

INTERNATIONAL DIRECTORY OF IC PACKAGING FOUNDRIES

LEGEND

- Customers in % by Region
 A=Asia (except China and Japan);
 B=Europe; C=Japan; D=North America;
 E=China; F=Rest of World
- Package Materials Offered
 A=Ceramic; B=Plastic; C=Metal; D=Other
- Dedicated Lines
 A=None; B=1 to 5; C=Other or Declined to state
- On-Site Test
 A=Opens/Shorts; B=Memory; C=Logic;
 D=Analog/Mixed-Signal; E=Fine Leak;
 F=Gross Leak; G=Other
- Quality Audits
 A=ISO9001; B=ISO9002; C=ISO14,000;
 D=SAC Level 1; E=QS9000;
 F=ISO/TS16949:2002; G=Other

Company Address Phone Fax Founded Chairman ★ President ◆ CEO ☆ COO ◇ Other Title	Notes: All information has been supplied by the respective vendors. Issue advertisers are shown in bold face type. ☎=Consult Vendor *LQ=Latest Reported Quarter, CQ=Comparable Quarter	Number of Employees	Stock Symbol (Exchange) Training Began → Fiscal (ends) or Calendar Year	High Price ↓ Low Price (USD) and Date	2002 Sales Profit/Loss	2003 Sales Profit/Loss	LQ* 2004 Sales Profit/Loss	CQ* 2003 Sales Profit/Loss	Customers by Region	Package Materials	Water Bumping? Flip-chip Packaging?	Dedicated Lines % Test % Assembly	Total Facilities Area in Meters ² No. of Pans	On-Site Test Equipment	Quality Audits	Web Site U.S. Office (if foreign-based) Contact Phone Plant Locations Additional Sales and Support Offices (advertisers only)
Advanced Semiconductor Engineering Inc. Nantze Export Processing Zone Kaoshiung, Taiwan ☎ +886.7.361.7131 ☎ +886.7.361.4546.361.3094 🏠 1984 ★ Jason Chang ★ Richard Chang		10,000+	ASX (NYSE) Sept. 2000 → Dec. 31	\$6.04 (2/2/04) ↓ \$2.27 (5/10/03)	\$1.32B \$21M	\$1.67B \$80M	\$516.9M (Q1-04) \$49.1M	\$336M (Q1-04) \$10M	A=28, B=9, C=2, D=60, F=1	A, B, C	Yes Yes	C 100% 100%	600,000 +9	A, B, C, D, E, F	B, C, E, F	[aseglobal.com] ASE (U.S.) Inc. 3590 Peterson Way, Santa Clara, CA 95054 Jennifer Yuen, Dir. of Mktg. and Communications marketing@aseus.com 408.986.6500 408.565.0289 Hong Kong (1), Korea (1), Japan (1), Malaysia (1), Singapore (1), Taiwan (2), USA (2)
Amkor Technology Inc. Operations HQ: 1900 South Price Rd. Chandler, AZ 85248 ☎ 480.821.5000 ☎ 480.821.8276 🏠 1968 ★ James J. Kim ◇ John Borch (Vice Chairman) ★ Bruce Freyman		20,000+	AMKR (NASDAQ) May 1998 → Dec. 31	\$62.75 (3/27/00) ↓ \$1.20 (9/24/02)	\$1.4B \$83.5M	\$1.6B \$14.5M	\$465M (Q1-04) \$12M	\$343M (Q1-03) \$4.5M	A, B, flip-based, WLCSP, camera modules	A, B, C, D, E	Yes Yes	C 100% 100%	384,000 +11	A, B, C, D, E	A, B, C, D, E, ISO14001, ISO9001	[amkor.com] Jeffrey Luth, VP-Corp. Communications jluth@amkor.com 480.821.2408 x5130 China (1), Japan (1), Korea (3), Philippines (4), Taiwan (2)
ASAT Holdings Ltd. QPL Industrial Building Hong Kong ☎ +852.2408.7811 ☎ +852.2407.4056 🏠 1988 ◆ Harry Rozakis		1,700	ASTT (NASDAQ) July 2000 → April 30	\$12.38 (July 2000) ↓ \$0.35 (Feb. 2003)	\$102.4M \$99M	\$150M \$99M	\$59.6M (Q3-04) \$1.4M	\$9.7M (Q3-03) \$5.7M	A=6, B=14, D=80	A, B, C	Yes Yes	C 20% 80%	2	B, D, E, F	A, C, D, E, F	[asat.com] ASAT Inc. 6701 Koll Center Pkwy. Neil McLellan, CTO neil_mclellan@asat.com 925.398.0400 Hong Kong (1), China (1)
Carsem Jalan Lapangan Terbang P.O. Box 204, 30720 Ipoh, Perak, Malaysia ☎ +60.5.312.3333 ☎ +60.5.312.5333 🏠 1972 ★ Kwek Leng San ◆ David Comley (CEO/Group Managing Director)		7,500	MPI (Kuala Lumpur) 1984 → June 30	\$15 (Feb. 2000) ↓ \$2.60 (April 2001)	\$232M \$17.7M	\$22M \$7.6M	\$77.2M (Q2-04) \$7.6M	\$65.4M (Q2-03) \$0.2M	A=11, B=30, C=1, D=58	A (SIP only), B	No Yes	A 20% 80%	115,000 +3	A, C, D, RFD/digital	A, B, C, D, E, F	[carsem.com] Carsem, 269 Mt. Hermon Rd., Ste. 104 Scotts Valley, CA 95066 Paul Smith, Marketing Director, psmith@carsem.com 831.438.6861 831.438.6863 China (1), Malaysia (2) Plainville (Boston) MA: 508.699.4720 Swindon, England: +44.1793.853888
Chip Supply Inc. 7725 N. Orange Blossom Trail Orlando, FL 32810 ☎ 407.298.7100 ☎ 407.290.0164 🏠 1978 ★ Edward Perrott		140							A=5, B=15, D=80	A, B, C, laminates	Yes Yes	C 35% 65%	3,800 +1	A, B, C, D, E, F	A	[chipsupply.com] Scott Smith, Sales Manager ssmith@chipsupply.com
CORWIL Technology Group 2127 Ringwood Ave. San Jose, CA 95131 ☎ 408.321.6404 ☎ 408.321.6407 🏠 1990 ★ Robert C. Corrao									A=5, C=2, D=88	A, B, laminates	No No	C 100% 90%	3,000 +1	Environ. MIL screening	B, OML listed	[corwil.com] Robert Corrao, President robcorrao@corwil.com San Jose

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See detailed descriptions and legend on opposite page.															
<p>EEMS Italia SpA Viale delle Scienze 5 Cittaducale (RI), Italy ☎ +39.0746.6041 ✉ +39.0746.606969 🏠 1994 ★ Giovanni Battista Nunziante ★ Enzo D'Antonio</p>	600														<p>[eems.it] ✳ Elio Mungo, Account Manager elio.mungo@eems.it 🌐 Rieti, Cittaducale, Italy</p>
<p>Hana Microelectronics Bangkok 10210, Thailand ☎ +66.2551.1297 ✉ +66.2551.1299 🏠 1978 ★ Richard Han ★ Winson Hui</p>	6,000														<p>[hanagroup.com] Hana Microelectronics Inc. 1731 Technology Dr., Ste. 590, San Jose, CA 95110 ✳ Bruce Stromstad, President bruce@hanaus.com ☎ 408.467.0911 🌐 Ayutthaya, Thailand</p>
<p>IPAC 2221 Oakland Rd. San Jose, CA 95131 ☎ 408.321.3600 ✉ 408.321.3660 🏠 1993 ★ Victor Batinovich</p>	100														<p>[ipac.com] ✳ Martin Paul, VP-Sales and Marketing martin.paul@ipac.com 🌐 San Jose (1), Malaysia (1)</p>
<p>King Yuan Electronics Co. No. 1 Lane 99, Pu-Ding Road Hsin-Chu 300, Taiwan ROC ☎ +886.3.5751888 ✉ +886.3.5753866 🏠 1987 ★ Chin Kung Lee ★ D.F. Lin ★ Bright Shiao</p>	2,850														<p>[kyec.com.tw] KYEC USA, 1735 Technology Dr., #270 San Jose, CA 95110 ✳ H.C. Peng, President hcpeng@kyecusa.com ☎ 408.452.7680 ✉ 408.452.7689 ✳ Rhoda Ku, Associate Director, jcku@kyec.com.tw 🌐 Taiwan</p>
<p>Lingsen Precision Industries Ltd. Taichung, 427 Taiwan ☎ +886.4.2533.5120 ✉ +886.4.2533.0183 🏠 1973 ★ Ko-Chien Yeh</p>	1,500														<p>[lingsen.com.tw] Lingsen America Inc. 3140 De La Cruz Blvd., Ste. 101 Santa Clara, CA 95054 ✳ Jenny Wong, Dir. of Business Development jennywong@lingsen.com.tw ☎ 408.855.0594 🌐 China (1), Taiwan (1)</p>
<p>Majelac Technologies Inc. 905 Harrison St., Ste. 127 Allentown, PA 18103 ☎ 610.770.1060 ✉ 610.770.1043 🏠 2002 ★ Marygrace Quinn ★ Michael Quinn</p>	Under 50														<p>[majelac.com] ✳ Michael Quinn, President mfquinn@majelac.com 🌐 Allentown, PA</p>
<p>Maxtek Components Corp. (A Tektronix Company) 2905 SW Hocken Ave. Beaverton, OR 97005 ☎ 503.627.4133 ✉ 503.627.4651 🏠 1994 ★ Thomas Buzak</p>	200														<p>[maxtek.com] ✳ Eric Hodges, Marketing Manager eric.hodges@maxtek.com ☎ 503.627.4521 🌐 Beaverton, OR</p>

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Company Address Phone Fax Founded Chairman ★ President ◆ CEO ☆ COO ◇ Other Title	Number of Employees	Stock Symbol (Exchange) Trading Began Fiscal (ends) or Calendar Year	High Price Low Price (USD) and Date	2002 Sales 2003 Sales 2004 Sales	2002 Profit/Loss 2003 Profit/Loss 2004 Profit/Loss	2002 Sales 2003 Sales 2004 Sales	2002 Profit/Loss 2003 Profit/Loss 2004 Profit/Loss	Customers by Region	Package Materials	Water Bumping? Flip-chip Packaging?	Dedicated Lines % Test % Assembly	Total Facilities Area in Meters ² No. of Pans	On-Site Test Equipment	Quality Audits	Web Site U.S. Office (if foreign-based) Contact Phone Plant Locations Additional Sales and Support Offices (advertisers only)
Natel Engineering Co. 9340 Owensmouth Ave. Chatsworth, CA 91311 818.734.6500 818.734.6530 1975 ★ Sudesh Arora ☆ Doug Russell	225							D=97, F=3	A, C	Yes Yes	C 40% 60%	43,890 3	A, C, D, E, F	A, MIL-PRF-38534 (MIL 883)	[natelengr.com] ★ Mike LoFrumento mlofrumento@natelengr.com 423.653.8776 Chatsworth, CA (1), Costa Mesa, CA (1), Simi Valley, CA (1)
NS Electronics Bangkok 40/10 Sukumvit, Soi 105 Bangna, Bangkok 10260, Thailand +662.749.1680 +662.398.7157 1993 ★ Thanmu Wanglee ★ Udom Udomypanyavit	2,900							A=10, B=20, D=70	B	No Yes	C 35% 65%	30,000 3	B, C, D, E	B, C, D, E	[nseb.com] ★ NS Electronics (USA) Inc. 298 S. Sunnyvale Rd., Ste. 201 Sunnyvale, CA 94086 ★ Jerry Kirby, Sales and Marketing Manager jkirby@nseb.com 408.749.9155 408.749.9239
PT Omedata Electronics Bandung, 40223 Indonesia +62.22.6030805 +62.22.6030896 1986 ★ Bambang Handoyo	1,620							A=0.5, B=0.5, F=99	B	No Yes	B 3% 87%	8,761 1	A, B, C, D	A, E, ISO14001	[omedata.com] ★ Omedata USA 891 Clyde Ave., Santa Clara, CA 95054 ★ Sam Gomez, samgomez@omedata.com ★ Susi Matarina Ginting, Marketing Manager s.m.ginting@omedata.com Bandung, West Java, Indonesia
Pantronix Corp. 2710 Lakeview Court Fremont, CA 94538 510.656.5898 510.656.7779 1974 ★ Stanley Wang ◇ John Lynch	4,100							A=75, B=5, D=20	A, B, C, modules, subsystems	Yes No	D 10% 90%	50,000 3	A, B, D, E	B	[pantronix.com] ★ Stanley Wang, President ptx@pantronix.com China (1), Fremont, CA (1), Philippines (1)
Promex Industries Inc. 3075 Oakmead Village Dr. Santa Clara, CA 95051 408.496.0222 408.496.0117 1974 ★ Richard Otte	78							A=3, B=2, D=95	A, B, opto packaging	No Yes	A 5% 95%	6,400 2	A, D, E, F	A	[promex-ind.com] ★ Chris Pugh, Sales and Marketing pughc@promex-ind.com Santa Clara, CA (1), Shanghai, China—joint venture (1)
PSi Technologies Inc. Metro Manila Philippines +63.2.838.49.66 to 74 +63.2.838.46.48 1988 ★ Arthur J. Young Jr. ◇ Freddie Canlas, Marketing Director fmcaldas@psitechnologies.com.ph	3,369	PSIT (NASDAQ) March 2000 Dec. 31	\$25.44 (3/17/00) \$0.89 (10/17/02)	\$70.54M \$77.7M \$70.54M	\$6.97M \$6.97M	\$20.1M (01-03) \$2.5M	\$18.9M (01-04) \$1.6M	A=11, B=51, D=38	A, B, C	No No	C 27% 73%	17,800 3	A, C, D, E, F	A, C, D, E, F, MIL-PRF-19600, MIL-PRF-38535	[psitechnologies.com] ★ PACSEM Technologies 395 Oyster Point Blvd., Ste. 226 S. San Francisco, CA 94080 ★ U.S.A. Marketing Office 721 E. Citation Lane, Tempe, AZ 85284 ★ Mike Gholson, tmg@psitechnologies.com 480.838.5286 480.838.5292 China (1), Philippines (2)

