

UJ Flexible Coupling - The Complete Solution



At Renold Hi-Tec we can also supply the universal joint shaft and companion flange as a complete package with our coupling ensuring trouble free installation.

The universal joint shaft can be supplied with DIN, SAE or MECHANICS flanges for torques up to 270 kNm.

Applications:

- Railway Vehicles
- Construction Plant
- Marine Drive
- Pumps
- Paper Mills
- Steel Mills
- General Machinery
- Power Take Offs

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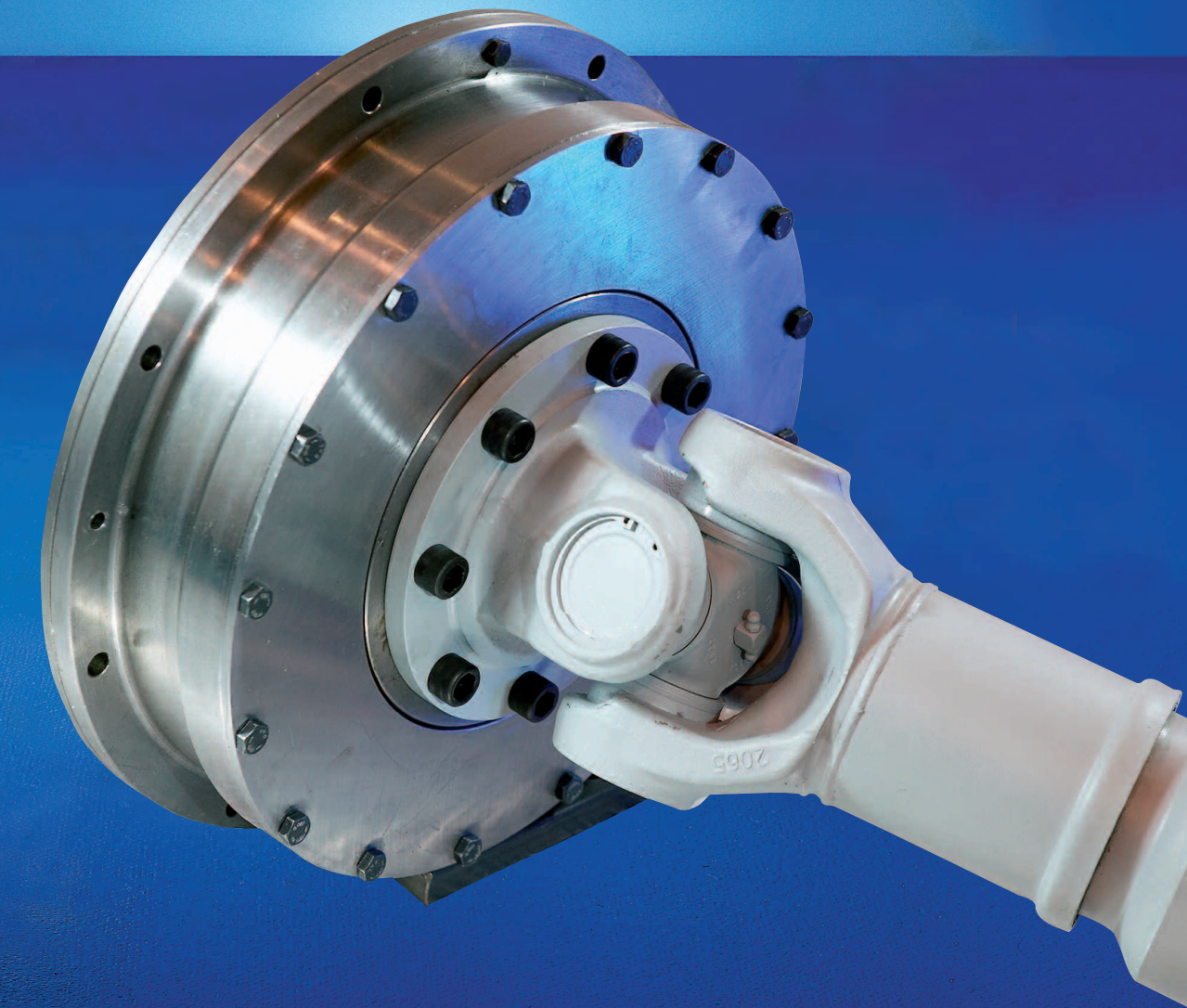
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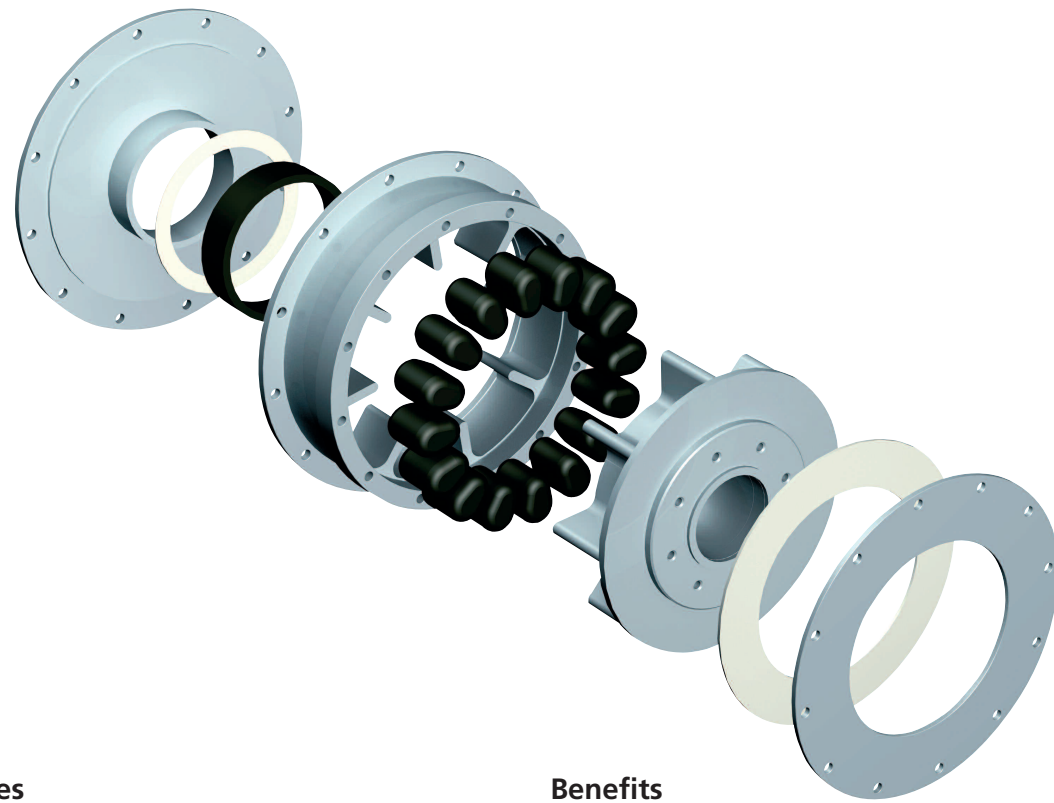
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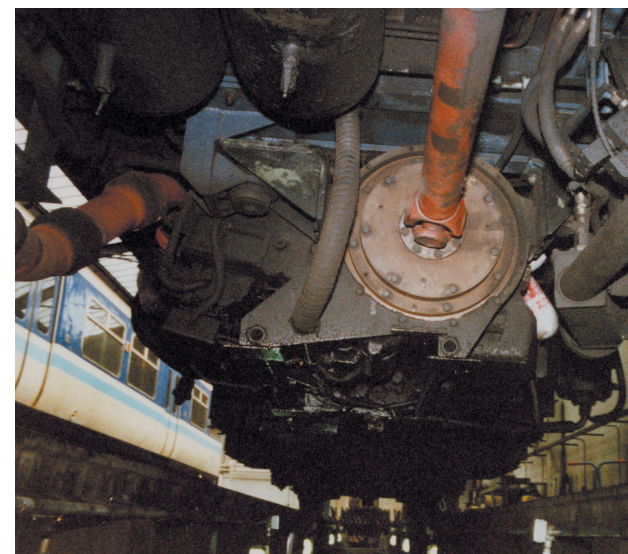


Features

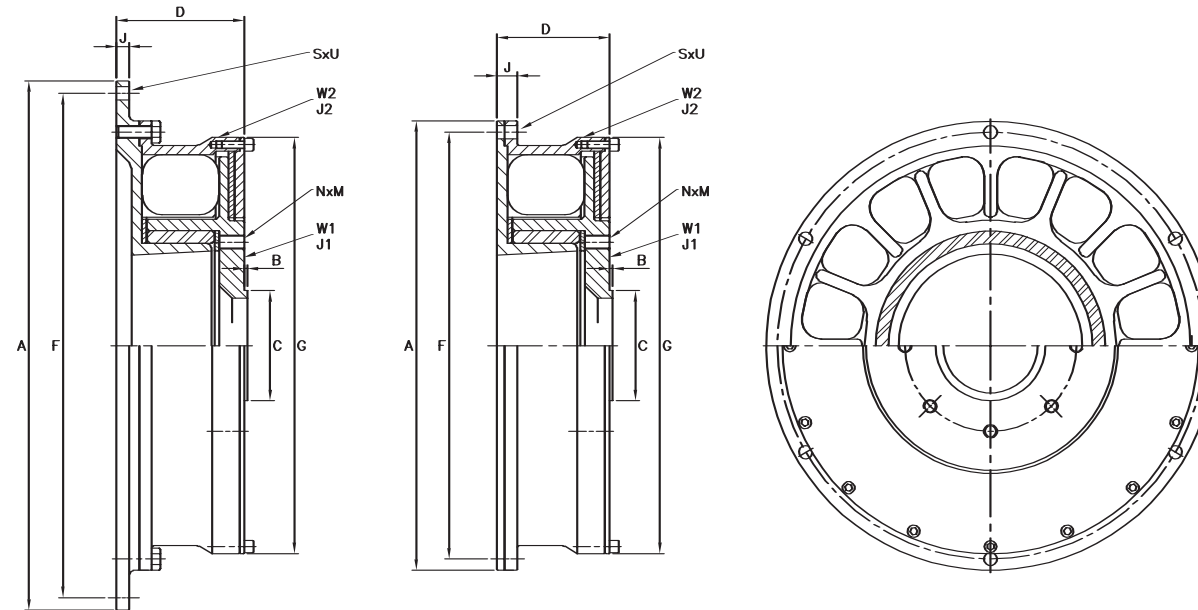
- Intrinsically fail safe
- Control of resonant torsional vibration
- Severe shock load protection
- Maintenance free
- Introduces damping into the driveline

Benefits

- Ensuring continuous operation of the driveline
- Achieving low vibratory loads in the driveline component by selection of optimum stiffness characteristics
- Avoiding failure of the driveline under short circuit and other transient conditions
- With no lubrication or adjustment required resulting in low running costs
- Reduces the vibratory torque in the driveline and hence increases plant life



UJ Flexible Coupling - Dimensional Data



Dimensional Data									
COUPLING SIZE	UJ1500		UJ2000		UJ5000		UJ10000		UJ18000
	SAE 10	SAE 11.5	SAE 11.5	SAE 14	SAE 14	SAE 18	SAE 18	SAE 21	SAE 21
A	314.3	352.4	352.4	466.7	466.7	571.5	571.5	673.1	673.1
D	84.0	91.0	86.0	96.0	115.0	127	143.5	162.5	183.0
F	295.3	333.4	333.4	438.2	438.2	542.9	542.9	641.4	641.4
G	283.0	283.0	316.0	316.0	426.5	426.5	529.0	529.0	620.0
J	17.5	10	19.5	10	23.0	14	26.0	16	31.5
S	8	8	8	8	8	6	6	12	12
U	10.5	10.5	10.5	13.5	13.5	17.0	17.0	17.0	17.0
Standard Flange N x M	DIN150		DIN 180		DIN 225		DIN 250		DIN 285
	8 x M12		10 x M16		8 x M16		8 x M18		8 x M20
	B	2.3	2.5	4.0	4.0	5.7	5.7	162.3	162.3
Weight (kg)	W1		9.2		21.2		43.3		81.5
	W2	17.2	21.2	23.1	41.9	52.5	66.8	90.3	114.2
Inertia (kgm ²)	J1		0.08		0.38		1.18		3.00
	J2	0.25	0.38	0.50	0.83	1.65	2.88	4.40	7.60

UJ Flexible Coupling - Technical Data

Technical Information	UJ1500	UJ2000	UJ5000	UJ10000	UJ18000
Nominal Torque T _{KN} (kNm)	1.5	2.0	5.0	10.0	18.0
Maximum Torque TK _{max} kNm)	4.5	6.0	15.0	30.0	54.0
Vibratory Torque TK _w (kNm)	0.5	0.66	1.66	3.33	6.0
Magnifier	3.5				
Allowable heat absorbed (w)	400	440	600	770	950
Maximum Speed (rpm)	3790	3345	2460	1985	1690

Dynamic Torsional Stiffness MNm/rad		UJ1500	UJ2000	UJ5000	UJ10000	UJ18000
10% T _{KN}	SM50	0.040	0.055	0.137	0.275	0.490
	SM60	0.050	0.068	0.170	0.335	0.610
	SM70	0.080	0.107	0.270	0.535	0.965
25% T _{KN}	SM50	0.045	0.060	0.145	0.290	0.525
	SM60	0.052	0.070	0.172	0.340	0.615
	SM70	0.082	0.110	0.275	0.540	0.970
50% T _{KN}	SM50	0.058	0.077	0.195	0.385	0.695
	SM60	0.065	0.085	0.215	0.425	0.770
	SM70	0.090	0.125	0.305	0.610	1.100
75% T _{KN}	SM50	0.085	0.112	0.280	0.560	1.005
	SM60	0.092	0.125	0.305	0.615	1.100
	SM70	0.115	0.150	0.380	0.760	1.370
100% T _{KN}	SM50	0.122	0.162	0.405	0.810	1.460
	SM60	0.135	0.180	0.450	0.900	1.620
	SM70	0.150	0.200	0.500	0.990	1.785

Flange Option	UJ1500	UJ2000	UJ5000	UJ10000	UJ18000
Mechanics Joint	4c	7c	8c	8c	-
	5c	8c	8.5c	8.5c	-
	6c		9c	9c	-
DIN Flange	90	120 – 8xM10	150 – 8xM12	225 – 8xM16	250
	100	120 – 8xM8	150 – 8xM10	225 – 12xM16	*285 – 8xM20
	120 – 8xM10	150 – 8xM12	180 – 8xM14	*225 – 8xM16	315
SAE Flange	1310	1280	1510	1880	1950
	1350	1310	1610	1910	2050
	1410	1350	1710		