

# Morse LNC Series Delrin<sup>†</sup> Chain Couplings



## Available in Two Series

### ● Corrosion Resistant

Where corrosion is a problem - Delrin Couplings are a must.

### ● Pollution-Free Couplings

A neat way to keep things clean.

### ● Economical

Cost less to install and maintain.



### ● No Lubrication

No dirt catching problems with grease.

### ● Quiet

Runs quieter than metal couplings.

### ● Safe

Smooth outer surface of Delrin Chain.

## Morse Delrin<sup>†</sup> Chain Couplings for Applications up to 5000 RPM and from Fractional to 45kW

● Where corrosion is normally a problem from atmospheric conditions.

● For food processing, textile and other machinery which avoids the use of oil or grease.

Available with minimum plain bore, finished bore with standard keyway and setscrew, or TL taper bore.

● For the safety feature of the smooth outer surface without a cover.

● For centrifugal pumps and steady load applications.

### kW Power Ratings LNC 400 Series 1/2 inch Delrin<sup>†</sup> Chain

#### N400 Series

1/2" pitch  
.2 through 21kW

Available from stock with minimum plain bore, TL taper bore or bored to suit.



Number of Teeth	Torque below 100 rpm Nm	Revolutions per minute																	
		100	200	300	400	500	600	700	800	900	1200	1500	1800	2000	2500	3000	3600	4000	5000
11	23.9	0.2	0.5	0.7	1.0	1.2	1.3	1.5	1.6	1.7	2.1	2.4	2.7	2.9	3.3	3.8	4.3	4.6	5.4
12	28.6	0.3	0.6	0.8	1.1	1.4	1.6	1.8	1.9	2.1	2.5	2.9	3.2	3.5	4.0	4.5	5.1	5.5	6.5
13	33.3	0.3	0.7	1.0	1.3	1.7	1.9	2.1	2.3	2.4	2.9	3.4	3.8	4.1	4.7	5.3	6.0	6.5	7.6
14	38.6	0.4	0.8	1.2	1.6	2.0	2.2	2.4	2.6	2.8	3.4	3.9	4.4	4.7	5.5	6.2	7.0	7.5	8.8
15	43.9	0.4	0.9	1.3	1.8	2.3	2.5	2.8	3.0	3.3	3.9	4.5	5.0	5.4	6.2	7.2	8.0	8.6	10.1
16	50.3	0.5	1.0	1.5	2.1	2.6	2.9	3.2	3.4	3.7	4.4	5.1	5.8	6.2	7.1	8.1	9.1	9.8	
17	56.7	0.6	1.1	1.7	2.3	2.9	3.3	3.6	3.9	4.2	5.0	5.7	6.5	6.9	8.0	9.0	10.3	11.0	
18	63.6	0.6	1.3	1.9	2.6	3.3	3.7	4.0	4.4	4.7	5.6	6.5	7.3	7.8	9.0	10.2	11.5		
19	70.5	0.7	1.4	2.2	2.9	3.6	4.1	4.5	4.8	5.2	6.2	7.2	8.1	8.7	10.0	11.3	12.8		
20	78.3	0.8	1.6	2.4	3.2	4.1	4.5	5.0	5.5	5.8	6.9	8.0	9.0	9.6	11.1	12.5	14.2		
21	86.1	0.9	1.8	2.7	3.6	4.5	5.0	5.5	6.1	6.4	7.6	8.8	9.9	10.6	12.2	13.8	15.7		
22	94.7	0.9	1.9	2.9	3.9	4.9	5.6	6.0	6.6	7.0	8.4	9.7	10.9	11.6	13.5	15.2			
23	103.3	1.0	2.1	3.2	4.3	5.4	6.2	6.6	7.1	7.6	9.1	10.5	11.8	12.7	14.7	16.7			
24	113.0	1.1	2.3	3.5	4.7	5.9	6.6	7.2	7.8	8.3	10.1	11.5	12.9	13.9	16.0	18.1			
25	122.7	1.2	2.5	3.8	5.1	6.4	7.1	7.7	8.4	9.0	10.8	12.5	14.0	15.0	17.3	19.6			
27	143.0	1.4	2.9	4.4	5.9	7.5	8.3	9.0	9.8	10.5	12.6	14.6	16.3	17.5	20.2				
30	176.0	1.7	3.6	5.5	7.3	9.2	10.2	11.1	12.1	13.0	15.5	18.0	20.1	21.6					

### kW Power Ratings LNC 600 Series 3/4 inch Delrin<sup>†</sup> Chain

#### N600 Series

3/4" pitch  
1.1 through 45kW

Available from stock with minimum plain bore, TL taper bore or bored to suit.



Number of Teeth	Torque below 100 rpm Nm	Revolutions per minute																	
		100	200	300	400	500	600	700	800	900	1200	1500	1800	2000	2500	3000	3600	4000	5000
11	107.4	1.1	2.2	3.2	4.3	5.3	6.3	7.2	8.2	9.1	11.6	13.9	16.0	17.2	19.8	21.8	23.2		
12	129.6	1.2	2.5	3.7	4.9	6.0	7.1	8.2	9.2	10.2	13.0	15.6	17.8	19.1	21.8	23.6	24.7		
13	137.0	1.4	2.8	4.1	5.5	6.7	8.0	9.1	10.3	11.4	14.5	17.2	19.6	21.0	23.7	25.4	26.2		
14	152.9	1.5	3.1	4.6	6.1	7.5	8.8	10.1	11.4	12.6	15.9	18.9	21.3	22.8	25.4	26.9			
15	168.8	1.7	3.4	5.1	6.7	8.2	9.7	11.1	12.5	13.8	17.4	20.5	23.1	24.5	27.2				
16	184.7	1.9	3.7	5.5	7.3	8.9	10.5	12.1	13.6	15.0	18.8	21.5	24.6	26.0	28.4				
17	200.7	2.1	4.1	6.0	7.9	9.7	11.4	13.1	14.6	16.1	20.1	22.5	26.1	27.5	29.6				
18	217.6	2.2	4.4	6.5	8.5	10.5	12.3	14.1	15.7	17.3	21.5	24.4	27.2	28.8	30.5				
19	234.6	2.4	4.8	7.0	9.2	11.3	13.2	15.1	16.8	18.5	22.9	26.3	28.3	30.1	31.4				
20	252.5	2.6	5.1	7.6	9.9	12.1	14.2	16.1	18.0	19.7	24.3	27.8	30.0	31.4					
21	269.8	2.8	5.5	8.1	10.5	12.9	15.1	17.2	19.1	21.0	25.7	29.3	31.7	32.8					
22	288.8	3.0	5.9	8.6	11.2	13.7	16.0	18.2	20.2	22.1	27.0	30.6	32.2	33.7					
23	307.8	3.2	6.3	9.2	11.9	14.5	17.0	19.2	21.4	23.3	28.2	31.8	34.0	34.6					
24	326.8	3.4	6.6	9.7	12.6	15.4	18.0	20.4	22.6	24.7	29.8	33.4	35.4						
25	345.8	3.6	7.0	10.3	13.4	16.3	19.0	21.1	23.8	26.0	31.3	34.9	36.9						
27	403.0	4.2	8.2	12.0	15.6	19.0	22.1	24.6	27.7	30.3	36.5	40.7							
30	498.0	5.2	10.0	14.8	19.3	23.5	27.3	30.3	34.2	37.4	45.0								

All Delrin Couplings operated below 100 rpm must not be subjected to torque values in excess to those shown in tables above. Refer to page 2 for service factor and selection procedure.

†DuPont Registered Trademark.

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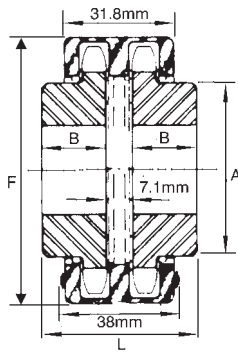
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# Morse LNC Series Delrin<sup>+</sup> Chain Couplings

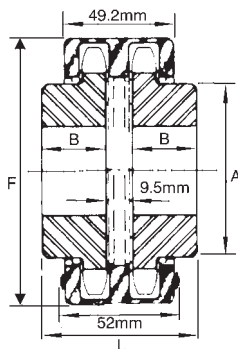


## LNC 400 Series



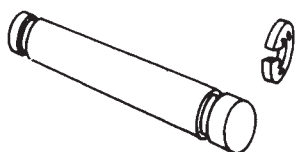
- Temperature range from -30°C to +66°C
- Angular misalignment of 1° (11T-19T), 1/2° (20T-30T)
- Parallel misalignment of 0.12 mm
- Total end float of 1.5mm

## LNC 600 Series



- Temperature range from -30°C to +66°C
- Angular misalignment of 1° (11T-18T), 1/2° (19T-30T)
- Parallel misalignment of 0.20 mm, (11T-18T) 0.13mm (19T-30T)

## Coupler Pin



A slip-fit coupler pin which provides ease of assembly or dis-assembly can be supplied with all couplings

## Dimensions - Plain Bore Couplings

Coupling No.	Bore Sizes		A mm	B mm	F mm	L mm
	Min. mm	Max. mm				
LNC 411	10	19	29	25	57	57
LNC 412	10	22	33	28	61	63
LNC 413	10	25	37	28	65	63
LNC 414	10	28	41	28	69	63
LNC 415	10	30	45	28	73	63
LNC 416	12	34	50	28	77	63
LNC 417	12	35	52	28	81	63
LNC 418	12	37	56	28	85	63
LNC 419	12	40	60	28	89	63
LNC 420	12	42	64	28	93	63
LNC 421	14	45	68	28	97	63
LNC 422	14	46	70	28	101	63
LNC 423	14	46	70	28	105	63
LNC 424	14	46	70	28	109	63
LNC 425	14	46	70	28	113	63
LNC 427	16	46	70	30	121	67
LNC 430	16	52	80	30	133	67

## Dimensions - Taper Lock Couplings

Coupling No.	Bush Size	Max. Bore mm	A mm	B mm	F mm	L mm
LNC 415TL	1008	25	46	22	73	52
LNC 416TL	1108	28	52	22	77	52
LNC 417TL	1210	32	60	25	81	58
LNC 418TL	1210	32	60	25	85	58
LNC 419TL	1210	32	63	25	89	58
LNC 420TL	1610	42	71	25	93	58
LNC 421TL	1610	42	71	25	97	58
LNC 423TL	1610	42	76	25	105	58
LNC 425TL	1610	42	76	25	113	58
LNC 427TL	1610	42	76	25	121	58
LNC 430TL	2012	50	90	32	133	71

## Dimensions - Plain Bore Couplings

Coupling No.	Bore Sizes		A mm	B mm	F mm	L mm
	Min. mm	Max. mm				
LNC 611	14	29	46	35	89	80
LNC 612	14	35	52	35	95	80
LNC 613	14	37	58	35	101	80
LNC 614	14	42	64	35	107	80
LNC 615	14	46	70	35	113	80
LNC 616	16	50	75	35	119	80
LNC 617	16	52	80	35	125	80
LNC 618	16	52	80	35	131	80
LNC 619	16	52	80	35	137	80
LNC 620	16	52	80	35	143	80
LNC 621	20	58	90	40	149	90
LNC 622	20	58	90	40	155	90
LNC 623	20	58	90	40	161	90
LNC 624	20	58	90	40	169	90
LNC 625	20	58	90	40	173	90
LNC 627	20	62	95	40	185	90
LNC 630	20	62	95	40	204	90

## Dimensions - Taper Lock Couplings

Coupling No.	Bush Size	Max. Bore mm	A mm	B mm	F mm	L mm
*LNC 613TL	1210	32	63	25	101	61
LNC 615TL	1610	42	71	25	113	61
LNC 617TL	1610	42	76	25	125	61
LNC 619TL	2012	50	90	32	137	73
LNC 620TL	2012	50	90	32	143	73
LNC 621TL	2517	60	102	45	149	99
LNC 623TL	2517	60	108	45	161	99
LNC 625TL	2517	60	108	45	173	99
LNC 627TL	2517	60	108	45	185	99
LNC 630TL	2517	60	108	45	204	99

\*Hub recessed for chain clearance.

+DuPont Registered Trademark.

NOTE: All Bores supplied to B.S. H8 limits and Keyways conform to B.S. Std. unless otherwise specified.

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