Chain Drawing



Chain Information

Chain Capacity	Number of Sprockets	
	per ft of width	per m of width
0% - 50%	2	7
50% - 100%	4	13

Available Materials

Prefix	Chain Material	Standard Pin Material	Temperature						Chain Strength		Approximate Weight		FDA Approval
			Fahrenheit			Celsius							
			min	max		min	max		lbs/ft	N/m	lbs/ft²	kg/m²	
	dry	wet		dry	wet								
AS	Anti-Static	Polypropylene	0	+180	+150	-18	+82	+66	2,100	30,639	3.00	14.65	-
HP™	High Performance	Polypropylene	-40	+180	+150	-40	+82	+66	3,500	51,065	3.00	14.65	✓
WHP	White High Performance	Polypropylene	-40	+180	+150	-40	+82	+66	3,500	51,065	3.00	14.65	✓
HT	High Temperature	Polypropylene	+40	+220	+212	+4	+104	+100	2,400	35,016	2.20	10.74	✓
WHT	White High Temperature	Polypropylene	+40	+220	+212	+4	+104	+100	2,400	35,016	2.20	10.74	✓
RHT	Red High Temperature	Polypropylene	+40	+220	+212	+4	+104	+100	2,400	35,016	2.20	10.74	✓
LF	Low Friction	Polypropylene	-40	+180	+150	-40	+82	+66	3,500	51,065	3.00	14.65	✓
WLF	White Low Friction	Polypropylene	-40	+180	+150	-40	+82	+66	3,500	51,065	3.00	14.65	✓
WLT	White Low Temperature	Polyethylene	-100	+80	+80	-73	+27	+27	1,600	23,344	2.30	11.23	✓
BLT	Blue Low Temperature	Polyethylene	-100	+80	+80	-73	+27	+27	1,600	23,344	2.30	11.23	✓
WSM	White Cut Resistant	Polypropylene	-40	+180	+150	-40	+82	+66	3,500	51,065	3.00	14.65	✓
DUV	Ultraviolet Resistant	Polypropylene	0	+180	+150	-18	+82	+66	3,500	51,065	3.00	14.65	-
LUV	Low Temp. Ultraviolet Resistant	Polyethylene	-40	+80	+80	-40	+27	+27	1,600	23,344	2.30	11.23	-
HUV	High Temp. Ultraviolet Resistant	Polypropylene	+40	+220	+180	+4	+104	+82	2,400	35,016	2.20	10.74	-

Standard materials are highlighted. All other materials are available on a made-to-order basis. Chain strength is listed at room temperature. NR = Not Recommended.

Regulatory Information

The Food and Drug Administration (FDA) accepts certain materials for direct food contact. FDA approved material is compliant to FDA 21 CFR § 177.

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U.S. Patents: 4858753, 5096053, 5020659

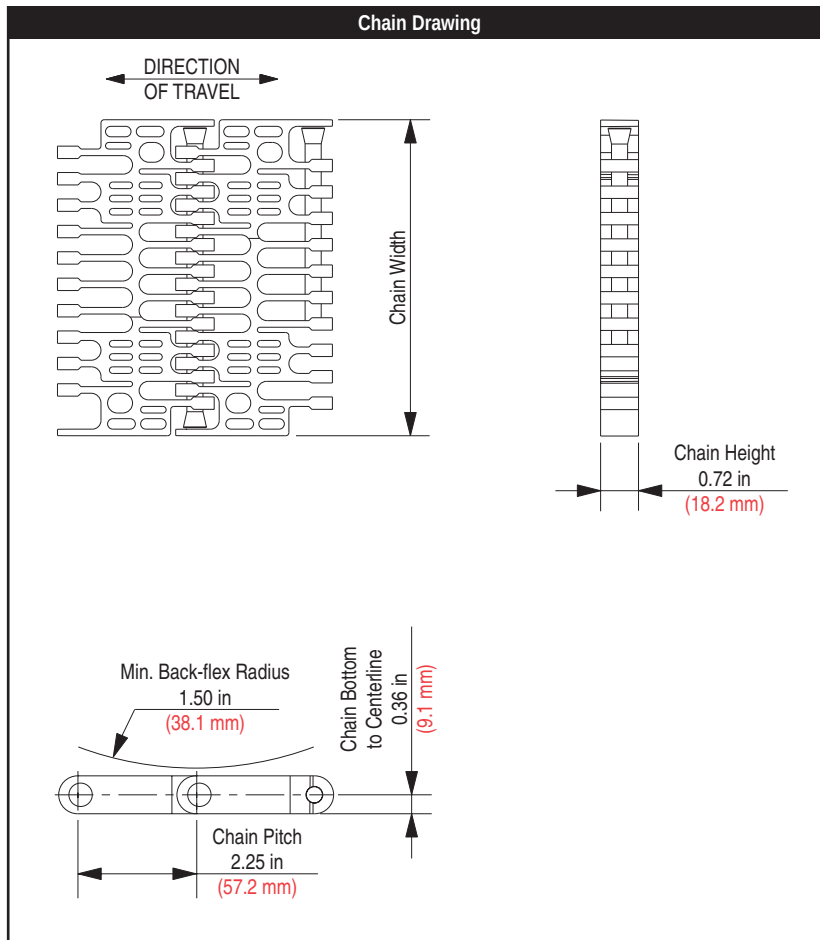
Additional Notes

- Chain widths are available in increments of 1/2 in (12.7 mm).
- Open area = 12.0%.
- Stainless steel pins are available on a made-to-order basis.



Chain is shown in White High Temperature (WHT) material.

Chain Information		
Chain Capacity	Number of Sprockets	
	per ft of width	per m of width
0% - 50%	2	7
50% - 100%	4	13



Available Materials													
Prefix	Chain Material	Standard Pin Material	Temperature						Chain Strength		Approximate Weight		FDA Approva
			Fahrenheit			Celsius							
			min	max		min	max		lbs/ft	N/m	lbs/ft²	kg/m²	
WD	White Plain Acetal	Polypropylene	-40	+180	+150	-40	+82	+66	3,500	51,065	2.30	11.23	✓
HS	Heat Stabilized	Polypropylene	-40	+220	+212	-40	+104	+100	3,500	51,065	2.30	11.23	-
HT	High Temperature	Polypropylene	+40	+220	+212	+4	+104	+100	2,400	35,016	1.70	8.30	✓
WHT	White High Temperature	Polypropylene	+40	+220	+212	+4	+104	+100	2,400	35,016	1.70	8.30	✓
RHT	Red High Temperature	Polypropylene	+40	+220	+212	+4	+104	+100	2,400	35,016	1.70	8.30	✓
WLT	White Low Temperature	Polyethylene	-100	+80	+80	-73	+27	+27	1,600	23,344	1.80	8.79	✓
BLT	Blue Low Temperature	Polyethylene	-100	+80	+80	-73	+27	+27	1,600	23,344	1.80	8.79	✓
LUV	Low Temp. Ultraviolet Resistant	Polyethylene	-40	+80	+80	-40	+27	+27	1,600	23,344	1.80	8.79	-
HUV	High Temp. Ultraviolet Resistant	Polypropylene	+40	+220	+180	+4	+104	+82	2,400	35,016	1.70	8.30	-

Standard materials are highlighted. All other materials are available on a made-to-order basis. Chain strength is listed at room temperature. NR = Not Recommended.

Regulatory Information

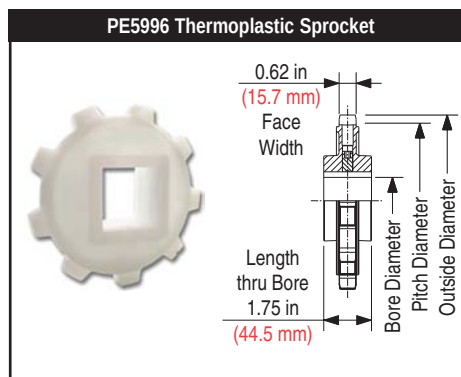
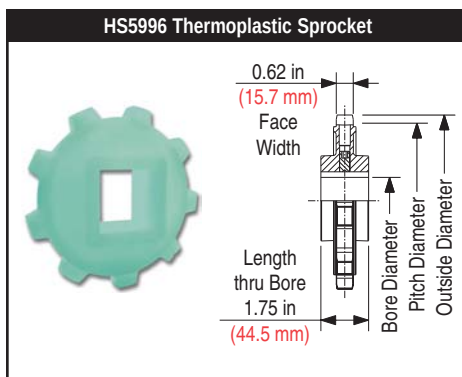
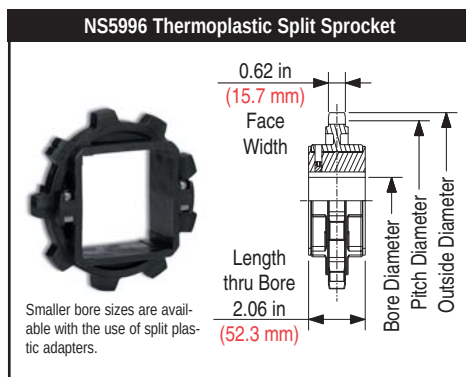
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U.S. Patents: 5816390, 5573106

Additional Notes

- Chain widths are available in increments of 1/2 in (12.7 mm).
- Open area = 45.0%.
- Stainless steel pins are available on a made-to-order basis.

[illegible]

* The 3-1/2 in and 90 mm bores for the 9 and 12 tooth square bore sprockets are supplied as molded bores. All other bores are supplied with split bore adapters.

** The 3-1/2 in, 4-1/2 in, 90 mm and 120 mm bores for the 14 tooth square bore sprockets are supplied as molded bores. All other bores are supplied with split bore adapters.

Shaft-ready round bores are shipped with keyway and setscrews. Metric shaft-ready round bores are shipped with metric hardware, but without setscrews. Idler bores are designed to spin freely on the shaft without keyway or setscrews.

[illegible]

Shaft-ready round bores are shipped with keyway and setscrews.

[illegible]

Shaft-ready round bores are shipped with keyway and setscrews.

HP™ 7705 Application Photograph



Rex® HP™7705 is an ideal chain for handling tires out of the molding machines. HP™ (High Performance) material provides a low friction surface for the tires to transfer onto with the temperature capabilities for handling newly formed tires. Rex® HP™7705 provides a uniform, non-stick surface that delicately handles the newly formed tires. The chain operates smoothly and reliably with positive drive sprocket/chain interaction to provide maintenance free performance.

7705 RubberTop™ Application Photograph

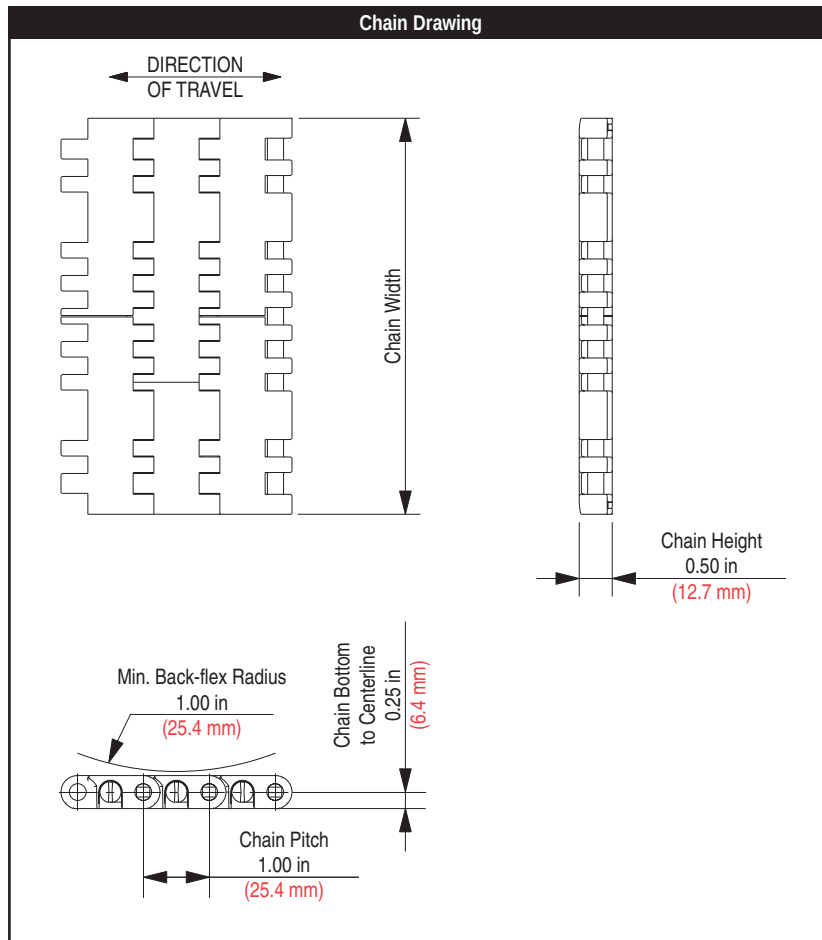


HTF7705 RubberTop™ chain works well for incline conveying tires of all sizes. Elevations of 50° or more are obtainable with the specially designed high friction pads. In comparison to traditional rubber belting, the polypropylene links offer reduced chain tension, resulting in smooth operation and increased chain life. The chain is also designed with deep and wide sprocket pockets for continuous tracking capabilities and excellent chain/sprocket interaction for reliable long life operation. Combining the chain drive pocket design with the durable sprocket design allows a high working load under almost any condition. HTF7705 & TCF7705 chains are the solution to incline conveying applications.



Chain is shown in High Performance (HP™) material.

Chain Information		
Chain Capacity	Number of Sprockets	
	per ft of width	per m of width
0% - 50%	2	7
50% - 100%	4	13



Available Materials													
Prefix	Chain Material	Standard Pin Material	Temperature						Chain Strength		Approximate Weight		FDA Approva
			Fahrenheit			Celsius							
			min	max		min	max		lbs/ft	N/m	lbs/ft²	kg/m²	
AS	Anti-Static	Polyester	0	+180	+150	-18	+82	+66	1,770	25,824	2.76	13.47	-
FR	Flame Retardant	Polyester	0	+180	+140	-18	+82	+60	2,508	36,592	2.76	13.47	-
HP™	High Performance	Polyester	-40	+180	+150	-40	+82	+66	2,950	43,041	2.76	13.47	✓
WHP	White High Performance	Polyester	-40	+180	+150	-40	+82	+66	2,950	43,041	2.76	13.47	✓
HT	High Temperature	Polypropylene	+40	+220	+212	+4	+104	+100	1,800	26,262	1.85	9.03	✓
WHT	White High Temperature	Polypropylene	+40	+220	+212	+4	+104	+100	1,800	26,262	1.85	9.03	✓
RHT	Red High Temperature	Polypropylene	+40	+220	+212	+4	+104	+100	1,800	26,262	1.85	9.03	✓
P	Chemical Resistant	Polyester	0	+180	+140	-18	+82	+60	2,360	34,432	2.76	13.47	✓
DUV	Ultraviolet Resistant	Polyester	0	+180	+150	-18	+82	+66	2,950	43,041	2.76	13.47	-
HUV	High Temp. Ultraviolet Resistant	Polypropylene	+40	+220	+180	+4	+104	+82	1,800	26,262	1.85	9.03	-
PS	Platinum Series	Polyester	-40	+180	+150	-40	+82	+66	2,950	43,041	2.76	13.47	✓

Standard materials are highlighted. All other materials are available on a made-to-order basis.
Chain strength is listed at room temperature. NR = Not Recommended.

Regulatory Information
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U.S. Patent: 5335768

Additional Notes
1. Chain widths are available in increments of 1/2 in (12.7 mm).
2. Open area = 3.0%.
3. Stainless steel pins are available on a made-to-order basis.

7708

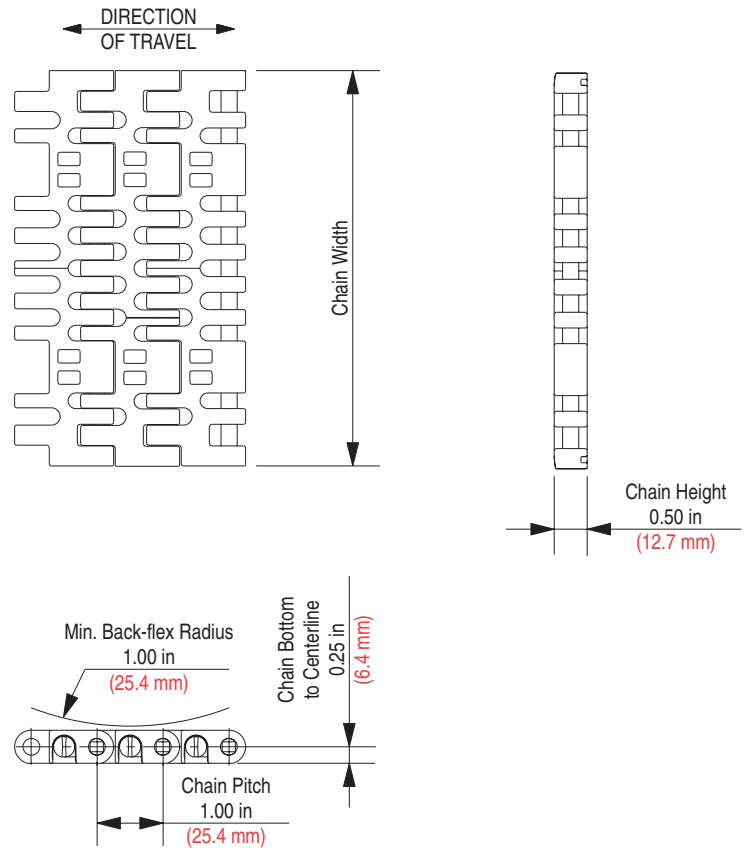


Chain is shown in High Temperature (HT) material.

Chain Information

Chain Capacity	Number of Sprockets	
	per ft of width	per m of width
0% - 50%	2	7
50% - 100%	4	13

Chain Drawing



Available Materials

Prefix	Chain Material	Standard Pin Material	Temperature						Chain Strength		Approximate Weight		FDA Approval
			Fahrenheit			Celsius							
			min	max		min	max		lbs/ft	N/m	lbs/ft²	kg/m²	
AS	Anti-Static	Polyester	0	+180	+150	-18	+82	+66	1,770	25,824	2.38	11.62	-
CR	Extreme Chemical Resistant	Polypropylene	+40	+250	+212	+4	+121	+100	2,360	34,432	3.16	15.43	✓
ESD	Electrostatic Dissipative	Polyester	0	+180	+180	-18	+82	+82	1,800	26,262	1.60	7.81	-
FR	Flame Retardant	Polyester	0	+180	+140	-18	+82	+60	2,508	36,592	2.38	11.62	-
HP™	High Performance	Polyester	-40	+180	+150	-40	+82	+66	2,950	43,041	2.38	11.62	✓
WHP	White High Performance	Polyester	-40	+180	+150	-40	+82	+66	2,950	43,041	2.38	11.62	✓
HS	Heat Stabilized	Polypropylene	-40	+220	+212	-40	+104	+100	2,000	29,180	2.38	11.62	-
HT	High Temperature	Polypropylene	+40	+220	+212	+4	+104	+100	1,800	26,262	1.60	7.81	✓
WHT	White High Temperature	Polypropylene	+40	+220	+212	+4	+104	+100	1,800	26,262	1.60	7.81	✓
RHT	Red High Temperature	Polypropylene	+40	+220	+212	+4	+104	+100	1,800	26,262	1.60	7.81	✓
KHT	Khaki High Temperature	Polypropylene	+40	+220	+212	+4	+104	+100	1,800	26,262	1.60	7.81	✓
LF	Low Friction	Polyester	-40	+180	+150	-40	+82	+66	2,950	43,041	2.38	11.62	✓
WLF	White Low Friction	Polyester	-40	+180	+150	-40	+82	+66	2,950	43,041	2.38	11.62	✓
WLT	White Low Temperature	Polyethylene	-100	+80	+80	-73	+27	+27	800	11,672	1.60	7.81	✓
BLT	Blue Low Temperature	Polyethylene	-100	+80	+80	-73	+27	+27	800	11,672	1.60	7.81	✓
MR	Melt Resistant	Polyester	-80	+220	NR	-62	+104	NR	2,950	43,041	2.38	11.62	-
P	Chemical Resistant	Polyester	0	+180	+140	-18	+82	+60	2,360	34,432	2.38	11.62	✓
DUV	Ultraviolet Resistant	Polyester	0	+180	+150	-18	+82	+66	2,950	43,041	2.38	11.62	-
LUV	Low Temp. Ultraviolet Resistant	Polyethylene	-40	+80	+80	-40	+27	+27	800	11,672	1.60	7.81	-
HUV	High Temp. Ultraviolet Resistant	Polypropylene	+40	+220	+180	+4	+104	+82	1,800	26,255	1.60	7.81	-
PS	Platinum Series	Polyester	-40	+180	+150	-40	+82	+66	2,950	43,041	2.38	11.62	✓

Standard materials are highlighted. All other materials are available on a made-to-order basis. Chain strength is listed at room temperature. NR = Not Recommended.

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U.S. Patent: 5335768

Additional Notes

- Chain widths are available in increments of 1/2 in (12.7 mm).
- Open area = 20.0%.
- Stainless steel pins are available on a made-to-order basis.

Technical drawing of the SSS7700 Stainless Steel Split Sprocket. The drawing includes a perspective view of the sprocket on the left and a cross-sectional view on the right. The cross-section shows the sprocket's internal structure, including the bore and the split design. Dimensions are provided in inches and millimeters.

Dimension	Value (inches)	Value (millimeters)
Face Width	0.41 in	(10.5 mm)
Length thru Bore	1.88 in	(47.6 mm)
Bore Diameter		
Pitch Diameter		
Outside Diameter		



The diagram shows a side view of a standard double-flange coupling. The top flange has a face width of 0.41 in (10.5 mm). The total length through the bore is 1.88 in (47.6 mm). Three diameters are indicated at the bottom: Bore Diameter, Pitch Diameter, and Outside Diameter.

NS7700 Thermoplastic Split Sprocket

0.49 in
(12.4 mm)
Face Width

Length thru Bore
2.00 in
(50.8 mm)

Bore Diameter
Pitch Diameter
Outside Diameter



0.49 in
(12.4 mm)

Face Width

Length thru Bore
2.00 in
(50.8 mm)

Bore Diameter

Pitch Diameter

Outside Diameter

[illegible]

* The 3-1/2 in and 90 mm bores for the 21 tooth square bore sprocket and all round bore sprockets above 1-1/2 in. (40 mm) are supplied as molded bores. All other bores are supplied with split bore adapters.

[illegible]

** The 4-1/2 in and 120 mm bores for the 31 tooth square bore sprocket are supplied as molded bores. All other bores are supplied with split bore adapters.

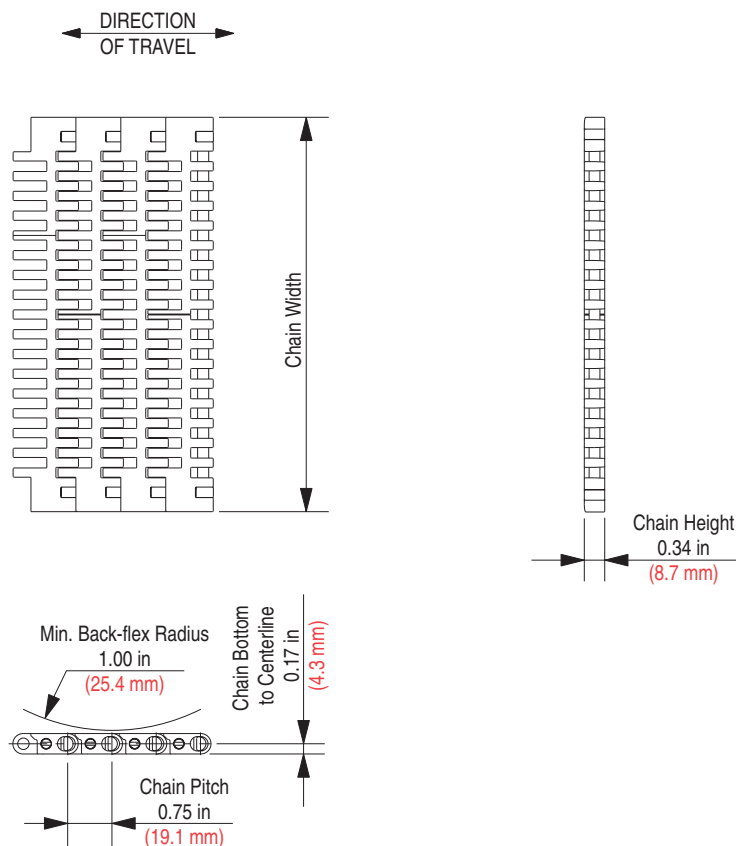


Chain is shown in High Performance (HP™) material.

Chain Information

Chain Capacity	Number of Sprockets	
	per ft of width	per m of width
0% - 25%	2	7
25% - 75%	4	13
75% - 100%	6	20

Chain Drawing



Available Materials

Prefix	Chain Material	Standard Pin Material	Temperature						Chain Strength		Approximate Weight		FDA Approval
			Fahrenheit			Celsius							
			min	max		min	max						
				dry	wet		dry	wet					
AS	Anti-Static	Polyester	0	+180	+150	-18	+82	+66	1,200	17,508	1.61	7.86	-
FR	Flame Retardant	Polyester	0	+180	+140	-18	+82	+60	1,700	24,803	1.61	7.86	-
HP™	High Performance	Polyester	-40	+180	+150	-40	+82	+66	2,000	29,180	1.61	7.86	✓
WHP	White High Performance	Polyester	-40	+180	+150	-40	+82	+66	2,000	29,180	1.61	7.86	✓
HT	High Temperature	Polypropylene	+40	+220	+212	+4	+104	+100	1,080	15,757	1.06	5.17	✓
WHT	White High Temperature	Polypropylene	+40	+220	+212	+4	+104	+100	1,080	15,757	1.06	5.17	✓
RHT	Red High Temperature	Polypropylene	+40	+220	+212	+4	+104	+100	1,080	15,757	1.06	5.17	✓
KHT	Khaki High Temperature	Polypropylene	+40	+220	+212	+4	+104	+100	1,080	15,757	1.06	5.17	✓
LF	Low Friction	Polyester	-40	+180	+150	-40	+82	+66	2,000	29,180	1.61	7.86	✓
WLF	White Low Friction	Polyester	-40	+180	+150	-40	+82	+66	2,000	29,180	1.61	7.86	✓
WLT	White Low Temperature	Polyethylene	-100	+80	+80	-73	+27	+27	800	11,672	1.06	5.17	✓
BLT	Blue Low Temperature	Polyethylene	-100	+80	+80	-73	+27	+27	800	11,672	1.06	5.17	✓
BSM	Black Cut Resistant	Polyester	-40	+180	+150	-40	+82	+66	2,000	29,180	1.61	7.86	✓
P	Chemical Resistant	Polyester	0	+180	+140	-18	+82	+60	1,600	23,344	1.61	7.86	✓
DUV	Ultraviolet Resistant	Polyester	0	+180	+150	-18	+82	+66	2,000	29,180	1.61	7.86	-
LUV	Low Temp. Ultraviolet Resistant	Polyethylene	-40	+80	+80	-40	+27	+27	800	11,672	1.06	5.17	-
HUV	High Temp. Ultraviolet Resistant	Polyester	+40	+220	+180	+4	+104	+82	1,080	15,757	1.06	5.17	-
PS	Platinum Series	Polyester	-40	+180	+150	-40	+82	+66	2,000	29,180	1.61	7.86	✓

Standard materials are highlighted. All other materials are available on a made-to-order basis. Chain strength is listed at room temperature. NR = Not Recommended.

Regulatory Information

The Food and Drug Administration (FDA) accepts certain materials for direct food contact. FDA approved material is compliant to FDA 21 CFR § 177. Rexnord, Rex, MatTop, TwistLock and HP are trademarks of Rexnord Industries, Inc. All rights reserved.

U.S. Patents: 5335768, 4436200

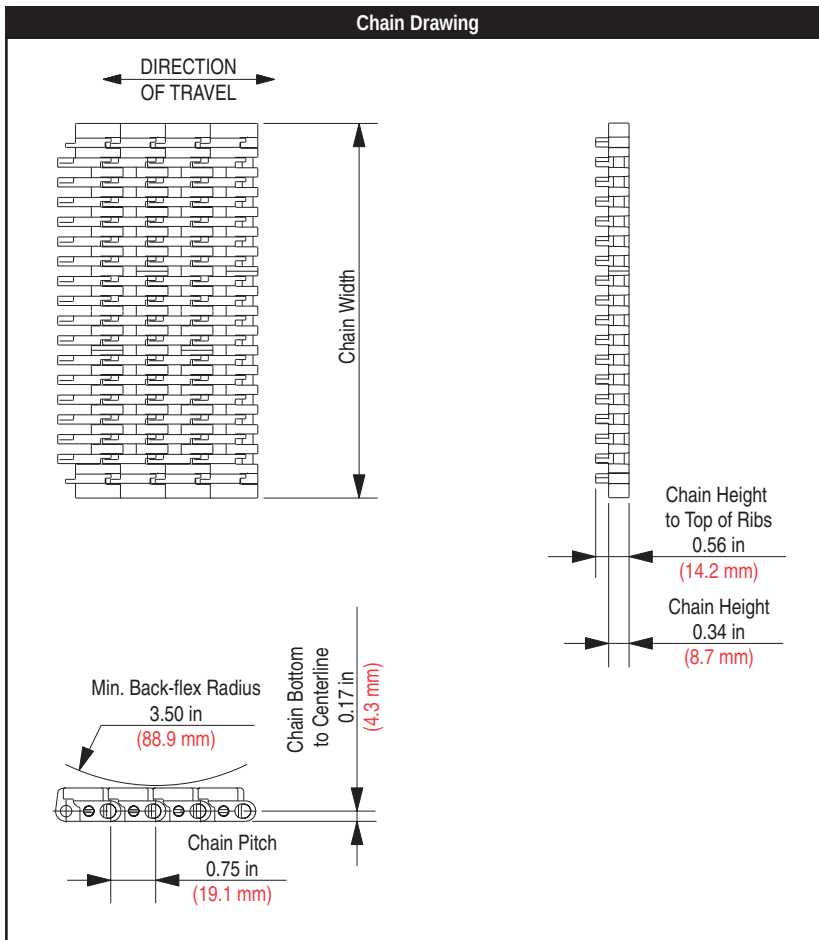
Additional Notes

- Chain widths are available in increments of 1/3 in (8.5 mm).
- Open area = 20.0%.
- Stainless steel pins are available on a made-to-order basis.



Chain is shown in High Performance (HP™) material.

Chain Information				
Chain Capacity	Number of Sprockets			
	with Transfer Comb		without Transfer Comb	
	per ft	per m	per ft	per m
0% - 25%	4	13	2	7
25% - 75%	6	20	4	13
75% - 100%	6	20	6	20



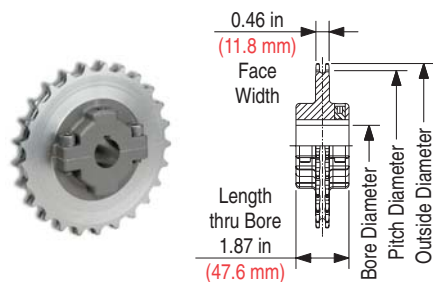
Available Materials													
Prefix	Chain Material	Standard Pin Material	Temperature						Chain Strength		Approximate Weight		FDA Approva
			Fahrenheit			Celsius							
			min	max		min	max						
				dry	wet		dry	wet	lbs/ft	N/m	lbs/ft²	kg/m²	
AS	Anti-Static	Polyester	0	+180	+150	-18	+82	+66	1,200	17,508	2.27	11.08	-
HP™	High Performance	Polyester	-40	+180	+150	-40	+82	+66	2,000	29,180	2.27	11.08	✓
WHP	White High Performance	Polyester	-40	+180	+150	-40	+82	+66	2,000	29,180	2.27	11.08	✓
HT	High Temperature	Polypropylene	+40	+220	+212	+4	+104	+100	1,080	15,757	1.53	7.47	✓
WHT	White High Temperature	Polypropylene	+40	+220	+212	+4	+104	+100	1,080	15,757	1.53	7.47	✓
RHT	Red High Temperature	Polypropylene	+40	+220	+212	+4	+104	+100	1,080	15,757	1.53	7.47	✓
KHT	Khaki High Temperature	Polypropylene	+40	+220	+212	+4	+104	+100	1,080	15,757	1.53	7.47	✓
LF	Low Friction	Polyester	-40	+180	+150	-40	+82	+66	2,000	29,180	2.27	11.08	✓
WLF	White Low Friction	Polyester	-40	+180	+150	-40	+82	+66	2,000	29,180	2.27	11.08	✓
PS	Platinum Series	Polyester	-40	+180	+150	-40	+82	+66	2,000	29,180	2.27	11.08	✓

Standard materials are highlighted. All other materials are available on a made-to-order (MTO) basis. Thermoplastic pins are available upon request. Chain Load Ratings are listed at room temperature. The derate factor is the amount the chain capacity is reduced in comparison to standard acetal. NR = Not Recommended

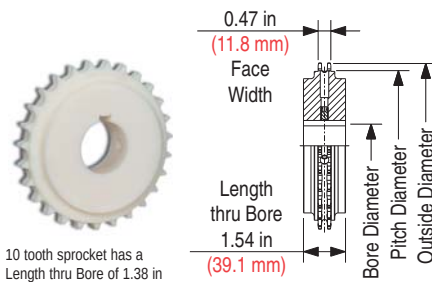
Regulatory Information
The Food and Drug Administration (FDA) accepts certain materials for direct food contact. FDA approved material is compliant to FDA 21 CFR § 177.
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U.S. Patents: 5335768, 4436200

Additional Notes
1. Chain widths are available in increments of 1/3 in (8.5 mm).
2. Open area = 20.0%.
3. Stainless steel pins are available on a made-to-order basis.

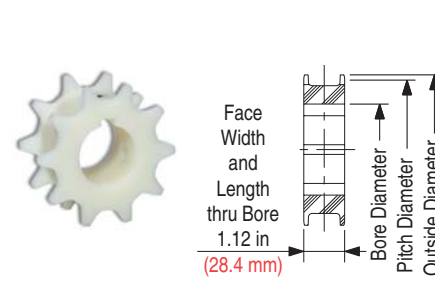
SSS8500 Stainless Steel Split Sprocket



KU8500 Thermoplastic Sprocket



KU8500 Thermoplastic "H-Style" Sprocket



SSS8500 Stainless Steel Split Sprocket Information

304/304 Stainless Steel Spm - Spknot Information																			
Number of Teeth		Pitch Diameter		Outside Diameter		Bore Diameter (Shaft-Ready)								Bore Diameter (Round)				Approximate Weight	
						Round				Square									
						in		mm		in		mm		in		mm			
actual	effect	in	mm	in	mm	min	max	min	max	min	max	min	max	min	max	min	max	lbs	kg
24	24	5.800	147.32	5.84	148.3	1	2	25	50	1	1	25	25	1	2	25	50	4.77	2.16
25	25	6.040	153.42	6.09	154.7	1	2	25	50	1	1	25	25	1	2	25	50	4.97	2.25
27	27	6.521	165.63	6.57	166.9	1	2-1/2	25	60	1	1	25	25	1	3-1/2 *	25	60 *	5.20	2.36

Shaft-ready round bores are shipped with keyway and setscrews. Metric shaft-ready round bores are shipped with metric hardware, but without setscrews.

* The 3-1/2 in and 60 mm bores for the 27 tooth square bore sprocket and all round bore sprockets above 1-1/2 in. (40 mm) are supplied as molded bores. All other bores are supplied with split bore adapters.

KU8500 Thermoplastic Sprocket Information

Number of Teeth		Pitch Diameter		Outside Diameter		Bore Diameter (Shaft-Ready)								Bore Diameter (Idler)				Approximate Weight	
						Round				Square									
						in		mm		in		mm		in		mm			
actual	effect	in	mm	in	mm	min	max	min	max	min	max	min	max	min	max	min	max	lbs	kg
10	10	2.450	62.23	2.42	61.5	3/4	1	25	25	1	1	25	25	3/4	1	25	25	0.28	0.13
17	17	4.120	104.65	4.15	105.4	1	1-1/2	25	40	1	1-1/2	25	40	1	1-1/2	25	40	0.38	0.17
21	21	5.079	129.01	5.12	130.1	1	2-1/2	25	65	1	2-1/2	25	65	1	2-1/2	25	65	0.59	0.27
24	24	5.800	147.32	5.84	148.3	1	3	25	75	1	3	25	75	1	2-1/2	25	65	0.69	0.31
25	25	6.040	153.42	6.09	154.7	1	3	25	75	1	2-1/2	25	65	1	3	25	75	0.75	0.34
27	27	6.520	165.61	6.57	166.9	1	3	25	75	1	3	25	75	1	3	25	75	0.80	0.36
28	28	6.760	171.70	6.81	173.0	1	3	25	75	1	3	25	75	1	3	25	75	0.85	0.39

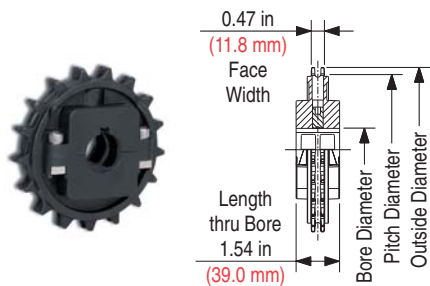
Shaft-ready round bores are shipped with keyway and setscrews. Metric shaft-ready round bores are shipped with metric hardware, but without setscrews. Idler bores are designed to spin freely on the shaft without keyway or setscrews.

KU8500 Thermoplastic "H-Style" Sprocket Information

Number of Teeth		Pitch Diameter		Outside Diameter		Bore Diameter (Shaft-Ready)								Bore Diameter (Idler)				Approximate Weight	
						Round				Square									
						in		mm		in		mm		in		mm			
actual	effect	in	mm	in	mm	min	max	min	max	min	max	min	max	min	max	min	max	lbs	kg
14	14	3.402	86.41	3.40	86.4	1	1-1/4	25	30	1	1-1/2	25	40	1	1-1/4	25	30	0.17	0.08
17	17	4.120	104.65	4.15	105.4	1	1-1/2	25	40	1	2	25	50	1	1-1/2	25	40	0.34	0.15
25	25	6.040	153.42	6.09	154.7	1	3	25	75	1	3	25	80	1	2-1/2	25	65	0.97	0.44
	</																		

Shaft-ready round bores are shipped with keyway and setscrews. Metric shaft-ready round bores are shipped with metric hardware, but without setscrews. Idler bores are designed to spin freely on the shaft without keyway or setscrews.

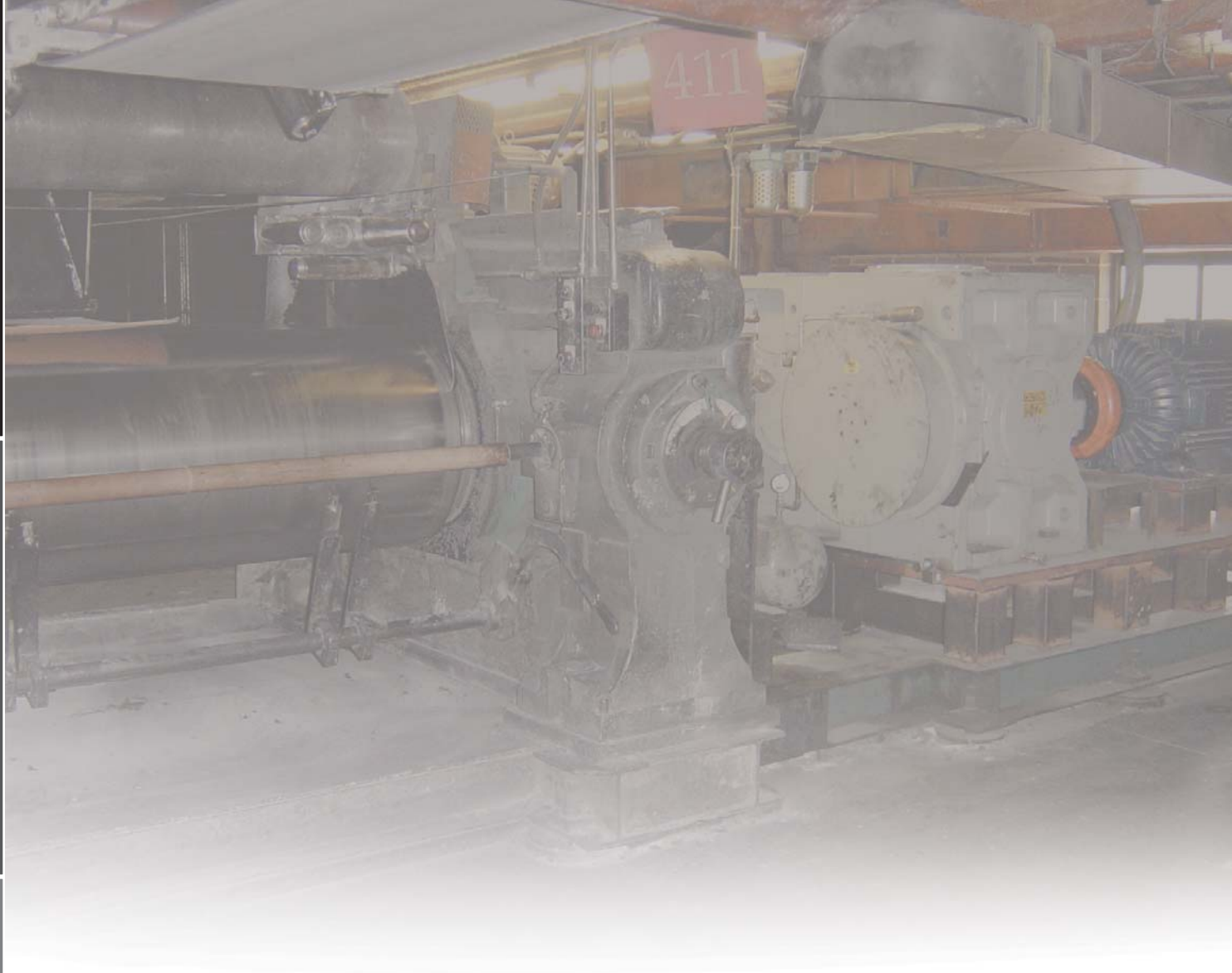
NS8500 Thermoplastic Split Sprocket



NS8500 Thermoplastic Split Sprocket Information

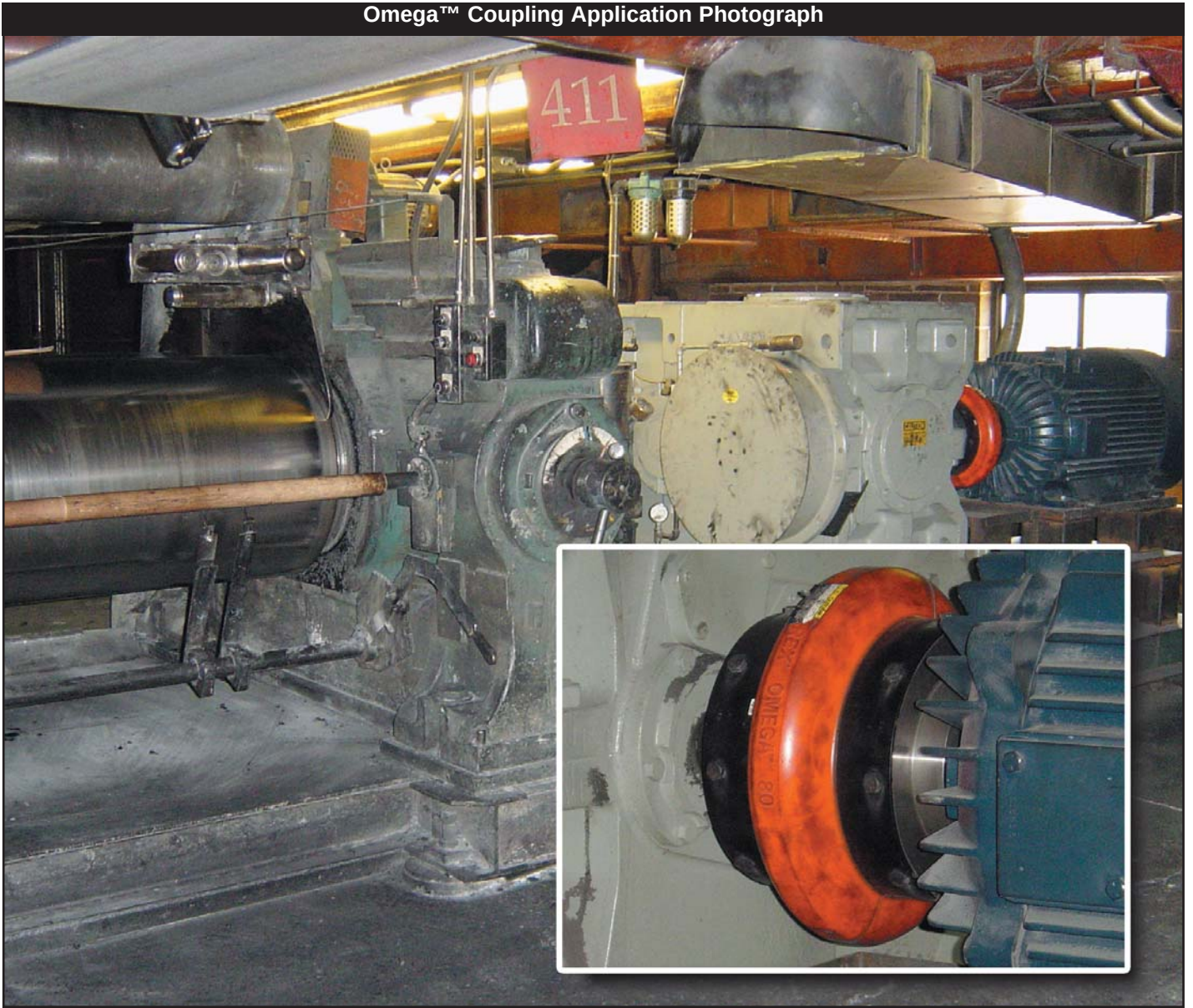
Number of Teeth		Pitch Diameter		Outside Diameter		Bore Diameter (Shaft-Ready)								Bore Diameter (Idler)				Approximate Weight	
						Round				Square									
						in		mm		in		mm		in		mm			
actual	effect	in	mm	in	mm	min	max	min	max	min	max	min	max	min	max	min	max	lbs	kg
17	17	4.120	104.65	4.15	105.4	1	1-1/2	25	40	1	1-1/2	25	40	1	1-1/2	25	40	0.48	0.22
21	21	5.079	129.01	5.12	130.1	1	2	25	50	1	2	25	50	1	2	25	50	0.58	0.26
24	24	5.800	147.32	5.84	148.3	1	2-1/2	25	65	1	2-1/2	25	65	1	2-1/2	25	65	0.68	0.31
25	25	6.040	153.42	6.09	154.7	1	2-1/2	25	65	1	2-1/2	25	65	1	2-1/2	25	65	0.78	0.35
27	27	6.521	165.63	6.57	166.9	1-1/4	2-5/8	35	65	1	2-1/2	25	65	1	3	25	75	1.18	0.54

Shaft-ready round bores are shipped with keyway and setscrews. Metric shaft-ready round bores are shipped with metric hardware, but without setscrews. Idler bores are designed to spin freely on the shaft without keyway or setscrews.



CATALOG PAGES

- Omega™ E80 Coupling Application Photograph
- Omega™ Standard Coupling with Straight Bore Hubs
- Omega™ Standard Coupling with Compression Brushed Hubs
- Omega™ Spacer Coupling with Straight Bore Hubs
- Omega™ Spacer Coupling with Compression Brushed Hubs



Omega™ E80 Coupling on a calender mill.

• Split-In-Half Flex Element

Allows disassembly and replacement without disturbing hubs or connected equipment.

• Reversible Hubs

Accommodates different shaft spacing requirements, and allows compression bushings to be installed from either side of the hub.



Straight Bore Hubs



QD Hubs and Bushings



TAPER-LOCK® Hubs and Bushings

Note: Dimensions subject to change. Certified drawings of ordered material furnished on request.

Specification Data With Straight Bore Hubs

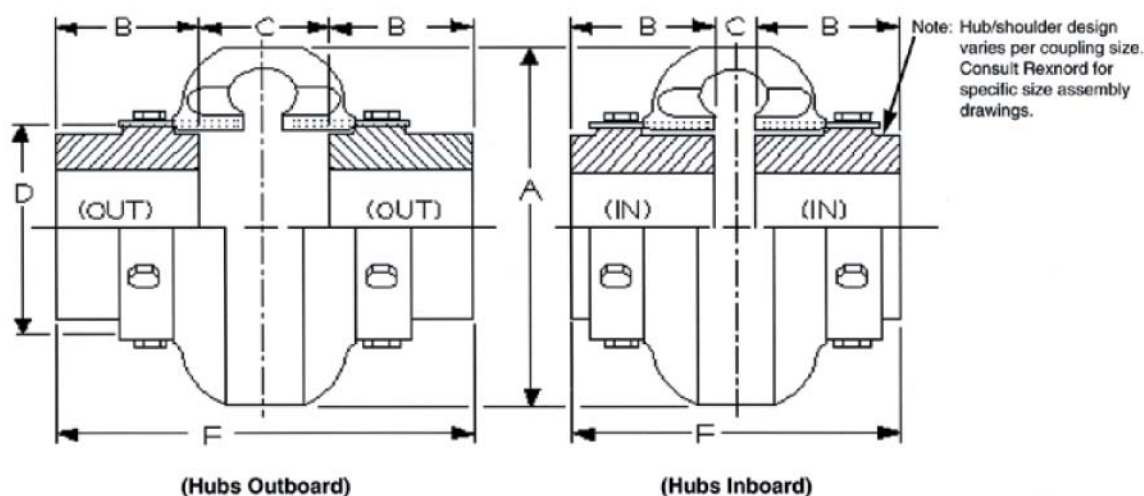
Standard Omega No.	Recom. Max. Bore (In.) ¹	HP/100 RPM ²	Continuous Torque (In. Lbs.) ²	Max. RPM	Dimensions In Inches							Weight (Lb.) ³
					A	B	C		D	F		
							(In.)	(Out)		(In.)	(Out)	
E2	1.13	0.30	190	7500	3.50	0.94	1.34	1.90	1.85	3.22	3.78	1.2
E3	1.38	0.58	365	7500	4.00	1.50	0.81	1.31	2.32	3.81	4.31	2.4
E4	1.63	0.88	550	7500	4.56	1.69	0.44	1.31	2.60	3.81	4.69	3.0
E5	1.88	1.48	925	7500	5.38	1.75	0.81	1.81	3.13	4.31	5.31	5.4
E10	2.13	2.30	1450	7500	6.38	1.88	0.56	1.81	3.65	4.31	5.56	8.2
E20	2.38	3.65	2300	6600	7.25	2.06	0.50	2.38	4.48	4.62	6.50	13.0
E30	2.88	5.79	3650	5800	8.25	2.31	0.56	2.44	5.42	5.19	7.06	21.2
E40	3.38	8.85	5500	5000	9.50	2.50	0.56	2.68	6.63	5.56	7.68	35
E50	3.63	12.14	7650	4200	11.00	2.75	0.63	3.38	8.13	6.13	8.88	54
E60	4.00	19.84	12,500	3800	12.50	3.25	0.69	3.44	8.75	7.19	9.94	72
E70	4.50	35.12	22,125	3600	14.00	3.62	0.75	3.75	9.25	8.00	11.00	86
E80	6.00	62.70	39,500	2000	16.00	4.87	0.75	5.00	11.25	10.50	14.75	170
E100	6.75	135	85,050	1900	21.00	5.50	1.75	3.75	14.13	12.75	14.75	244
E120	7.50	270	170,100	1800	25.00	6.00	2.25	4.88	17.63	14.24	16.88	425
E140	9.00	540	340,200	1500	30.00	7.00	3.00	5.00	20.88	17.00	19.00	746

¹ Standard hubs. See page E-16 for steel hub maximum bores.

² Service factor = 1.0

³ With maximum bore standard hubs.

Hubs Outboard and Inboard Drawings



Specification Data With QD Hubs													
Omega Coupling No.	QD Bush. No.	Recom. Max. Bore (In.) ¹	HP/100 RPM ²	Continuous Torque (In. Lbs.) ²	Max. RPM	Dimensions In Inches							Weight (Lb.) ³
						A	B	C		D	F		
								(In.) ⁴	(Out)		(In.) ⁴	(Out)	
E4	JA	1.25	0.88	550	7500	4.56	1.00	1.22	1.88	2.60	3.22	3.88	2.1
E5	SH	1.63	1.48	925	7500	5.38	1.25	1.75	1.88	3.13	4.25	4.50	3.6
E10	SDS	1.94	2.30	1450	7500	6.38	1.31	1.19	2.31	3.65	3.81	4.94	4.8
E20	SK	2.50	3.65	2300	6600	7.25	1.88	0.62	2.62	4.48	4.25	6.38	8.5
E30	SF	2.81	5.79	3650	5800	8.25	2.00	1.44	2.19	5.42	5.44	6.19	14.0
E40	E	3.50	8.85	5500	5000	9.50	2.63	1.25	1.75	6.63	6.50	7.00	23.8
E50	E	3.50	12.14	7650	4200	11.00	2.63	1.37	2.88	8.13	6.63	8.13	37.6
E60	F	3.94	19.84	12,500	3800	12.50	3.63	1.50	1.89	8.75	8.75	9.13	45.5
E70	J	4.50	35.12	22,125	3600	14.00	4.50	1.31	1.43	9.25	10.31	10.43	68.1
E80	M	5.50	62.70	39,500	2000	16.00	6.75	0.75	1.25	11.25	14.25	14.75	140
E100	M	5.50	135	85,050	1900	21.00	6.80	1.75	1.16	14.13	15.34	14.75	250
E120	N	6.00	270	150000 ⁶	1800	25.00	8.12	1.74	1.16	17.63	17.96	17.38	475
E140	P	7	540	250000 ⁶	1500	30.00	9.36	0.30	3.00	20.88	21.78	19.00	782

NOTE: Dimensions may vary depending on bushing manufacturer.

Specification Data With Straight Bore Hubs													
Omega Coupling No.	Bush. No.	Recom. Max. Bore (In.) ¹	HP/100 RPM ²	Continuous Torque (In. Lbs.) ²	Max. RPM	Dimensions In Inches						Weight (Lb.) ³	
						A	B	C	D	F			
E3	1008	1.00	0.58	365	7500	4.00	0.88	1.68	2.32	3.44	1.8		
E4	1008	1.00	0.88	550	7500	4.56	0.88	1.68	2.60	3.44	2.6		
E5	1108	1.13	1.48	925	7500	5.38	0.88	2.19	3.13	3.94	4.0		
E10	1310	1.44*	2.30	1450	7500	6.38	1.00	2.06	3.65	4.06	6.0		
E20	1610	1.69*	3.65	2300	6600	7.25	1.00	2.50	4.48	4.50	9.0		
E30	2012	2.12*	5.79	3650	5800	8.25	1.25	2.56	5.42	5.06	13.6		
E40	2517	2.69*	8.85	5500	5000	9.50	1.75	2.38	6.63	5.88	21.8		
E50	2517	2.69*	12.14	7650	4200	11.00	1.75	3.00	8.13	6.50	31.5		
E60	3020	3.25*	19.84	12,500	3800	12.50	2.00	3.31	8.75	7.31	46.6		
E70	3535	3.94	35.12	22,125	3600	14.00	3.50	2.38	9.25	9.38	66.7		
E80	4040	4.44	62.70	39,500	2000	16.00	4.00	3.75	11.25	11.75	82		
								(In.) ¹	(Out)		(In.) ¹	(Out)	
E100	4545	4.94	135	85,050	1900	21.00	4.50	1.50	6.00	14.13	10.50	15.00	250
E120	5050	5.00	270	126000 ⁶	1800	25.00	5.00	2.00	7.13	17.63	12.00	17.13	408
E140	7060 ⁵	7.00 ⁵	540	340,200	1500	30.00	6.00	3.00	7.00	20.88	15.00	19.00	660

¹With shallow keyway. *With steel bushings.

²Service Factor = 1.0. This rating may be lower if limited by the bushing rating, particularly if severe service conditions exist.

Consult bushing manufacturer.

³Without compression bushings

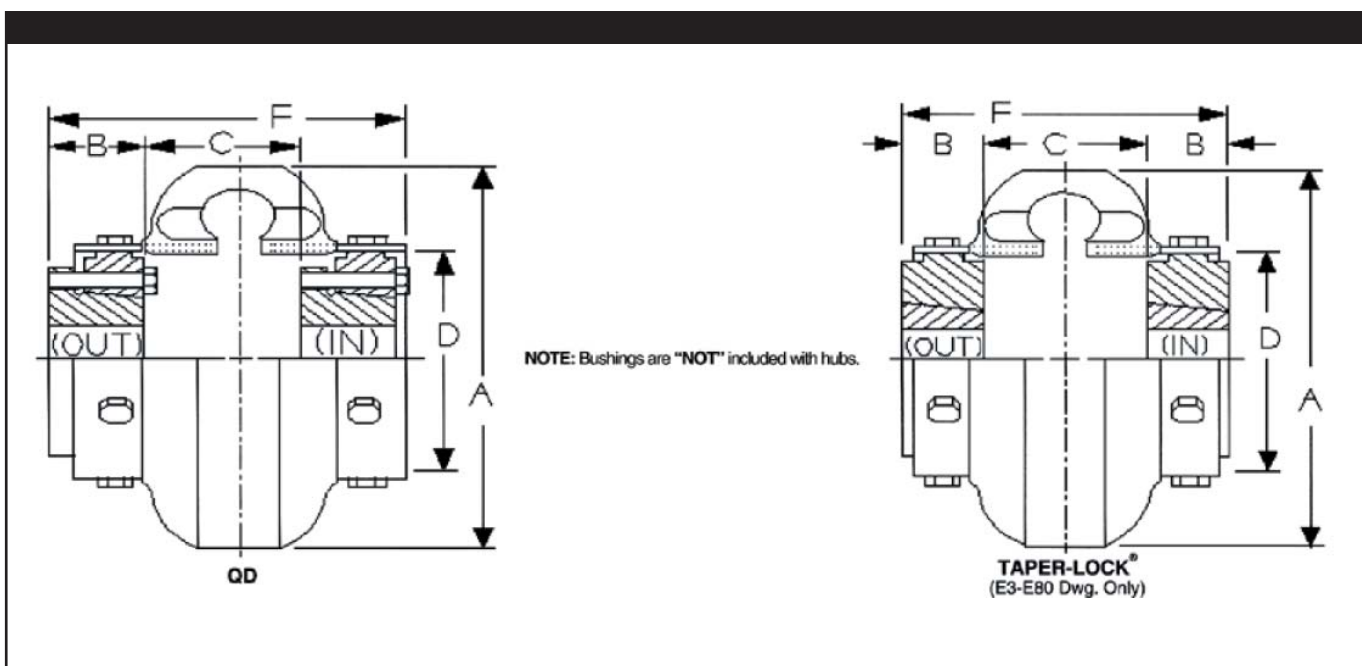
⁴Inboard hub mounting (see drawing E-4) requires bushing installation from coupling ends. Allow space (extra "B" dimension) between coupling ends and equipment for bushing assembly/disassembly. Reverse taper hubs are available; Consult Rexnord.

⁵A 8065 bushing hub with 8.00" max bore is also available. Consult Rexnord.

⁶Maximum bushing rating.

TAPER-LOCK® is the registered trademark of Reliance Electric Company.

NOTE: Dimensions subject to change. Certified drawings of ordered material furnished on request.



• Adjustable Spacer Design

Optional hole mounting positions and reversible hub features allow adjustment to accommodate most shaft spacing requirements (see Page E-8).



Straight Bore Hubs



QD Hubs and Bushings



TAPER-LOCK® Hubs and Bushings

• Universal Hubs

Straight bore and compression bushed hub designs are identical and interchangeable for both the spacer and standard couplings. This means maximum utilization of off the shelf inventory.

Note: Dimensions subject to change. Certified drawings of ordered material furnished on request.

Specification Data With Straight Bore Hubs

Omega No. 1	Max. Bore (In.) ¹	RPM ²	Torque (In. Lbs.) ²	Max. RPM ³	A	B	C		D	F		(Lb.) 6
							Min. ⁴	Max.		Min. ⁵	Max.	
ES2-R	1.13	0.30	190	7500	3.50	0.94	3.50	4.00	1.85	5.75	5.92	2.3
ES3-R	1.38	0.58	365	7500	4.00	1.50	3.50	5.00	2.32	7.25	8.00	4.0
ES4-R	1.63	0.88	550	7500	4.56	1.69	3.50	5.00	2.60	7.25	8.38	5.1
ES5-R	1.88	1.48	925	7500	5.38	1.75	3.50	5.00	3.13	7.25	8.50	7.5
ES10-R	2.13	2.30	1450	7500	6.38	1.88	3.50	5.00	3.65	7.25	8.75	10.3
ES20	2.38	3.65	2300	4800	7.25	2.06	2.55	7.00	4.48	9.38	11.12	15.6
ES30	2.88	5.79	3650	4200	8.25	2.31	2.05	7.00	5.42	9.38	11.62	25.1
ES40	3.38	8.85	5500	3600	9.50	2.50	1.67	7.00	6.63	9.38	12.00	40
ES50	3.63	12.14	7650	3100	11.00	2.75	1.17	7.00	8.13	9.38	12.50	60
ES60	4.00	19.84	12,500	2800	12.50	3.25	2.67	9.75	8.75	12.50	16.25	84
ES70	4.50	35.12	22,125	2600	14.00	3.62	1.99	9.75	9.25	12.50	17.00	102
ES80	6.00	62.70	39,500	1800	16.00	4.87	2.18	9.75	11.25	12.50	19.50	180

¹ Suffix "R" designates high speed ring design. Rings are furnished as standard for sizes ES2-R to ES10-R, optional on sizes ES20 to ES80.

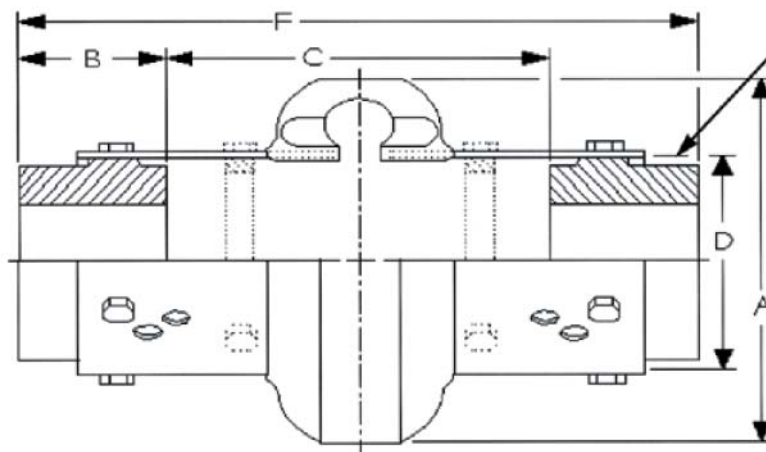
² Service factor = 1.0

³ Spacer couplings furnished with optional high speed rings (sizes ES20 to ES80) can be operated up to the maximum speeds for standard series couplings. See RPM ratings on page E-4.

⁴ Minimum shaft spacing is 0.25 inch. See page E-8 for additional information.

⁵ Overall length of element.

⁶ With max bore standard hubs.



Note: Hub/shoulder design varies per coupling size. Consult Rexnord for specific size assembly drawings.

Specification Data With QD Hubs													
Spacer Omega No. ¹	QD Bush. No.	Recom. Max. Bore (In.) ²	HP/100 RPM ³	Continuous Torque (In. Lbs.) ³	Max. RPM ¹	Dimensions In Inches							Weight (Lb.) ⁶
						A	B	C		D	F		
								Min. ⁵	Max.		Min.	Max.	
ES4-R	JA	1.25	0.88	550	7500	4.56	1.00	3.24	5.56	2.60	7.25	7.71	4.2
ES5-R	SH	1.63	1.48	925	7500	5.38	1.25	3.51	5.06	3.13	7.25	7.82	5.7
ES10-R	SDS	1.94	2.30	1450	7500	6.38	1.31	3.60	5.49	3.65	7.25	8.24	6.9
ES20	SK	2.50	3.65	2300	4800	7.25	1.88	2.82	6.96	4.48	9.38	10.84	11.1
ES30	SF	2.94	5.79	3650	4200	8.25	2.00	3.36	6.44	5.42	9.38	10.32	17.9
ES40	E	3.44	8.85	5500	3600	9.50	2.63	2.94	5.74	6.63	9.38	10.71	28.8
ES50	E	3.44	12.14	7650	3100	11.00	2.63	2.44	6.24	8.13	9.38	11.21	43.6
ES60	F	3.94	19.84	12,500	2800	12.50	3.63	4.25	7.68	8.75	12.50	14.65	57.4
ES70	K	4.44	35.12	22,125	2600	14.00	4.50	3.50	6.72	9.25	12.52	15.40	84.1
ES80	M	5.50	62.70	39,500	1800	16.00	6.75	1.35	4.76	11.25	14.17	17.58	150.0

NOTE: Dimensions may vary depending on bushing manufacturer.

Specification Data With Straight Bore Hubs													
Spacer Omega No. 1	Bush. No.	Recom. Max. Bore (In.) ²	HP/100 RPM 3	Continuous Torque (In. Lbs.) ³	Max. RPM ⁴	Dimensions In Inches							Weight (Lb.) 6
						A	B	C		D	F		
								Min. ⁵	Max.		Min.	Max.	
ES3-R	1008	1.00	0.58	365	7500	4	0.88	3.83	5.38	2.32	7.25	7.25	3.2
ES4-R	1008	1.00	0.88	550	7500	4.56	0.88	3.83	5.38	2.60	7.25	7.25	4.2
ES5-R	1108	1.13	1.48	925	7500	5.38	0.88	3.83	5.38	3.13	7.25	7.25	6.0
ES10-R	1310	1.44*	2.30	1450	7500	6.38	1.00	3.71	5.25	3.65	7.25	7.25	7.9
ES20	1610	1.69*	3.65	2300	4800	7.25	1.00	4.84	6.75	4.48	9.38	9.38	11.9
ES30	2012	2.12*	5.79	3650	4200	8.25	1.25	4.59	6.50	5.42	9.38	9.38	18.0
ES40	2517	2.69*	8.85	5500	3600	9.50	1.75	4.09	6.00	6.63	9.59	9.59	26.8
ES50	2517	2.69*	12.14	7650	3100	11.00	1.75	4.09	6.00	8.13	9.59	9.59	37.4
ES60	3020	3.25*	19.84	12,500	2800	12.50	2.00	6.09	8.75	8.75	12.84	12.84	60.7
ES70	3535	3.94	35.12	22,125	2600	14.00	3.50	4.59	7.34	9.25	14.34	14.34	81.4
ES80	4040	4.44	62.70	39,500	1800	16.00	4.00	4.09	6.84	11.25	14.84	14.84	93.2

¹ Suffix "R" designates high speed ring design. Rings are furnished standard for sizes ES2-R to ES10-R, optional for sizes ES20 to ES80.

² With shallow keyway. *With extended bore bushings.

³ Service factor = 1.0. This rating may be lower if limited by the bushing rating, particularly if severe service conditions exist.

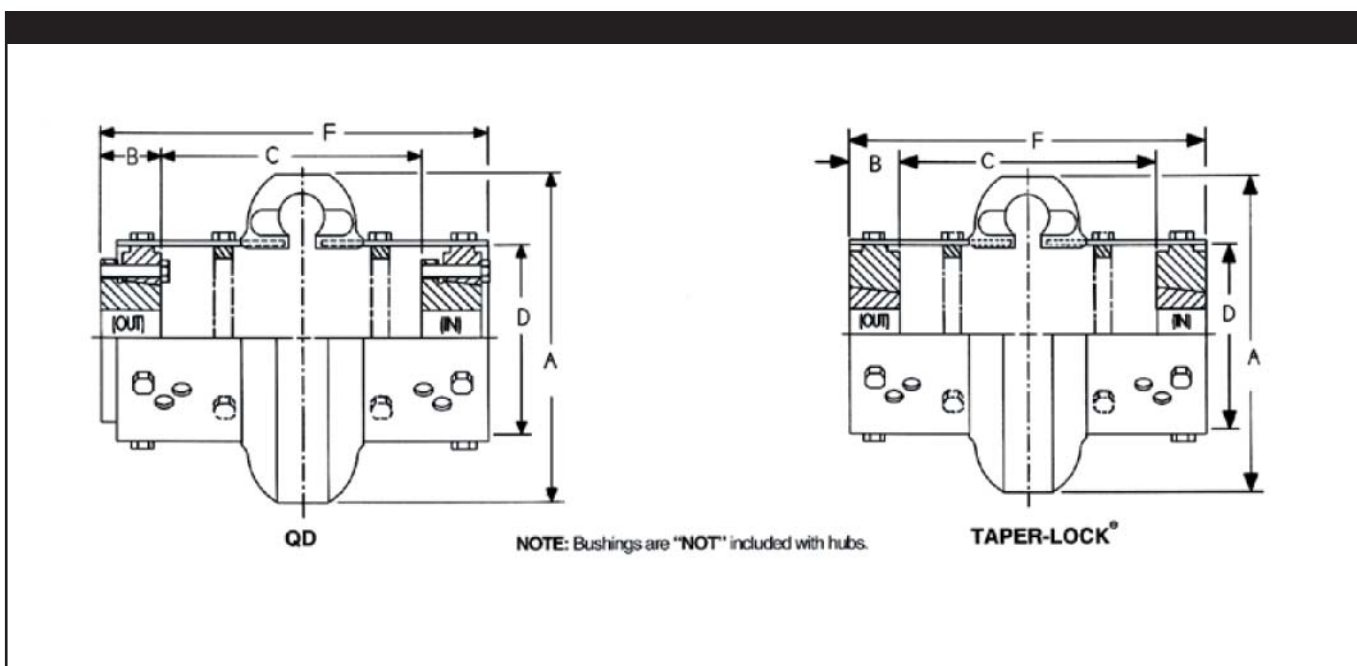
⁴ Spacer couplings furnished with optional high speed rings (sizes ES20 to ES80) can be operated up to maximum allowable speeds for standard series couplings.

⁵ Minimum shaft spacing is 0.25 inch. See page E-8 for additional information.

⁶ Without compression bushings.

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NOTE: Dimensions subject to change. Certified drawings of ordered material furnished on request.





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