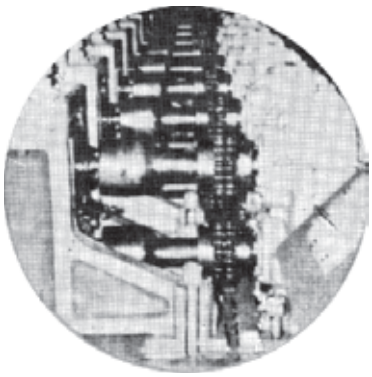
Nu-Teck Couplings Pvt. Ltd.

NU-TECK
Roller Chain Flexible Couplings



A series of chain couplings in steel tube mill.

Large size chain coupling used in heavy drives

SELECTION OF THE SIZE OF THE COUPLINGS

1. Decide service factor for the unit to which the chain coupling is to be fitted by considering the hours of service, type of power unit etc. from the following table :-

Service classification	Driven equipment		Source of power		
	Kinds	Characteristics	Electric motor or steam turbine	Steam or gasoline engine 4 or more cyl.	Diesel or Gas Engine
A	Centrifugal fans, blowers of pumps conveyor evenly loaded.	Even load - 8 hours/day service, Non-reversing-low torque starting.	1	1.5	2.0
B	Compressor, conveyor, pulsating load machines, kilns and driers, speeds reducers, Multi cylinder pumps, wood working machines, etc.	Uneven load - 8 hours/day service, Moderate shock or torsional loads, Non-reversing - This is the most common type of service.	1.5	2.0	2.5
C	Presses, crushers, impact loads, Oil well pumping equipment.	Heavy shock load - 8 hours / day service, High peak torsional loads. Reversing under load, Full load starting.	2.0	2.5	3.0

For 8 to 16 hrs/day service use next step service factor.
For 16 to 24 hours/day service use service factor two step higher loading.

2. Multiply horsepower of driver unit by the service factor. This is design horsepower.
3. Note the maximum rpm. at which the unit will run and its shaft diameter.
4. From H.P. rating table select the coupling size which is rated equal to or slightly greater than design H.P. required at the rpm. at which the coupling is to operate.
5. Also make sure that the diameter at the shaft is less than the maximum bore permissible on the coupling. If the coupling is not large enough to accommodate the shaft size, use the next coupling which can be bored to suit the shaft requirement.

Manufactured & Marketed by :

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NU-TECK Roller Chain Flexible Couplings are compact, all steel, long lasting flexible couplings, & capable of transmitting relatively high torques with minimum space consumption. Consequently, they provide the most economical means of positive transmission of power from one shaft to another.

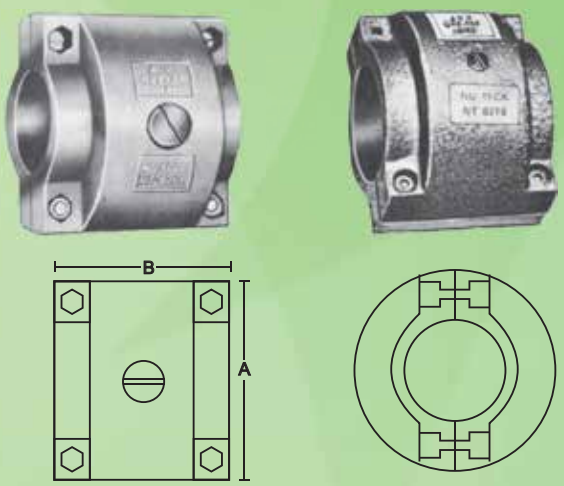
The simple design and construction of these couplings make them extremely easy to install and disconnect.

The sprockets are identical in construction, thus providing a balanced unit in operation and reducing effects of vibration. In addition, the flexibility of roller chain plus clearance between the chain rollers and sprocket teeth allow for slight misalignment and shaft end float.

Stock coupllings sizes usually meet most power transmission requirements. However when necessary special couplings can be furnished on a made to order basis to suit a particular application. in such cases, complete information should be given when requesting a recommendation or quotation. This includes horsepower and RPM requirements, hub dimensions, bore and keyway sizes, and general operat ing condition.

- EASY TO ASSEMBLE.
- OR DIS-ASSEMBLE.
- ALL TEETH HARDENED
- HUBS AND BORES.
- REMAIN SOFT TO PERMIT
- REWORKING.
- POSITIVE-YET FLEXIBLE.
- MAXIMUM FLEXIBILITY.
- MINIMUM BACKLASH.
- CONSTANT POWER
- TRANSMISSION.
- ECONOMICAL.
- DURABLE.
- COMPACT.
- EASY OFF/ON.

PLASTIC / ALUMINIUM COVERS FOR NU-TECK ROLLER CHAIN COUPLINGS



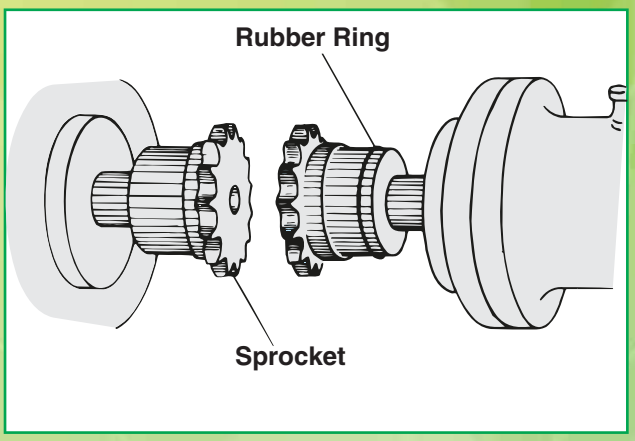
COUPLING No.	ASA No.	A	B	Wt. Kg.
NT 6112	3812	69	59	0.2
NT 8312	4012	75	68	0.2
NT 8316	4016	90	70	0.4
NT 1016	5016	114	86	0.6
NT 1018	5018	123	90	0.8
NT 1218	6018	149	93	1.2
NT 1222	6022	173	110	1.6
NT 1618	8018	195	135	2.3
NT 1622	8022	222	134	2.4
NT 2020	10020	258	174	3.4
NT 2418	12018	292	218	5.9
NT 2422	12022	340	212	7.3
NT 3218	16018	385	250	14

Nu-Teck Couplings Pvt. Ltd.

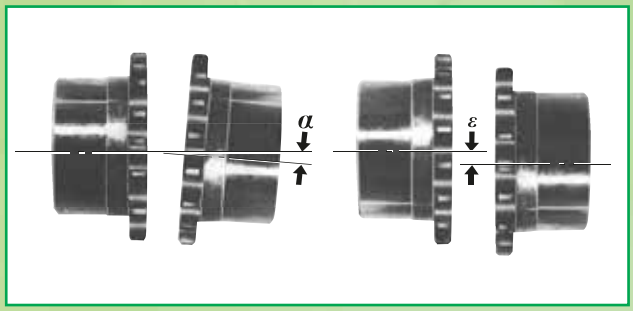
NU-TECK
Roller Chain Flexible Couplings
Installation

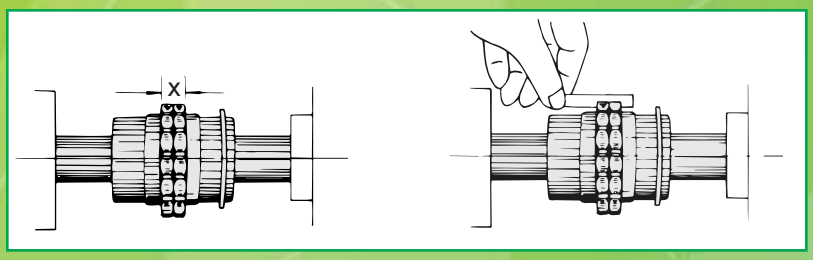
Installation

1. Place the Rubber Ring on either the left or right sporocket. (Place the Rubber Ring on upper side sprocket when vertical use).



2. Bring the sprocket faces close together and correct the angular and offset misalignment.



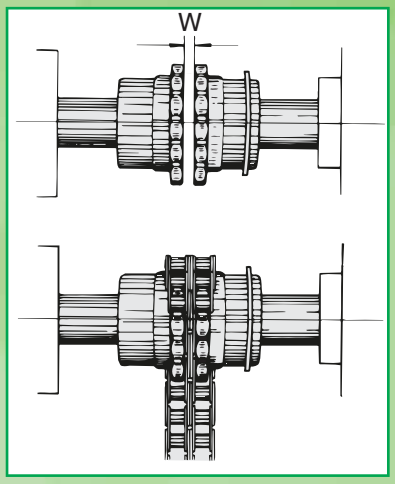


Adjust the angular misalignment (a) so that the dimension "X"is the same around the circumference of the sprockets. The allowable angular misalignment (a) is 1°.
Place a straight edge at the bottom of the corresponding teeth of the two sprockets and adjust in order to minimize the offset misalignment. The allowable offset misalignment(e) is 2% of the chain pitch. When the sprocket speed is 1/3 or more of the maximum speed. The allowable angular and offset misalignment are 0.5° and 1% of the chain pitch.

3. Measure the distance "W" between the sprocket faces and firmly fasten the set bolt (refer to the table of dimensions).

4. Fill the grease into the space "W" and lubricate the chain and teeth with grease, then wrap the chain around both sprockets and fix with the joint pin. Insert the joint pin from oil seal side and confirm that the clip or cotter pin is securely fastened at counter oil seal side.

5. Fill the required quantity of grease into both sides of the casing and fasten them firmly. There will be slight leakage during initial operation, but this will soon stop. If the grease still leaks, check the conditions of installation.



H. P. RATINGS

COUPLING NO.	EQUIASA NO.	MAX BORE	REVOLUTION PER MINUTE																							
			1	5	10	25	50	100	200	300	400	500	600	800	1000	1200	1500	1800	2000	2500	3000	3600	4000	4800	5200	6000
NT 6112	3812	16	0.013	0.066	0.146	0.346	0.693	1.053	1.613	2.106	2.520	3.013	3.440	4.253	5.173	5.880	7.133	8.333	8.973	10.82	12.58	14.66	16.00	18.86	19.73	22.26
NT 8312	4012	22	0.026	0.146	0.293	0.773	1.533	2.306	3.506	4.613	5.533	6.613	7.560	9.346	11.38	12.90	15.46	18.26	19.73	23.56	27.60	32.13	35.06	41.06		
NT 8316	4016	32	0.053	0.280	0.546	1.373	2.746	4.120	6.253	8.226	9.880	11.80	13.46	16.66	20.40	23.06	28.00	32.53	35.06	42.53	49.33	57.33	62.53	73.20		
NT 1016	5016	42	0.106	0.520	1.040	2.600	5.213	7.813	11.89	15.60	18.80	22.40	25.60	31.73	38.53	43.86	53.20	61.86	66.66	80.80	93.86	108.80				
NT 1018	5018	48	0.133	0.666	1.320	3.306	6.600	9.906	15.06	19.86	23.73	28.40	32.53	40.13	48.80	55.46	66.733	78.40	84.53	102.40	118.13					
NT 1218	6018	60	0.240	1.240	2.493	6.226	12.44	18.66	28.40	37.33	44.80	53.46	61.20	75.73	92.13	104.53	126.93	148.0	160.0	193.33						
NT 1222	6022	76	0.333	1.666	3.346	8.413	16.66	25.06	38.13	50.26	60.40	72.13	82.53	102.0	124.13	140.0	170.66	198.66	214.66	260.0						
NT 1618	8018	80	0.546	2.760	5.520	13.73	27.60	41.33	62.93	82.80	99.33	118.66	134.66	168.0	204.0	232.0	281.33	328.0	353.33							
NT 1622	8022	95	0.786	3.946	7.906	19.73	39.46	59.33	89.60	118.66	141.33	169.33	194.66	240.0	292.0	332.0	402.6	469.33	505.33							
NT 2020	10020	110	1.240	6.213	12.44	31.06	62.13	93.33	141.33	166.66	224.0	266.66	305.33	377.33	460.0	522.66	634.66	738.66								
NT 2418	12018	119	1.866	9.360	18.66	46.80	93.60	140.0	213.33	280.0	336.0	402.6	460.0	568.0	692.0	786.86	954.66									
NT 2422	12022	150	2.413	12.09	24.13	60.40	120.93	181.33	274.66	362.66	434.66	520.0	594.66	734.66	894.66	1016.0										
NT 3218	16018	160	4.040	20.13	40.40	101.06	201.33	302.66	460.0	606.66	728.0	869.33	994.66	1229.3	1496.0											
NT 3222	16022	199	5.906	29.46	59.06	146.66	294.66	444.00	674.66	886.68	1065.3	1272.0	1453.3	1800.0	2186.6											
NT 4018	20018	205	8.080	40.40	80.80	201.33	404.00	605.33	921.33	1212.0	1453.3	1733.3	1986.6	2453.3												
NT 4022	20022	260	10.17	50.93	101.73	254.66	509.33	762.66	1161.33	1520.0	1826.6	2186.6	2506.6													

- Couplings operating with covers should be kept filled with a good quality ball bearing grease of soft or medium consistency.
- Couplings operating without covers under fairly clean conditions will give satisfactory service provided they are periodically (weekly) brushed thoroughly with ball bearing grease of medium consistency.?

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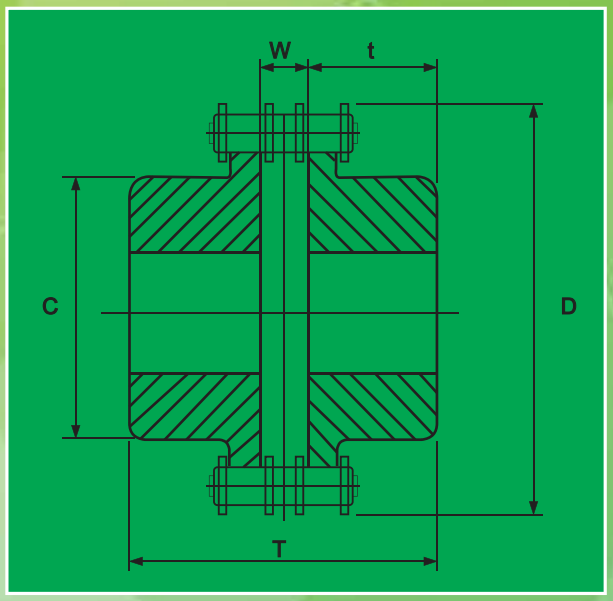
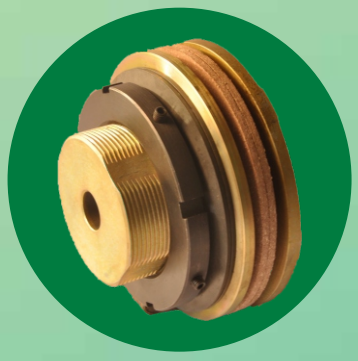


COUPLING NO.	ASA No.	BORE		T	t	W	C	D	Wt.Kg.
		MIN	MAX						
NT 6112	3812	10.00	16	65	30	5.0	27	45	0.30
NT 8312	4012	10.00	22	79	36	7.0	35	60	0.80
NT 8316	4016	12.00	32	79	36	7.0	50	77	1.60
NT 1016	5016	16	42	96	44	8.0	61	96	2.60
NT 1018	5018	16	48	98	45	8.0	71	106	3.50
NT 1218	6018	20	60	121	56	9.0	88	126	6.5
NT 1222	6022	20	76	121	56	9.0	110	150	10.0

COUPLING NO.	ASA No.	BORE		T	t	W	C	D	Wt.Kg.
		MIN	MAX						
NT 1618	8018	25	80	150	67	16	115	170	14.5
NT 1622	8022	25	95	150	67	16	140	201	20.0
NT 2020	10020	40	110	200	91	18	157	231	33.5
NT 2418	12018	50	119	260	118	24	169	254	51.0
NT 2422	12022	50	150	260	118	24	208	301	76.0
NT 3218	16018	50	160	360	165	30	220	341	121.0
NT 3222	16022	50	199	360	165	30	280	410	210.0
NT 4018	20018	60	205	517	240	37	295	425	320.0
NT 4022	20022	60	260	517	240	37	373	507	470.0

OUR OTHER RANGE OF POWER TRANSMISSION PRODUCTS.



Torque Limiter Coupling

Flexible Gear Couplings

Sprockets

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