

# AEROSPACE & DEFENSE CONTRACTORS

Rank Prev. Rank	Company •Address	•Website •Email	OC employees •yearly % change	Companywide employees •yearly % change	OC sites	Parent company •Headquarters	Partial list of projects	Partial list of clients	Top local official(s) •Title •Phone/fax
<b>1</b> (1)	<b>Boeing Co.</b> 2201 Seal Beach Blvd. Seal Beach 90740-1515	boeing.com	6,103 <sup>(1)</sup> NA	154,709 -5%	2	Boeing Co. Chicago	would not disclose	Air Force, Army, Navy, NASA	Craig Cooning president, network and space systems (562) 797-2020
<b>2</b> (2)	<b>Panasonic Avionics Corp.</b> 26200 Enterprise Way Lake Forest 92630-8400	panasonic.aero info@panasonic.aero	2,290 18%	4,554 13%	1	Panasonic Corp. Osaka, Japan	Inflight Entertainment Systems, Inflight Connectivity, Technical Services, Weather Solutions	Emirates, Etihad, All Nippon Airways, Singapore Airlines, United Airlines Inc.	Paul Margis CEO (949) 672-2000/(949) 462-7100
<b>3</b> (3)	<b>Parker Aerospace</b> 14300 Alton Parkway Irvine 92618-1898	parker.com	1,730 <sup>(1)</sup> NA	55,000 <sup>(1)</sup> NA	2 <sup>(1)</sup>	Parker Hannifin Corp. Cleveland	787, A380, A350 XWB	Government, Boeing, Airbus	Roger Sherrard president (949) 833-3000
<b>4</b> (4)	<b>C&amp;D Zodiac</b> 5701 Bolsa Ave. Huntington Beach 92647-2063	zodiac aerospace.com	1,650 <sup>(1)</sup> NA	31,171 11%	7	Groupe Zodiac France	Aircraft interiors	Embraer-Empresa, Bombardier Inc., Boeing	Olivier Zarrouati CEO (714) 934-0000/(714) 934-0088
	<b>Precision Castparts Corp.</b>	precast.com	1,623 <sup>(1)</sup> NA	30,100 3%	5	Precision Castparts Portland, Ore.			
	<b>Air Industries Corp.</b> 12570 Knott St. Garden Grove 92841-3932	air-industries.com	600 <sup>(1)</sup> NA		1		Joint Strike Fighter, A350, 787	Boeing, Lockheed Martin Corp., Airbus SAS	Luis Liu VP (714) 892-5571/(714) 892-7904
<b>5</b> (5)	<b>Cherry Aerospace</b> 1224 E. Warner Ave. Santa Ana 92705-5414	cherryaerospace.com info@cherryaero.com	340 <sup>(1)</sup> NA		1		would not disclose	would not disclose	Robert Allebaugh district sales manager (714) 545-5511/(714) 850-6095



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AEROSPACE & DEFENSE INDUSTRY

**Isaac Bunney**  
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	<b>SPS Technologies</b> 2701 S. Harbor Blvd. Santa Ana 92704-5803	spstech.com	275 <sup>(1)</sup> NA		1		Specialty fasteners, fastening systems	Military, commercial aircraft	Karen Alexander inside sales manager (714) 545-9311/(714) 850-3605
	<b>Shur-Lok Co.</b> 2541 White Road Irvine 92614-6235	shur-lok.com sales@shur-lok.com	270 8%		1		Fasteners for military aircraft, satellites	Boeing, Lockheed Martin, Northrop Grumman Corp.	wnd (949) 474-6000/(949) 660-8601
	<b>StratoFlight Corp.</b> <sup>(2)</sup> 2331 S. Pullman St. Santa Ana 92705-5507	syncaero.com/ companies/stratoflight	138 <sup>(1)</sup> NA		1		Machined parts, assemblies	Boeing, Honeywell, Lockheed Martin	wnd (949) 623-3120
<b>6</b> (6)	<b>ThalesRaytheonSystems Co.</b> 1801 Hughes Drive Fullerton 92834-9455	thalesraytheon.com	1,600 <sup>(1)</sup> NA	2,200 <sup>(1)</sup> NA	1	Raytheon Thales Group Waltham, Mass.	Command & Control (C2), C4I systems, Battlefield radars	Army, Air Force	Stephen Dumont CEO, US operations (714) 446-3800
	<b>Esterline Technologies Corp.</b>	esterline.com investor@esterline.com	1,103 <sup>(1)</sup> NA	13,290 3%	3	Esterline Technologies Corp. Bellevue, Wash.			
<b>7</b> (7)	<b>Esterline Kirkhill Elastomers</b> 300 E. Cypress St. Brea 92821-4007	esterline.com sales@kirkhill-ta.com	768 <sup>(1)</sup> NA		1		Boeing 787, Airbus A380, Joint Strike Fighter	Northrop Grumman, Spirit, Gulfstream	Tony Kelsey president, Kirkhill Elastomers (714) 529-4901/(714) 529-6775
	<b>Esterline Power Systems</b> 6900 Orangethorpe Ave. Buena Park 90622-5032	esterline.com/powersystems jose.muniz@esterline.com	250 <sup>(1)</sup> NA		1		Boeing H-47, Sikorsky S-76, Embraer KC390	Boeing, Sikorsky Aircraft Corp., Embraer	Tim Ostrosky VP, sales and marketing (714) 736-7300
	<b>Esterline Palomar Products Inc.</b> 23042 Arroyo Vista Rancho Santa Margarita 92688-2604	esterline.com/ controlandcommunication palpro.sales@esterline.com	85 <sup>(1)</sup> NA		1		737 AEW&C, P-8A Poseidon aircraft, C-130J	Boeing, Lockheed Martin, L-3 Communications Inc., Northrop Grumman	Keith Hartlage president, Esterline Palomar Products (949) 766-5300

Abbreviations: NA: not applicable; NR: not ranked; wnd: would not disclose  
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<sup>(1)</sup> Business Journal estimate

<sup>(2)</sup> Previously listed as Synchronous Aerospace Group

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8 (8)	<b>Thales Avionics Inc.</b> 58 Discovery Irvine 92618-3105	thalesgroup.com	1,100 <sup>(1)</sup> NA	1,500 <sup>(1)</sup> NA	1	Thales Group Neuilly-sur-Seine, France	In-flight entertainment systems	Boeing, Airbus, Embraer, Bombardier	Dominique Giannoni VP/general manager (949) 790-2500/(949) 790-2998
9 (10)	<b>Arrowhead Products Corp.</b> 4411 Katella Ave. Los Alamitos 90720-3599	arrowheadproducts.net	963 NA	963 NA	2	Industrial Manufacturing Co. Brecksville, Ohio	Joint Strike Fighter F35, F-22, F-18, C-130, J2X PWR Rocket Engine, Boeing SLS 777, 747-8, 737	Lockheed Martin, Boeing, United Space Alliance Airbus, Liebherr, Embraer, Rolls-Royce	David Bender president (714) 828-7770
10 (9)	<b>Alcoa Fastening Systems &amp; Rings<sup>(3)</sup></b> 800 S. State College Blvd. Fullerton 92831-5334	alcoa.com	680 <sup>(1)</sup> NA	60,000 <sup>(1)</sup> NA	2	Alcoa Inc. Pittsburgh	Fasteners	Boeing, General Electric Co., Pratt & Whitney	William Hart director of operations (714) 871-1550
	<b>Meggitt PLC</b>	meggitt.com	630 -2%	12,000 0%	2	Meggitt PLC Bournemouth, U.K.			
11 (11)	<b>Meggitt Sensing Systems</b> 14600 Myford Road Irvine 92606-1005	meggitt.com daniel.rosales@meggitt.com	400 -5%		1		F-35 Joint Strike Fighter, F-22 Raptor, UH-60 Blackhawk	Hamilton Sundstrand, Pratt & Whitney, Sikorsky	Daniel Rosales general manager (949) 276-0368/(949) 661-7231
	<b>Meggitt Defense Systems Inc.</b> 9801 Muirlands Blvd. Irvine 92618-2521	meggittdefense.com bill.thompson@meggitt.com	230 3%		1		P-8 Poseidon Electronics Cooling, Navy/Air Force Airborne Countermeasures Systems, AH-1Z Cobra 20mm system	General Dynamics Corp., Raytheon, Boeing, government	Roger Brum president (949) 465-7700/(949) 465-9560

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<sup>(1)</sup> Business Journal estimate

<sup>(3)</sup> Previously listed as Alcoa Fastening Systems

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<b>12</b> (14)	<b>EnCore</b> 5511 Skylab Road Huntington Beach 92647-2068	encoreaerospace.com	600 NA	700 NA	4	EnCore Huntington Beach	would not disclose	would not disclose	Tom McFarland CEO (949) 559-0930
<b>13</b> (12)	<b>Rockwell Collins Inc.</b> 1833 Alton Parkway Irvine 92606-4902	rockwellcollins.com collinsfilters@rockwellcollins.com	571 -1%	19,500 -3%	1	Rockwell Collins Cedar Rapids, Iowa	Cabin management, in-flight entertainment, electromechanical systems	Boeing, Cessna, Bombardier	Greg Irmen VP/general manager (714) 929-3971/(714) 929-4011
<b>14</b> (13)	<b>GKN Aerospace Transparency Systems Inc.</b> 12122 Western Ave. Garden Grove 92841-2915	gkn.com enquiries@gkn.com	547 <sup>(1)</sup> NA	49,700 <sup>(1)</sup> NA	2	GKN PLC Redditch, U.K.	Aerospace transparencies	Boeing	Ronald Kato president, Garden Grove development and business strategy (714) 653-7531/(714) 897-1139
	<b>Transdigm Group Inc.</b>	transdigm.com info@transdigm.com	440 <sup>(1)</sup> NA	8,200 12%	2	Transdigm Group Inc. Cleveland			
<b>15</b> (15)	<b>Adams Rite Aerospace Inc.</b> 4141 N. Palm St. Fullerton 92835-1025	ar-aero.com	220 <sup>(1)</sup> NA		1		Interior locks, latches, electro- mechanical controls, fluid controls, oxygen products	would not disclose	John Schaefer president (714) 278-6500/(714) 278-6510
	<b>Hartwell Corp.</b> 900 S. Richfield Road Placentia 92870-6732	hartwellcorp.com info@hartwellcorp.com	220 10%		1		B787, A350, KC-767	Boeing, Airbus, Bombardier	Michael Couitt president (714) 993-4200/(714) 579-4419
<b>16</b> (16)	<b>Eaton Corp.</b> 9650 Jeronimo Road Irvine 92618-2024	eaton.com/aerospace	414 <sup>(1)</sup> NA	6,766 <sup>(1)</sup> NA	1	Eaton Corp. Dublin, Ireland	787, A380, Joint Strike Fighter, CH53K	Airbus, Boeing, Lockheed Martin, Northrop Grumman	Nanda Kumar president, Aerospace Group (949) 452-9500
<b>17</b> (17)	<b>Ceradyne Inc., a 3M company</b> 3169 Red Hill Ave. Costa Mesa 92626-3419	ceradyne.com	401 <sup>(1)</sup> NA	89,446 0%	3 <sup>(1)</sup>	3M Co. St. Paul, Minn.	Body armor, Apache helicopter armor	Boeing, army, marines	wnd (714) 549-0421
<b>18</b> (18)	<b>Airborne Systems</b> 3000 W. Segerstrom Ave. Santa Ana 92704-6526	airborne-sys.com	326 <sup>(1)</sup> NA	959 <sup>(1)</sup> NA	2	Airborne Systems Group Pennsauken, N.J.	NASA Orion CPAS, SpaceX Falcon 9 Dragon Recovery System, T-11 troop parachute system	NASA, Space X, Department of Defense	Robert Shiley VP/general manager, Space & Recovery Systems (714) 868-3700/(714) 668-0446
<b>19</b> (19)	<b>L-3 Intersate Electronics Corp.</b> 602 E. Vermont Ave. Anaheim 92805-5607	iechome.com iec.info@l-3com.com	310 1%	347 -8%	1	L-3 Communications Inc. New York	Navigation systems for security and defense applications, range system support	Air Force, Boeing, Raytheon	Gina Andrukaitis president (714) 758-0500
<b>20</b> (20)	<b>B/E Aerospace Inc.</b> 7155 Fenwick Lane Westminster 92683-5218	beaerospace.com	300 <sup>(1)</sup> NA	10,057 5%	4	B/E Aerospace Inc. Wellington, Fla.	Aircraft cabin interiors	Boeing, UAL Corp.	Sean Cromie VP/general manager, commercial aircraft segment (714) 896-9001
<b>21</b> (NR)	<b>Kapco Global</b> 3120 Enterprise St. Brea 92821-6236	kapco-global.com	198 NA	600 NA	1	Kapco Global Brea	Electrical interconnect; cabin, cockpit and interior products; sensing, switching and heating devices	Commercial, business, military, rotary-wing aircraft	Andrew Todhunter CEO/president (714) 223-5400
<b>22</b> (22)	<b>DRS Technologies Inc.</b> 10600 Valley View St. Cypress 90630-4833	drs.com	185 <sup>(1)</sup> NA	67,408 <sup>(1)</sup> NA	1	DRS Technologies Inc. Arlington, Va.	would not disclose	Army, government, Northrop Grumman	William Lynn III CEO (714) 220-3800
<b>23</b> (23)	<b>Astronics Test Systems</b> 4 Goodyear Irvine 92618-2002	astronics-testsystems.com atsinfo@astronics.com	176 5%	2,121 <sup>(1)</sup> NA	1	Astronics Corp. East Aurora, N.Y.	Test systems, test instruments, test software	Lockheed Martin, Intel, U.S. Government	James Mulato president (949) 859-8999/(949) 859-7139
<b>24</b> (20)	<b>GE Aviation</b> 2040 E. Dyer Road Santa Ana 92705-5710	geaviation.com aviation.fleetsupport@ge.com	171 -22%	330,000 8%	1	General Electric Co. Boston	Aerospace landing gear, structures, aerial refueling systems	Sikorsky, Northrop Grumman, Boeing	John Alves plant manager (949) 757-9755
<b>25</b> (24)	<b>Alliance Spacesystems LLC</b> 4398 Corporate Center Drive Los Alamitos 90720-2537	alliancespacesystems.com info@alliancespacesystems.com	120 <sup>(1)</sup> NA	120 <sup>(1)</sup> NA	1	Alliance Spacesystems LLC Los Alamitos	would not disclose	would not disclose	Rick Byrens president (714) 226-1400/(714) 821-0960
<b>26</b> (25)	<b>Ducommun AeroStructures</b> 1885 N. Batavia St. Orange 92865-4190	ducommun.com	108 <sup>(1)</sup> NA	2,900 -8%	1	Ducommun Inc. Carson	Black Hawk, F-15, F-18, 737, 787	Boeing, Raytheon, United Technologies	Ed Wheatley director of manufacturing (714) 637-4401
<b>27</b> (26)	<b>Irvine Electronics Inc.</b> 1601 Alton Parkway, Ste. A Irvine 92606-4801	irvine-electronics.com info@irvine-electronics.com	97 5%	97 5%	1	Irvine Electronics Inc. Irvine	Aerospace, medical, commercial	Boeing, Pratt & Whitney, Hamilton Sundstrand, Lockheed, Yardney	Jane Zerounian founder/owner/president (949) 250-0315/(949) 250-0318

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<sup>(1)</sup> Business Journal estimate

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# Aerospace & Defense Contractors Lose Altitude on Jobs

## Slight Decline 2<sup>nd</sup> in Row For Biggest With Operations Here

■ By CHRIS CASACCHIA

Orange County's largest aerospace and defense contractors posted a modest drop in local employment in the past year.

The 27 largest companies shed 67 jobs over the 12 months ended Sept. 30 for a total of 24,436 workers, about flat.

It was the second straight year with a slight downturn in employment, ending a five-year cycle of alternating job gains and losses. The companies on last year's list shed 90 positions, a loss of less than 1%.



The operations here, which include 55 local offices and sites, make various parts and systems for commercial and military aircraft, as well as weapons and testing equipment, among other products.

Four are based in OC, and the rest have subsidiaries and other significant operations here.

Companywide employment for the combined group was 954,408, up 2.3% from a year earlier.

Five companies added local employees, three companies cut workers, and 19 were Business Journal estimates or didn't provide enough information for a yearly comparison.

■ The list, which ranks companies by number of local employees, was led by perennial No. 1, **Boeing Co.**

The Business Journal estimates the Chicago-based company shed about 367 local positions,



**Boeing plant in Seal Beach: company adding engineering jobs, other positions for customer support center there**

primarily in Huntington Beach, ending the period with 6,103 workers. The company had planned to cut 567 employees at its Huntington Beach operation starting in mid-April 2015 and ending next month, according to filings with the California Economic Development Department.

Boeing, which has shed more than 3,500 local employees in the past six years or so, is adding workers at its Long Beach and Seal Beach support centers for commercial customers. It planned to add about 1,000 engineering jobs combined at the locations over time.

■ No. 2 Lake Forest-based **Panasonic Avionics Corp.**, accounted for nearly all of the job gains on the list, adding 346 employees to 2,290. The 17.8% increase also was the highest percentage gain on the list.

The unit of **Panasonic Corp. of North**

**America** has been on a hiring push the last few years as more airlines select its in-flight entertainment systems. Recent deals include supplying broadband connectivity for 84 aircraft operated by **China Eastern Airlines**; a one-year trial extension with **China Telecom Satellite** to provide in-flight connectivity to more than 20 foreign airlines that operate some 1,000 aircraft over Chinese airspace; and outfitting a fleet of 30 Airbus A320 aircraft operated by **Saudi Arabian Airlines** with its latest generation HD in-flight entertainment product.

The company, which accounts for more than \$1 billion in annual sales as part of Japan-based **Panasonic Corp.**, has added more than 600 local jobs in the last two years.

■ Huntington Beach-based **EnCore Aerospace LLC** moved up two spots to No. 12 with

600 local employees, about 500 spread evenly between Huntington Beach and Brea, and another 100 in Seal Beach.

Its newest business unit, LIFT, which tests and manufactures airline seats—one of the most difficult certifications in the airline business—is the company's big growth driver in the coming years, given strong demand for new commercial aircraft production in the U.S. and internationally and the tough barrier to entry for new players.

“In the interior world, it's the hardest one to get into,” Chief Executive **Tom McFarland** told the Business Journal during a recent tour of its headquarters, which was outfitted with one of the few dynamic crash test chambers in the world.

EnCore's other divisions produce galleys and handle various subassembly work. An international unit was established in Tijuana last year to handle production and delivery of sidewall panels and cargo liner compartments for the Boeing 787-10.

The company is projected to hit \$100 million in revenue this year with a strong backlog poised to double sales by 2019 without any new business, according to McFarland.

■ Brea-based **Kapco Global** was the only newcomer on the list, debuting at No. 21 with 198 local employees.

The Business Journal in June reported that its acquisition of **Avio-Diepen** in the Netherlands created the largest independent distributor of aircraft parts in the world, with operations in eight countries and hubs in key markets in the Americas, Europe and Asia.

The combined company, which has about 600 employees and annual revenue of \$575 million, is better positioned to compete against the distribution units of aerospace giants Boeing and **Airbus Group SE**. ■