



# Actuation

A comprehensive cross-reference of

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# AIRFRAMER *index*

## Actuation

### Contents

---

**Sponsor:** *page 2*

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---

**Companies:** *page 4*

*Alphabetical directory of suppliers by company name.*

---

**Categories:** *page 12*

*Directory of suppliers by category.*

---

**Countries:** *page 13*

*Index of suppliers by country.*

---

**Aircraft:** *page 14*

*Index of suppliers by aircraft program.*

---

**Contact us:** *page 17*

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Note that the information contained in this index has been compiled from a variety of sources, and has not necessarily been confirmed by the aircraft manufacturer in every case. Please refer to our terms and conditions of use on the last page of this report.

## Company index:

*This list is sorted alphabetically by company name, and provides contact telephone and web address details. It also lists the products or services of the company under our Actuation category and, where available, the new aircraft programs to which these are provided. Please note that the program data is gathered from a variety of sources and not necessarily confirmed by the airframer.*

### AEE Aircraft Electronic Engineering GmbH (Germany)

Argelsrieder Feld 1A, D-82234 Wessling.  
T: +49 8153 400670 [www.aee.aero](http://www.aee.aero)  
[office@aee-gmbh.de](mailto:office@aee-gmbh.de)

*Electromechanical Actuators, Rotary Actuators, Servoactuators*

### Aernnova Aerospace Mexico (Mexico)

Parque Industrial Queretaro, C/ Benito Juarez, Num. 109, 76220 Queretaro.  
T: +52 442 227 2850 [www.aernnova.com](http://www.aernnova.com)  
F: +52 442 240 9354 [xabier.mendoza@aernnova.com](mailto:xabier.mendoza@aernnova.com)

*Hydraulic Actuators*

*Sikorsky S-92 Superhawk*

*See also: Brek Manufacturing Company*

### Aero Fluid Products (was Dukes Aerospace) (U.S.A.)

313 Gillett Street, Painesville, OH 44077.  
T: +1 440 352 6182 [www.aerofluidproducts.com](http://www.aerofluidproducts.com)  
F: +1 440 354 2912 [service@aerofluidproducts.com](mailto:service@aerofluidproducts.com)

*Pneumatic Actuators*

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4223 Monticello Blvd, South Euclid, OH 44121.  
T: +1 216 291 6025 [www.aerocontrolex.com](http://www.aerocontrolex.com)  
F: +1 216 291 6045 [allcamonticello@aerocontrolex.com](mailto:allcamonticello@aerocontrolex.com)

*Electrical Actuators, Electromechanical Actuators, Mechanical Actuators*

*See also: CEF Industries Inc.*

### Aerostar SA (Romania)

Str. Condorilor nr 9, R-600302 Bacau.  
T: +40 23 458 50 90 [www.aerostar.ro](http://www.aerostar.ro)  
F: +40 23 457 20 23 [aerostar@aerostar.ro](mailto:aerostar@aerostar.ro)

*Hydraulic Actuators*

*Airbus A320, Airbus A330*

### Air Industries Group (U.S.A.)

1460 Fifth Avenue, Bay Shore, NY 11706.  
T: +1 631 968 5000 [www.airindustriestgroup.com](http://www.airindustriestgroup.com)  
F: +1 631 968 5377

*Hydraulic Actuators, Mechanical Actuators*

*See also: Air Industries Machining Corp, PennAero: American Drilling Company and Sterling Engineering Corp.*

### Allen Aircraft Products Inc. (U.S.A.)

P.O. Box 1211, 6168 Woodbine Ave., Ravenna, OH 44266-1211.  
T: +1 330 296 9621 [www.allenaircraft.com](http://www.allenaircraft.com)  
F: +1 330 296 5532 [sales@allenaircraft.com](mailto:sales@allenaircraft.com)

*Linear Actuators*

### AMETEK Airtechnology Group (U.K.)

111 Windmill Road, Sunbury-on-Thames, Middlesex TW16 7EF.  
T: +44 1932 765 822 [www.ametek-airtechnology.com](http://www.ametek-airtechnology.com)  
F: +44 1932 761 098 [rfq.aag@ametek.com](mailto:rfq.aag@ametek.com)

*Electromechanical Actuators*

*Aalto Zephyr, Airbus A320, Leonardo AW169*

*See also: Traxsys Input Products*

### AMETEK PDS (U.S.A.)

343 Godshall Drive, Harleysville, PA 19438.  
T: +1 316 522 0424 [www.ametekpds.com](http://www.ametekpds.com)  
[ametek-pds-sales@ametek.com](mailto:ametek-pds-sales@ametek.com)

*Electrical Actuators, Electromechanical Actuators, Linear Actuators, Rotary Actuators*

*Dornier Seawings Seastar, Pilatus PC-24*

### ANDAR Electromechanical Systems (Turkey)

ODTU Teknokent kizler Binası 35/2, Çankaya, Ankara.  
T: +90 312 385 0450 [www.andar.com.tr](http://www.andar.com.tr)  
F: +90 312 385 0451 [bilgi@andar.com.tr](mailto:bilgi@andar.com.tr)

*Electromechanical Actuators, Linear Actuators, Servoactuators*  
*Ascendance Flight Technologies ATEA*

### Arkwin Industries Inc. (U.S.A.)

686 Main Street, Westbury, NY 11590.  
T: +1 516 333 2640 [www.arkwin.com](http://www.arkwin.com)  
F: +1 516 334 6786 [sales@arkwin.com](mailto:sales@arkwin.com)

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*Airbus A320, Airbus A330, Bell Boeing V-22 Osprey, Boeing 737, Boeing 767, Boeing 777, Boeing 787 Dreamliner, Boeing F/A-18 Super Hornet, Kai T-50 Golden Eagle, Lockheed Martin F-16 Fighting Falcon, Lockheed Martin F-35 Lightning II*

### Asco Industries (Belgium)

Weiveldlaan 2, B-1930 Zaventem.  
T: +32 2 716 06 11 [www.asco.be](http://www.asco.be)  
[asco@ascoindustries.com](mailto:asco@ascoindustries.com)

*Electrical Actuators, Hydraulic Actuators, Linear Actuators, Rotary Actuators*

*See also: ASCO Aerospace Canada, Belairbus and CIMtech Green Energy Mfg. Inc.*

### Astronautics Corp of America (U.S.A.)

135 W Forest Hill Avenue, Oak Creek, WI 53154-2901.  
T: +1 414 449 4000 [www.astronautics.com](http://www.astronautics.com)  
[busdev@astronautics.com](mailto:busdev@astronautics.com)

*Servoactuators*

*See also: Kearfott Corporation*

### Beaver Aerospace & Defense, Inc. (U.S.A.)

11850 Mayfield, Livonia, MI 48150.  
T: +1 734 853 5003 [www.beaver-online.com](http://www.beaver-online.com)  
F: +1 734 853 5043 [info@beaver-online.com](mailto:info@beaver-online.com)  
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*Boeing 737, Boeing 767, Cessna Citation CJ3, De Havilland Dash 8 Series, Embraer EMB-314 Super Tucano*

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4100 Madison St, Hillside, IL 60162.  
T: +1 708 344 4600 [www.beldenuniversal.com](http://www.beldenuniversal.com)  
F: +1 708 344 0245 [info@beldenuniversal.com](mailto:info@beldenuniversal.com)

*Mechanical Actuators*

*See also: PTMotion GmbH*

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F: +1 973 276 9566 [sales@bergencable.com](mailto:sales@bergencable.com)

*Mechanical Actuators*

*Airbus A320, Airbus A330, Boeing F/A-18 Super Hornet, Embraer ERJ-145 series, Lockheed Martin C-130J Hercules*

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10330 Hercules Dr, Freeland, MI 48623.  
T: +1 989 625 5050 [www.bgtaero.com](http://www.bgtaero.com)  
[gobrien@bgtaero.com](mailto:gobrien@bgtaero.com)

*Mechanical Actuators*

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Bulevardul Chimiei 6, R-700291 Iasi.  
T: +40 23 223 78 10 [www.bmtaerospace.com](http://www.bmtaerospace.com)  
F: +40 23 223 75 60 [office@bmt-aerospace.ro](mailto:office@bmt-aerospace.ro)  
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### CEF Industries Inc. (U.S.A.)

320 S. Church St., Addison, IL 60101.  
T: +1 800 888 6419 [www.cefind.com](http://www.cefind.com)  
F: +1 630 628 1386 [sales@cefind.com](mailto:sales@cefind.com)

*Linear Actuators*

*Bell Boeing V-22 Osprey*

### CESA / Heroux Devtek Spain (Spain)

Paseo John Lennon, 4, Getafe, Madrid, E-28906.  
T: +34 91 624 01 05 [www.cesa.aero](http://www.cesa.aero)  
F: +34 91 624 01 14 [contactcesa@herouxdevtek.com](mailto:contactcesa@herouxdevtek.com)

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*Airbus (Airtech) CN235, Airbus A330, Airbus A400M, Airbus C295, Eurofighter Typhoon, Indonesian Aerospace NC212i, Sikorsky S-92 Superhawk*

### CIRCOR Aerospace - Industria (France)

28 Avenue Clara, BP 104, F-94420 Le Plessis Trevis.  
T: +33 1 45 76 53 78 [www.circor.com](http://www.circor.com)  
[industria@circor.com](mailto:industria@circor.com)

*Electrical Actuators*

*See also: Acutec Precision Aerospace, Inc.*

### CIRCOR Aerospace Products Group (U.S.A.)

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T: +1 951 270 6200 [www.circoraerospace.com](http://www.circoraerospace.com)  
F: +1 951 270 6201 [sales\\_CAI\\_CA@circoraerospace.com](mailto:sales_CAI_CA@circoraerospace.com)

*Electromechanical Actuators, Hydraulic Actuators, Mechanical Actuators*

*Airbus A330, Airbus A350*

*See also: CIRCOR - Aerodyne Controls, CIRCOR Aerospace - Industria and CIRCOR Bodet*

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17000 South Red Hill Avenue, Irvine, CA 92614.  
T: +1 949 250 1015 [www.collinsaerospace.com](http://www.collinsaerospace.com)  
F: +1 949 221 5911

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*Airbus A350, Cessna Citation Longitude, Dassault 7X, Embraer E-Jet 170/190 series, Gulfstream G650*

### Collins Aerospace, Mechanical Systems - Actuation (U.K.)

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F: +44 1934 830 228

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*Airbus Helicopters H175, Boeing 787 Dreamliner, Sikorsky S-70A Black Hawk, Sikorsky S-92 Superhawk*

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Four Coliseum Centre, 2730 West Tyvola Road, Charlotte, NC 28217-4578.  
T: +1 704 423 7000 [www.collinsaerospace.com](http://www.collinsaerospace.com)  
F: +1 704 423 7002

*Electrical Actuators*

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F: +1 860 353 5805

*Mechanical Actuators*

*Bombardier Global series, COMAC C919*

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F: +33 5 65 50 00 80 commercial@ratier-figeac.fr  
*Hydraulic Actuators, Mechanical Actuators*  
*Airbus A400M, ATR 42/72, Boeing 777*

### Continuum Dynamics, Inc. (U.S.A.)

34 Lexington Avenue, Ewing Township, NJ 08618.  
T: +1 609 538 0444 www.continuum-dynamics.com  
info@continuum-dynamics.com

*Rotary Actuators*

*See also: Glenn L. Martin Wind Tunnel (GLMWT)*

### Cosworth (U.K.)

The Octagon, St James Mill Road, Northampton NN5 5RA.  
T: +44 1604 598 300 www.cosworth.com  
clenquiry@cosworth.com

*Mechanical Actuators*

*BAE Systems Hawk 100*

### Crane Aerospace & Electronics (U.S.A.)

16700 13th Ave. W, Lynnwood, WA 98037.  
T: +1 425 743 1313 www.craneae.com  
F: +1 425 743 8234 info@craneae.com

*Mechanical Actuators*

*See also: Crane Aerospace & Electronics - Lear Romec, Crane Aerospace & Electronics (Hydro-Aire), Crane Aerospace & Electronics France (was Eldec France), Crane Aerospace Cabin Systems (P.L.Porter), Druck UK (part of Crane Co.), Druck US (part of Crane Co.), MTI (1998) Ltd., Vian Enterprises and Visionx Inc.*

### Crane Aerospace Cabin Systems (P.L.Porter) (U.S.A.)

3000 Winona Avenue, PO Box 7722, Burbank, CA 91504-2540.  
T: +1 818 526 2600 www.craneae.com  
F: +1 818 842 6117 info@craneae.com

*Linear Actuators*

*Airbus A320, Airbus A330, Boeing 737*

### Curtiss-Wright Controls - EM Technologies (Novatronics) (Canada)

789 Erie Street, Stratford, ON N4Z 1A1.  
T: +1 519 271 3880 www.cw-sensorsandcontrols.com  
F: +1 519 271 9781 cwsg@curtisswright.com

*Linear Actuators, Rotary Actuators*

*Airbus A350*

### Curtiss-Wright Flight Systems (U.S.A.)

201 Old Boiling Springs Road, Shelby, NC 28152.  
T: +1 704 481 1150 www.cw-sensorsandcontrols.com  
F: +1 704 481 2223 cwag.aero@curtisswright.com

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*Bell Boeing V-22 Osprey, Boeing 767, Boeing 777, Boeing F/A-18 Super Hornet, Eviation Alice, Lockheed Martin F-16 Fighting Falcon, Pilatus PC-24*

### Curtiss-Wright Sensors & Controls HQ (U.S.A.)

1150 North Fiesta Boulevard, Gilbert, AZ 85233.  
T: +1 704 869 4600 www.cw-sensorsandcontrols.com  
F: +1 704 869 4601 ussales@curtisswright.com

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*Boeing 787 Dreamliner*

*See also: Curtiss-Wright Controls - EM Technologies (Novatronics) and Curtiss-Wright Flight Systems*

### Deva Technologies Ltd. (U.K.)

Unit 7, Stephen Gray Road, Bromfield Industrial Estate, Mold, Flintshire CH7 1HE.

T: +44 1978 366 111 www.devatec.co.uk  
enquiries@devatec.co.uk

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### Ducommun LaBarge Technologies (U.S.A.)

23301 Wilmington Avenue, Carson, CA 90745.  
T: +1 310 513 7200 www.ducommun.com  
F: +1 310 513 7298 sales@ducommun.com

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### Eaton (U.S.A.)

9650 Jeronimo Rd., Irvine, CA 92618.  
T: +1 949 452 9500 www.eaton.com/aerospace  
F: +1 949 452 9555

*Electromechanical Actuators*

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### Eaton Aerospace, Actuation Systems Division (U.S.A.)

3675 Patterson Avenue SE, Grand Rapids, MI 49512-4022.  
T: +1 616 949 1090 www.eaton.com  
F: +1 616 831 0807

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Abbey Park, Titchfield, Fareham, Hampshire PO14 4QA.  
T: +44 1329 853 000 www.eaton.com/aerospace  
F: +44 1329 853 797

*Linear Actuators, Rotary Actuators*

*See also: Eaton (was Royal Power Solutions), ENL Group and Sai Links (India) Pvt. Ltd.*

### ECE (France)

4 avenue Francois Sommer, CS 90029, F-92167 Antony cedex.  
T: +33 1 46 74 13 20 www.zodiac.com  
F: +33 1 46 74 13 33 Information.ECE@zodiac.aerospace.com

*Electromechanical Actuators*

### Electromech Technologies (U.S.A.)

2600 S. Custer, Wichita, KS 67217.  
T: +1 316 941 0400 www.electromech.com  
F: +1 316 941 0415 sales@electromech.com

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*Airbus A400M, Airbus C295, Beechcraft Baron G58, Bell 407, Boeing 737, Boeing 767, Boeing 777, Bombardier Challenger 300 series, Daher Kodiak, Lockheed Martin C-130J Hercules, Piaggio P.180 Avanti, Pilatus PC-12, Pilatus PC-21, SyberJet SJ30*

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Manchinger Strasse 116, D-85053 Ingolstadt.  
T: +49 841 9651 0 www.eme-in.de  
F: +49 841 68722 eme.zentrale@eme-in.de

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*Airbus A320, Airbus A330, Airbus A350, Airbus A400M, Airbus Helicopters Tiger, Eurofighter Typhoon, NHIndustries NH90, Pilatus PC-12*

### EM Korea Co. Ltd. (Energy & Machinery Korea) (South Korea)

767 Ungnam-ro, Seongsan-gu, 51538 Changwon City, Gyeongnam.  
T: +82 55 211 9600 www.yesemk.com

F: +82 55 211 9640

*Hydraulic Actuators*

*KAI T-50 Golden Eagle*

### Ensign-Bickford Aerospace & Defense Company (EBA&D) (U.S.A.)

640 Hopmeadow Street, P.O. Box 429, Simsbury, CT 06070-0429.

T: +1 860 843 2289 www.eba-d.com  
F: +1 860 843 1498 admktg@eba-d.com

*Explosive Actuators*

*See also: Viewpoint Systems*

### EXAIL Aerospace (France)

ZAC de Saint Martin du Touch, 6 impasse Alice Guy, F-31300 Toulouse Cedex 3.

T: +33 5 62 11 17 17 www.exail.com  
F: +33 5 62 11 17 49 contact-aerospace@exail.com

*Servoactuators*

### FIMAC (Italy)

Via Piemonte 19, I-20030 Senago (Milan).

T: +39 02 9901 0754 www.fimac.aero  
F: +39 02 9901 0759 fimac@fimac.aero

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*Gulfstream G280*

### Flexial Corporation (U.S.A.)

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T: +1 931 432 1853 www.flexial.com  
F: +1 931 432 1889 gcummings@flexial.com

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### Garkenyon Aerospace & Defense (U.S.A.)

106 Evansville Avenue, Meriden, CT 06451.

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F: +1 203 729 4950 sales@garkenyon.com

*Hydraulic Actuators*

*Boeing F/A-18 Super Hornet*

### GE Aerospace Systems, Loves Park (U.S.A.)

1354 Clifford Avenue, PO Box 2909, Loves Park, IL 61132-2909.

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John.Kunde@geaerospace.com

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### Hanwha Group (South Korea)

Hanwha Building, 6th Floor, 109 Sogong-ro, Jung-gu, 04525 Seoul.

T: +82 2 729 3347 www.hanwha.co.kr  
beloved031@hanwha.co.kr

*Electromechanical Actuators, Hydraulic Actuators, Linear Actuators*

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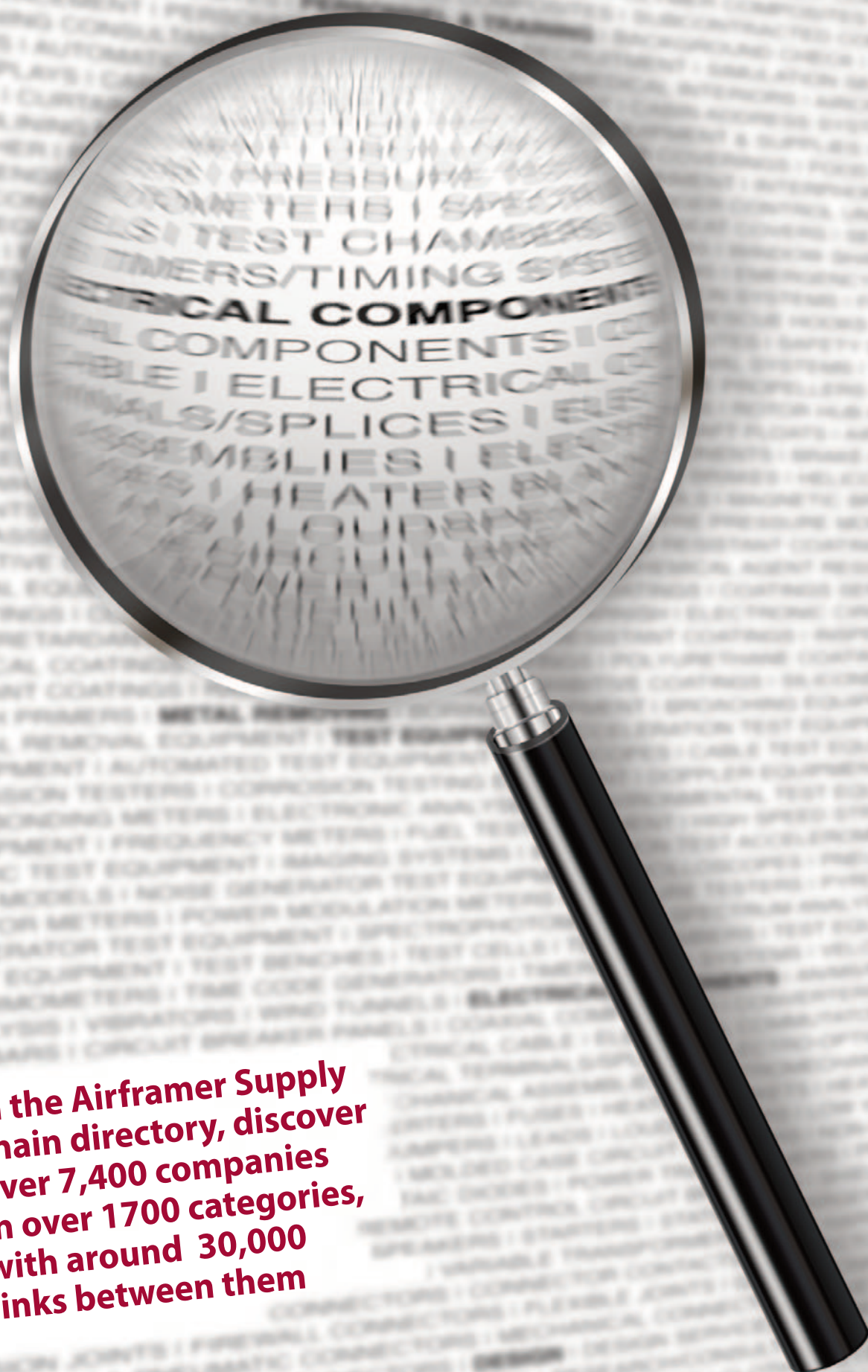
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*Linear Actuators*

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 Cheshire WA7 1TG.  
 T: +44 1928 530 530 www.apph.com  
 sales@apph.com  
*Hydraulic Actuators*

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 Aeraspacesalesinterest@honeywell.com  
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*Hydraulic Actuators*

**Whippany Actuation Systems** (U.S.A.)

110 Algonquin Parkway, Whippany, NJ 07981-1640.

T: +1 973 428 9898 [www.whipactsys.com](http://www.whipactsys.com)

F: +1 973 428 8532 [sales@whipactsys.com](mailto:sales@whipactsys.com)

*Electrical Actuators, Electromechanical Actuators, Linear Actuators, Mechanical Actuators, Rotary Actuators*

*Airbus A330, Airbus A350, Boeing 737, Boeing 767, Boeing 777, Boeing CH-47 Chinook, Boeing F-15E Strike Eagle, Embraer E-Jet 170/190 series, Northrop Grumman E-2D Advanced Hawkeye, Sikorsky CH-53K King Stallion, Sikorsky S-70B SeaHawk, Sikorsky S-92 Superhawk, Viking Twin Otter Series 400*

**Wipro Infrastructure Engineering** (India)

Plot 21, Bengaluru Aerospace SEZ Park, KIADB Industrial Area, Devanahalli, 562 110 Karnataka.

T: +91 990 255 1775 [www.wiproinfra.com](http://www.wiproinfra.com)

*Mechanical Actuators*

*See also: Wipro 3D and Wipro Givon Ltd (was H.R. Givon)*

**Woodward HRT** (U.S.A.)

25200 W. Rye Cannon Road, Santa Clarita, CA 91355.

T: +1 661 294 6000 [www.woodward.com](http://www.woodward.com)

F: +1 661 294 6000 [inquire@woodward.com](mailto:inquire@woodward.com)

*Hydraulic Actuators, Linear Actuators, Rotary Actuators, Servoactuators*

*Airbus A320, Airbus A330, Airbus A350, Bell 429, Boeing 737, Boeing 777, Boeing X-66A, Lockheed Martin F-35 Lightning II*

*See also: Precision Aero, Inc. (PA)*

**Woodward, Niles Plant** (U.S.A.)

6300 West Howard Street, Niles, IL 60714.

T: +1 847 673 8300 [www.woodward.com](http://www.woodward.com)

*Electromechanical Actuators*

*See also: Flexbotics*

# Category index:

*This list is sorted by sub-category within the Actuation sector, and then by company name.*

## Actuation

### Digital Actuators

Honeywell Aerospace, Sensing & Control  
Proponent  
Safran Electronics & Defense  
(Components)

### Electrical Actuators

AeroContrex  
AMETEK PDS  
Asco Industries  
CIRCOR Aerospace - Industria  
Collins Aerospace, Mechanical Systems  
Division  
Elektro-Metall Export  
Honeywell Aerospace, Sensing & Control  
maxon  
MTI  
Ontic

Safran Electrical & Power Villemur  
Safran Transmission Systems  
Whippany Actuation Systems

### Electrohydrostatic Actuators

Parker Aerospace Control Systems  
Safran Electronics & Defense (was  
Collins Aerospace, Mechanical Systems)  
Safran Landing Systems

### Electromechanical Actuators

AEE Aircraft Electronic Engineering  
GmbH  
AeroContrex  
AMETEK Airtechnology Group  
AMETEK PDS  
ANDAR Electromechanical Systems  
Beaver Aerospace & Defense, Inc.  
CESA / Heroux Devtek Spain  
CIRCOR Aerospace Products Group  
Collins Aerospace, Mechanical Systems  
Collins Aerospace, Mechanical Systems  
- Actuation  
Curtiss-Wright Flight Systems  
Curtiss-Wright Sensors & Controls HQ  
Deva Technologies Ltd.  
Eaton  
Eaton Aerospace, Actuation Systems  
Division  
ECE  
Electromech Technologies  
Elektro-Metall Export  
Flexial Corporation  
GE Aerospace Systems, Loves Park  
Hanwha Group  
Honeywell Aerospace, Sensing & Control  
Honeywell Unmanned Aerial Systems  
and Urban Air Mobility (UAM)  
IDAK AeroSystems  
ITT Aerospace Controls  
Kaney Aerospace  
Kistler Instruments Limited  
Kollmorgen Aerospace & Defense  
Liebherr-Aerospace Lindenberg GmbH  
Logic S.p.A  
LORD Electromechanical Solutions  
Marotta Controls, Inc.  
maxon  
Mecaer America Inc.  
Moog Inc.  
MTC Industries & Research  
MTI  
Ontic

Parker Aerospace Control Systems  
Parker Meggitt Avriillé (Artus)  
SABCA  
Safran Aerosystems Hydraulics  
Safran Electronics & Defense (was  
Collins Aerospace, Actuation Systems)  
Safran Electronics & Defense (was  
Collins Aerospace, Mechanical Systems)  
Salient Motion  
Secondo Mona SpA  
Skylife Engineering SL  
TAAC Aerospace Technologies Inc.  
(TAAC)  
Toyota Motor North America  
Triumph Systems Electronics & Controls  
- Windsor  
Whippany Actuation Systems  
Woodward, Niles Plant

### Explosive Actuators

Ensign-Bickford Aerospace & Defense  
Company (EBA&D)

### High Pressure Actuators

Honeywell Aerospace, Sensing & Control  
MTC Industries & Research  
Ontic  
Parker Meggitt USA Inc.  
Safran Aerosystems Hydraulics

### Hydraulic Actuators

Aernnova Aerospace Mexico  
Aerostar SA  
Air Industries Group  
Arkwin Industries Inc.  
Asco Industries  
CESA / Heroux Devtek Spain  
CIRCOR Aerospace Products Group  
Collins Aerospace, Propeller Systems  
(Ratier Figeac)  
Eaton Aerospace, Actuation Systems  
Division  
EM Korea Co. Ltd. (Energy & Machinery  
Korea)  
FIMAC  
GarKenyon Aerospace & Defense  
Hanwha Group  
Hérroux Devtek (APPH) Runcorn  
Hérroux-Devtek Inc.  
Hindustan Aeronautics Ltd. (Accessories  
Division)  
Honeywell Aerospace, Sensing & Control  
Hydromash Joint Stock Co.  
IDAK AeroSystems  
ITT Enidine  
Jihlavan, A.S.  
Liebherr-Aerospace Lindenberg GmbH  
Mecaer America Inc.  
MECAER Aviation Group  
Moog Inc.  
Nexteam Group SAS  
Ontic  
Ontic Actuation & Control (was Triumph  
Integrated Systems - Actuation &  
Control)  
Parker Aerospace Fluid Systems  
Parker Aerospace Hydraulic Systems  
Rosebank Engineering Pty Ltd  
Safran Aerosystems Hydraulics  
Safran Electronics & Defense (was  
Collins Aerospace, Mechanical Systems)  
Secondo Mona SpA  
SKF Group  
Spectrum Associates, Inc.  
Tactair Fluid Controls Inc.  
Triumph Actuation Products & Services -  
Clemmons  
Triumph Actuation Products & Services -  
Seattle  
Triumph Actuation Products & Services -  
Valencia

Triumph Actuation Products & Services -  
Yakima  
Triumph Systems Electronics & Controls  
- Windsor  
Walker AEC Limited  
Westfield Hydraulics Inc.  
Woodward HRT

### Linear Actuators

Allen Aircraft Products Inc.  
AMETEK PDS  
ANDAR Electromechanical Systems  
Asco Industries  
Beaver Aerospace & Defense, Inc.  
CEF Industries Inc.  
Collins Aerospace, Mechanical Systems  
Collins Aerospace, Mechanical Systems  
- Actuation  
Crane Aerospace Cabin Systems (P.L.  
Porter)  
Curtiss-Wright Controls - EM  
Technologies (Novatronics)  
Curtiss-Wright Sensors & Controls HQ  
Ducommun LaBarge Technologies  
Eaton Aerospace, Actuation Systems  
Division  
Eaton Ltd, Fuel & Motion Control  
Systems Division  
Electromech Technologies  
Elektro-Metall Export  
GE Aerospace Systems, Loves Park  
Hanwha Group  
Helix Linear Technologies  
HepcoMotion  
Hérroux-Devtek Inc.  
Honeywell Aerospace, Sensing & Control  
ITT Aerospace Controls  
Kollmorgen Aerospace & Defense  
Marotta Controls, Inc.  
maxon  
MTI  
Ontic  
Parker Meggitt Avriillé (Artus)  
Parker Meggitt USA Inc.  
S.S. White Technologies Inc.  
SAM GmbH (was Sitec Aerospace)  
SCHUNK  
TAAC Aerospace Technologies Inc.  
(TAAC)  
Tactair Fluid Controls Inc.  
THK America  
Triumph Actuation Products & Services -  
Clemmons  
Triumph Actuation Products & Services -  
Seattle  
Whippany Actuation Systems  
Woodward HRT

### Mechanical Actuators

AeroContrex  
Air Industries Group  
Arkwin Industries Inc.  
Beaver Aerospace & Defense, Inc.  
Belden Universal  
Bergen Cable Technology, Inc  
BGT Aerospace  
BMT Aerospace Romania  
CESA / Heroux Devtek Spain  
CIRCOR Aerospace Products Group  
Collins Aerospace, Mechanical Systems  
Collins Aerospace, Power & Controls  
Division  
Collins Aerospace, Propeller Systems  
(Ratier Figeac)  
Cosworth  
Crane Aerospace & Electronics  
Curtiss-Wright Sensors & Controls HQ  
Elektro-Metall Export  
GE Aerospace Systems, Loves Park

Hérroux-Devtek Inc.  
Honeywell Aerospace, Sensing & Control  
IDAK AeroSystems  
J&F Machine Inc.  
Kollmorgen Aerospace & Defense  
Liebherr-Aerospace Lindenberg GmbH  
Marotta Controls, Inc.  
Moog Controls (UK)  
Moog Flight Controls  
Moog Inc.  
MTI  
Nabtesco Aerospace  
Networks Electronic Company (NECO)  
Ontic  
Parker Meggitt USA Inc.  
Safran Electronics & Defense (was  
Collins Aerospace, Actuation Systems)  
SKF Group  
Sumitomo Precision Products Co. Ltd.  
TAAC Aerospace Technologies Inc.  
(TAAC)  
Triumph Geared Solutions - Macomb  
Triumph Geared Solutions - Park City  
Triumph Systems Electronics & Controls  
- Heiligenhaus  
Triumph Systems Electronics & Controls  
- Shelbyville  
Triumph Systems Electronics & Controls  
- Windsor  
Whippany Actuation Systems  
Wipro Infrastructure Engineering

### Pneumatic Actuators

Aero Fluid Products (was Dukes  
Aerospace)  
Eaton Aerospace, Actuation Systems  
Division  
Honeywell Aerospace, Sensing & Control  
Honeywell Hymatic  
Liebherr-Aerospace Lindenberg GmbH  
Parker Meggitt USA Inc.  
SCHUNK  
Ultra Precision Control Systems

### Rotary Actuators

AEE Aircraft Electronic Engineering  
GmbH  
AMETEK PDS  
Asco Industries  
Beaver Aerospace & Defense, Inc.  
Continuum Dynamics, Inc.  
Curtiss-Wright Controls - EM  
Technologies (Novatronics)  
Curtiss-Wright Flight Systems  
Curtiss-Wright Sensors & Controls HQ  
Ducommun LaBarge Technologies  
Eaton Aerospace, Actuation Systems  
Division  
Eaton Ltd, Fuel & Motion Control  
Systems Division  
Electromech Technologies  
Elektro-Metall Export  
Hérroux-Devtek Inc.  
Honeywell Aerospace, Sensing & Control  
ITT Aerospace Controls  
Marotta Controls, Inc.  
Moog Flight Controls  
Moog Inc.  
MTC Industries & Research  
MTI  
NEMA Ltd.  
Ontic  
Parker Meggitt Avriillé (Artus)  
Quantic BEI (BEI Precision Systems &  
Space)  
Safran Electronics & Defense (was  
Collins Aerospace, Actuation Systems)  
Safran Electronics & Defense (was  
Collins Aerospace, Mechanical Systems)

SAM GmbH (was Sitec Aerospace)  
SCHUNK  
TAAC Aerospace Technologies Inc.  
(TAAC)  
Tactair Fluid Controls Inc.  
Whippany Actuation Systems  
Woodward HRT

### Servoactuators

AEE Aircraft Electronic Engineering  
GmbH  
ANDAR Electromechanical Systems  
Astronautics Corp of America  
Collins Aerospace, Mechanical Systems  
- Actuation  
EXAIL Aerospace  
GE Aerospace Systems, Loves Park  
Harmonic Drive UK Ltd  
Honeywell Aerospace, Sensing & Control  
Liebherr-Aerospace Lindenberg GmbH  
maxon  
MECAER Aviation Group  
Moog Controls (UK)  
Moog Inc.  
MTC Industries & Research  
Parker Aerospace Fluid Systems  
Quantic BEI (BEI Precision Systems &  
Space)  
SABCA  
Safran Aerosystems Hydraulics  
TAAC Aerospace Technologies Inc.  
(TAAC)  
Tactair Fluid Controls Inc.  
TEMA-AVIO S.r.l.  
Triumph Systems Electronics & Controls  
- Windsor  
UAVOS Inc  
Volz Servos GmbH  
Woodward HRT

### Thermal Actuators

Honeywell Aerospace, Sensing & Control  
Sensata Technologies, Inc.

# Country index:

*This page lists all the companies mentioned in this report alphabetically by country, and then by company name.*

## Australia

Rosebank Engineering Pty Ltd

## Belgium

Asco Industries  
SABCA

## Canada

Curtiss-Wright Controls - EM Technologies (Novatronics)  
Héroux-Devtek Inc.  
Mecaer America Inc.

## Czech Republic

Jihlavan, A.S.

## France

CIRCOR Aerospace - Industria  
Collins Aerospace, Propeller Systems (Ratier Figeac)  
ECE  
EXAIL Aerospace  
LORD Electromechanical Solutions  
Nexteam Group SAS  
Parker Meggitt Avillé (Artus)  
Safran Aerosystems Hydraulics  
Safran Electrical & Power Villemur  
Safran Electronics & Defense (Components)  
Safran Landing Systems  
Safran Transmission Systems

## Germany

AEE Aircraft Electronic Engineering GmbH  
Elektro-Metall Export  
Liebherr-Aerospace Lindenberg GmbH  
SAM GmbH (was Sitec Aerospace)  
Triumph Systems Electronics & Controls - Heiligenhaus  
Volz Servos GmbH

## India

Hindustan Aeronautics Ltd. (Accessories Division)  
Wipro Infrastructure Engineering

## Israel

MTC Industries & Research

## Italy

FIMAC  
Logic S.p.A  
MECAER Aviation Group  
Safran Electronics & Defense (was Collins Aerospace, Actuation Systems)  
Secondo Mona SpA  
TEMA-AVIO S.r.l.

## Japan

Sumitomo Precision Products Co. Ltd.

## Mexico

Aernnova Aerospace Mexico

## Netherlands

Proponent

## Romania

Aerostar SA  
BMT Aerospace Romania

## Russia

Hydromash Joint Stock Co.

## South Korea

EM Korea Co. Ltd. (Energy & Machinery Korea)  
Hanwha Group

## Spain

CESA / Heroux Devtek Spain  
Skylife Engineering SL

## Sweden

SKF Group

## Turkey

ANDAR Electromechanical Systems  
IDAK AeroSystems  
TAAC Aerospace Technologies Inc. (TAAC)

## U.K.

AMETEK Airtechnology Group  
Collins Aerospace, Mechanical Systems - Actuation  
Cosworth  
Deva Technologies Ltd.  
Eaton Ltd, Fuel & Motion Control Systems Division  
Harmonic Drive UK Ltd  
HepcoMotion  
Héroux Devtek (APPH) Runcorn  
Honeywell Aerospace, Sensing & Control  
Honeywell Hymatic  
Kistler Instruments Limited  
Moog Controls (UK)  
Moog Flight Controls  
NEMA Ltd.  
Ontic Actuation & Control (was Triumph Integrated Systems - Actuation & Control)  
Safran Electronics & Defense (was Collins Aerospace, Mechanical Systems)  
Ultra Precision Control Systems  
Walker AEC Limited

## U.S.A.

Aero Fluid Products (was Dukes Aerospace)  
AeroControlex  
Air Industries Group  
Allen Aircraft Products Inc.  
AMETEK PDS  
Arkwin Industries Inc.  
Astronautics Corp of America  
Beaver Aerospace & Defense, Inc.  
Belden Universal  
Bergen Cable Technology, Inc  
BGT Aerospace  
CEF Industries Inc.  
CIRCOR Aerospace Products Group  
Collins Aerospace, Mechanical Systems  
Collins Aerospace, Mechanical Systems Division  
Collins Aerospace, Power & Controls Division  
Continuum Dynamics, Inc.  
Crane Aerospace & Electronics  
Crane Aerospace Cabin Systems (PL Porter)  
Curtiss-Wright Flight Systems  
Curtiss-Wright Sensors & Controls HQ  
Ducommun LaBarge Technologies  
Eaton  
Eaton Aerospace, Actuation Systems Division  
Electromech Technologies  
Ensign-Bickford Aerospace & Defense Company (EBA&D)  
Flexial Corporation  
GarKenyon Aerospace & Defense  
GE Aerospace Systems, Loves Park  
Helix Linear Technologies

Honeywell Unmanned Aerial Systems and Urban Air Mobility (UAM)  
ITT Aerospace Controls  
ITT Enidine  
J&F Machine Inc.  
Kaney Aerospace  
Kollmorgen Aerospace & Defense  
Marotta Controls, Inc.  
maxon  
Moog Inc.  
MTI  
Nabtesco Aerospace  
Networks Electronic Company (NEco)  
Ontic  
Parker Aerospace Control Systems  
Parker Aerospace Fluid Systems  
Parker Aerospace Hydraulic Systems  
Parker Meggitt USA Inc.  
Quantic BEI (BEI Precision Systems & Space)  
S.S. White Technologies Inc.  
Salient Motion  
SCHUNK  
Sensata Technologies, Inc.  
Spectrum Associates, Inc.  
Tactair Fluid Controls Inc.  
THK America  
Toyota Motor North America  
Triumph Actuation Products & Services - Clemmons  
Triumph Actuation Products & Services - Seattle  
Triumph Actuation Products & Services - Valencia  
Triumph Actuation Products & Services - Yakima  
Triumph Geared Solutions - Macomb  
Triumph Geared Solutions - Park City  
Triumph Systems Electronics & Controls - Shelbyville  
Triumph Systems Electronics & Controls - Windsor  
UAVOS Inc  
Westfield Hydraulics Inc.  
Whippany Actuation Systems  
Woodward HRT  
Woodward, Niles Plant

# Aircraft index:

*This list is sorted alphabetically by aircraft engine type and then by aircraft program name, and provides information about sub-contractors to each new aircraft program under our Actuation category. Please note that the program data is gathered from a variety of sources and is not necessarily provided or confirmed by the airframer.*

## Electric

### Aalto Zephyr

AMETEK Airtechnology Group - Electromechanical Actuators/Miniature actuators for flight control surfaces

### Archer Midnight

Honeywell Aerospace, Sensing & Control - Electromechanical Actuators/Flight control actuation system, Honeywell Assure

### BETA ALIA

Volz Servos GmbH - Servoactuators

### Boeing MQ-25 Stingray

Liebherr-Aerospace Lindenberg GmbH - Hydraulic Actuators/Tailhook actuator  
Moog Inc. - Mechanical Actuators/Wing flight control actuation and wingfold actuation systems  
Parker Aerospace Control Systems - Electrohydrostatic Actuators/Flight control tail actuation

### De Havilland Dash 8 Series

Beaver Aerospace & Defense, Inc. - Linear Actuators/Wing flap & horizontal stabilizer actuation

### Dornier 228

Liebherr-Aerospace Lindenberg GmbH - Mechanical Actuators/Flap system actuation, - Electromechanical Actuators/Landing gear actuators

### Dufour Aero-200

Volz Servos GmbH - Servoactuators/DA 26-D & DA 15-T fly-by-wire actuators

### Eve 100

Liebherr-Aerospace Lindenberg GmbH - Electromechanical Actuators/ Actuators for fly-by-wire flight controls

### Eviation Alice

Curtiss-Wright Flight Systems - Electromechanical Actuators/High power density electromechanical actuators (EMA) for primary flight control  
Parker Aerospace Control Systems - Electromechanical Actuators

### Flying Whale LCA60T

SABCA - Electromechanical Actuators/Electromechanical actuators for flight controls

### Joby S4

Toyota Motor North America - Electromechanical Actuators

### Skydweller Solar Impulse 2 (SI2)

Volz Servos GmbH - Servoactuators/DA-58 Duplex actuators in ailerons, DA-30 HT Duplex actuators in horizontal/vertical stabilizers

### Textron eAviation Nexus 4EX

Moog Inc. - Electromechanical Actuators/Flight control actuation systems

### Vertical Aerospace Valo

Volz Servos GmbH - Servoactuators/A 30-HT, DA 30-HT-D and DA 58-D actuators for control surfaces

### Wisk Cora

Liebherr-Aerospace Lindenberg GmbH - Electromechanical Actuators/ Comprehensive electro-mechanical actuation system

## Piston

### Beechcraft Baron G58

Electromech Technologies - Electromechanical Actuators/Cowl flap actuator

## Rotary

### Schiebel Camcopter S-100

Volz Servos GmbH - Servoactuators/DA 26 actuators

## Turbofan

### Airbus A220

Safran Electronics & Defense (was Collins Aerospace, Mechanical Systems) - Electromechanical Actuators/High lift flap & slat actuation systems, including actuators, power drive units, wing tip brakes, electronic control units, cockpit levers, transmission shafts & sensors. Thrust reverser actuation system for PW1000G engine.

### Airbus A320

Aerostar SA - Hydraulic Actuators/(supplied to SAFRAN Landing Systems)  
AMETEK Airtechnology Group - Electromechanical Actuators/ Electromechanical actuators for ELGEAR electric landing gear (for Messier-Dowty)  
Arkwin Industries Inc. - Mechanical Actuators/Ram air turbine deployment actuators; engine actuators  
Bergen Cable Technology, Inc - Mechanical Actuators/Mechanical actuators for ailerons; elevators and rudders; lockclad flight control assemblies  
Crane Aerospace Cabin Systems (P.L.Porter) - Linear Actuators/Compact hydrolock seat recline system (through Geven)  
Elektro-Metall Export - Electromechanical Actuators/Emergency ram air inlet door actuator; APU air inlet door actuator  
GE Aerospace Systems, Loves Park - Mechanical Actuators/Thrust reverser actuation systems (A318); landing gear truck positioning actuator  
Liebherr-Aerospace Lindenberg GmbH - Mechanical Actuators/High lift system, - Servoactuators/eRudder actuator and rudder servo control  
Onitic Actuation & Control (was Triumph Integrated Systems - Actuation & Control) - Hydraulic Actuators/Landing gear actuation systems including actuators, valves and uplocks, - Hydraulic Actuators/Ulocks for main landing gear and nose landing gear  
Safran Electronics & Defense (was Collins Aerospace, Mechanical Systems) - Electromechanical Actuators/Primary & secondary flight control actuation systems; thrust reverser actuation, - Electromechanical Actuators/Actuation systems for nacelle, thrust reversers & variable area nozzle (A320neo)  
Triumph Actuation Products & Services - Clemmons - Hydraulic Actuators/ Thrust reverser cowl opening system actuators for the CFM International LEAP-1A engine nacelle (supplied to Safran Nacelles)  
Woodward HRT - Hydraulic Actuators/Thrust reverser actuation system for the PurePower PW1100G-JM

### Airbus A330

Aerostar SA - Hydraulic Actuators/(supplied to SAFRAN Landing Systems)  
Arkwin Industries Inc. - Mechanical Actuators/RAT deployment actuators; engine actuators  
Bergen Cable Technology, Inc - Mechanical Actuators/Mechanical actuators for ailerons; elevators & rudders; lockclad flight control assemblies  
CESA / Heroux Devtek Spain - Mechanical Actuators/Cargo door actuator, - Electromechanical Actuators/Electromechanical lift/extraction/retraction actuators for refuelling boom  
CIRCOR Aerospace Products Group - Mechanical Actuators/Retraction actuators for main landing gear (through Messier-Bugatti-Dowty)  
Eaton Aerospace, Actuation Systems Division - Electromechanical Actuators/ Actuators  
Elektro-Metall Export - Electromechanical Actuators/Electrical seat actuation system, - Electromechanical Actuators/APU air inlet door actuator; emergency ram air inlet door actuator  
GE Aerospace Systems, Loves Park - Mechanical Actuators/High lift actuation; truck position actuator  
Hanwha Group - Hydraulic Actuators/Steering actuator  
Liebherr-Aerospace Lindenberg GmbH - Servoactuators/Spoiler actuation (A330/A330-743L), and rudder servo control (A330); ARBS ruddervator control system (A330 MRTT), - Mechanical Actuators/High lift system (A330/ A330-743L), - Hydraulic Actuators/Landing gear door (A330/A330-743L) and cargo door actuation (A330)  
Safran Electronics & Defense (was Collins Aerospace, Mechanical Systems) - Electromechanical Actuators/Landing gear actuation; primary & secondary flight controls; thrust reverser actuation  
Woodward HRT - Hydraulic Actuators/Thrust Reverser Actuation System hardware (for Aircele)

### Airbus A350

CIRCOR Aerospace Products Group - Mechanical Actuators/Main & nose landing gear door actuators  
Collins Aerospace, Mechanical Systems - Mechanical Actuators/Trimmable horizontal stabilizer actuator  
Curtiss-Wright Controls - EM Technologies (Novatronics) - Electromechanical Actuators/Electromechanical actuators for main deck cargo door  
Elektro-Metall Export - Electromechanical Actuators/APU air inlet door actuator; emergency ram air inlet door actuator, - Linear Actuators/Lavatory non-touch waste flap actuator  
Jihlavan, A.S. - Hydraulic Actuators/Hydraulic actuators of chassis systems  
Liebherr-Aerospace Lindenberg GmbH - Hydraulic Actuators/Landing gear and cargo door actuation; lower deck cargo door actuator (A350-1000), - Mechanical Actuators/High lift system; slat actuation (A350-1000), - Electromechanical Actuators/Load sensing drive strut (A350-1000), - Servoactuators/Spoiler actuation, and rudder servo control

Moog Inc. - Mechanical Actuators/Primary flight controls actuation; high-lift, wing trailing edge actuation system (A350-900)  
Secondo Mona SpA - Hydraulic Actuators/Pitch trim actuators  
Whippary Actuation Systems - Electromechanical Actuators/Electric ground door actuator  
Woodward HRT - Hydraulic Actuators/Spoiler actuation system

### BAE Systems Hawk 100

Cosworth - Mechanical Actuators/Actuation components

### Boeing 737

Arkwin Industries Inc. - Mechanical Actuators/Engine actuators  
Beaver Aerospace & Defense, Inc. - Linear Actuators/Wing flap actuator, - Mechanical Actuators/Camera deployment actuator  
Eaton Aerospace, Actuation Systems Division - Electromechanical Actuators/ Stabilizer trim actuator  
Electromech Technologies - Electromechanical Actuators/Fuel shutoff valve actuator  
GE Aerospace Systems, Loves Park - Mechanical Actuators/Thrust reverser actuation system; utility actuators  
Kollmorgen Aerospace & Defense - Linear Actuators/Actuators for flaps & HSTA  
Moog Flight Controls - Mechanical Actuators/Flight control actuators  
Safran Electronics & Defense (was Collins Aerospace, Mechanical Systems) - Electromechanical Actuators/Thrust reverser actuation  
Triumph Actuation Products & Services - Valencia - Hydraulic Actuators/ Inboard & outboard ground spoiler actuators; main & nose landing gear retract actuators  
Whippary Actuation Systems - Electromechanical Actuators/Airleron trim actuator, APU inlet door actuator, speed brake actuator, forward air stair door actuator  
Woodward HRT - Hydraulic Actuators/Thrust reverser actuation system

### Boeing 767

Arkwin Industries Inc. - Mechanical Actuators/Actuators  
Beaver Aerospace & Defense, Inc. - Linear Actuators/Horizontal stabilizer actuation  
Curtiss-Wright Flight Systems - Rotary Actuators/Cargo door actuator; trailing edge flap rotary actuators  
Eaton Aerospace, Actuation Systems Division - Electromechanical Actuators/ Electromechanical & cargo door actuation systems (KC-46A)  
Electromech Technologies - Electromechanical Actuators/Fuel shutoff valve actuator  
GE Aerospace Systems, Loves Park - Mechanical Actuators/Boom actuation control system (KC-767 tanker). Primary flight control actuators; high lift actuation system; cowl opening systems on GE CF6-80 and PW4000 engines; utility actuators  
Moog Inc. - Mechanical Actuators/Precision control components, - Mechanical Actuators/Leading edge slat actuator, autopilot actuators, refueling boom actuators (KC-46A), - Rotary Actuators/Inboard/outboard leading edge rotary actuators, - Mechanical Actuators/Refueling boom actuation system  
Parker Aerospace Control Systems - Electromechanical Actuators/Refueling receptacle door actuator (KC-46A)  
Triumph Actuation Products & Services - Valencia - Hydraulic Actuators/Main & nose landing gear retract actuators  
Triumph Geared Solutions - Park City - Mechanical Actuators/Leading edge slat actuator, horizontal stabilizer trim actuator  
Whippary Actuation Systems - Electromechanical Actuators/Stick nudger actuator, ram air door actuator, valve actuator for ECS

### Boeing 777

Arkwin Industries Inc. - Mechanical Actuators/Ram air turbine deployment actuator  
Collins Aerospace, Propeller Systems (Ratier Figeac) - Mechanical Actuators/ Horizontal stabiliser trim actuator  
Curtiss-Wright Flight Systems - Rotary Actuators/Main deck cargo door rotary actuators  
Electromech Technologies - Electromechanical Actuators/Fuel shutoff valve actuator  
Héroux-Devtek Inc. - Hydraulic Actuators/Landing gear retract actuators  
Kollmorgen Aerospace & Defense - Linear Actuators/Actuators for HSTA  
Liebherr-Aerospace Lindenberg GmbH - Hydraulic Actuators/Folding wing tip actuation including hydraulic motor, power drive unit, fold subsystem, latch pin actuator and secondary lock actuator (777X)

Moog Inc. - Mechanical Actuators/Precision control components  
Nabtesco Aerospace - Mechanical Actuators/Control surface actuators  
Triumph Actuation Products & Services - Valencia - Hydraulic Actuators/Semi-levered gear actuator  
Whippary Actuation Systems - Electromechanical Actuators/APU inlet door actuator, rudder trim actuator, elevator feel actuator, - Rotary Actuators/ Leading edge emergency motor unit, trailing edge emergency motor unit, valve actuator for environmental control system, - Mechanical Actuators/ Speed brake clutch

Woodward HRT - Hydraulic Actuators/Thrust reverser actuation system

### Boeing 787 Dreamliner

Arkwin Industries Inc. - Mechanical Actuators/Ram air turbine deployment actuator  
Collins Aerospace, Mechanical Systems - Actuation - Electromechanical Actuators/Electro-mechanical actuators & control valves for environmental control system

Curtiss-Wright Sensors & Controls HQ - Mechanical Actuators/Large cargo door mechanical actuation system  
Hanwha Group - Linear Actuators/Linear position control actuator  
Héroux-Devtek Inc. - Mechanical Actuators/Torque tubes  
Kollmorgen Aerospace & Defense - Linear Actuators/Actuators for spoilers & HSTA; ball screws for electric brakes  
Moog Controls (UK) - Mechanical Actuators/Flight control actuators  
Moog Flight Controls - Mechanical Actuators/High lift actuation system  
Moog Inc. - Electromechanical Actuators/Lateral control electronics for control of fly-by-wire & spoiler actuators  
Triumph Actuation Products & Services - Clemmons - Hydraulic Actuators/ Large cargo door actuation system

### Boeing F-15E Strike Eagle

GE Aerospace Systems, Loves Park - Mechanical Actuators/Primary flight control actuation  
Whippany Actuation Systems - Electromechanical Actuators/Rudder feel control actuator, longitudinal feel actuator

### Boeing F/A-18 Super Hornet

Arkwin Industries Inc. - Mechanical Actuators/Ram air turbine deployment actuator  
Curtiss-Wright Flight Systems - Rotary Actuators/Canopy actuator  
GarKenyon Aerospace & Defense - Hydraulic Actuators  
GE Aerospace Systems, Loves Park - Mechanical Actuators/Thrust reverser actuation systems, landing gear truck positioning actuator

### Boeing MQ-25 Stingray

Liebherr-Aerospace Lindenberg GmbH - Hydraulic Actuators/Tailhook actuator  
Moog Inc. - Mechanical Actuators/Wing flight control actuation and wingfold actuation systems  
Parker Aerospace Control Systems - Electrohydraulic Actuators/Flight control tail actuation

### Boeing X-66A

Woodward HRT - Rotary Actuators/Design of rotary actuators, fitted to ailerons

### Bombardier Challenger 300 series

Electromech Technologies - Electromechanical Actuators/Horizontal stabilizer trim actuator; rudder travel limiter actuator  
GE Aerospace Systems, Loves Park - Mechanical Actuators/Thrust reverser actuation system

### Bombardier Global series

Collins Aerospace, Power & Controls Division - Mechanical Actuators/Wing high-lift system (Global 7000 & 8000)

### Cessna Citation CJ3

Beaver Aerospace & Defense, Inc. - Linear Actuators/Wing flap actuator

### Cessna Citation Longitude

Collins Aerospace, Mechanical Systems - Electromechanical Actuators/ Horizontal stabilizer trim and flap actuation systems

### COMAC C909

Safran Electronics & Defense (was Collins Aerospace, Actuation Systems) - Mechanical Actuators/Flap/slat actuation and control system

### COMAC C919

Collins Aerospace, Power & Controls Division - Mechanical Actuators/ Passenger door damper & emergency opening actuation system  
Eaton Aerospace, Actuation Systems Division - Electromechanical Actuators/ Cargo door actuation system  
Moog Inc. - Electromechanical Actuators/High lift system  
Parker Meggitt USA Inc. - Mechanical Actuators/Door safety systems; electro-mechanical flight lock actuators  
Safran Electrical & Power Villermur - Electrical Actuators/TRCU Thrust Reverser Control Unit

### Dassault 2000 series

Safran Electronics & Defense (Components) - Digital Actuators/Flight control & other actuators, autopilot actuator (2000EX)

### Dassault TX

Collins Aerospace, Mechanical Systems - Electromechanical Actuators/ Horizontal stabilizer trim actuator  
Safran Electronics & Defense (was Collins Aerospace, Mechanical Systems) - Electromechanical Actuators/Secondary flight controls including airbrakes & flap systems

### Dassault 900LX

Safran Electronics & Defense (Components) - Digital Actuators/Flight control & other actuators; autopilot actuator (900EX)

### Dynetics X-61A Gremlin

Moog Inc. - Electromechanical Actuators/Electromechanical actuation systems for precision motion control for GAV tail fin control, GAV wing deploy and fin control for the attitude-controlled Bullet.

### Embraer C-390 Millennium

Safran Electronics & Defense (was Collins Aerospace, Mechanical Systems) - Electrohydraulic Actuators/Electrohydraulic actuators, electro-backup hydrostatic actuators, actuator electronics & electrical controls for primary flight control system

### Embraer E-Jet 170/190 series

Collins Aerospace, Mechanical Systems - Mechanical Actuators/Horizontal stabiliser trim actuators  
GE Aerospace Systems, Loves Park - Linear Actuators/Linear actuators; thrust reverser actuation systems  
Liebherr-Aerospace Lindenberg GmbH - Mechanical Actuators/High lift system (E2)  
Nabtesco Aerospace - Mechanical Actuators/Multi-function spoiler actuator assembly  
Parker Aerospace Control Systems - Electromechanical Actuators/Flight control systems  
Safran Electronics & Defense (was Collins Aerospace, Actuation Systems) - Mechanical Actuators/Trimmable horizontal system actuator  
Whippany Actuation Systems - Electromechanical Actuators/Bypass valve actuator

### Embraer ERJ-145 series

GE Aerospace Systems, Loves Park - Mechanical Actuators/Utility actuation  
Safran Electronics & Defense (was Collins Aerospace, Actuation Systems) - Mechanical Actuators/Trimmable horizontal system actuator

### Embraer Phenom

Eaton Aerospace, Actuation Systems Division - Electromechanical Actuators/ Flap actuator (Phenom 100)

### Eurofighter Typhoon

CESA / Heroux Devtek Spain - Hydraulic Actuators/Foreplane actuator, landing gear door actuators; EJ200 engine VIGV master & slave actuators & nozzle actuators  
Elektro-Metall Export - Rotary Actuators/Brake parachute lock/release unit actuators  
Liebherr-Aerospace Lindenberg GmbH - Hydraulic Actuators/Primary flight control actuators, nose landing gear retraction actuator, - Servoactuators/ Airbrake actuator servo control  
Safran Electronics & Defense (was Collins Aerospace, Actuation Systems) - Mechanical Actuators/Flap/slat actuation and control system  
Secondo Mona SpA - Hydraulic Actuators/Hydraulic actuators

### FAdEA IA-63 Pampa

Liebherr-Aerospace Lindenberg GmbH - Mechanical Actuators/High lift actuation components

### Gulfstream G280

FIMAC - Hydraulic Actuators/Passenger main door actuation system  
Moog Inc. - Electromechanical Actuators/Flight control actuators, high lift system

### Gulfstream G500/G600

Moog Inc. - Mechanical Actuators/Flap actuation, power drive, transmission components & accessories

### Gulfstream G700/G800

Liebherr-Aerospace Lindenberg GmbH - Pneumatic Actuators/Pneumatic actuators in pneumatic component package for Pearl 700 engine (Rolls-Royce)

### JetZero Z4

Moog Inc. - Electromechanical Actuators/Flight control actuators

### KAI T-50 Golden Eagle

Arkwin Industries Inc. - Mechanical Actuators/Speed brake actuators  
EM Korea Co. Ltd. (Energy & Machinery Korea) - Hydraulic Actuators/Landing gear door actuator

### Leonardo M-346 Master

Logic S.p.A - Electromechanical Actuators/Latching actuator

### Lockheed Martin F-16 Fighting Falcon

Arkwin Industries Inc. - Mechanical Actuators/Landing gear door, retract & speed brake actuators  
Curtiss-Wright Flight Systems - Rotary Actuators/Leading edge flap rotary actuators & attachment tie bars

### Lockheed Martin F-35 Lightning II

Arkwin Industries Inc. - Mechanical Actuators/Utility actuators  
Eaton Aerospace, Actuation Systems Division - Electromechanical Actuators/ Utility actuation & control valve sub-system, - Hydraulic Actuators/Weapons bay door hydraulic actuator  
Moog Inc. - Mechanical Actuators/Leading edge flap drive system; primary flight control actuation system (electro-hydrostatic actuation system; and the wingfold actuation system  
Parker Aerospace Control Systems - Electrohydraulic Actuators/ Electrohydraulic actuators for primary flight control surfaces; clutch actuation system for LiftFan  
Rosebank Engineering Pty Ltd - Hydraulic Actuators/MLG retract & downlock actuators; NLG retract actuator & damper assembly, - Hydraulic Actuators/ Weapon bay drive door system uplock actuators  
Safran Electronics & Defense (was Collins Aerospace, Mechanical Systems) - Electromechanical Actuators/Utility actuators for weapons bay door; downlock & retract actuators for landing gear system; weapons bay door drive system

Woodward HRT - Hydraulic Actuators/Aileron actuators

### Otto Phantom 3500

MECAER Aviation Group - Hydraulic Actuators/Primary flight control actuation system

### Pilatus PC-24

AMETEK PDS - Electromechanical Actuators/ACL23A-4 Aileron and Rudder Trim System  
Curtiss-Wright Flight Systems - Electromechanical Actuators/Electro-mechanical actuators and power and control electronics used to position the spoilers and flaps

### Yakovlev MC-21-300

Safran Electronics & Defense (was Collins Aerospace, Mechanical Systems) - Electromechanical Actuators/Flight control actuation system

## Turbojet

### BAE Tempest

Safran Electronics & Defense (was Collins Aerospace, Mechanical Systems) - Electromechanical Actuators/Advanced actuation capabilities

## Turboprop

### Airbus (Airtech) CN235

CESA / Heroux Devtek Spain - Hydraulic Actuators/Cargo ramp locking & telescopic actuators

### Airbus A400M

CESA / Heroux Devtek Spain - Hydraulic Actuators/Landing gear hydraulic actuators; door & ramp actuation system including 26 actuators & 6 control manifolds  
Collins Aerospace, Propeller Systems (Ratier Figeac) - Mechanical Actuators/ Trimmable horizontal stabilizer actuator  
Electromech Technologies - Electromechanical Actuators/Fuel shutoff valve actuator  
Elektro-Metall Export - Electromechanical Actuators/APU air inlet door actuator; emergency ram air inlet door actuator, - Rotary Actuators/Air scoop actuator  
Liebherr-Aerospace Lindenberg GmbH - Servoactuators/Aileron, elevator and rudder servo control, power control unit, spoiler servo control, and door ramp actuation system, - Hydraulic Actuators/Wing tip brake  
Moog Inc. - Servoactuators/Fly-by-wire servoactuators for control of primary flight services  
Safran Electronics & Defense (was Collins Aerospace, Mechanical Systems) - Rotary Actuators/Flap actuation package

### Airbus C295

CESA / Heroux Devtek Spain - Hydraulic Actuators/Cargo ramp locking & telescopic actuators, control manifold  
Electromech Technologies - Electromechanical Actuators/Rudder travel limit actuator

### ATR 42/72

Safran Electronics & Defense (Components) - Digital Actuators/Flight control actuators

### Beechcraft T-6

Tactair Fluid Controls Inc. - Servoactuators/Nose wheel steering servo actuators

### Daher Kodiak

Electromech Technologies - Electromechanical Actuators/Aileron trim actuator; analog flap system; FOD door actuator; mechanical elevator trim actuator

### De Havilland Dash 8 Series

Beaver Aerospace & Defense, Inc. - Linear Actuators/Wing flap & horizontal stabilizer actuation

### Deutsche Aircraft D328eco

Liebherr-Aerospace Lindenberg GmbH - Electromechanical Actuators/Flap and spoiler actuation system including application and control software

### Dornier 228

Liebherr-Aerospace Lindenberg GmbH - Mechanical Actuators/Flap system actuation, - Electromechanical Actuators/Landing gear actuators

### Dornier Seawings Seastar

AMETEK PDS - Electromechanical Actuators/Aileron Trim (ACL23C-1) and Rudder Trim (ACL23C-1) powered by Linear Actuators

### Embraer EMB-314 Super Tucano

Beaver Aerospace & Defense, Inc. - Electromechanical Actuators/Elevator, rudder & aileron trim actuators

Evektor EV-55 Outback

Jihlavan, A.S. - Hydraulic Actuators/Actuators for balancing surfaces

Indonesian Aerospace NC212i

CESA / Heroux Devtek Spain - Hydraulic Actuators/Cargo ramp locking actuator; flap actuator

Leonardo (Alenia) C-27J Spartan

Secondo Mona SpA - Electromechanical Actuators/Cable tension actuators

LET 410

Jihlavan, A.S. - Hydraulic Actuators/Actuators for balancing surfaces, flight control, and landing gear (410 UVP-E20)

Lockheed Martin C-130J Hercules

Electromech Technologies - Electromechanical Actuators/Fuel shutoff valve actuator

Northrop Grumman E-2D Advanced Hawkeye

Whippany Actuation Systems - Electromechanical Actuators/Rudder control actuator

Piaggio P.180 Avanti

Electromech Technologies - Electromechanical Actuators/Horizontal stabilizer actuator; ice vane actuator

Pilatus PC-12

Electromech Technologies - Electromechanical Actuators/Trim actuator  
Elektro-Metall Export - Rotary Actuators/Elevator trim actuator

Pilatus PC-21

Electromech Technologies - Electromechanical Actuators/Trim actuator

Viking Twin Otter Series 400

Whippany Actuation Systems - Electromechanical Actuators/Aileron trim actuator

XAC MA700

Liebherr-Aerospace Lindenberg GmbH - Electromechanical Actuators/Valve actuator  
Parker Aerospace Hydraulic Systems - Hydraulic Actuators/Fly-by-wire hydraulic flight control actuators

Turboshaft

Airbus Helicopters H135

Liebherr-Aerospace Lindenberg GmbH - Servoactuators/Main and tail rotor servo controls

Airbus Helicopters H145

Liebherr-Aerospace Lindenberg GmbH - Servoactuators/Main and tail rotor servo controls (UH-72A/H145)

Airbus Helicopters H160

Liebherr-Aerospace Lindenberg GmbH - Servoactuators/Main and tail rotor servo controls  
Safran Aerosystems Hydraulics - Electromechanical Actuators/Smart electromechanical actuators (SEMA) and trim actuators (H160 and H160M)

Airbus Helicopters H175

Collins Aerospace, Mechanical Systems - Actuation - Linear Actuators/Primary flight control actuators

Airbus Helicopters Tiger

Elektro-Metall Export - Rotary Actuators/Trim actuators  
Liebherr-Aerospace Lindenberg GmbH - Electromechanical Actuators/Main and tail rotor servo controls

Bell 407

Electromech Technologies - Electromechanical Actuators/Engine bypass filter door actuator

Bell 429

Woodward HRT - Hydraulic Actuators/Flight control actuation system

Bell 505 Jet Ranger X

MECAER Aviation Group - Servoactuators/Servoactuator and kitted parts for flight controls and hydraulic system

Bell 525 Relentless

Moog Inc. - Electromechanical Actuators/Primary flight control actuation

Bell Boeing V-22 Osprey

Arkwin Industries Inc. - Mechanical Actuators/Ram air turbine deployment actuator  
CEF Industries Inc. - Linear Actuators/Flap, gear and utility actuation

Curtiss-Wright Flight Systems - Rotary Actuators/Cockpit control feel & drive actuators  
GE Aerospace Systems, Loves Park - Mechanical Actuators/Fire door actuator, - Servoactuators/Rudder servoactuators  
Moog Inc. - Servoactuators/Flap, elevator & swashplate actuators

Bell V-280 Valor

Moog Inc. - Rotary Actuators/Pylon conversion actuators, - Electromechanical Actuators

Boeing CH-47 Chinook

Whippany Actuation Systems - Electromechanical Actuators/Longitudinal cyclic trim actuator

KAI KUH-1 Surion Korean Utility Helicopter

Hanwha Group - Hydraulic Actuators/Hydraulic actuators for main & tail rotors

Leonardo AW101

Secondo Mona SpA - Electromechanical Actuators/Folding system actuators

Leonardo AW149

Secondo Mona SpA - Hydraulic Actuators/Free wheel actuator

Leonardo AW169

AMETEK Airtechnology Group - Electromechanical Actuators/Landing gear actuators (retract and lock)

NHIndustries NH90

Elektro-Metall Export - Electromechanical Actuators/Cargo ramp & hatch actuators & control unit  
Secondo Mona SpA - Electromechanical Actuators/Tail folding & tail locking actuators

Sikorsky CH-53K King Stallion

Triumph Actuation Products & Services - Seattle - Hydraulic Actuators/ Equipment for the main rotor blade folding system, main rotor lag damper system and main rotor brake system, - Hydraulic Actuators/Main rotor blade fold actuation and dampening systems for lots 7 and 8  
Whippany Actuation Systems - Electromechanical Actuators/Pitch bias actuator

Sikorsky S-70A Black Hawk

Collins Aerospace, Mechanical Systems - Actuation - Servoactuators/Ballistic-tolerant main & tail rotor servos

Sikorsky S-70B SeaHawk

Whippany Actuation Systems - Electromechanical Actuators/Blade fold actuator, index drive actuator, RAST probe actuator, pitch lock actuator

Sikorsky S-92 Superhawk

Aernnova Aerospace Mexico - Hydraulic Actuators  
CESA / Heroux Devtek Spain - Hydraulic Actuators/Ramp actuation system  
Collins Aerospace, Mechanical Systems - Actuation - Servoactuators/Fly-by-wire primary flight control actuation; main rotor servos  
Whippany Actuation Systems - Electromechanical Actuators/Blade fold actuator, rotor index actuator, tail rotor index actuator

Sikorsky S-97 Raider

Moog Inc. - Mechanical Actuators/Active vibration actuation  
Parker Aerospace Hydraulic Systems - Servoactuators/Main rotor servoactuators (MRS) (DEFIANT X), - Hydraulic Actuators/Hydraulic tail actuation system (HTAS) (DEFIANT X)

Hybrid

Ascendance Flight Technologies ATEA

ANDAR Electromechanical Systems - Electromechanical Actuators/Primary flight control actuation system

Dufour Aero-200

Volz Servos GmbH - Servoactuators/DA 26-D & DA 15-T fly-by-wire actuators

Electra.aero eSTOL

Honeywell Aerospace, Sensing & Control - Electromechanical Actuators/ Electromechanical actuation systems (eSTOL)

Flying Whale LCA60T

SABCA - Electromechanical Actuators/Electromechanical actuators for flight controls

Textron eAviation Nexus 4EX

Moog Inc. - Electromechanical Actuators/Flight control actuation systems

Vertical Aerospace Valo

Volz Servos GmbH - Servoactuators/A 30-HT, DA 30-HT-D and DA 58-D actuators for control surfaces



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