

**UNION CHAIN DIVISION - SPECIALTY CHAINS**  
U.S. TSUBAKI

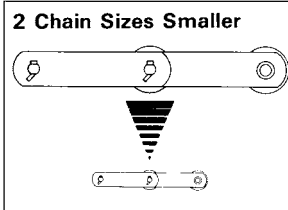
A - ENGINEERING CLASS CHAINS

# Bearing Roller Conveyor Chains

Manufacturing experience and advanced production technology come together in the innovative Bearing Roller Conveyor Chain. Finely machined cylindrical roller bearings are incorporated into the chain. The result is improved performance in your operation.

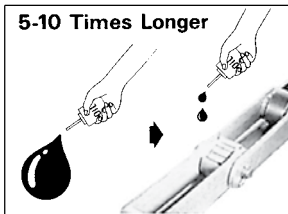
- Less friction
- Higher maximum allowable load
- Reduced lubrication and maintenance

## 4 Reasons to Select Bearing Roller Conveyor Chains



**1. Cost-effective, High Performance**

The cylindrical roller bearings provide superior performance through increased strength and reduced friction. That means you can use a chain two sizes smaller and increase the cost-effectiveness of your operation.



**2. Virtually Maintenance Free with Long Chain Life**

Cylindrical roller bearings inside the chain rollers lower frictional forces and reduce the need for lubrication and maintenance by five to ten times, depending on the application. The result is chain with a virtually maintenance-free, long service life.

**3. Wide Selection of Sizes**

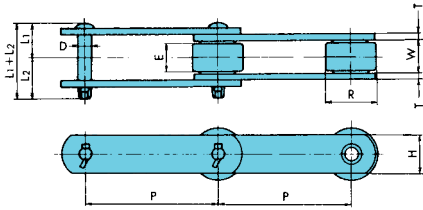
Small pitch to large, heavy-duty sizes of Bearing Roller Conveyor Chains are readily available in a wide range of specifications.

**4. Prevention of "Slip Stick"**

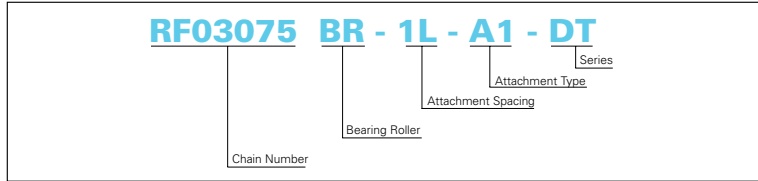
There is no "slip stick" with Bearing Roller Conveyor Chains. Use this chain in applications where "slip stick" cannot be tolerated.

Chain Speed (ft./min.)	Chain Selection
Faster than 6.56	Maximum allowable tension $\geq$ Chain tension
1.64 to 6.56	Maximum allowable tension $\geq$ Chain tension x 3

Note: For chain speeds slower than 1.64 ft./min., please contact Union Engineering.



**Model Identification**



**Bearing Roller Conveyor Chain Specifications**

All dimensions are in inches unless otherwise indicated.

Chain Number	Average Tensile Strength & Maximum Allowable Load				Allowable Roller Load (lbs.)	Pitch	Roller			Width Between Roller Link Plates
	Basic Series (DT)		Reinforced Series (AT)				P	R	E	
	(lbs.)	(lbs.)	(lbs.)	(lbs.)						
RF03075BR	6,600	925	15,650	1,760	440	2.953	1.250	.551	.634	
RF03100BR	6,600	925	15,650	1,760	440	3.937	1.250	.551	.634	
RF05100BR	15,400	2,200	31,950	3,300	680	3.937	1.575	.750	.866	
RF05150BR	15,400	2,200	31,950	3,300	680	5.906	1.575	.750	.866	
RF450BR	17,600	2,420	31,950	3,300	925	4.000	1.750	.906	1.603	
RF08150BR	17,600	2,420	31,950	3,300	925	5.906	1.750	.906	1.603	
RF10100BR	25,350	3,520	50,650	5,290	1,230	3.937	2.000	1.630	1.181	
RF10150BR	25,350	3,520	50,650	5,290	1,230	5.906	2.000	1.630	1.181	
RF12200BR	41,850	5,950	62,800	8,150	1,870	7.874	2.559	1.260	1.461	
RF12250BR	41,850	5,950	62,800	8,150	1,870	9.843	2.559	1.260	1.461	
RF17200BR	55,050	7,710	87,000	12,350	3,170	7.874	3.150	1.732	2.024	
RF17250BR	55,050	7,710	87,000	12,350	3,170	9.843	3.150	1.732	2.024	
RF17300BR	55,050	7,710	87,000	12,350	3,170	11.811	3.150	1.732	2.024	
RF26250BR	70,500	9,910	116,750	16,300	4,400	9.843	3.937	1.969	2.250	
RF26300BR	70,500	9,910	116,750	16,300	4,400	11.811	3.937	1.969	2.250	
RF26450BR	70,500	9,910	116,750	16,300	4,400	17.717	3.937	1.969	2.250	
RF36300BR	106,800	15,200	153,100	21,800	6,170	11.811	4.921	2.205	2.625	
RF36450BR	106,800	15,200	153,100	21,800	6,170	17.717	4.921	2.205	2.625	
RF36600BR	106,800	15,200	153,100	21,800	6,170	23.622	4.921	2.205	2.625	

Chain Number	Link Plate		Pin				Approx. Weight (lbs./ft.)	Standard Attachment Type					
	H	T	D	L <sub>1</sub> +L <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>		A-1 K-1	A-2 K-2	A-2 (Welded)	A-3 (Welded)	SA-2 SK-2	C-2
RF03075BR	.866	.125	.313	1.500	.710	.790	1.81	o	o			o	
RF03100BR	.866	.125	.313	1.500	.710	.790	1.54	o	o			o	
RF05100BR	1.260	.177	.445	2.105	.985	1.120	3.36	o	o			o	o
RF05150BR	1.260	.177	.445	2.105	.985	1.120	2.75	o	o			o	o
RF450BR	1.125	.250	.445	2.580	1.220	1.360	4.57	o	o			o	
RF08150BR	1.125	.250	.445	2.580	1.220	1.360	3.69	o	o			o	
RF10100BR	1.500	.250	.571	2.715	1.300	1.415	6.58	o	o			o	
RF10150BR	1.500	.250	.571	2.715	1.300	1.415	5.30	o	o			o	o
RF12200BR	1.750	.312	.625	3.290	1.600	1.690	7.66	o	o			o	o
RF12250BR	1.750	.312	.625	3.290	1.600	1.690	6.92	o	o			o	o
RF17200BR	2.000	.375	.750	4.310	2.030	2.280	12.62	o	o				o
RF17250BR	2.000	.375	.750	4.310	2.030	2.280	11.08	o	o				o
RF17300BR	2.000	.375	.750	4.310	2.030	2.280	10.07			o			o
RF26250BR	2.500	.375	.875	4.590	2.190	2.400	16.99						o
RF26300BR	2.500	.375	.875	4.590	2.190	2.400	14.97			o			o
RF26450BR	2.500	.375	.875	4.590	2.190	2.400	12.09				o		o
RF36300BR	3.000	.500	1.000	5.750	2.680	3.070	26.19					o	o
RF36450BR	3.000	.500	1.000	5.750	2.680	3.070	20.62					o	o
RF36600BR	3.000	.500	1.000	5.750	2.680	3.070	18.06					o	o

Note: Other chain pitches are available on request. The attachment dimensions are the same as standard conveyor chain.  
To locate compatible sprockets for your chain, refer to the Product Cross-Reference in Section D.  
Note: Dimensions are subject to change. Contact Union Chain to obtain certified prints for design and construction.