

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:

$$K = [2.53 \times 10^{11} \ln (R_{\max}/R_{\min})] / (\text{rpm})^2 \quad \text{RCF} = 11.17r (\text{rpm}/1000)^2 \quad \text{where } r = \text{radius in centimeters}$$

	FIXED-ANGLE						SWINGING-BUCKET			
ROTOR: RADIUS, max. cm	GS-3	SLA-3000	SLC-4000	ST-MICRO	SL-50T	SL-250T	SH-80	HB-6	HB-4	HS-4 ¹
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

	SWINGING-BUCKET					VERTICAL		ZONAL		
ROTOR: RADIUS, max. cm:	SH-3000	SH-3000 MPC	ST-H50	ST-H750	ST-H750 MPC	SV-288	SV-80	TZ-28		
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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