

OMEGA PILOTED FLOATING SHAFT COUPLINGS

Super Flexible Polyurethane Elements:

Protects equipment from the damaging effects of misalignment and shock loads. Elements are split longitudinally for easy assembly/disassembly.

Specially Designed Capture Feature:

Minimizes chances for catastrophic failures resulting from fatigue or excessive misalignment.

Optional Center Members:

Steel, stainless steel or composite materials are available depending on application and environmental requirements.

No Lubrication:

Pilot bushing and polyurethane element do not require lubrication.

Corrosion Resistance:

Zinc plated steel, stainless steel, composite material, or acid and alkali protective coatings are available.

Long Span Capability:

Optional composite tubes allow significantly longer span capabilities than conventional steel tubes.

Rex Omega Piloted floating shaft couplings are utilized to connect equipment which is relatively far apart. Such arrangements are particularly suited to transmit torque into areas where moisture, dust or corrosive conditions would be detrimental to driving machinery.

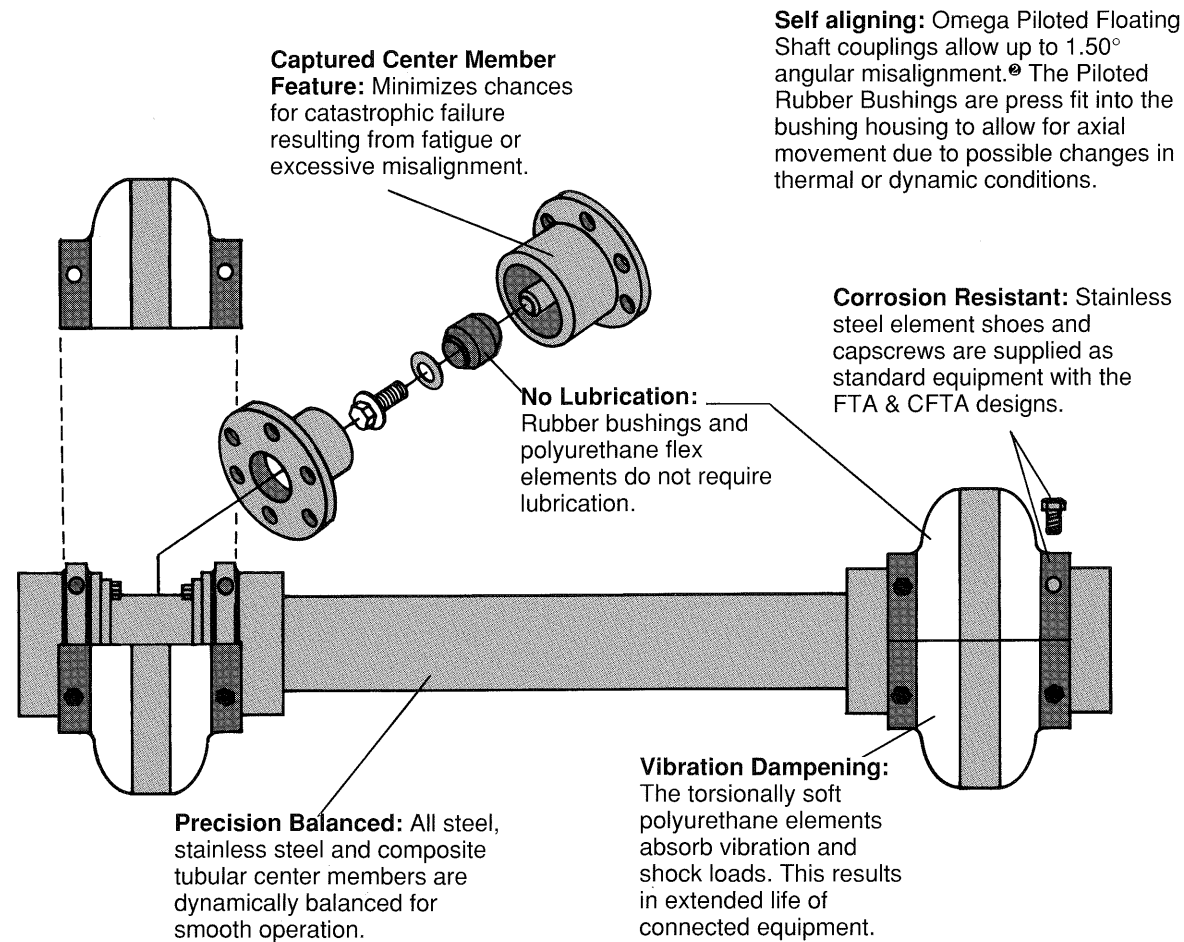
Typical applications include cooling tower drives, steel mill roll drives and paper machine drives[Ⓢ].

The Omega coupling's floating center member may be either solid or tubular, depending upon the system requirements. The assembly is piloted at each end by a resilient rubber bushing

assembly which eliminates the need for intermediate support bearings.

Besides reliability, safety was engineered into the design by incorporation of the captured center member feature, which minimizes the possibility of a catastrophic failure due to fatigue or severe misalignment.

Omega Piloted floating shaft couplings are designed to alleviate situations where excessive misalignment in cooling tower applications are trouble-some.



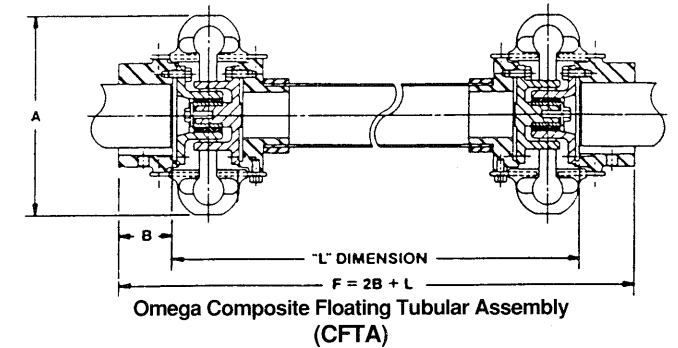
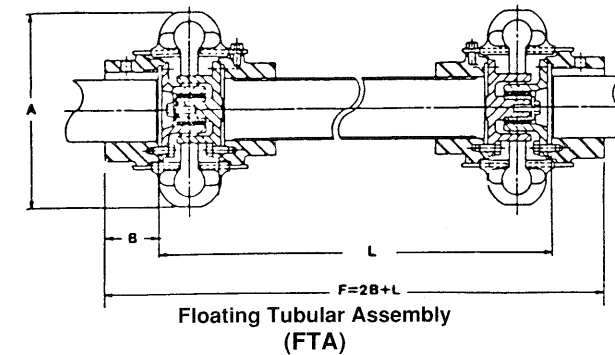
Optional: Backstop rotation device - eliminates windmilling effect. Consult Rexnord.

[Ⓢ] Consult Rexnord for torsional stiffness rate and application requirements.

[Ⓢ] Equivalent to .023 mm per mm of shaft spacing (L dimension). ***Note:** Coupling alignment is directly related to equipment and coupling life. Care should be taken for best possible alignment.



OMEGA PILOTED FLOATING SHAFT COUPLINGS (COOLING TOWER DRIVE COUPLINGS)



SPECIFICATION DATA

Omega Size No.	Power [Ⓢ] Rating KW RPM	Torque [Ⓢ] Capacity (Nm)	Max RPM	Max [Ⓢ] Bore (mm)	Dimensions (mm)		Minimum Span (L) mm	Maximum Span (L) in mm @ Max RPM [Ⓢ]	
					A	B		Steel FTA	Composite (CFTA)
E10-M	0.017	164	1800	55	162	43	213	1905	2642
E20-M	0.027	260	1800	60	184	48	251	2159	2642
E30-M	0.043	412	1800	75	210	54	267	2286	3277
E40-M	0.066	622	1800	85	241	59	292	2540	3277
E50-M	0.090	864	1800	90	279	65	337	2540	3277
E60-M	0.148	1412	1800	105	318	78	365	2718	3988
E70-M	0.262	2486	1800	120	356	87	400	2870	3988
E80-M	0.467	4463	1800	155	406	119	527	3124	4623
E100-M	1.000	9605	1500	171	533	135	495	3581	***
E120-M	2.000	19,221	1200	190	635	148	543	3734	***
E140-M	4.000	38,442	1200	229	762	178	***	***	***

[Ⓢ] Service Factor - 1.0 (2.0 Service Factor recommended for cooling tower applications).

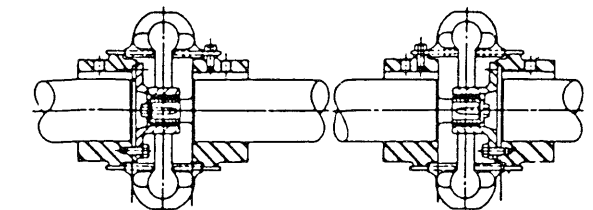
[Ⓢ] With straight bore hubs.

[Ⓢ] Longer spans are possible at slower speeds or with special "EL" (extra long/oversize) tubes. Adjustable length center tube design is also available.

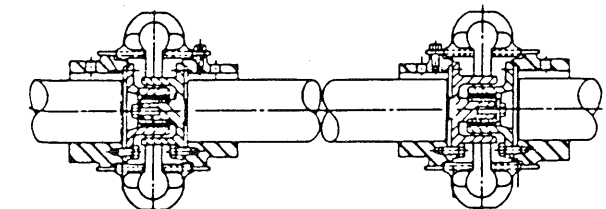
*** Consult factory.

Also available in two solid shaft arrangements

Consult Rexnord for specifications and application assistance.



Piloted Shaft Assembly (PSA)



Floating Shaft Assembly (FSA)

FTA and CFTA Material Classification (hubs and piloted bushing support hardware)

Class D	Type 303-304 Stainless Steel Tube, Nickel Plated Hubs & Bushing Assemblies with Stainless Steel Elements & Hardware
Class E	Type 303-304 Stainless Steel Tube, Hubs & Bushing Assemblies with Stainless Steel Elements & Hardware.
Class DC	Composite Tube, Nickel Plated Hubs & Bushing Assemblies with Stainless Steel Elements & Hardware.
Class EC	Composite Tube, Type 303-304 Stainless Steel Hubs & Bushing Assemblies with Stainless Steel Elements & Hardware.

