

S2 Series Load Chart																							
Bearing Group	MAX RPM	50 RPM		100 RPM		250 RPM		500 RPM		750 RPM		1000 RPM		1250 RPM		1500 RPM		2000 RPM		2500 RPM		3000 RPM	
		Pr	Pa	Pr	Pa	Pr	Pa	Pr	Pa	Pr	Pa	Pr	Pa	Pr	Pa	Pr	Pa	Pr	Pa	Pr	Pa	Pr	Pa
S2-208	3,750	7,255	2,143	5,893	2,143	4,476	1,892	3,636	946	3,220	631	2,953	473	2,762	378	2,615	315	2,399	237	2,244	189	2,124	158
S2-300	3,190	9,813	2,963	7,971	2,963	6,055	2,244	4,918	1,122	4,355	748	3,995	561	3,736	449	3,537	374	3,245	281	3,035	224		
S2-308	2,740	12,408	3,979	10,078	3,979	7,656	2,664	6,219	1,332	5,506	888	5,051	666	4,724	533	4,473	444	4,103	333	3,837	266		
S2-400	2,400	16,016	5,251	13,009	5,251	9,882	3,044	8,027	1,522	7,107	1,015	6,520	761	6,098	609	5,773	507	5,296	381				
S2-408	2,140	19,749	6,557	16,041	6,557	12,186	3,428	9,898	1,714	8,764	1,143	8,040	857	7,519	686	7,119	571						
S2-500	1,940	24,050	8,135	19,535	8,135	14,840	3,804	12,054	1,902	10,673	1,268	9,791	951	9,157	761	8,669	634						
S2-508	1,780	28,873	9,885	23,452	9,885	17,815	4,240	14,471	2,120	12,813	1,413	11,754	1,060	10,993	848	10,408	707						
S2-600	1,670	31,815	11,460	25,842	11,370	19,631	4,548	15,945	2,274	14,119	1,516	12,952	1,137	12,113	910								
S2-608	1,550	33,736	11,883	27,402	10,902	20,816	4,361	16,908	2,180	14,971	1,454	13,734	1,090	12,844	872								
S2-700	1,465	35,660	12,986	28,965	11,920	22,003	04,768	17,872	02,384	15,825	1,589	14,517	1,192	13,577	954								
S2-800	1,320	43,192	16,288	35,083	12,495	26,651	4,998	21,647	2,499	19,168	1,666	17,583	1,250	16,445	1,000								
S2-900	1,190	46,826	18,576	38,035	13,045	28,893	5,218	23,469	2,609	20,781	1,739	19,062	1,305										
S2-1000	1,080	53,126	21,376	43,152	13,757	32,781	5,503	26,626	2,751	23,577	1,834												
S2-1100	990	60,386	24,623	49,048	14,600	37,260	5,840	30,265	2,920	26,798	1,947												
S2-1200	915	65,028	27,753	52,819	15,185	40,125	6,074	32,591	3,037	28,858	2,025												
S2-1300	856	66,869	28,340	54,314	14,170	41,260	5,668	33,514	2,834	29,675	1,889												
S2-1400	805	77,709	32,100	63,119	16,050	47,949	6,420	38,947	3,210														
S2-1500	753	83,348	33,830	67,699	16,915	51,428	6,766	41,773	3,383														
S2-1600	713	92,492	35,980	75,127	17,990	57,071	7,196	46,356	3,598														

Radial Load: $Pr \leq \frac{Cr}{fd} \times \left(\frac{16667}{n \times L10}\right)^{3/10}$ Axial Load: $Pa \leq \frac{Ca \times SF}{n}$ or $.05 \times Co$, whichever is less

SF = 1000 RPM for small bore (600 group and below)
 100 RPM for large bore (608 group and above)

The above ratings are based upon a minimum life of 30,000 hours (L10), utilization of EP grease, and a service factor of 1.2 (fd).

Cr = Dynamic Radial Load Rating

Co = Static Radial Load Rating

Ca = Dynamic Axial Load Rating

L10 = Life Rating

SF = Speed Factor

n = RPM

fd = Service Factor