





Rank	Company	# of facilities				Finished product mix (% of total production)							Manufacturing capabilities					Certification		Procurement (% of business)			Board assembly (% of assembly)				Board assembly technologies					Cleaning				Test										
		Total revenue 2001 (\$mil.)	Public = P, private = PR	North American	Offshore	Total employees 2001	Computers	Communications	Industrial	Medical	Military	Consumer	Other	New product design	Board layout/design	DFM**	Box/full-system build	Distribution and repair	Cable/harness assembly	ISO 9001 (Design and mfg.)	ISO 9002 (Manufacturing)	Turnkey	Consignment	Surface mount	Surface mount/through-hole mix	Through hole	BGA	TAB	MCM	Bare-die wire bond	Bare-die direct	PCMCIA	Flex	Bare-board	Backplanes	Mil-spec	Aqueous	No-clean	Alt. solvent	In-circuit	Functional	Environmental/ES S	X-ray			
84	Micro Dynamics (Eden Prairie, MN)	28	PR	2	0	200	17%	10%	39%	5%	13%	0%	16%	X	X	X	X	X	X	X	90%	10%	30%	60%	10%	X				X	X			X	X					X	X		X			
85	Altron Inc. (Anoka, MN)	27	PR	1	0	145	10%	15%	15%	55%	5%	0%	0%		X	X	X	X		X	90%	10%	20%	60%	20%	X				X	X					X	X				X	X				
85	Zober Industries Inc. (Croydon, PA)	27	PR	1	0	195	5%	20%	50%	20%	0%	5%	0%	X	X	X	X	X	X		60%	40%	40%	50%	10%	X				X					X	X	X				X	X				
87	Arc-tronics Inc. (Eik Grove Village, IL)	26.6	PR	2	0	175	0%	25%	40%	20%	0%	15%	0%	X	X	X	X	X	X		98%	2%	40%	40%	20%	X				X					X	X	X				X	X		X		
88	EI Microcircuits (Mankato, MN)	26	PR	1	0	170	0%	10%	30%	50%	0%	10%	0%	X	X	X	X		X		96%	4%	1%	98%	1%	X				X	X					X	X				X	X				
89	Libra Industries Inc. (Mentor, OH)	25	PR	2	0	150	5%	5%	50%	35%	0%	5%	0%		X	X	X	X		X	95%	5%	10%	80%	10%	X				X	X					X	X				X	X		X		
89	Ramp Industries (Binghamton, NY)	25	PR	2	0	170	10%	20%	20%	20%	10%	0%	0%		X	X	X		X		75%	25%	25%	50%	25%	X				X				X	X				X	X		X		X		
89	Entronix Int'l (Minneapolis, MN)	25	PR	2	4	400	0%	52%	34%	0%	2%	10%	2%		X	X	X	X	X		90%	10%	25%	50%	25%	X				X	X				X	X	X				X	X		X		
89	Pinnacle Electronics (East Pittsburgh, PA)	25	PR	1	0	158	0%	8%	35%	5%	0%	0%	52%	X	X	X	X	X	X		98%	2%	12%	83%	5%	X								X	X	X	X				X	X		X		
93	Telco Inc. (Franklin, TN)	24	PR	1	0	260	15%	15%	30%	20%	0%	15%	5%		X	X	X	X	X		85%	15%	10%	80%	10%	X										X	X				X	X				
93	Test Technology Inc. (Marlton, NJ)	24	PR	2	0	229	5%	70%	25%	0%	0%	0%	0%		X	X	X	X	X		100%	0%	10%	80%	10%	X								X	X	X	X				X	X		X		
95	AG Communication Systems (Genoa, IL)	23.7	P	1	0	160	5%	90%	5%	0%	0%	0%	0%	X	X	X	X	X	X		95%	5%	60%	30%	10%	X										X	X				X	X		X		
96	Electronic Systems Inc. (Sioux Falls, SD)	23	PR	2	0	250	8%	5%	75%	12%	0%	0%	0%	X	X	X	X	X	X		96%	4%	5%	90%	5%					X					X	X	X				X	X		X		
97	Manufactured Assemblies Corp. (Dayton, OH)	22.3	PR	2	0	117	30%	30%	10%	0%	0%	30%	0%	X	X	X	X	X	X		98%	2%	0%	100%	0%					X										X						
98	Sonic Mfg. Tech. (Fremont, CA)	22	PR	1	0	200	0%	30%	30%	30%	0%	0%	10%		X	X	X	X			90%	10%	50%	30%	20%	X										X	X				X	X		X		
98	General Technology Corp. (Albuquerque, NM)	22	PR	1	0	140	0%	0%	5%	0%	75%	0%	20%		X	X	X		X		90%	10%	0%	55%	45%	X							X	X			X	X				X	X		X	
98	Quay Corp. (Eatontown, NJ)	22	PR	1	0	85	30%	35%	28%	1%	6%	0%	0%	X	X	X	X	X	X		60%	40%	5%	93%	2%	X			X						X	X	X	X				X	X		X	

SOURCE: Reed Research Group  
1 Flextronics combined medical and consumer sales equals 6%.  
2 The merger of Sanmina and SCI Systems was completed December 2001. Revenue figures reflect the combination of the two companies.  
3 Act Manufacturing filed for Chapter 11 in December 2001. The company's international operations were purchased by Benchmark Electronics, while the domestic operations (now Act Electronics) were purchased by Sun Capital Partners. Both deals were finalized by July 2002.  
4 EFTC's acquisition of K\*TEC was completed in February 2002. The combined companies took on the name Suntron. Financial figures for 2001 are those reported on the company's 10-K, and do not include K\*TEC. All other information listed is that reported by the company.  
5 Revenue figures are Reed Research Group estimates.  
6 All information except revenue represents company status at the end of fiscal year 2000.  
7 TT ems includes the two contract manufacturing operations of TT electronics—AB Electronic Assemblies and Welwyn Systems.  
\* Calendar figures were used where available. Calendar year data is for the four quarters ending closest to Dec. 31, 2001.  
\*\* Design for Manufacturability  
N/A=Not Available