

Large Size Steel DOUBLE PLUS® Chains



How U.S. Tsubaki DOUBLE PLUS® Chain Works

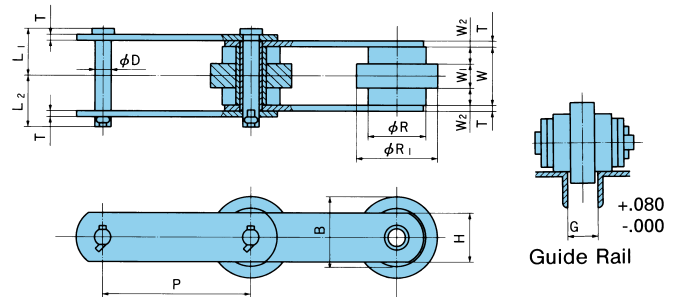
•When conveying

Friction between the larger center roller and the small roller allows them to rotate together in unison. The difference in diameter of the two rollers causes the speed of the conveyed object to be approximately 2.3 times the speed of the chain.

•When accumulating

The large roller rotates freely in the opposite direction of the small roller, allowing conveyed objects to accumulate. This is called free flow conveying.

- Energy saving — Rolling friction of the chain is less than conventional type, so the required power of the conveyor is less.
- Longer life — Lower chain speed (1/2.3) and large allowable roller load provide longer chain life.



Large Size DOUBLE PLUS® Chain Specifications

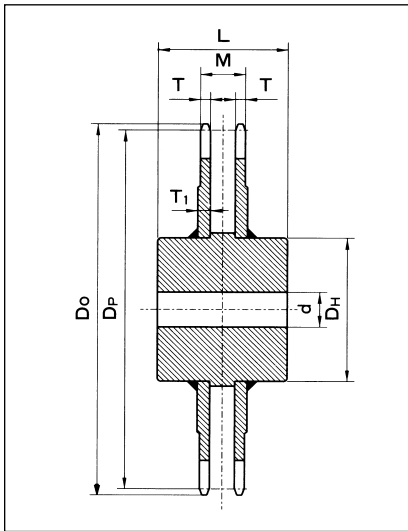
All dimensions are in inches unless otherwise indicated.

Chain Number	Maximum Allowable Tension (lbs.)	Maximum Allowable Roller Load (lbs.)	Pitch	P	R ₁	R	W ₁	W ₂	W	T	H	D	L ₁ +L ₂	L ₁	L ₂	B	G	Approx. Weight (lbs./ft.)
RF03075VR	925	285	2.953	1.654	1.250	.472	.335	1.181	.125	.866	.313	2.030	.965	1.065	1.452	.571	3.16	
RF03100VR	925	285	3.937	1.654	1.250	.472	.335	1.181	.125	.866	.313	2.030	.965	1.065	1.452	.571	2.69	
RF05100VR	2,200	530	3.937	2.087	1.575	.630	.433	1.535	.177	1.260	.445	2.775	1.330	1.445	1.381	.728	5.37	
RF05150VR	2,200	530	5.906	2.087	1.575	.630	.433	1.535	.177	1.260	.445	2.775	1.330	1.445	1.381	.728	4.03	
RF10150VR	3,500	770	5.906	2.638	2.000	.787	.551	2.125	.250	1.500	.571	3.660	1.770	1.890	2.319	.984	8.06	
RF6205VR	5,950	1,100	6.000	2.972	2.250	.866	.630	2.440	.312	1.750	.625	4.270	2.090	2.180	2.611	1.100	12.09	
RF12200VR	5,950	1,100	7.847	2.972	2.250	.866	.630	2.440	.312	1.750	.625	4.270	2.090	2.180	2.611	1.100	10.07	
RF17200VR	7,700	1,370	7.847	3.385	2.559	.984	.709	2.717	.375	2.000	.750	5.000	2.380	2.620	2.972	1.220	13.43	

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.

Sprocket



Large Size DOUBLE PLUS® Sprocket Specifications

Sprocket Number	Number of Teeth	Outer Dia.	Pitch Dia.	Pilot Bore Dia.	Applicable Bore	Hub Dia.	Hub Length	Tooth	Thick.		Approx. Weight (lbs./ft.)
		D _o	D _p	d		DH	L	T	T ₁	M	
RF03075VR-6T	6	6.225	5.906	.788	.985 - 1.576	2.561	2.165	.197	.236	1.024	6.61
RF03075VR-8T	8	8.235	7.717	.788	.985 - 1.773	2.758	2.362	.197	.236	1.024	9.92
RF03100VR-6T	6	8.116	7.874	.788	.985 - 1.773	2.758	2.362	.197	.236	1.024	9.92
RF03100R-8T	8	10.717	10.287	.788	.985 - 1.970	3.152	2.756	.197	.236	1.024	16.54
RF05100VR-6T	6	8.077	7.874	.985	1.182 - 2.364	3.743	3.150	.315	.355	1.399	16.54
RF05100VR-8T	8	10.756	10.287	.985	1.182 - 2.758	4.137	3.543	.315	.355	1.399	28.66
RF05150VR-6T	6	11.978	11.181	.985	1.182 - 2.758	4.137	3.543	.315	.355	1.399	33.07
RF05150VR-8T	8	15.839	15.433	1.182	1.379 - 2.955	4.531	3.937	.315	.355	1.399	52.91
RF10150VR-6T	6	12.175	11.181	1.182	1.379 - 3.152	4.925	4.134	.433	.473	1.891	44.09
RF10150R-8T	8	16.075	15.433	1.379	1.379 - 3.349	5.319	4.527	.433	.473	1.891	70.55
RF6205VR-6T	6	13.002	12.000	1.379	1.576 - 3.743	5.713	4.921	.552	.630	2.206	63.93
RF6205VR-8T	8	17.021	15.677	1.379	1.576 - 3.940	5.713	4.921	.552	.630	2.206	92.59
RF12200VR-6T	6	17.100	15.748	1.379	1.576 - 3.940	5.713	4.921	.552	.630	2.206	94.80
RF12200VR-8T	8	21.946	20.575	1.576	1.773 - 4.334	6.107	5.315	.552	.630	2.206	147.71
RF17200VR-6T	6	17.297	15.748	1.576	1.773 - 4.334	6.107	5.315	.591	.630	2.443	103.62
RF17200VR-8T	8	22.143	20.575	1.773	1.970 - 4.728	6.895	5.906	.591	.630	2.443	167.55

To locate compatible sprockets for your chain, refer to the Product Cross-Reference in Section D.

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