



Tooling

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50 aircraft programs

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Tooling

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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 Tooling 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.

AA Gage (was A.G. Davis - AA Gage) (U.S.A.)

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T: +1 586 977 9000 www.aagage.com
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F: +1 316 683 0213 info@accurus aero.com
Jigs & Fixtures, Tooling

Additive Engineering Solutions (AES) (U.S.A.)

990 Evans Avenue, Akron, OH 44305.
T: +1 800 210 9801 www.additiveeng.com
F: +1 800 210 9801 sales@AdditiveEng.com

Jigs & Fixtures, Tooling

Advanced Ground Systems Engineering Corp (U.S.A.)

10805 Painter Ave., Santa Fe Springs, CA 90670.
T: +1 562 906 9300 www.agsecorp.com
F: +1 562 906 9308 agse@agsecorp.com
Tooling

Advanced Integration Technology (was Nova-Tech Engineering) (U.S.A.)

19909 120th Avenue NE, Suite 103, Bothell, WA 98011.
T: +1 425 398 7329 www.aint.com/about_ait/locations/
bothell_washington_contact_information
F: +1 425 398 7329 info@aint.com

Controlled Machinery, Jigs & Fixtures, Laser Tooling, Mandrels, Tooling
Airbus A220, Airbus A320, Boeing 737, Boeing 777, Boeing 787
Dreamliner, Embraer E-Jet 170/190 series, Embraer Praetor 500/600,
Gulfstream G650, Honda HA-420 HondaJet, Lockheed Martin F-35
Lightning II

Advanced Integration Technology, Inc. (U.S.A.)

Suite 100, 2805 E. Plano Parkway, Plano, TX 75074.
T: +1 972 423 8354 www.aint.com
F: +1 972 423 8469 ait@aint.com

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Phantom 3500

See also: Advanced Integration Technology (was Nova-Tech Engineering),
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Aequs Limited - Aequs SEZ (Belagavi Aerospace Cluster) (India)

No. 437A, Hattargi Village, Hukkeri Taluk. Belagavi, 591 243
Karnataka.
T: +91 80 41190900 www.aequs.com
F: +91 80 41190901 chitti.pantulu@aequs.com
Tooling

See also: Aequs Aerospace Cholet SAS

Aero Vodochody Aerospace a.s. (Czech Republic)

U Letiste 374, CZ-25070 Odolena Voda.
T: +420 255 762 542 www.aero.cz
F: +420 255 763 225 info@aero.cz

Jigs & Fixtures
Airbus A320, Airbus A330

See also: Adler Aero S.p.A, Aero Vodochody (Technometra Radotin),
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and Zlin Aircraft a.s.

Aerodine Composites (U.S.A.)

8201 Indy Lane, Indianapolis, IN 46214.
T: +1 317 271 1207 www.aerodinecomposites.com
F: +1 317 271 1207 info@aerodinecomposites.com

Tooling
HopFlyt Venturi

AeroFab NDT (U.S.A.)

8649 S. 212th St., Kent, WA 98031.
T: +1 844 495 9219 www.aerofabndt.com
F: +1 844 495 9219 sales@aerofabndt.com

Tooling

Aerospace Composites Solutions (was Blackhawk Composites) (U.S.A.)

404 W. Morrison St., Morgantown, KY 42261.
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F: +1 270 662 0100 composites@composites.aero

Jigs & Fixtures

See also: Creative Technology and Design, Epicor Software and MCE Aero LLC

Aerospace Dynamics International (U.S.A.)

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T: +1 661 257 3535 www.precast.com
F: +1 661 257 2143 communications@precastcorp.com
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F: +34 95 441 41 07 info@erotecnica.aero
Tooling

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Avenida Juan Lopez de Penálvarez, 17 Parque Tecnológico de
Andalucía, 29590 Málaga.
T: +34 95 10 10 200 aertecsolutions.com
F: +34 95 10 10 200 info@aertecsolutions.com

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AFormX (Slovenia)

Gabrsko 12, SI-1420 Trbovlje.
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F: +386 41 499 544 info@aformx.si

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F: +1 714 244 1111 info@agaprecision.com
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Na Zahonech 1177, CZ-68604 Kunovice.
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F: +420 572 816 112 let@let.cz
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See also: Jihlavan, A.S., TECMOS spol. s r.o. and Zlin Aircraft a.s.

Airmo Inc. Pressure Technologies (U.S.A.)

9445 Evergreen Blvd. NW, Minneapolis, MN 55433-5840.
T: +1 763 786 0000 www.airmo.com

F: +1 763 786 4622 airmo@airmo.com
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Jigs & Fixtures

See also: Merkad Aviation

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Anduril Industries (was Blue Force Technologies) (U.S.A.)

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Jigs & Fixtures, Tooling

Ascent Aerospace North America (U.S.A.)

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F: +1 877 936 4906 info@ascentaerospace.com

Engine Tooling, Jigs & Fixtures, Mandrels, Tooling

Airbus A220, Airbus A350, Bell Boeing V-22 Osprey, Boeing 777, Boeing
787 Dreamliner, Boeing AH-64 Apache, Boeing F/A-18 Super Hornet,
Bombardier Global series, Gulfstream G650, Lockheed Martin F-35
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info@ascentaerospace.com

Tooling
Airbus A330

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F: +1 604 946 4671 asco@ascocloud.net
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ATS Applied Tech Systems Ltd. (U.K.)

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michael.atherton@ats-global.com

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F: +31 73 646 99 09 axxiflex@axxiflex.com
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Lockheed Martin F-35 Lightning II

BCW Group (U.K.)

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T: +44 1282 872 491 www.bcwgroup.co.uk
info@bcwgroup.co.uk
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Sales@benmachine.com

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See also: Macfab Manufacturing

Bertrandt Ingenieurbüro GmbH (Germany)

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Boldman Limited (U.K.)

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Bouma Company (France)

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bouma@bouma.fr

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F: +1 248 352 7907 craig.sutter@btaerospace.com
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F: +1 989 269 9559 briney@geminigroup.net
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Am Autobahnkreuz 14, D-26180 Rastede.
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C. & E. FEIN GmbH (Germany)

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F: +49 7173 183 800 info@fein.de
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See also: Carter Americas, LLC

CIMtech Green Energy Mfg.Inc. (Canada)

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T: +1 604 575 8853 cimtech.com
info@cimtech.green

Tooling

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www.cloudwave.in
sales@cloudwave.in

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Plot #347, D1&2, KIADB Electronic City, Hebbal Industrial Area, Mysuru, 570 016 Karnataka.
T: +91 821 428 0000 www.cyientdlm.com
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See also: Altek Electronics, Inc.

Dayton T. Brown, Inc. (U.S.A.)

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T: +1 800 232 6300 www.dtb.com
F: +1 631 589 3648 contactus@dtb.com
Tooling

Deharde GmbH (Germany)

Am Hafen 14a, D-26316 Varel.
T: +49 4451 9133 0 www.deharde.de
F: +49 4451 9133 98 info@deharde.de
Tooling

DEMA SpA (Italy)

Via S. Sossio 38, I-80049 Somma Vesuviana.
T: +39 081 893 4108 www.demaspa.it
F: +39 081 893 4077 info@demaspa.it

Jigs & Fixtures
See also: Cutting Trading International - CTI

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F: +33 4 78 98 39 93 accueil.rhone-alpes@duqueine.fr
Mandrels

See also: CSA (Construction Structures Aéronautiques) and STMB-Rosse

Dutch-Shape BV (Netherlands)

Walserij 3, NL-7621 HC Borne.
T: +31 74 741 00 10 www.dutch-shape.nl
info@dutch-shape.nl

Tooling

Airbus A400M, Boeing 787 Dreamliner, Gulfstream G650, Lockheed Martin F-35 Lightning II

Dwen Airmotive NZ Ltd (New Zealand)

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T: +64 21 274 7800
sales@dwenairmotive.co.nz

Tooling

Dynatomic-Oldland Aerospace (U.K.)

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Jigs & Fixtures

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F: +82 5 5855 0076 samco@samcokorea.com
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info@echo-integration.com

Tooling

EDAG aeromotive GmbH (Germany)

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info-aeromotive@edag.com

Tooling

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F: +44 1245 358022
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EFW Elbe Flugzeugwerke (Germany)

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F: +49 351 8839 3103 sales@efw.aero

Tooling

See also: ACM Aerospace (Aircraft Cabin Modification GmbH)

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Tooling

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F: +1 734 761 5426 sales@electroarc.com
Controlled Machinery

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F: +44 1244 534 077 sales@electroimpact.com
Jigs & Fixtures, Tooling

Electronics Metal Finishing Corp. (U.S.A.)

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F: +1 719 576 7738 emfcorp3025@att.net
Tooling
Boeing 767

Element Six Limited (Republic of Ireland)

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F: +353 61 775200 support@e6.com
Tooling
Elsa Industry (Romania)
, Bucharest.
T: +40 744 301 435 www.elsaindustry.eu
office@elsaindustry.eu

Tooling

ENL Group (U.K.)

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info@enl.co.uk

Tooling

See also: ENL Performance

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EOS Electro Optical Systems Ltd (U.K.)

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Laser Tooling

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GA PrecisionTech Europe GmbH (Germany)

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info@ga-ptc.com

Jigs & Fixtures, Tooling

Galaxy Technologies (U.S.A.)

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F: +1 620 221 0913 dridley@galaxytool.com
Dies, Jigs & Fixtures, Mandrels, Tooling

Gardner Aerospace (U.K.)

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Graphite Sales Inc. (GSI) (U.S.A.)

220 Township Road #791, Nova, OH 44859.

T: +1 419 652 3388 www.graphitesales.com

F: +1 419 652 3985

Tooling

See also: Rolls-Royce plc and Safran Group

Green Country Aircraft (GCA) (U.S.A.)

1876 N. 106th E. Ave., Tulsa, OK 74116.

T: +1 918 832 1769 www.greencountryaircraft.com

customerservice@greencountryaircraft.

com

Tooling

Guanglian Aviation Industry Co. Ltd. (China)

No. 3, Hanan 3rd Road, Core Area, Hanan Industrial New City, 150000 Harbin.

T: +86 451 5191 0986 www.glavi.cn

F: +86 451 5191 0986 guanglianhangkong@glavi.cn

Jigs & Fixtures, Tooling

COMAC C919, COMAC C929

Habco Industries (U.S.A.)

172 Oak Street, Glastonbury, CT 06033.

T: +1 860 682 6800 www.habco.biz

F: +1 860 682 6804 sales@habco.biz

Engine Tooling, Tooling

Hanwha Aerospace USA, Engineered Solutions (U.S.A.)

5 McKee Place, Cheshire, CT 06410.

T: +1 203 806 2090 www.hanwhaaerospaceusa.com

Tooling

Harcourt Industrial, Inc. (U.S.A.)

1100 East Whitcomb Ave, Madison Heights, MI 48071.

T: +1 248 298 3800 www.harcourt.co

F: +1 248 298 3806 sales@harcourt.co

Jigs & Fixtures

Heggemann AG (Germany)

Zeppelinring 1-6, D-33142 Buren.

T: +49 2955 76 100 www.heggemann.com

F: +49 2955 76 1010 aerospace@heggemann.com

Jigs & Fixtures

Hi-Performance Products, Inc. (U.S.A.)

1231 Puerta Del Sol, Unit 400, San Clemente, CA 92673.

T: +1 949 366 6088 www.hi-performanceproducts.com

F: +1 949 366 5988 info@hpp.occoxmail.com

Tooling

HizeAero (South Korea)

24, Gongdan5-ro, Sanam-myun, Sacheon-si, 52535

Gyeongsangnam-do.

T: +82 5 5850 8800 www.hizeaero.com

hizeaero@hizeaero.com

Tooling

HTT (High Tech Tools) - Centro Affilatura (Italy)

Zona industriale Ilici, I-83030 Venticano (AV).

T: +39 0825 963 122 www.htt.tools

web@httsrl.com

Tooling

Hydro Systems USA Inc. (U.S.A.)

1127 Andover Park W, Tukwila, WA 98188.

T: +1 253 876 2100 www.hydro.aero

info.usa@hydro.aero

Tooling

Hyperion Materials & Technologies (U.S.A.)

5455 Rings Road, Suite 350, Dublin, OH 43017.

T: +1 800 343 0636 www.hyperionmt.com

marketing@hyperionmt.com

Dies

IAR S.A. Brasov (Romania)

No.34, Hermann Oberth Street, R-507075 Ghimbav, Brasov.

T: +40 26 847 51 07 www.iar.ro

F: +40 26 847 69 81 office@iar.ro

Jigs & Fixtures

Indaero (was Indaero Tecnigrab) (Spain)

P.I. Espaldillas. Calle Diez nº 10, Alcalá de Guadaira, E-41500 Sevilla.

T: +34 95 431 73 14 indaero.com

F: +34 95 431 73 15 comercial@indaero.com

Tooling

Airbus A330, Airbus A400M, Airbus C295

Industria Especializada En Aeronautica SA (INESPASA) (Spain)

Calle Ing. Rafael Rubio Elola, 10, La Rinconada, E-41309

Sevilla.

T: +34 955 343 000 www.inespasa.com

info@inespasa.com

Tooling

Innomech Aerospace Toolings Private Limited (India)

Plot No.3, Sy. No. 21-P, Aerospace SEZ Sector, Hitech Defence & Aerospace Park, Devanahalli Kavadasanahalli, 562 135 Bengaluru.

T: +91 63649 00858 www.unimechaerospace.com

customerenquiries@unimechaerospace.

com

Engine Tooling, Tooling

Innova Engineered Plastics (formerly ThermoFab) (U.S.A.)

76 Walker Road, Shirley, MA 01464.

T: +1 978 425 2311 www.innova-plastics.com

sales@innova-plastics.com

Tooling

Jaivel Aerospace (U.K.)

Jaivel House, 36, Hermitage Way, Mansfield NG18 5ES.

T: +44 1623 333 009 www.jaivel.aero

web2017@jaivel.com

Jigs & Fixtures, Tooling

Boeing 787 Dreamliner

James Tool Machining & Engineering, Inc. (U.S.A.)

130 Reep Drive, Morganton, NC 28655.

T: +1 828 584 8722 www.jamestool.com

F: +1 828 584 8779 sales@jamestool.com

Tooling

Janicki Industries (U.S.A.)

719 Metcalf Street, Sedro-Woolley, WA 98284.

T: +1 888 856 5143 www.janicki.com

F: +1 360 856 0372 info@janicki.com

Controlled Machinery, Jigs & Fixtures, Tooling

Airbus A220, Boeing 787 Dreamliner, Lockheed Martin F-35 Lightning II, Natilus Kona / Horizon

Jeh Aerospace (India)

Block B3, Kothur Logistics Park, SY No. 140, 141 &145, Ida Kothur, Kothur, Rangareddy District, 509 228 Telangana.

www.jeh.aero

info@jeh.aero

Jigs & Fixtures

Kaelin Aero Technologies GmbH (Germany)

Hochsträß 5, D-78727 Oberndorf - Hochmössingen.

T: +49 7423 80 90 7 0 www.kaelin.aero

info@kaelin.aero

Jigs & Fixtures, Tooling

Junkers A50 Junior

Kamensk Uralsky Metallurgical Works JSC (KUMZ) (Russia)

5 Zavodskaya st., Kamensk Uralsky, 623405 Sverdlovsk Region.

T: +7 343 939 53 00 www.kumz.ru

F: +7 343 939 55 12 any@kumw.ru

Dies

Kanfit Ltd (Israel)

8 Hamerkava Street, Tsiaporit Industrial Zone, 1789064 Nof Hagali.

T: +1 888 203 4437 www.kanfit.com

F: +972 4 616 9380 shachar@kanfit.com

Jigs & Fixtures, Tooling

Lockheed Martin F-16 Fighting Falcon

Karman Space & Defense (AMRO) (U.S.A.)

1503 Adelia Ave., South El Monte, CA 91733.

T: +1 626 579 2200 www.karman-sd.com

F: +1 626 579 2249 sales@karman-sd.com

Tooling

See also: Verisurf Software, Inc.

Kendu, S. Coop. (Spain)

Polígono Industrial Aizkoeta, 23, E-20214 Segura.

T: +34 943 801 340 www.kendu.es

kendu@kendu.es

Tooling

KIHOMAC (U.S.A.)

12030 Sunrise Valley Drive, Suite 320, Reston, VA 20191.

T: +1 703 960 5450 www.kihomac.com

F: +1 877 282 8011 contact@kihomac.com

Tooling

Kinefac Corporation (U.S.A.)

156 Goddard Memorial Drive, Worcester, MA 01603.

T: +1 508 754 6891 www.kinefac.com

sales@kinefac.com

Dies

KMM Group, Ltd. (U.S.A.)

2200 Byberry Road, Hatboro, PA 19040.

T: +1 888 499 5657 kmmgrp.com

F: +1 215 675 7119 info@kmmgrp.com

Tooling

Korea Jig and Fixture (KJF) - ROKADI (South Korea)

14, Noksansandan 261-ro 59beon-gil, Gangseo-gu, 467-53 Busan.

T: +82 5 1831 1721 www.kjfaero.com

F: +82 5 1831 1729 jason.park@rokadi.com

Jigs & Fixtures, Mandrels, Tooling

KAI T-50 Golden Eagle

KP Aero Industries Co. Ltd. (South Korea)

50875, 12 Techno Valley-ro, Jinye-myeon, Gimhae-si, Gyeongnam.

T: +82 55 342 5746 www.airkpc.com

F: +82 55 342 5743

Jigs & Fixtures, Tooling

Airbus A220, Boeing 737, Boeing 777, Boeing 787 Dreamliner, Boeing CH-47 Chinook, KAI KF-21 Boramae

KUKA Aero (U.S.A.)

600 Center Drive, Sterling Heights, MI 48312.

T: +1 586 795 2000 www.kuka.com/en-us/industries/

other-industries/aerospace

F: +1 586 978 0429

Tooling

Bell 525 Relentless, Lockheed Martin F-35 Lightning II

See also: Spika

L3Harris (was L3 MAS) (Canada)

10000 Helen-Bristol Street, Montreal Int. Airport, Mirabel, QC J7N 1H3.

T: +1 450 476 4000 www.L3harris.com

F: +1 450 476 4460 info-marketing@l3harris.com

Jigs & Fixtures

Latecoere Aerostructures Canada (was Avcorp Industries Inc.) (Canada)

10025 River Way, Delta, BC V4G 1M7.

T: +1 604 582 6677 x2337 www.latecoere.aero/en/

implantation/delta-canada

F: +1 604 582 2620

Jigs & Fixtures

See also: Latecoere Aerostructures (Avcorp Industries) and Mubea Cyclone Manufacturing Inc. (was Cyclone MFG)

Leader Chuck Systems Ltd. (U.K.)

PO Box 16050, Tamworth B77 9JP.

T: +44 1827 700 000 www.leaderchuck.com

F: +44 1827 707 777 information@leaderchuck.com

Mandrels, Tooling

LMI Aerospace, Inc. (U.S.A.)

411 Fountain Lakes Blvd, Saint Charles, MO 63301.

T: +1 636 946 6525 www.lmiaerospace.com

F: +1 636 949 1576 info@lmiaerospace.com

Tooling

Boeing 737, Boeing 787 Dreamliner

See also: LMI Everett - Merrill Creek

Lomas Engineering Limited (U.K.)

11 Orgreave Place, Handsworth, Sheffield S13 9LU.

T: +44 114 288 9444 www.lomas.co.uk

F: +44 114 288 9894 sales@lomas.co.uk

Engine Tooling, Jigs & Fixtures, Mandrels, Tooling

Lyndex-Nikken Inc. (U.S.A.)

1468 Armour Blvd., Mundelein, IL 60060.

T: +1 847 367 4800 www.lyndexnikken.com

F: +1 847 367 4815 sales@lyndexnikken.com

Tooling

M4 Engineering Inc. (U.S.A.)

4020 Long Beach Blvd #2, Long Beach, CA 90807.

T: +1 562 981 7797 www.m4-engineering.com

info@m4-engineering.com

Tooling

Magnus Aircraft Zrt (Hungary)

Airport 08/8 hrsz, H-7666 Pogány.

T: +36 30 419 4151 www.magnusaircraft.com

info@magnus-aircraft.com

Tooling

Manufax Engineering Ltd. (U.K.)

Cromer St, Stockport, Cheshire SK1 2NP.

T: +44 161 480 2855 www.manufax.co.uk

F: +44 161 474 7159 simon.kelly@nelsontool.co.uk

Jigs & Fixtures, Tooling

Airbus A320, Airbus A350, Airbus A400M

Marand Precision Engineering (Australia)

153 Keys Rd, Moorabbin, VIC 3189.

T: +61 3 8552 0600 www.marand.com.au

F: +61 3 8552 0605 sales@marand.com.au

Tooling

MetLase Ltd (U.K.)

Building 3, AMP Technology Centre, Brunel Way, Catcliffe, Sheffield S60 5WG.

T: +44 1143 830 610 www.metlase.com

sales@metlase.com

Laser Tooling, Tooling

Micado Smart Engineering GmbH (Austria)

Oberlien 66, A-9903 Oberlien.

T: +43 4852 72850 www.micado.at

F: +43 4852 72850 34 office@micado.at

Jigs & Fixtures, Tooling

Midland Aerospace (U.K.)

Castlewood Business Park, Farmwell Lane, Sutton-in-Ashfield, Nottingham NG17 1BX.

T: +44 1772 582 582 www.midlandaerospace.com

info@midlandaerospace.com

Jigs & Fixtures

See also: TextureJet

Momentous Mold and Machine (was Reuther Mold & Manufacturing) (U.S.A.)

1225 Munroe Falls Avenue, Cuyahoga Falls, OH 44221.

T: +1 330 923 5266 www.momentousmold.com

F: +1 330 923 9930 Daveko@momentousmold.com

Tooling

MTD Ltd (Midland Tool & Design) (U.K.)

Barnfield Road, Tipton, West Midlands DY4 9DF.

T: +44 121 520 1171 www.mtdltd.com

sales@mtdltd.co.uk

Tooling

MTorres America (U.S.A.)

905 80th Street SW, Everett, WA 98203.

T: +1 425 984 2700 www.mtorres.es

info@mtorresamerica.com

Tooling

Bell 525 Relentless

MTorres Diseños Industriales (Spain)

Ctra. Pamplona-Huesca Km 9, E-31119 Torres de Elorz, Navarra.

T: +34 94 831 78 11 www.mtorres.com

F: +34 94 831 79 52 info@mtorres.com

Jigs & Fixtures, Laser Tooling, Tooling

Airbus A320, Airbus A330, Airbus A350, Airbus A400M, Boeing 737,

Boeing 777, Boeing 787 Dreamliner, Eurofighter Typhoon

MYC Aeronautica (Montajes y Cableados Aeronauticos) (Spain)

C/ Casto Loarce 10, Getafe, E-28906 Madrid.

T: +34 91 684 60 10 www.myc-aeronautica.com

myc-aeronautica@myc-aeronautica.

com

Jigs & Fixtures, Tooling

Neill Aircraft Co. (U.S.A.)

1260 W. 15th St., Long Beach, CA 90813.

T: +1 562 432 7981 www.neillaircraft.com

F: +1 562 491 0483 sales@neillaircraft.com

Controlled Machinery

Norck GmbH (Germany)

Zielstrasse 16, D-68169 Mannheim.

T: +49 0 621 9783 9094 www.norck.com

Tooling

See also: Baucor and Norck Robotics

North Aircraft Industries (Canada)

322 Neptune Crescent, London, ON N6M 1A1.

T: +1 519 452 0354 www.northaircraft.com

info@northaircraft.com

Jigs & Fixtures, Tooling

Novakinetics Aerosystems, Inc. (U.S.A.)

11950 N HWY 89, Flagstaff, AZ 86004.

T: +1 928 522 8112 www.novakinetics.com

jim@novakinetics.com

Tooling

Okuma Europe GmbH (Germany)

Europark Fichtenhain A20, D-47807 Krefeld.

T: +49 2151 374-0 www.okuma.eu

F: +49 2151 374-100

Controlled Machinery

OMPM srl (Italy)

Via delle Fontane, 5, I-84012 Angri SA.

T: +39 081 513 4211 www.ompm.it

info@ompm.it

Jigs & Fixtures, Tooling

Airbus Helicopters Racer, Boeing 787 Dreamliner, Leonardo AW149

Optomec / Huffman (U.S.A.)

1050 Huffman Way, Clover, SC 29710.

T: +1 803 222 4561 www.optomec.com

sales@optomec.com

Controlled Machinery, Laser Tooling

Paragon D & E (U.S.A.)

5225 33rd St. SE, Grand Rapids, MI 49512.

T: +1 616 949 2220 www.paragonde.com

F: +1 616 949 2536 paragon@paragonde.com

Tooling

Airbus A320, Airbus A350, Bell Boeing V-22 Osprey, Boeing 787 Dreamliner, Boeing CH-47 Chinook, Boeing F/A-18 Super Hornet, COMAC C919, Gulfstream G650, Honda HA-420 HondaJet, Lockheed Martin F-35 Lightning II, Northrop Grumman RQ-4 Global Hawk, Sikorsky CH-53K King Stallion, Sikorsky S-70A Black Hawk, Sikorsky S-97 Raider

Patricomp Oy (Finland)

Lentokonetehdaantie 3, FI-35600 Halli.

T: +358 4 0028 9815 www.patriagroup.com

patricomp.sales@patriagroup.com

Jigs & Fixtures

Patriot Machine, Inc. (U.S.A.)

76 S. Corporate Hills Dr., St. Charles, MO 63301.

T: +1 636 940 8200 www.patriotmachine.com

F: +1 636 940 8933 info@patriotmachine.com

Jigs & Fixtures, Tooling

PDS Engineering (U.S.A.)

12781 Gateway Drive, Tukwila, WA 98168.

T: +1 206 767 2773 www.pdseng.com

F: +1 206 763 4121 sales@pdstech.com

Tooling

PEI, Pinette Emidecau Industrie (France)

5 rue Paul Sabatier, BP 80077, F-71103 Chalon sur Saone Cedex.

T: +33 3 85 47 88 00 www.pinetteemidecau.eu

F: +33 3 85 46 56 47 pei@pinetteemidecau.com

Jigs & Fixtures

PHI (PHI Hydraulics) (U.S.A.)

14955 Salt Lake Ave., City of Industry, CA 91746.

T: +1 626 968 9680 www.phihydraulics.com

phisales@phi hydraulics.com

Tooling

Piper Industrial Manufacturing Company (PIMCO) (U.S.A.)

2926 Piper Drive, Vero Beach, FL 32960.

T: +1 772 299 2700 www.pimco-piper.com

Tooling

Piran Advanced Composites (U.K.)

Unit 16, Barnfields Business Park, St. Issey, Wadebridge, Cornwall PL27 7SE.

T: +44 1841 521011 pirancomposites.com

info@pirancomposites.co.uk

Jigs & Fixtures, Tooling

PMF (Precision Metal Forming) Industries (U.S.A.)

2601 Reach Rd, PO Box 3186, Williamsport, PA 17701.

T: +1 570 323 9944 www.flowformingplus.com

F: +1 570 323 9918 sales@pmfind.com

Tooling

Precise Aerospace Manufacturing, Inc. (U.S.A.)

22951 E. La Palma Ave, Yorba Linda, CA 92887.

T: +1 951 898 0500 www.precisemfg.com

F: +1 951 880 0100 info@precisemfg.com

Tooling

PrecisionX Group: Coining Mfg (U.S.A.)

35 Monhegan Street, Ste 5, Clifton, NJ 07013.

T: +1 973 253 0500 www.coining.com

sales@precisionxmfg.com

Tooling

Prospect Mold & Die Inc. (U.S.A.)

1100 Main St., Cuyahoga Falls, OH 44221.

T: +1 330 929 3311 www.prospectgroup.com

info@prospectgroup.com

Dies, Engine Tooling, Mandrels, Tooling

PZL Swidnik S.A. (Poland)

Aleja Lotnikow Polskich 1, PL-21-045 Swidnik.

T: +48 81 722 68 84 www.pzlswidnik.pl

F: +48 81 446 80 18 swidnik.AW@leonardo.com

Jigs & Fixtures

ATR 42/72, Leonardo AW139

See also: Aviorec Srl

Q5D Technology (U.K.)

Harbour Crescent, Serbert Road, Portishead, Bristol BS20 7 GF.

www.q5d.com

info@q5d.com

Tooling

Quickstep Holdings Limited (Australia)

361 Milperra Road, Bankstown Airport, NSW 2200.

T: +61 2 9774 0300 www.quickstep.com.au

F: +61 2 9771 0256 info@quickstep.com.au

Tooling

See also: Datum Tool Design Ltd.

Radius Aerospace - Hot Springs (U.S.A.)

1923 Central Avenue, Hot Springs, AR 71901.

T: +1 501 321 9325 www.radiusaerospace.com

F: +1 501 321 2859 sales@radiusaerospace.com

Tooling

See also: Radius Aerospace - Fort Worth, Radius Aerospace - Phoenix, Radius Aerospace - Shelbyville, Radius Aerospace UK and Radius Aerospace UK

Rasakti Inc. (Canada)

148, Sylvestre Street, St-Germain, QC J0C 1K0.

T: +1 819 395 1111 www.rasakti.com

Jigs & Fixtures, Tooling

Deutsche Aircraft D328eco

RHH Franks Limited (U.K.)

Gore Road Industrial Estate, New Milton, Hampshire BH25 6SA.

T: +44 1425 614730 www.rhhfranks.co.uk

sales@rhhfranks.co.uk

Tooling

Ring Precision (U.S.A.)

2980 Turner Road, Jamestown, NY 14701.

T: +1 716 484 7131 www.ringprecision.com

sales@ringprecision.com

Tooling

Roctool (France)

Savoie Technolac, BP 80341, Modul R, 34 Allée du Lac

d'Aiguebelette, F-73370 Le Bourget du Lac.

T: +33 4 79 26 27 07 www.roctool.com

hello@roctool.com

Tooling

Roush (U.S.A.)

12447 Levan Road, Livonia, MI 48150.

T: +1 734 779 7000 www.roush.com

Tooling

See also: Gamma Technologies, LLC

Ruiz Aerospace (Canada)

317, boul. St-Elzéar O., Laval, QC H7L 3N5.

T: +1 450 231 2300 www.ruizaero.com

info@ruizaero.com

Tooling

Safran Cabin - Greenpoint (Zodiac Advanced Composites Division) (U.S.A.)

12810 State Avenue, Marysville, WA 98271.

T: +1 360 653 2211 www.safran-cabin.com/structures/

composite-structures-1

F: +1 360 653 2112

Tooling

Sai Links (India) Pvt. Ltd. (India)

L-213 Nimblak Road, MIDC, Ahmednagar, 414 111

Maharashtra.

T: +91 90000 50419 www.sailinksindia.com

rajivgore@gmail.com

Dies, Tooling

Scaled Composites LLC (U.S.A.)

1624 Flight Line, Hangar 78 Airport, Mojave, CA 93501.

T: +1 661 824 4541 www.scaled.com

F: +1 661 824 4174 hello@scaled.com

Tooling

See also: Andair Ltd. and Mace Aviation, LLC

Schnaithmann Maschinenbau GmbH (Germany)

Fellbacher Straße 49, D-73630 Remshalden-Grunbach.

T: +49 7151 9732 0 www.schnaithmann.de

F: +49 7151 9732 190 info@schnaithmann.de

Tooling

SCHUNK (U.S.A.)

211 Kitty Hawk Drive, Morrisville, NC 27560.

T: +1 919 572 2705 www.schunk.com

info@us.schunk.com

Tooling

Schwegler Werkzeugfabrik (Germany)

Robert-Bosch-Straße 7, D-89269 Vöhringen.

T: +49 7306 9608 0 www.schwegler.de

info@schwegler.de

Tooling

Scion Aviation, LLC (U.S.A.)

3693 E County Road 30, Fort Collins, CO 80528.

T: +1 970 207 1721 www.scionaviation.com

sales@scionaviation.com

Jigs & Fixtures, Tooling

Pterodynamics Transwing

Sharon-Cutwell (U.S.A.)

2192 Highway D., Belgium, WI 53004.

T: +1 262 285 7133 www.cutwell.com

sales@cutwell.com

Tooling

Sharp Tooling Solutions (U.S.A.)

70745 Powell Rd, Romeo, MI 48065.

T: +1 586 752 3099 www.sharptoolingsolutions.com

Jigs & Fixtures, Tooling

Lockheed Martin F-35 Lightning II

Shreeram Aerospace and Defence, LLP (India)

Plot No. 2320 / 1B & 2321, Road No. 8F, Gate-2, G.I.D.C.

Metoda, Rajkot, 360 021 Gujarat.

T: +91 90 33182088 www.shreeramaerospace.com

sales@shreeramaerospace.com

Jigs & Fixtures

Siemens Process Industries and Drives (U.S.A.)

390 Kent Avenue, Elk Grove Village, IL 60007.

T: +1 847 640 1595 www.usa.siemens.com

mc.us@siemens.com

Controlled Machinery

Sigma Precision Components UK (U.K.)

Alan Bray Close, Dodwells Bridge Industrial Estate, Hinckley, Leicestershire LE10 3BP.

T: +44 1455 445 500 www.sigma-aero.group

F: +44 1455 445 501 sales@sigma-aero.group

Jigs & Fixtures, Tooling

See also: C&H Precision Finishers Ltd.

Sona SPEED Pvt. Ltd. (India)

Survey No. 79-82, Bidadi Main Road, Hejjala, Hejjala 25th KM,

Bidadi Industrial Area, Ramanagara, 562 109 Karnataka.

T: +91 080 2308 5600 www.sonaspeed.com

info@sonaspeed.com

Tooling

Sonaca España Ayuelas (was Aciturri Aerostructures Ayuelas) (Spain)

Poligono Industrial de Bayas, C/ Ayuelas, Parcela 22,

E-09200 Miranda de Ebro (Burgos).

T: +34 94 705 90 00 www.sonaca.com
comercialaerostructures@sonaca-es.com
 com
Dies, Engine Tooling, Jigs & Fixtures, Tooling
See also: Harcourt Industrial, Inc.

Sonic Manufacturing Corporation (U.S.A.)

950 Lee Street, Elk Grove Village, IL 60007.
 T: +1 847 228 0015 www.sonicmfgcorp.com
 F: +1 847 593 6763 info@sonicmfgcorp.com
Jigs & Fixtures

Stratasys Direct Manufacturing (U.S.A.)

28309 Avenue Crocker, Valencia, CA 91355.
 T: +1 888 311 1017 www.StratasysDirect.com
 F: +1 661 257 9311 info@StratasysDirect.com
Jigs & Fixtures, Mandrels

SW Tooling LTD (U.K.)

4 Meadow Close, Langage Business Park, Plympton, Devon PL7 5EX.
 T: +44 1752 691 470 www.swtooling.co.uk
info@swtooling.co.uk
Tooling

Syensqo (was Solvay) (U.K.)

Wrexham Industrial Estate, Abenbury Way, Wrexham, Clwyd LL13 9UZ.
 T: +44 1978 665 200 www.syensqo.com/en/solutions-market/aerospace
 F: +44 1978 665 222
Mandrels, Tooling
Airbus A350
See also: Premier Autoclave & Oven Solutions

TAL Manufacturing Solutions Ltd (India)

PDO Bldg, Tata Motors Campus, Chinchwad, Pune, 411 033 Maharashtra.
 T: +91 20 66135662
 F: +91 20 66135404
Jigs & Fixtures

TAMADIC Co., Ltd. (Japan)

Tamadic Nagoya Building, 2 Chome-15-25 Marunouchi, 460-0002 Nagoya.
 T: +81 52 209 6711 www.tamadic.co.jp
prir@tamadic.co.jp
Jigs & Fixtures
Joby S4
See also: Tama Technical Core Co., Ltd.

TDM Systems, Inc. (U.S.A.)

1901 N. Roselle Road, Suite 800, Schaumburg, IL 60195.
 T: +1 847 605 1269 www.tdmsystems.com
info@tdmsystems.com
Tooling

TESI (Tecnologie E Servizi Innovativi S.r.l.) (Italy)

Via Annunziata Cassese, ZI Località Terzerie, 84053 Cicerale (SA).
 T: +39 0974 844 004 www.aeronet.it
 F: +39 0974 844 835 info@aeronet.it
Jigs & Fixtures

The L.S. Starrett Co. (U.S.A.)

121 Crescent St., Athol, MA 01331.
 T: +1 978 249 3551 www.starrett.com
 F: +1 978 249 8495 info@starrett.com
Tooling

Threadrive Components (U.K.)

Unit 4B The Gloucesters, Luckyn Lane, Basildon, Essex SS14 3AX.
 T: +44 1268 288 880 www.threadrive.co.uk
 F: +44 1268 288 879 sales@threadrive.co.uk
Tooling

Thrust Aviation Tooling LLC (U.S.A.)

950 Satterfield Rd, Maynardville, TN 37807.
 T: +1 559 977 4274 thrustaviation.co
thrustaviationtooling@gmail.com
Tooling

Touchstone Advanced Composites (U.S.A.)

1142 Middle Creek Road, Triadelphia, WV 26059-1139.
 T: +1 304 907 2220 www.touchstoneac.com
 F: +1 304 547 5802
Jigs & Fixtures, Tooling

Trac Precision Solutions Ltd. (U.K.)

9A Marshfield Bank Business Park, Middlewich Road, Crewe, Cheshire CW2 8UY.
www.tracps.com
info@tracps.com
Tooling

Trinity Forge (U.S.A.)

947 Trinity Drive, Mansfield, TX 76063.
 T: +1 817 473 1515 www.trinityforge.com
 F: +1 817 473 6743 sales@trinityforge.com
Dies, Tooling

Triumph Structures - Everett (U.S.A.)

1415 75th Street SW, Everett, WA 98203-6257.
 T: +1 425 438 7100 www.triumphgroup.com
 F: +1 425 438 7153
Controlled Machinery

Trutron Corporation (U.S.A.)

274 Executive Drive, Troy, MI 48083-4530.
 T: +1 248 583 9166 www.trutron.com
 F: +1 248 583 4750
Dies, Mandrels, Tooling

Turgis Gaillard (Gaillard ASA) (France)

30 Rue du Dr Guérin, F-83210 La Farlède.
www.turgisgaillard.com
contact@tg-groupe.fr
Tooling

Unison Ltd (U.K.)

Faroe House, Thornburgh Road, Scarborough YO11 3UY.
 T: +44 1723 582 868 www.unisonltd.com
sales@unisonltd.com

Tooling
See also: PHI (PHI Hydraulics)

United Machining Mill AG - Liechti (was GF Machining Solutions) (Switzerland)

Kanalweg 4, CH-3550 Langnau.
 T: +41 34 409 35 55 www.gfms.com
liechti@georgfischer.com
Engine Tooling, Laser Tooling, Tooling

Utva Aircraft Industry (Serbia)

Jabucki put 2, 26000 Pancevo.
 T: +381 13 331 310 utva-avio.com
 F: +381 13 319 859 office@utva-avio.com
Jigs & Fixtures
Plaggio P.180 Avanti

VAF Aero Systems Private Limited (was VAF Def-Aero Systems) (India)

Chennappa Chetty Pudur Post, Padhuvampalli Village, Coimbatore, 641 659 Tamil Nadu.
 T: +91 91 50007513 www.vafindia.com
Tooling

Verseng Group (Australia)

6 Oldham Road, Elizabeth Vale, SA 5112.
 T: +61 8 8268 2562 www.verseng.com.au
 F: +61 8 8255 7725 sales@verseng.com.au
Mandrels, Tooling
Lockheed Martin F-35 Lightning II

Visioneering Inc (U.S.A.)

2055 Taylor Road, Auburn Hills, MI 48326.
 T: +1 248 622 5600 vistool.com
 F: +1 586 293 7454 visales@vistool.com
Controlled Machinery, Engine Tooling, Jigs & Fixtures, Mandrels, Tooling

Vivace International Corporation (U.S.A.)

13800 Old Gentilly Road, Building 103-2-H7, New Orleans, LA 70129.
 T: +1 425 223 3747 www.vivace.com
info@vivace.com
Tooling

Volo Composites (Volo Kompozit) (Turkey)

Saray OSB Sabiha Gökçen Bulvarı No. 14 Kazan, TR-06980 Ankara.
 T: +90 850 532 8656 www.volo.com.tr
 F: +90 850 532 8655 info@volo.com.tr
Tooling

Votaw Precision Technologies (U.S.A.)

13153 Lakeland Rd., Santa Fe Springs, CA 90670.
 T: +1 562 944 0661 www.votaw.com
 F: +1 562 944 0675 scott.wallace@votawprecision.com
Tooling

VX Aerospace Corporation (U.S.A.)

2080 Us Hwy 70E, Morganton, NC 28655.
 T: +1 828 433 5353 www.vxaerospace.com
 F: +1 828 433 5663 v.brannigan@VXAerospace.com
Tooling

Western Tool & Mold Limited (Hong Kong SAR)

9 / F, Block B, Yee Lim Industrial Centre, 2-28 Kwai Lok Street, Kwai Chung, N.T., Hong Kong.
 T: +852 3976 0922 wtmlimited.com
 F: +852 2419 0438 info@wtmlimited.com
Jigs & Fixtures

William Lees & Sons Ltd. (U.K.)

2 Rosendale Way, Blantyre, Scotland G72 0NJ.
 T: +44 1698 426 662 www.skinpins.com
 F: +44 1698 429 919 sales@skinpins.com
Tooling

Williams Aerospace & Manufacturing, Inc., an AllClear Company (U.S.A.)

757 Main Street Suite 102, Chula Vista, CA 91911.
 T: +1 619 660 6220 goallclear.com
Tooling

WING d.o.o. (Serbia)

Kosovska 8 st., 11000 Belgrade.
 T: +381 11 303 05 88 www.wing.rs

F: +381 11 303 397 office@wing.rs

Tooling

ZB3 Technologies Ltd *(U.K.)*

Unit 30, 238 London Road, Wickford, Essex SS12 0JX.

T: +44 1268 439 622 www.halosensor.com

info@halosensor.com

Controlled Machinery

Category index:

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

Tooling

Controlled Machinery

Advanced Integration Technology (was Nova-Tech Engineering)
Alphateq Ltd
ASCO Aerospace Canada
Broetje-Automation GmbH
Electro Arc Manufacturing Company
Janicki Industries
Neill Aircraft Co.
Okuma Europe GmbH
Optomec / Huffman
Siemens Process Industries and Drives
Triumph Structures - Everett
Visioneering Inc
ZB3 Technologies Ltd

Dies

Alphateq Ltd
Dormer Pramet
Galaxy Technologies
Hyperion Materials & Technologies
Kamensk Uralsky Metallurgical Works
JSC (KUMZ)
Kinefac Corporation
Prospect Mold & Die Inc.
Sai Links (India) Pvt. Ltd.
Sonaca España Ayuelas (was Aciturri Aerostructures Ayuelas)
Trinity Forge
Trutron Corporation

Engine Tooling

Ascent Aerospace North America
Habco Industries
Innomech Aerospace Toolings Private Limited
Lomas Engineering Limited
Prospect Mold & Die Inc.
Sonaca España Ayuelas (was Aciturri Aerostructures Ayuelas)
United Machining Mill AG - Liechti (was GF Machining Solutions)
Visioneering Inc

Jigs & Fixtures

Accurus Aerospace Wichita
Additive Engineering Solutions (AES)
Advanced Integration Technology (was Nova-Tech Engineering)
Advanced Integration Technology, Inc.
Aero Vodochody Aerospace a.s.
Aerospace Composites Solutions (was Blackhawk Composites)
Aertec
AFormX
Aircraft Industries a.s.
Alp Aviation
Alpex Technologies GmbH
Alphateq Ltd
Aritex Cading SA
Ascent Aerospace North America
ATS Applied Tech Systems Ltd.
Bertrandt Ingenieurbüro GmbH
Boldman Limited
Broetje-Automation GmbH
Carbon Design s.r.o
Cloudwave Technologies
Comau Aerospace

Composite Approach
Crestview Aerospace
Cyient DLM
DEMA SpA
Dynamatic-Oldland Aerospace
EDS Engineering Ltd
Electroimpact
Electroimpact UK Ltd
ENL Performance
Erodex Tooling Solutions (was BWP Technical Services)
EXAIL Aerospace
Expleo
Fichtner & Schicht GmbH
FIXar
Formaplex Limited
GA PrecisionTech Europe GmbH
Galaxy Technologies
Guanglian Aviation Industry Co. Ltd.
Harcourt Industrial, Inc.
Heggemann AG
IAR S.A. Brasov
Jaivel Aerospace
Janicki Industries
Jeh Aerospace
Kaelin Aero Technologies GmbH
Kanfit Ltd

Korea Jig and Fixture (KJF) - ROKADI
KP Aero Industries Co. Ltd.
L3Harris (was L3 MAS)
Latecoere Aerostructures Canada (was Avcorp Industries Inc.)
Lomas Engineering Limited
Manufax Engineering Ltd.
Micado Smart Engineering GmbH
Midland Aerospace
MTorres Diseños Industriales
MYC Aeronautica (Montajes y Cableados Aeronauticos)
North Aircraft Industries
OMPM srl
Patricomp Oy
Patriot Machine, Inc.
PEI, Pinette Emidecau Industrie
Piran Advanced Composites
PZL Swidnik S.A.
Rasakti Inc.
Scion Aviation, LLC
Sharp Tooling Solutions
Shreeram Aerospace and Defence, LLP
Sigma Precision Components UK
Sonaca España Ayuelas (was Aciturri Aerostructures Ayuelas)
Sonic Manufacturing Corporation
Stratasys Direct Manufacturing
TAL Manufacturing Solutions Ltd
TAMADIC Co., Ltd.
TESI (Technologie E Servizi Innovativi S.r.l.)
Touchstone Advanced Composites
Utva Aircraft Industry
Visioneering Inc
Western Tool & Mold Limited

Laser Tooling

Advanced Integration Technology (was Nova-Tech Engineering)
EOS Electro Optical Systems Ltd
MetLase Ltd
MTorres Diseños Industriales
Optomec / Huffman
United Machining Mill AG - Liechti (was GF Machining Solutions)

Mandrels

Advanced Integration Technology (was Nova-Tech Engineering)
Advanced Integration Technology, Inc.
Aerospace Dynamics International
Ascent Aerospace North America

Duqueine Group
Galaxy Technologies
Korea Jig and Fixture (KJF) - ROKADI
Leader Chuck Systems Ltd.
Lomas Engineering Limited
Prospect Mold & Die Inc.
Stratasys Direct Manufacturing
Syensqo (was Solvay)
Trutron Corporation
Verseng Group
Visioneering Inc

Tooling

AA Gage (was A.G. Davis - AA Gage)
Accurus Aerospace Wichita
Additive Engineering Solutions (AES)
Advanced Ground Systems Engineering Corp
Advanced Integration Technology (was Nova-Tech Engineering)
Advanced Integration Technology, Inc.
Aequs Limited - Aequs SEZ (Belagavi Aerospace Cluster)
Aerodine Composites
AeroFab NDT
Aerospace Dynamics International
Aerotecnic
Aertec
AFormX
AGA Precision Systems LLC
Aircraft Industries a.s.
Airmo Inc. Pressure Technologies
Aksa Composites (was Epsilon Composites)
Allied Machine & Engineering
Alpex Technologies GmbH
American Casting Company, LLC
Anduril Industries (was Blue Force Technologies)
APR Srl
Aritex Cading SA
Ascent Aerospace North America
Ascent Europe
ATS Systems
AW Bell Pty Ltd
Axoflex Turbine Tooling
BCW Group
Ben Machine
BIG DAISHOWA Inc. (was BIG Kaiser Precision Tooling Inc.)
Boldman Limited
Bouma Company
Bradley-Thompson Tool Company
Briney Tooling Systems
Broetje-Automation GmbH
C. & E. FEIN GmbH
Carter Manufacturing Ltd
CIMtech Green Energy Mfg.Inc.
Cloudwave Technologies
Comau Aerospace
Composite Approach
Composites Universal Group
Crafts Technology
Craig Tools International Ltd.
Crawford Composites, LLC
Cyient DLM
Dayton T. Brown, Inc.
Deharde GmbH
Dormer Pramet
Dutch-Shape BV
Dwen Airmotive NZ Ltd
earthnaerospace Co. Ltd.
Echo Design & Integration
EDAG aeromotive GmbH
EFW Elbe Flugzeugwerke
Elaire Corporation
Electroimpact
Electroimpact UK Ltd
Electronics Metal Finishing Corp.

Element Six Limited
Elsa Industry
ENL Group
ENL Performance
Expleo
Farwest Aircraft Inc.
Fichtner & Schicht GmbH
Fictiv
FiXar
Fleet Canada Inc.
Formaplex Limited
GA PrecisionTech Europe GmbH
Galaxy Technologies
Gardner Aerospace
General Plastics Manufacturing Co.
Graphite Sales Inc. (GSI)
Green Country Aircraft (GCA)
Guanglian Aviation Industry Co. Ltd.
Habco Industries
Hanwha Aerospace USA, Engineered Solutions
Hi-Performance Products, Inc.
HizeAero
HTT (High Tech Tools) - Centro Affilatura
Hydro Systems USA Inc.
Indaero (was Indaero Tecnigrab)
Industria Especializada En Aeronautica SA (INESPASA)
Innomech Aerospace Toolings Private Limited
Innova Engineered Plastics (formerly ThermoFab)
Jaivel Aerospace
James Tool Machining & Engineering, Inc.
Janicki Industries
Kaelin Aero Technologies GmbH
Kanfit Ltd
Karman Space & Defense (AMRO)
Kendu, S. Coop.
KIHOMAC
KMM Group, Ltd.
Korea Jig and Fixture (KJF) - ROKADI
KP Aero Industries Co. Ltd.
KUKA Aero
Leader Chuck Systems Ltd.
LMI Aerospace, Inc.
Lomas Engineering Limited
Lyndex-Nikken Inc.
M4 Engineering Inc.
Magnus Aircraft Zrt
Manufax Engineering Ltd.
Marand Precision Engineering
MetLase Ltd
Micado Smart Engineering GmbH
Momentous Mold and Machine (was Reuther Mold & Manufacturing)
MTD Ltd (Midland Tool & Design)
MTorres America
MTorres Diseños Industriales
MYC Aeronautica (Montajes y Cableados Aeronauticos)
Norck GmbH
North Aircraft Industries
Novakinetics Aerosystems, Inc.
OMPM srl
Paragon D & E
Patriot Machine, Inc.
PDS Engineering
PHI (PHI Hydraulics)
Piper Industrial Manufacturing Company (PIMCO)
Piran Advanced Composites
PMF (Precision Metal Forming) Industries
Precise Aerospace Manufacturing, Inc.
PrecisionX Group: Coining Mfg
Prospect Mold & Die Inc.

QSD Technology
Quickstep Holdings Limited
Radius Aerospace - Hot Springs
Rasakti Inc.
RHH Franks Limited
Ring Precision
Roctool
Roush
Ruiz Aerospace
Safran Cabin - Greenpoint (Zodiac Advanced Composites Division)
Sai Links (India) Pvt. Ltd.
Scaled Composites LLC
Schnaithmann Maschinenbau GmbH
SCHUNK
Schwegler Werkzeugfabrik
Scion Aviation, LLC
Sharon-Cutwell
Sharp Tooling Solutions
Sigma Precision Components UK
Sona SPEED Pvt. Ltd.
Sonaca España Ayuelas (was Aciturri Aerostructures Ayuelas)
SW Tooling LTD
Syensqo (was Solvay)
TDM Systems, Inc.
The L.S. Starrett Co.
Threadrive Components
Thrust Aviation Tooling LLC
Touchstone Advanced Composites
Trac Precision Solutions Ltd.
Trinity Forge
Trutron Corporation
Turgis Gaillard (Gaillard ASA)
Unison Ltd
United Machining Mill AG - Liechti (was GF Machining Solutions)
VAF Aero Systems Private Limited (was VAF Def-Aero Systems)
Verseng Group
Visioneering Inc
Vivace International Corporation
Volo Composites (Volo Kompozit)
Votaw Precision Technologies
VX Aerospace Corporation
William Lees & Sons Ltd.
Williams Aerospace & Manufacturing, Inc., an AllClear Company
WING d.o.o.

Country index:

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

Australia

AW Bell Pty Ltd
Marand Precision Engineering
Quickstep Holdings Limited
Verseng Group

Austria

Alpex Technologies GmbH
Micado Smart Engineering GmbH

Belgium

Fixar

Canada

ASCO Aerospace Canada
Ben Machine
CIMtech Green Energy Mfg.Inc.
Fleet Canada Inc.
L3Harris (was L3 MAS)
Latecoere Aerostructures Canada (was Avcorp Industries Inc.)
North Aircraft Industries
Rasakti Inc.
Ruiz Aerospace

China

Guanglian Aviation Industry Co. Ltd.

Czech Republic

Aero Vodochody Aerospace a.s.
Aircraft Industries a.s.
Carbon Design s.r.o

Finland

Patricomp Oy

France

Ascent Europe
Bouma Company
Duqueine Group
EXAIL Aerospace
PEI, Pinette Emidecau Industrie
Roctool
Turgis Gaillard (Gaillard ASA)

Germany

Bertrandt Ingenieurbüro GmbH
Broetje-Automation GmbH
C. & E. FEIN GmbH
Deharde GmbH
EDAG aeromotive GmbH
EFW Elbe Flugzeugwerke
Fichtner & Schicht GmbH
GA PrecisionTech Europe GmbH
Heggemann AG
Kaelin Aero Technologies GmbH
Norck GmbH
Okuma Europe GmbH
Schnaithmann Maschinenbau GmbH
Schwegler Werkzeugfabrik

Hong Kong SAR

Western Tool & Mold Limited

Hungary

Magnus Aircraft Zrt

India

Aequs Limited - Aequs SEZ (Belagavi Aerospace Cluster)
Cloudwave Technologies
Cyient DLM

Innomech Aerospace Toolings Private Limited
Jeh Aerospace
Sai Links (India) Pvt. Ltd.
Shreeram Aerospace and Defence, LLP
Sona SPEED Pvt. Ltd.
TAL Manufacturing Solutions Ltd
VAF Aero Systems Private Limited (was VAF Def-Aero Systems)

Israel

Kanfit Ltd

Italy

APR Srl
DEMA SpA
HTT (High Tech Tools) - Centro Affiliatura OMPM srl
TESI (Tecnologie E Servizi Innovativi S.r.l.)

Japan

TAMADIC Co., Ltd.

Netherlands

Axxiflex Turbine Tooling
Dutch-Shape BV

New Zealand

Dwen Airmotive NZ Ltd

Poland

PZL Swidnik S.A.

Republic of Ireland

Element Six Limited

Romania

Elsa Industry
IAR S.A. Brasov

Russia

Kamensk Uralsky Metallurgical Works JSC (KUMZ)

Serbia

Utva Aircraft Industry
WING d.o.o.

Slovenia

AFormX

South Korea

earthnaerospace Co. Ltd.
HizeAero
Korea Jig and Fixture (KJF) - ROKADI
KP Aero Industries Co. Ltd.

Spain

Aerotecnica
Aertec
Aritex Cading SA
Indaero (was Indaero Tecnigrab)
Industria Especializada En Aeronautica SA (INESPASA)
Kendu, S. Coop.
MTorres Diseños Industriales
MYC Aeronautica (Montajes y Cableados Aeronauticos)
Sonaca España Ayuelas (was Aciturri Aerostructures Ayuelas)

Switzerland

United Machining Mill AG - Liechti (was GF Machining Solutions)

Turkey

Aksa Composites (was Epsilon Composites)
Alp Aviation
Volo Composites (Volo Kompozit)

U.K.

Alphateq Ltd
ATS Applied Tech Systems Ltd.
BCW Group
Boldman Limited
Carter Manufacturing Ltd

Craig Tools International Ltd.
Dormer Pramet
Dynamatic-Oldland Aerospace
EDS Engineering Ltd
Electroimpact UK Ltd
ENL Group
ENL Performance
EOS Electro Optical Systems Ltd
Erodex Tooling Solutions (was BWP Technical Services)
Expleo
Formaplex Limited
Gardner Aerospace
Jaivel Aerospace
Leader Chuck Systems Ltd.
Lomas Engineering Limited
Manufax Engineering Ltd.
MetLase Ltd
Midland Aerospace
MTD Ltd (Midland Tool & Design)
Piran Advanced Composites
Q5D Technology
RHH Franks Limited
Sigma Precision Components UK
SW Tooling LTD
Syensqo (was Solvay)
Threadrive Components
Trac Precision Solutions Ltd.
Unison Ltd
William Lees & Sons Ltd.
ZB3 Technologies Ltd

U.S.A.

AA Gage (was A.G. Davis - AA Gage)
Accurus Aerospace Wichita
Additive Engineering Solutions (AES)
Advanced Ground Systems Engineering Corp
Advanced Integration Technology (was Nova-Tech Engineering)
Advanced Integration Technology, Inc.
Aerodine Composites
AeroFab NDT
Aerospace Composites Solutions (was Blackhawk Composites)
Aerospace Dynamics International
AGA Precision Systems LLC
Airmo Inc. Pressure Technologies
Allied Machine & Engineering
American Casting Company, LLC
Anduril Industries (was Blue Force Technologies)
Ascent Aerospace North America
ATS Systems
BIG DAISHOWA Inc. (was BIG Kaiser Precision Tooling Inc.)
Bradley-Thompson Tool Company
Briney Tooling Systems
Comau Aerospace
Composite Approach
Composites Universal Group
Crafts Technology
Crawford Composites, LLC
Crestview Aerospace
Dayton T. Brown, Inc.
Echo Design & Integration
Elair Corporation
Electro Arc Manufacturing Company
Electroimpact
Electronics Metal Finishing Corp.
Farwest Aircraft Inc.
Fictiv
Galaxy Technologies
General Plastics Manufacturing Co.
Graphite Sales Inc. (GSI)
Green Country Aircraft (GCA)
Habco Industries
Hanwha Aerospace USA, Engineered Solutions
Harcourt Industrial, Inc.
Hi-Performance Products, Inc.
Hydro Systems USA Inc.
Hyperion Materials & Technologies
Innova Engineered Plastics (formerly ThermoFab)
James Tool Machining & Engineering, Inc.
Janicki Industries
Karman Space & Defense (AMRO)
KIHOMAC
Kinefac Corporation
KMM Group, Ltd.
KUKA Aero
LMI Aerospace, Inc.
Lyndex-Nikken Inc.
M4 Engineering Inc.
Momentous Mold and Machine (was Reuther Mold & Manufacturing)
MTorres America
Neill Aircraft Co.
Novakinetics Aerosystems, Inc.
Optomec / Huffman
Paragon D & E
Patriot Machine, Inc.
PDS Engineering
PHI (PHI Hydraulics)
Piper Industrial Manufacturing Company (PIMCO)
PMF (Precision Metal Forming) Industries
Precise Aerospace Manufacturing, Inc.
PrecisionX Group: Coining Mfg
Prospect Mold & Die Inc.
Radius Aerospace - Hot Springs
Ring Precision
Roush
Safran Cabin - Greenpoint (Zodiac Advanced Composites Division)
Scaled Composites LLC
SCHUNK
Scion Aviation, LLC
Sharon-Cutwell
Sharp Tooling Solutions
Siemens Process Industries and Drives
Sonic Manufacturing Corporation
Stratasys Direct Manufacturing
TDM Systems, Inc.
The L.S. Starrett Co.
Thrust Aviation Tooling LLC
Touchstone Advanced Composites
Trinity Forge
Triumph Structures - Everett
Trutron Corporation
Vioneering Inc
Vivace International Corporation
Votaw Precision Technologies
VX Aerospace Corporation
Williams Aerospace & Manufacturing, Inc., an AllClear Company

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 Tooling 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

BETA ALIA

Advanced Integration Technology, Inc. - Tooling/Automated equipment and precision tooling for primary structure assembly

HopFlyt Venturi

Aerodine Composites - Tooling

Joby S4

TAMADIC Co., Ltd. - Jigs & Fixtures/Final assembly tool to lower main wing during assembly

Pterodynamics Transwing

Scion Aviation, LLC - Tooling. - Jigs & Fixtures

Samson Switchblade

Composite Approach - Tooling

Piston

Junkers A50 Junior

Kaelin Aero Technologies GmbH - Tooling/Produced forming tools, - Jigs & Fixtures/Developed & manufactured jigs & fixtures for assembly

Samson Switchblade

Composite Approach - Tooling

Turbofan

Airbus A220

Advanced Integration Technology (was Nova-Tech Engineering) - Jigs & Fixtures/Wing rigging fixtures (Spirit AeroSystems Belfast)
Advanced Integration Technology, Inc. - Tooling/Final assembly line tooling
Electroimpact - Jigs & Fixtures/Assembly jigs for composite wing (to Spirit AeroSystems Belfast)
KP Aero Industries Co. Ltd. - Jigs & Fixtures/Assembly jig

Airbus A320

Advanced Integration Technology (was Nova-Tech Engineering) - Jigs & Fixtures/Equipment to move and position aircraft components, align and join fuselage sections, and align and join wings to the fuselage
Aero Vodochody Aerospace a.s. - Jigs & Fixtures/Transportation jigs for thrust reversing apparatus
Comau Aerospace - Jigs & Fixtures/Jigs & tooling for final assembly line
MTorres Diseños Industriales - Laser Tooling/Laser scribes with flexible tooling
Paragon D & E - Tooling

Airbus A330

Aero Vodochody Aerospace a.s. - Jigs & Fixtures/Transport jigs
Ascent Europe - Tooling/Final assembly station
Electroimpact - Jigs & Fixtures/Wing panel assembly cell
Indaero (was Indaero Tecnigrab) - Tooling
Manufax Engineering Ltd. - Jigs & Fixtures/Assembly fixtures
MTorres Diseños Industriales - Laser Tooling/Laser scribes with flexible tooling

Airbus A350

Alpex Technologies GmbH - Tooling/Inboard & outboard flap tooling, - Jigs & Fixtures/Milling fixtures & assembly jigs; mounting and milling jig for CFRP pressure bulkhead with vacuum clamping system
Ascent Aerospace North America - Tooling/Fuselage frame tools (for ATK); fuselage mould tooling (for Spirit), - Jigs & Fixtures/Assembly jigs (for ATK), - Jigs & Fixtures/Assembly fixtures (for ATK)
Electroimpact - Tooling/Outer wing box
Fixar - Jigs & Fixtures/Assembly jig - Flap track fairing; Measuring fixture - Fixed fairing
Manufax Engineering Ltd. - Tooling/Wing leading edge & rear spar tooling

MTorres Diseños Industriales - Laser Tooling/Laser scribes with flexible tooling
Paragon D & E - Tooling
Syensqo (was Solvay) - Tooling/Large-scale tooling mandrels (for GKN)

Boeing 737

Advanced Integration Technology (was Nova-Tech Engineering) - Jigs & Fixtures/Wing to fuse join jigs, - Tooling/Wing to body join alignment tooling; wing assembly tooling
KP Aero Industries Co. Ltd. - Jigs & Fixtures/Assembly jig
LMI Aerospace, Inc. - Tooling/Tooling for assembly line
MTorres Diseños Industriales - Laser Tooling/Laser scribes with flexible tooling

Boeing 767

Electronics Metal Finishing Corp. - Tooling/Autoclave tooling

Boeing 777

Advanced Integration Technology (was Nova-Tech Engineering) - Jigs & Fixtures/Moving line FAL AGV's jigs; fuselage interior lift jig, - Jigs & Fixtures/Aircraft assembly jig automation & controls upgrade
Ascent Aerospace North America - Jigs & Fixtures/Assembly fixtures (for LMI), - Tooling/Wing skin moulds for 777X
KP Aero Industries Co. Ltd. - Jigs & Fixtures/Assembly jig
MTorres Diseños Industriales - Laser Tooling/Laser scribes with flexible tooling

Boeing 787 Dreamliner

Advanced Integration Technology (was Nova-Tech Engineering) - Jigs & Fixtures/Fuselage rotation fixture; composite fuselage mandrel fixture (for Spirit), - Jigs & Fixtures/Composite fuselage transportation fixtures, - Tooling/Production tooling
Advanced Integration Technology, Inc. - Mandrels/Section 41 mandrel assembly & disassembly systems for Spirit AeroSystems
Alpex Technologies GmbH - Jigs & Fixtures/Milling jig for CFRP pressure bulkhead with vacuum clamping system
Ascent Aerospace North America - Tooling/Wing & passenger door mould tools, - Mandrels/Fibre placement mandrels for fuselage and wing (for Coast Composites), - Tooling/Form tools & spacer plates (for Composites Atlantic), - Jigs & Fixtures/Assembly fixtures (for Spirit & Vought), - Jigs & Fixtures/Assembly jigs
Dutch-Shape BV - Tooling/Lay-up & trim tools
earthnaerospace Co. Ltd. - Tooling/APU door skin forming tool production
General Plastics Manufacturing Co. - Tooling/Composite-frame tooling components
Jaivel Aerospace - Tooling/Tooling for aircraft cooling system
Janicki Industries - Jigs & Fixtures/Composite tools & fixtures
KP Aero Industries Co. Ltd. - Tooling
LMI Aerospace, Inc. - Tooling/Tooling & components for wing section
MTorres Diseños Industriales - Laser Tooling/Laser scribes with flexible tooling, - Jigs & Fixtures/Automated assembly jigs
OMPM srl - Tooling/Bolding tooling
Paragon D & E - Tooling

Boeing F/A-18 Super Hornet

Ascent Aerospace North America - Jigs & Fixtures/Bonding fixtures
Paragon D & E - Tooling

Bombardier Global series

Ascent Aerospace North America - Tooling/Turnkey tooling for wing manufacture (to Triumph-Vought)

Boom Overture

Advanced Integration Technology, Inc. - Tooling/Tooling for final assembly line

COMAC C919

Guanglian Aviation Industry Co. Ltd. - Tooling
Paragon D & E - Tooling

COMAC C929

Guanglian Aviation Industry Co. Ltd. - Tooling

Embraer E-Jet 170/190 series

Advanced Integration Technology (was Nova-Tech Engineering) - Tooling/Wing assembly tooling

Embraer Praetor 500/600

Advanced Integration Technology (was Nova-Tech Engineering) - Jigs & Fixtures/Wing to fuse join jig; door assembly fixtures

Eurofighter Typhoon

MTorres Diseños Industriales - Laser Tooling/Laser scribes with flexible tooling, - Jigs & Fixtures/Assembly jigs

Gulfstream G650

Advanced Integration Technology (was Nova-Tech Engineering) - Jigs & Fixtures/Wing assembly fixtures; wing assembly jig platforms (for Spirit)
Ascent Aerospace North America - Jigs & Fixtures/Horizontal stabilizer assembly fixtures
Dutch-Shape BV - Tooling/Complete tooling for composite tail

Fixar - Jigs & Fixtures/Transport fixture for tail plane
Paragon D & E - Tooling

Honda HA-420 Hondajet

Advanced Integration Technology (was Nova-Tech Engineering) - Jigs & Fixtures/Wing to fuse join jig, - Jigs & Fixtures/Wing to body tooling fixture
Paragon D & E - Tooling

KAI KF-21 Boramee

KP Aero Industries Co. Ltd. - Tooling/Structural test, and main wing assembly tooling

KAI T-50 Golden Eagle

Korea Jig and Fixture (KJF) - ROKADI - Jigs & Fixtures/Test fixtures, - Tooling/Assembly tooling

Lockheed Martin F-16 Fighting Falcon

Kanfit Ltd - Tooling/Tools

Lockheed Martin F-35 Lightning II

Advanced Integration Technology (was Nova-Tech Engineering) - Tooling/Aft fuselage pulse line (for BAE)
Ascent Aerospace North America - Jigs & Fixtures/Assembly jigs & tools (for Northrop), - Tooling/Composite tooling (for Northrop, ATK & Hitco)
Axiflex Turbine Tooling - Tooling/Turbine tooling
Boldman Limited - Tooling/Modular tooling system
Dutch-Shape BV - Tooling/Lay-up & trim tools
Janicki Industries - Jigs & Fixtures/Wing structure vacuum holding fixture
KUKA Aero - Tooling/Integrated assembly line
Paragon D & E - Tooling
Sharp Tooling Solutions - Tooling/Tooling solutions
Verseng Group - Mandrels/Tooling mandrels for engine bypass duct of F136 engine, - Tooling/Rate tooling, including composite cure and trim tooling, assembly tools and various accessory tools.

Natilus Kona / Horizon

Janicki Industries - Tooling/Composite part design and fabrication

Northrop Grumman RQ-4 Global Hawk

Paragon D & E - Tooling

Otto Phantom 3500

Advanced Integration Technology, Inc. - Tooling/Advanced positioning and metrology tools

Stratos 716

Composite Approach - Tooling/Temporary tooling for elevators, ailerons and inlet ducting

Sukhoi SuperJet 100 (SSJ)

earthnaerospace Co. Ltd. - Tooling/Passenger/cargo door assembly tool production

Turbojet

Boom Overture

Advanced Integration Technology, Inc. - Tooling/Tooling for final assembly line

Turboprop

Airbus A400M

Dutch-Shape BV - Tooling/Complete tooling for skin & wing section
Electroimpact - Tooling/Aircraft tooling and manufacture
Indaero (was Indaero Tecnigrab) - Tooling
Manufax Engineering Ltd. - Tooling/Mould tools and vacuum holding fixtures for flap & aileron component skins, - Jigs & Fixtures/Partial wing build fixture
MTorres Diseños Industriales - Laser Tooling/Laser scribes with flexible tooling

Airbus C295

Indaero (was Indaero Tecnigrab) - Tooling

ATR 42/72

PZL Swidnik S.A. - Jigs & Fixtures/Assembly jigs

Deutsche Aircraft D328eco

Rasakti Inc. - Tooling

KAI KT-1 Woong Bee

earthnaerospace Co. Ltd. - Tooling/Large bulk head fabrication tool production

Natilus Kona / Horizon

Janicki Industries - Tooling/Composite part design and fabrication

Piaggio P.180 Avanti

Uva Aircraft Industry - Jigs & Fixtures/Marry-up jig at final assembly stage

Turboshaft

Airbus Helicopters H145

Alpex Technologies GmbH - Jigs & Fixtures/Assembly jig for helicopter tail boom

Bell 525 Relentless

KUKA Aero - Tooling/Major structure tooling
MTorres America - Tooling/Rotor & drive tooling

Bell Boeing V-22 Osprey

Ascent Aerospace North America - Tooling/Composite tooling (for Boeing)
Paragon D & E - Tooling

Boeing AH-64 Apache

Ascent Aerospace North America - Tooling/Composite lay-up tools

Boeing CH-47 Chinook

KP Aero Industries Co. Ltd. - Jigs & Fixtures/Assembly jigs
Paragon D & E - Tooling

KAI KUH-1 Surion Korean Utility Helicopter

earthnaerospace Co. Ltd. - Tooling/Flight control system assembly tool

Leonardo AW139

PZL Swidnik S.A. - Jigs & Fixtures/jigs & tooling

Leonardo AW149

OMPM srl - Jigs & Fixtures/Upper deck assembly jig

Sikorsky CH-53K King Stallion

Ascent Aerospace North America - Jigs & Fixtures/Assembly jigs (for Aurora), - Jigs & Fixtures/Assembly fixtures (for ITT Defense & Spirit), - Jigs & Fixtures/Assembly jigs (for ITT & Sikorsky), - Tooling/Composite tooling (for GKN); engine fairing tools (for Aurora)
Paragon D & E - Tooling

Sikorsky S-70A Black Hawk

Ascent Aerospace North America - Jigs & Fixtures/Assembly jigs (H-60 variant)
Paragon D & E - Tooling

Sikorsky S-97 Raider

Paragon D & E - Tooling

Hybrid

HopFlyt Venturi

Aerodine Composites - Tooling

Pterodynamics Transwing

Scion Aviation, LLC - Tooling, - Jigs & Fixtures

Samson Switchblade

Composite Approach - Tooling

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