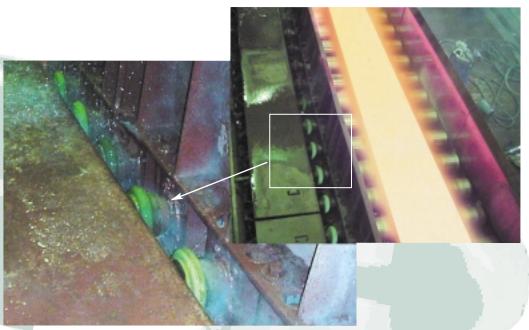
Omega®-HSU

The best coupling solution for Hot & Humid conditions

Rexnord has revolutionized the elastomeric coupling industry with a material that is specifically designed to give superior performance in hot and humid applications. Completely interchangeable with our standard Omega® coupling, the Omega® - HSU coupling offers the split-in-half convenience of easy installation without moving hubs or connected equipment.

Omega®-HSU couplings are non-lubricated, material flexing couplings utilizing a specially formulated polyurethane designed for exceptional durability, strength and fatigue resistance. The torsionally soft flex element protects connected equipment by cushioning shock loads, reducing torsional vibration and absorbing the effect of unavoidable misalignment. The result is lower equipment service and lower overall maintenance costs.





Rex Omega®-HSU Coupling

The Omega®-HSU coupling is an extension of the Omega product family utilizing Hydrolytically Stable Urethane. Rexnord engineers have spent many years researching the proper material that combines strength, vibration dampening and hydrolytic stability. The results are the Omega®-HSU coupling specifically designed for hot and humid environments.

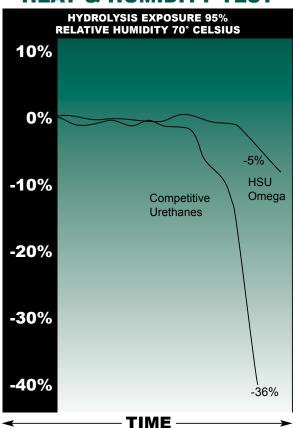
The Omega®-HSU material has been tested for many years in applications in steel mills, pulp and paper mills, chemical plants, and power generation facilities. This information along with extensive lab tests measuring misalignment capabilities, fatigue resistance, and peak overload, prove the

Omega®-HSU coupling can withstand challenging environmental applications.

The Omega[®]-HSU coupling is ideal for use in industrial applications such as pumps, screw compressors and blowers.

Omega®-HSU couplings lowered maintenance costs by increased operating life on a roll-table drive with high levels of heat and humidity.

HEAT & HUMIDITY TEST



In accelerated environmental chamber testing, tensile samples of polyurethane were exposed to high heat and humidity that accelerate hydrolysis degradation approximately 30-60 times normal. After exposure, only the HSU Omega polyurethane continued to perform with a minimal loss of tensile strength.

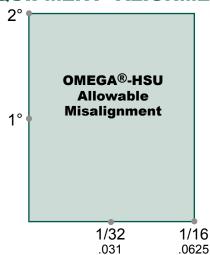
OMEGA-HSU SPECIFICATIONS

Power Ratings				Maximum Bore and Bushing Numbers				
Size	Power Rating 1 HP/100 RPM KW/RPM	Continuous Torque (1) In Lbs. Nm.	Max RPM 2	Straight Bore hubs Maximum Bore Inches mm	QD Hubs Max Bore 3 Inches	Bushing No.	TAPER LOCK® Hubs Max Bore 3 Inches mm	Bushing No.
2	0.30 0.0023	190 21.5	7500	1.13 28				
3	0.58 0.0043	365 41.2	7500	1.38			1 13	1008
4	0.88	550 62	7500	1.63	1.25	JA	1 1 13	1008
5	1.48 0.011	925 104.5	7500	1.88	1.63	SH	1.13 13	1108
10	2.3 0.017	1450 163.8	7500	2.13 55	1.94	SDS	1.44 13	1310
20	3.65 0.027	2300 260	6600	2.38 60	2.5	SK	1.69 21	1610
30	5.79 0.043	3650 412	5800	2.88 75	2.81	SF	2.12 21	2013
40	8.85 0.066	5500 622	5000	3.38 85	3.5	E	2.69 26	2517
50	12.14 0.09	7650 864	4200	3.63 90	3.5	E	2.69 26	2517
60	19.84 0.148	12500 1412	3800	4 105	3.94	F	3.25 31	3020
70	35.12 0.262	22125 2486	3600	4.5 120	4.5	J	3.94 31	3535
80	62.7 0.467	39500 4463	2000	6 155	5.5	М	4.44 31	4040
100	135 1	85050 9605	1900	6.75 171	5.5	М	4.94 48	4545
120	270 2	170100 ④ 19221	1800	7.5 190	6	N	5 48	5050
140	540 4	340200 ⑤ 38442	1500	9 229	7	Р	7 ⑥ 48	7060 ⑦

- Service factor = 1.0. This rating may be lower due to bushing ratings in severe applications.
 Consult bushing manufacturer.
- 2. Higher max RPMs are possible with optional high speed rings for sizes 20-80. Consult Rexnord.
- 3. With shallow keyway with steel bushings.
- 4. 120 couplings with QD hubs have a continuous torque rating of 150,000 inch-lbs. 120 couplings with TL hubs have a continuous torque rating of 126,000 inch-lbs.
- 5. 140 couplings with QD hubs have a continuous torque rating of 250,000 inch-lbs.
- 6. Maximum bushing bore capacity.
- 7. An 8065 bushing hub with 8.00" max bore also available. Consult Rexnord.
- $\ensuremath{\mathbb{B}}$ TAPERLOCK is the registered trademark of Reliance Electric and/or J. H. Fenner & Co. Limited England.

Note: Part numbers are the same as standard Omega with an HSU suffix.

EQUIPMENT ALIGNMENT



Coupling alignment is directly related to smooth efficient equipment operation. Care should be taken for best possible alignment.

When determining coupling misalignment capabilities, select the diagonal line on the corresponding chart by coupling size. Any combination of parallel and angular misalignment within the "square" formed is an acceptable operating state and will not cause a premature failure of the coupling under normal operation conditions. Any combination outside of the "square" formed is not recommended and may cause premature failures of the Omega[®] HSU Coupling.

The straight edge and caliper alignment method can be used, however, more accurate alignment methods are preferred. Refer to Rexnord bulletin "Coupling Alignment Made Easy" for specific techniques using reverse dial indicator, face/rim dial indicator, and across the flex element alignment methods.



