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SUPERSPEED RCF CHART

	FIXED-ANGLE										
ROTOR: RADIUS, max.cm	**SE-12** 9.33	**SA-300** 9.67	**SS-34** 10.70	**SM-24 inner** 9.10	**SM-24 outer** 11.07	**F-20/MICRO** 11.51	**SA-600** 12.96	**SLA-600TC** 14.70	**SLA-1000** 11.77	**GSA** 14.56	**SLA-1500** 13.59
RPM	RCF										
500	26	27	30	25	31	32	36	41	33	41	38
1,000	104	108	120	102	124	129	145	164	131	163	152
1,500	234	243	269	229	278	289	326	369	296	366	342
2,000	417	432	478	407	495	514	579	657	526	651	607
2,500	651	675	747	635	773	804	905	1,026	822	1,016	949
3,000	938	972	1,076	915	1,113	1,157	1,303	1,478	1,183	1,464	1,366
3,500	1,277	1,323	1,464	1,245	1,515	1,575	1,773	2,011	1,611	1,992	1,860
4,000	1,667	1,728	1,912	1,626	1,978	2,057	2,316	2,627	2,104	2,602	2,429
4,500	2,110	2,187	2,420	2,058	2,504	2,603	2,931	3,325	2,662	3,293	3,074
5,000	2,605	2,700	2,988	2,541	3,091	3,214	3,619	4,105	3,287	4,066	3,795
5,500	3,153	3,267	3,615	3,075	3,740	3,889	4,379	4,967	3,977	4,920	4,592
6,000	3,752	3,889	4,303	3,659	4,451	4,628	5,211	5,911	4,733	5,855	5,465
6,500	4,403	4,564	5,050	4,295	5,224	5,432	6,116	6,937	5,555	6,871	6,414
7,000	5,107	5,293	5,856	4,981	6,059	6,300	7,093	8,046	6,442	7,969	7,438
7,500	5,862	6,076	6,723	5,718	6,955	7,232	8,143	9,236	7,395	9,148	8,539
8,000	6,670	6,913	7,649	6,505	7,914	8,228	9,265	10,509	8,414	10,409	9,715
8,500	7,530	7,804	8,635	7,344	8,934	9,289	10,459	11,863	9,499	11,750	10,968
9,000	8,442	8,749	9,681	8,233	10,016	10,414	11,726	13,300	10,649	13,173	12,296
9,500	9,406	9,748	10,787	9,174	11,160	11,603	13,065	14,819	11,865	14,678	13,700
10,000	10,422	10,801	11,952	10,165	12,365	12,857	14,476	16,420	13,147	16,264	15,180
10,500	11,490	11,909	13,177	11,207	13,633	14,174	15,960	18,103	14,495	17,931	16,736
11,000	12,610	13,070	14,462	12,299	14,962	15,557	17,516	19,868	15,908	19,679	18,368
11,500	13,783	14,285	15,806	13,443	16,353	17,003	19,145	21,715	17,387	21,509	20,076
12,000	15,007	15,554	17,211	14,637	17,806	18,514	20,846	23,645	18,932	23,419	21,859
12,500	16,284	16,877	18,675	15,882	19,321	20,089	22,619	25,656	20,542	25,412	23,719
13,000	17,613	18,254	20,199	17,178	20,897	21,728	24,465	27,750	22,219	27,485	25,654
13,500	18,993	19,686	21,782	18,525	22,536	23,431	26,383	K = 913	23,961	K = 2,023	27,666
14,000	20,426	21,171	23,426	19,923	24,236	25,199	28,374		25,768		29,753
14,500	21,911	22,710	25,129	21,371	25,998	27,031	30,436		27,642		31,916
15,000	23,449	24,303	26,892	22,871	27,822	28,928	32,572		29,581		34,155
15,500	25,038	25,950	28,714	24,421	29,707	30,888	34,779		31,586		K = 1,475
16,000	26,679	27,652	30,597	26,022	31,655	32,913	37,059		33,657		
16,500	28,373	29,407	32,539	27,673	33,664	35,002	39,412		35,793		
17,000	30,118	31,216	34,541	29,376	35,735	37,156	41,837		K = 1,725		
17,500	31,916	33,079	36,603	31,129	37,868	39,374	K = 747				
18,000	33,766	34,997	38,724	32,934	40,063	41,656					
18,500	35,668	36,968	40,905	34,789	42,320	44,002					
19,000	37,622	38,993	43,146	36,695	44,638	46,413					
19,500	39,628	41,072	45,447	38,651	47,019	48,887					
20,000	41,686	43,206	47,808	40,659	49,461	51,427					
20,500	43,797	45,393	50,228	42,717	51,965	K = 187					
21,000	45,959	47,634	K = 714	K = 591	K = 434						
21,500	48,174	49,929									
22,000	50,441	52,279									
22,500	52,759	54,682									
23,000	55,130	57,139									
23,500	57,553	59,651									
24,000	60,028	62,216									
24,500	62,556	64,835									
25,000	65,135	67,509									
25,500	67,767	K = 573									
26,000	70,450										
	K = 335										

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These tables give the maximum RCF in *g* for all currently available SORVALL® rotors for superspeed applications up to 26,000 rpm.
To find the average or minimum RCF, consult your rotor instruction manual for the average or minimum radius, and use the formula given below:
K = $[2.53 \times 10^{11} \ln (R_{max}/R_{min})] / (rpm)^2$ **RCF** = $11.17r\ (rpm/1000)^2$ where r = radius in centimeters

	FIXED-ANGLE						SWINGING-BUCKET			
ROTOR:	**GS-3**	**SLA-3000**	**SLC-4000**	**ST-MICRO**	**SL-50T**	**SL-250T**	**SH-80**	**HB-6**	**HB-4**	**HS-4[1]**
RADIUS, max. cm	**15.13**	**15.13**	**16.76**	**10.05**	**10.70**	**11.77**	**10.16**	**14.63**	**14.68**	**17.23**
RPM		**RCF**								
500	42	42	47	28	30	33	28	41	41	48
1,000	169	169	187	112	120	131	113	163	164	192
1,500	380	380	421	253	269	296	255	368	369	433
2,000	676	676	749	449	478	526	454	654	656	770
2,500	1,056	1,056	1,170	702	747	822	709	1,021	1,025	1,20
3,000	1,521	1,521	1,685	1,011	1,076	1,183	1,021	1,471	1,476	1,732
3,500	2,070	2,070	2,293	1,377	1,464	1,611	1,390	2,002	2,009	2,358
4,000	2,704	2,704	2,995	1,798	1,912	2,104	1,816	2,615	2,624	3,079
4,500	3,422	3,422	3,791	2,275	2,420	2,662	2,298	3,309	3,321	3,897
5,000	4,225	4,225	4,680	2,809	2,988	3,287	2,837	4,085	4,099	4,811
5,500	5,112	5,112	5,663	3,399	3,615	3,977	3,433	4,943	4,960	5,822
6,000	6,084	6,084	6,740	4,045	4,303	4,733	4,086	5,883	5,903	6,929
6,500	7,140	7,140	7,910	4,748	5,050	5,555	4,795	6,904	6,928	8,131
7,000	8,281	8,281	9,173	5,506	5,856	6,442	5,561	8,007	8,035	9,430
7,500	9,506	9,506		6,321	6,723	7,395	6,384	9,192	9,224	10,826
8,000	10,816	10,816		7,192	7,649	8,414	7,263	10,459	10,494	K = 3,912
8,500	12,210	12,210		8,119	8,635	9,499	8,199	11,807	11,847	
9,000	13,689	13,689		9,102	9,681	10,649	9,192	13,237	13,282	
9,500	K = 4,203	15,252		10,141	10,787	11,865	10,242	14,748	14,799	
10,000		16,900		11,237	11,952	13,147	11,349	16,342	16,398	
10,500		18,632		12,389	13,177	14,495	12,512	18,017	18,078	
11,000		20,449		13,597	14,462	15,908	13,732	19,773	19,841	
11,500		22,351		14,861	15,806	17,387	15,009	21,612	21,686	
12,000		24,336		16,181	17,211	18,932	16,342	23,532	23,612	
12,500		K = 2,364		17,558	18,675	20,542	17,732	25,534	25,621	
13,000				18,991	20,199	22,219	19,179	27,617	27,712	
13,500				20,479	21,782	23,961	20,683	K = 1,765	K = 1,667	
14,000				22,025	23,426	25,768	22,243			
14,500				23,626	25,129	27,642	23,861			
15,000				25,283	26,892	K = 2,233	25,535			
15,500				26,997	28,714		27,265			
16,000				28,767	30,597		29,053			
16,500				30,593	32,539		30,897			
17,000				32,475	34,541		32,798			
17,500				34,413	36,603		34,755			
18,000				36,408	38,724		36,770			
18,500				38,459	40,905		38,841			
19,000				40,566	K = 822		40,969			
19,500				42,729			43,154			
20,000				44,948			45,395			
20,500				47,224			K = 400			
21,000				49,555						
				K = 198						

[1]Values given for 1 place carrier

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SORVALL®

SUPERSPEED RCF CHART

	SWINGING-BUCKET					VERTICAL		ZONAL
ROTOR:	SH-3000	SH-3000 MPC	ST-H50	ST-H750	ST-H750 MPC	SV-288	SV-80	TZ-28
RADIUS, max. cm:	18.54	15.02	14.63	18.54	15.02	9.02	10.16	9.53
RPM	RCF							
500	52	42	41	52	42	25	28	27
1,000	207	168	163	207	168	101	113	106
1,500	466	377	368	466	377	227	255	240
2,000	828	671	654	828	671	403	454	426
2,500	1,294	1,049	1,021	1,294	1,049	630	709	665
3,000	1,864	1,510	1,471	1,864	1,510	907	1,021	958
3,500	2,537	2,055	2,002	2,537	2,055	1,234	1,390	1,304
4,000	3,313	2,684	2,615	3,313	2,684	1,612	1,816	1,703
4,500	4,194	3,397	3,309	K = 11,246		2,040	2,298	2,156
5,000	K = 8,138		4,085			2,519	2,837	2,661
5,500			4,943			3,048	3,433	3,220
6,000			5,883			3,627	4,086	3,832
6,500			6,904			4,257	4,795	4,498
7,000			8,007			4,937	5,561	5,216
7,500			9,192			5,667	6,384	5,988
8,000			10,459			6,448	7,263	6,813
8,500			11,807			7,279	8,199	7,691
9,000			13,237			8,161	9,192	8,622
9,500			14,748			9,093	10,242	9,607
10,000			16,342			10,075	11,349	10,645
10,500			18,017			11,108	12,512	11,736
11,000			19,773			12,191	13,732	12,880
11,500			K = 2,465			13,325	15,009	14,078
12,000						14,508	16,342	15,329
12,500						15,743	17,732	16,633
13,000						17,027	19,179	17,990
13,500						18,362	20,683	19,401
14,000						19,748	22,243	20,864
14,500						21,183	23,861	22,381
15,000						22,670	25,535	23,951
15,500						24,206	27,265	25,575
16,000						25,793	29,053	27,251
16,500						27,430	30,897	28,981
17,000						29,118	32,798	30,764
17,500						30,856	34,755	32,600
18,000						32,644	36,770	34,490
18,500						34,483	38,841	36,433
19,000						36,372	40,969	38,428
19,500						38,311	K = 98	40,478
20,000						40,301		42,580
						K = 210		K = 612

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