



## Tooling

A comprehensive cross-reference of

**212 companies**

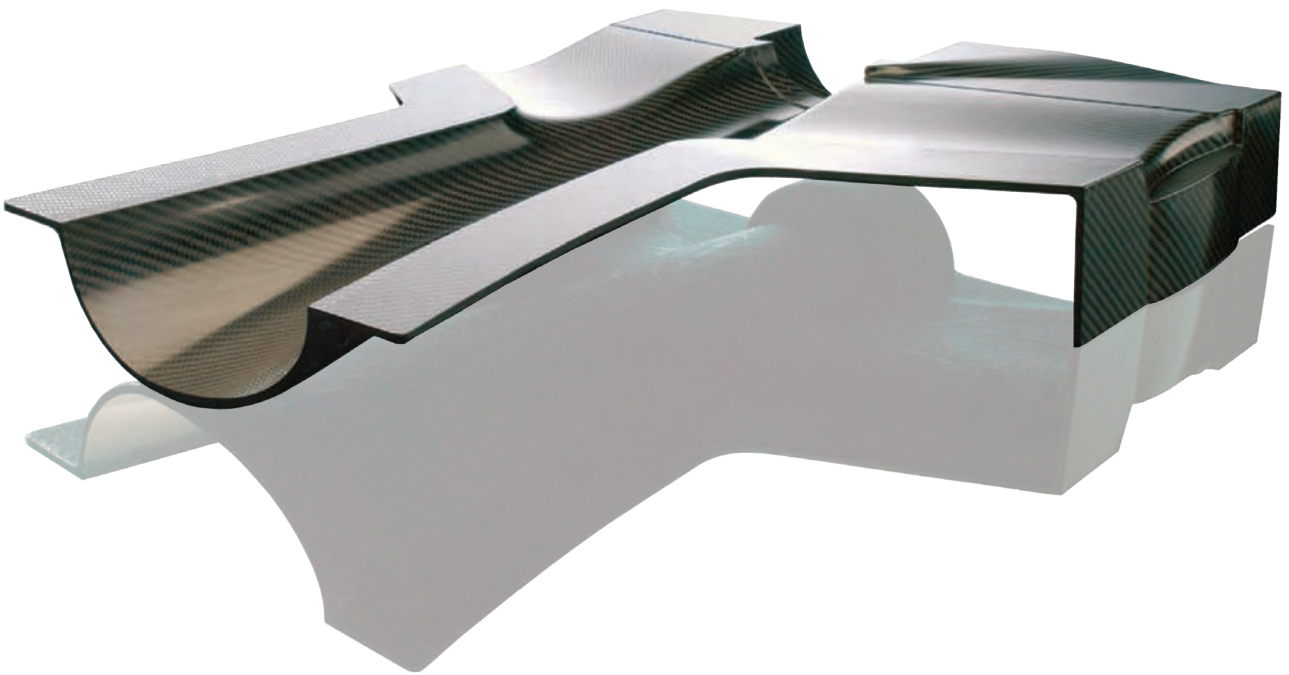
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# AIRFRAMER *index*

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This Airframer Index is one of a series of daily-updated documents available to subscribers at the Airframer web site.

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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.

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Lightning II

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Sarl

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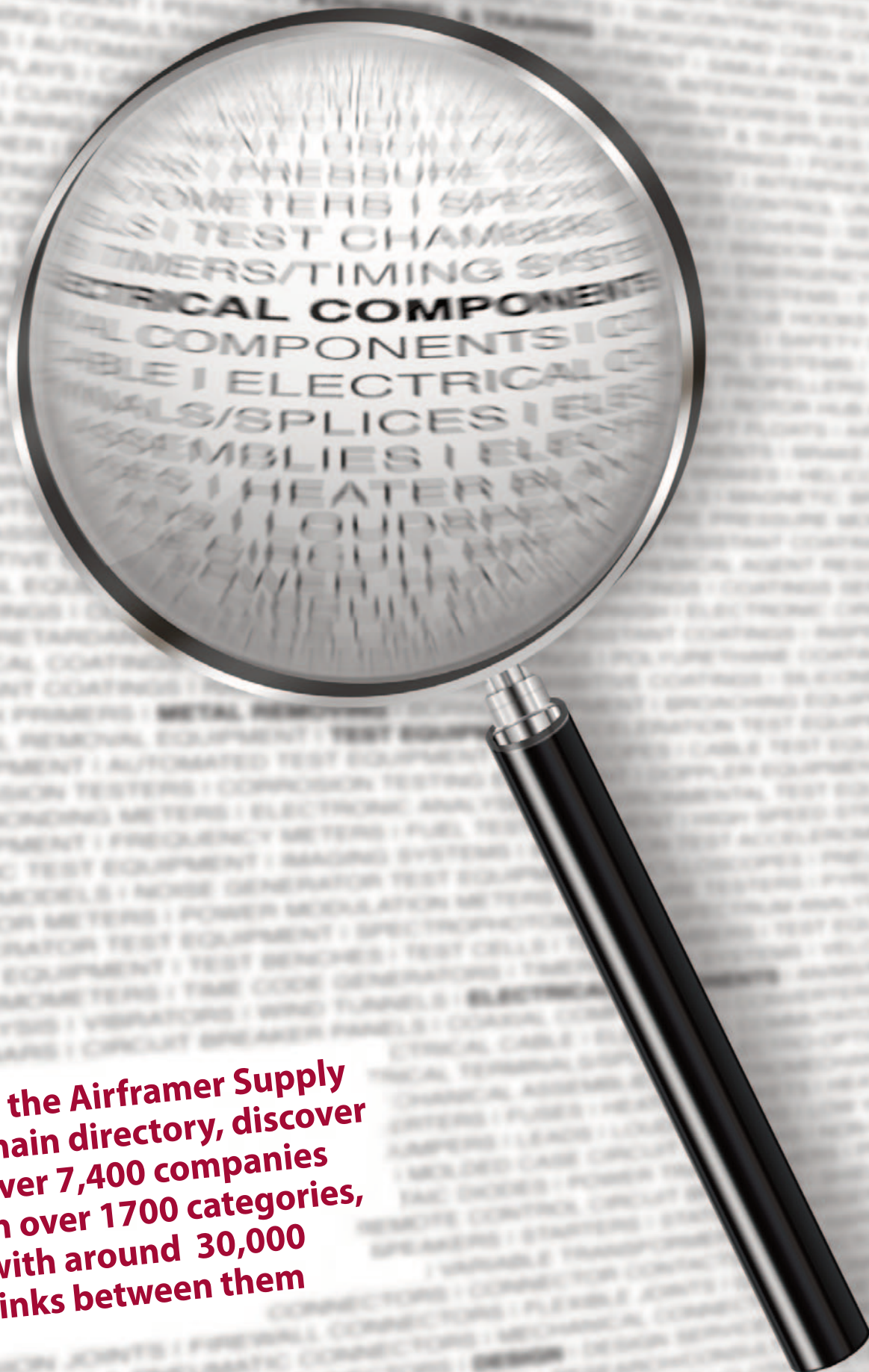
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**HizeAero (South Korea)**

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

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info@hufschmied.net

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T: +40 26 847 51 07 www.iar.ro  
F: +40 26 847 69 81 office@iar.ro  
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F: +34 95 431 73 15 comercial@indaero.com  
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**INM Partner Kft** (Hungary)

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info@inmpartner.hu  
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Tooling

See also: Icon Aerospace Technology (was Icon Polymer Group), MAST Technologies, Northern Engineering Sheffield (NES), Rubbercraft Corp., Seal Science Inc. and Swift Textile Metalizing

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

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T: +1 888 203 4437 www.kanfit.com  
F: +972 4 616 9380 shachar@kanfit.com

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1600 Technology Way, Latrobe, PA 15650.  
T: +1 724 539 4041 www.kennametal.com  
william.alexander@kennametal.com

Tooling

See also: Kennametal Stellite Inc. and Kennametal UK Ltd

**Kennametal UK Ltd** (U.K.)

PO Box 29, The Pensnett Estate, Kingswinford DY6 7NP.  
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F: +44 1384 408 015 kingswinford.service@kennametal.com

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**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  
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14, Noksansandan 261-ro 59beon-gil, Gangseo-gu, 467-53 Busan.  
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F: +82 5 1831 1729 jason.park@rokadi.com  
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F: +1 450 476 4460 info-marketing@l3harris.com  
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F: +1 407 804 1002 fiberlaser@laserphotonics.com  
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F: +44 1827 707 777 information@leaderchuck.com  
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See also: LMI Everett - Merrill Creek

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T: +1 802 886 4644 www.lucasindustries.com  
F: +1 802 886 4995 general@lucasindustries.com  
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Airport 08/8 hrsz, H-7666 Pogany.  
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Cromer St, Stockport, Cheshire SK1 2NP.  
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info@prospectgroup.com  
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Aleja Lotnikow Polskich 1, PL-21-045 Swidnik.  
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 F: +48 81 446 80 18 swidnik.AW@leonardocompany.com

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www.q5d.com  
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1048 King industrial Drive, Marietta, GA 30062.

T: +1 770 429 8157 www.qat.aero  
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 F: +61 2 9771 0256 info@quickstep.com.au

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T: +1 501 321 9325 www.radiusaerospace.com  
 F: +1 501 321 2859 sales@radiusaerospace.com

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170 Pane Rd., Newington, CT 06111.

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 F: +1 330 923 9930 Johnb@reuther mold.com

*Tooling***Roctool** (France)

Savoie Technolac, BP 80341, Modul R, 34 Allee du Lac d'Aiguebelette, F-73370 Le Bourget du Lac.

T: +33 4 79 26 27 07 www.roctool.com  
 F: +33 4 79 26 49 95 virginia.lapierre@roctool.com

*Tooling***Ruiz Aerospace** (Canada)

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

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

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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***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***Schnaithmann Maschinenbau GmbH** (Germany)

Fellbacher Straße 49, D-73630 Remshalden-Grünbach.

T: +49 7151 9732 0 www.schnaithmann.de  
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T: +1 262 285 7133 www.cutwell.com  
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*Tooling***Sharp Tooling Solutions** (U.S.A.)

70745 Powell Rd., Romeo, MI 48065.

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

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*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.  
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 sales@shreeramaerospace.com

*Jigs & Fixtures***Siemens Process Industries and Drives** (U.S.A.)

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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.*

**SMASTIP Sdn Bhd** (Malaysia)

No. 36, Jalan Kartunis U1/47, Temasya Industrial Park, Section U1, 40150 Shah Alam, Selangor.

T: +603 5569 7877 www.smastip.com

F: +603 5569 7663 marketing@smastip.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***Stretch Forming Corp.** (U.S.A.)

804 S. Redlands Ave., Perris, CA 92570.

T: +1 951 443 0911 www.stretchformingcorp.com  
 F: +1 951 443 0917 info@stretchformingcorp.com

*Tooling***Superite Tools Ltd** (U.K.)

Vigo Place, Aldridge, Walsall, West Midlands WS9 8UG.

T: +44 1922 451 151 www.superite.co.uk  
 F: +44 1922 743 176 enquiries@superite.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*

**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  
 prior@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.tdmssystems.com  
 info@tdmssystems.com

*Tooling***Techni-Modul Engineering** (France)

ZA de Perache, F-63114 Coudes.

T: +33 4 73 54 53 30 www.tme-composites.com  
 F: +33 4 73 55 96 35 info@tme-composites.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

#### Tools For Bending, Inc. (U.S.A.)

194 W. Dakota Ave., Denver, CO 80223-2195.  
T: +1 303 777 7170 www.toolsforbending.com  
F: +1 303 777 4749 tfb@toolsforbending.com

Tooling  
Airbus A380, Boeing 787 Dreamliner, Boeing F/A-18 Super Hornet,  
Lockheed Martin F-35 Lightning II

#### Trelleborg Applied Technologies (U.K.)

Eagle Way, off Queensway, Rochdale, Lancashire OL11 1TQ.  
T: +44 1706 716 610 www.trelleborg.com/en/applied-  
technologies  
AppliedTechnologies@trelleborg.com

Tooling

#### Tri Tool Technologies (U.S.A.)

3041 Sunrise Blvd, Rancho Cordova, CA 95742.  
T: +1 916 288 6100 www.tritool.com  
F: +1 916 288 6160 marketing@tritool.com

Tooling

#### Tri-Star Technologies Inc. (U.S.A.)

1111 E. El Segundo Blvd., El Segundo, CA 90245.  
T: +1 323 347 5767 www.tri-star-technologies.com  
sales@tri-star-technologies.com

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 rscruggs@triumphgroup.com

Controlled Machinery

#### Turbomak (Turkey)

Organize Sanayi Bölgesi 7. Cd. No. 5, TR-26110.  
T: +90 222 236 16 00 www.turbomak.com.tr  
F: +90 222 236 16 05 info@ejs.com.tr

Tooling

#### Unison Ltd (U.K.)

Faroe House, Thornburgh Road, Scarborough YO11 3UY.  
T: +44 1723 582 868 www.unisonltd.com  
F: +44 1723 582 379 sales@unisonltd.com

Tooling

#### US Aluminum Castings (U.S.A.)

P.O. Box 678, 14351 Shamel St., Entiat, WA 98822.  
T: +1 509 784 1001 www.us-castings.com  
sales@us-castings.com

Tooling

#### USATCO - U.S. Air Tool Company (U.S.A.)

60 Fleetwood Ct., Ronkonkoma, NY 11779-6951.  
T: +1 631 471 3300 www.usatco.com  
F: +1 631 471 3308 info@usatco.com

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

Piaggio P.180 Avanti

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

Chennappa Chetty Pudur Post, Padhuvaipalli Village,  
Coimbatore, 641 659 Tamil Nadu.

www.vjp.in

Tooling

#### Valiant Machine & Tool Inc. (Canada)

6555 Hawthorne Drive, Windsor, ON N8T 3G6.  
T: +1 519 974 5200 www.valiantcorp.com  
F: +1 519 979 5532 info@valiantmachine.com

Engine Tooling, Jigs & Fixtures, Mandrels, Tooling

#### Verseng Group (was Broens Industries) (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

#### Victoruzzo SL (Spain)

Calle Hosp Santa Margarita Tras 2, Irun 20303.  
pascal.baruzzo@outlook.fr

Tooling

#### 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

#### Volo Composites (Volo Kompozit) (Turkey)

Volo Kompozit Saray Mah 1072, Sokak No:4/13 Kazan,  
TR-06980 Ankara.

T: +90 850 532 8656 www.volo.com.tr  
F: +90 850 532 8655 info@volo.com.tr

Tooling

#### WADA Aircraft Technology Co., Ltd. (Japan)

72-1 Gogashima, Haruhi, 452-0962 Kiyosu-shi, Aichi.  
T: +81 5 2401 4711 www.wadaaircraft.com  
F: +81 5 2401 4712 info@wadass.com

Controlled Machinery, Dies, Jigs & Fixtures, Mandrels, Tooling

See also: Sapura Aerospace Technologies Sdn Bhd

#### Walker Precision Engineering Ltd (U.K.)

4 Fullarton Drive, Glasgow East Investment Park, Glasgow  
G32 8FA.

T: +44 141 641 9641 www.walkerprecision.com  
F: +44 141 646 2060 enquiries@walkerprecision.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 SAR.

T: +852 3976 0922 wtmlimited.com  
F: +852 2419 0438 info@wtmlimited.com

Jigs & Fixtures

#### Williams Aerospace and Manufacturing, Inc. (U.S.A.)

757 Main Street Suite 102, Chula Vista, CA 91911.

T: +1 619 660 6220 wam-inc.com  
sales@wam-inc.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

#### Wrentham Tool Group (U.S.A.)

155 Farm Street, Bellingham, MA 02019.  
T: +1 508 966 2332 www.wrenthamtool.com

F: +1 508 966 2326 customerservice@wrenthamtool.com  
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

#### ZOLLER Inc. (U.S.A.)

3900 Research Park Drive, Ann Arbor, MI 48108.  
T: +1 734 332 4851 www.zoller.info/us  
F: +1 734 332 4852 sales@zoller-usa.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  
Baker Industries  
Broetje-Automation GmbH  
Janicki Industries  
Neill Aircraft Co.  
Optomec / Huffman  
Siemens Process Industries and Drives  
Triumph Structures - Everett  
Visioneering Inc  
WADA Aircraft Technology Co., Ltd.  
ZB3 Technologies Ltd  
ZOLLER Inc.

### Dies

Aciturri Aerostructures (INDEX)  
Aero Foil International  
Alphateq Ltd  
Baker Industries  
Daniels Manufacturing Corp.  
Dormer Pramet  
Galaxy Technologies  
Kamensk Uralsky Metallurgical Works  
JSC (KUMZ)  
North Coast Tool & Mold Corp  
Prospect Mold & Die Inc.  
Servometer  
WADA Aircraft Technology Co., Ltd.

### Engine Tooling

Aciturri Aerostructures (INDEX)  
Ascent Aerospace North America  
Baker Industries  
CEL Advanced Technologies Group  
Direct International Inc.  
Lomas Engineering Limited  
Nelson Tool Co. (Stockport) Ltd.  
Prospect Mold & Die Inc.  
Valiant Machine & Tool Inc.  
Visioneering Inc

### Jigs & Fixtures

Accurus Aerospace Wichita  
Aciturri Aerostructures (INDEX)  
Advanced Integration Technology (was Nova-Tech Engineering)  
Advanced Integration Technology, Inc.  
Aero Foil International  
Aero Vodochody Aerospace a.s.  
Aertec  
Aircraft Industries a.s.  
Alpex Technologies GmbH  
Alphateq Ltd  
American Additive Manufacturing LLC  
Aritex Cading SA  
Ascent Aerospace North America  
ATS Applied Tech Systems Ltd.  
Avcorp Industries Inc.  
Baker Industries  
Boldman Limited  
Broetje-Automation GmbH  
Carbon Design s.r.o  
Comau Aerospace  
Crestview Aerospace  
Delink Technology GmbH

DEMA SpA  
Direct International Inc.  
EDS Engineering Ltd  
Electroimpact  
EXAIL Aerospace  
Expleo  
FIXar  
Galaxy Technologies  
Graphel Carbon Products  
Guanglian Aviation Industry Co. Ltd.  
IAR S.A. Brasov  
INM Partner Kft  
Jaivel Aerospace  
Janicki Industries  
Kanfit Ltd  
Korea Jig and Fixture (KJF) - ROKADI  
L3 Technologies MAS inc.  
Lomas Engineering Limited  
Manufax Engineering Ltd.  
Micado Smart Engineering GmbH  
Midland Aerospace  
Morson Projects Ltd  
MTorres Disenos Industriales S.A.  
MTorres Group  
Nelson Tool Co. (Stockport) Ltd.  
North Coast Tool & Mold Corp  
OMPM srl  
Patricomp Oy  
Pentaxia  
PWR Advanced Cooling Technology  
PZL Swidnik S.A.  
Schwab Industries, Inc.  
Sharp Tooling Solutions  
Shreeram Aerospace and Defence, LLP  
Sigma Precision Components UK  
SMASTIP Sdn Bhd  
Stratasys Direct Manufacturing  
TAL Manufacturing Solutions Ltd  
TAMADIC Co., Ltd.  
TESI (Tecnologie E Servizi Innovativi S.r.l.)  
Utva Aircraft Industry  
Valiant Machine & Tool Inc.  
Visioneering Inc  
WADA Aircraft Technology Co., Ltd.  
Western Tool & Mold Limited

### Laser Tooling

Advanced Integration Technology (was Nova-Tech Engineering)  
Antron Engineering & Machine  
Baker Industries  
Laser Photonics  
MTorres Disenos Industriales S.A.  
Next-Axis Ltd  
Optomec / Huffman

### Mandrels

Advanced Integration Technology (was Nova-Tech Engineering)  
Advanced Integration Technology, Inc.  
Aerospace Dynamics International  
American Additive Manufacturing LLC  
Ascent Aerospace North America  
Baker Industries  
Duqueine Group  
Galaxy Technologies  
Korea Jig and Fixture (KJF) - ROKADI  
Leader Chuck Systems Ltd.  
Lomas Engineering Limited  
Metaltek International  
Prospect Mold & Die Inc.  
Servometer  
Stratasys Direct Manufacturing  
Syensqo (was Solvay)  
Valiant Machine & Tool Inc.  
Verseng Group (was Broens Industries)  
Visioneering Inc  
WADA Aircraft Technology Co., Ltd.

### Tooling

AAT Composites (Pty) Ltd  
Accurus Aerospace Wichita  
Aciturri Aerostructures (INDEX)  
AD Metal Spinners Ltd  
Advance Manufacturing Co., Inc.  
Advanced Ground Systems Engineering Corp  
Advanced Integration Technology (was Nova-Tech Engineering)  
Advanced Integration Technology, Inc.  
Aequis Infra - SEZ (Belagavi Aerospace)  
Aero Foil International  
Aerospace Dynamics International  
Aerotecnic  
Aertec  
Airborne Technologies, Inc.  
Aircraft Industries a.s.  
Airmo Inc. Pressure Technologies  
Airtech Advanced Materials Group  
Alpex Technologies GmbH  
American Additive Manufacturing LLC  
Amro Fabricating Corp.  
Anduril Industries (was Blue Force Technologies)  
APR Srl  
Aritex Cading SA  
Ascent Aerospace North America  
Ascent Europe  
Axxiflex Turbine Tooling  
BA France S.A.S  
Baker Industries  
BCW Group  
Ben Machine  
Boldman Limited  
Briney Tooling Systems  
Broetje-Automation GmbH  
Caracol  
Carter Manufacturing Ltd  
Centrix Inc.  
Comau Aerospace  
Component Engineers Inc. (CEI)  
Composites Universal Group  
Connecticut Coining, Inc.  
Crafts Technology  
Daniels Manufacturing Corp.  
Dayton T. Brown, Inc.  
DCM Group - Aerostructures Centre of Excellence  
Dedienne Aerospace  
Deharde GmbH  
Dormer Pramet  
DP Seals Ltd  
Dutch-Shape BV  
E-Kut  
earthnaerospace Co. Ltd.  
EFW Elbe Flugzeugwerke  
Electroimpact  
Electronics Metal Finishing Corp.  
Element Six Limited  
Eligio Re Fraschini S.p.A.  
Elsa Industry  
Entegris Poco Materials  
Epsilon Composites  
Exactoform Cutting Tools Ltd  
ExOne  
Expleo  
Farwest Aircraft Inc.  
FIXar  
Fresal Srl  
Futuramic Tool & Engineering Co.  
Galaxy Technologies  
Gardner Aerospace  
General Plastics Manufacturing Co.  
Graphel Carbon Products  
Graphite Sales Inc. (GSI)  
Guanglian Aviation Industry Co. Ltd.  
Habco, Inc.  
Harper Engineering Company  
Hastreiter Industries

Hermann Schmidt Precision  
Workholding, Inc  
Hexcel Stade  
HizeAero  
HTT (High Tech Tools) - Centro Affilatura  
Hufschmied Zerspanungssysteme GmbH  
Indaero (was Indaero Tecnigrab)  
Integrated Polymer Solutions  
Investacast  
Jaivel Aerospace  
Janicki Industries  
Jergens Inc.  
Kanfit Ltd  
Kennametal Inc.  
Kennametal UK Ltd  
KIHOMAC  
Korea Jig and Fixture (KJF) - ROKADI  
KUKA Aero  
Leader Chuck Systems Ltd.  
LMI Aerospace, Inc.  
Lomas Engineering Limited  
Lucas Industries  
Lyndex-Nikken Inc.  
Lynn Welding  
Machine Specialties Inc.  
Magnus Aircraft Zrt  
Malabar International  
Manufax Engineering Ltd.  
Marand Precision Engineering  
Master Abrasives Ltd  
Matrix Composites, Inc.  
Mecaplex AG  
Micado Smart Engineering GmbH  
MTD Ltd (Midland Tool & Design)  
MTorres America  
MTorres Disenos Industriales S.A.  
NCMT Ltd  
Nelson Tool Co. (Stockport) Ltd.  
Nikken Kosakusho Europe Ltd.  
O'Fallon Casting  
OMPM srl  
Pan American Tool Corp.  
Paragon D & E  
PDS Engineering  
Pentaxia  
Performance Sealing Solutions (GS Engineering Group)  
Petersen Inc.  
Piper Industrial Manufacturing Company (PIMCO)  
Piran Advanced Composites  
PMF (Precision Metal Forming) Industries  
Powerkut  
Prospect Mold & Die Inc.  
PWR Advanced Cooling Technology  
Q5D Technology  
Quality Aircraft Tooling, Inc.  
Quickstep Holdings Limited  
Radius Aerospace - Hot Springs  
Rakar Inc.  
Reno Machine Company  
Reuther Mold & Manufacturing  
Roctool  
Ruiz Aerospace  
Safran Cabin - Greenpoint (Zodiac Advanced Composites Division)  
Scaled Composites LLC  
Schnaithmann Maschinenbau GmbH  
SCHUNK  
Schwab Industries, Inc.  
Servometer  
Sharon-Cutwell  
Sharp Tooling Solutions  
Sigma Precision Components UK  
Stretch Forming Corp.  
Superite Tools Ltd

Syensqo (was Solvay)  
TDM Systems, Inc.  
Techni-Modul Engineering  
The L.S. Starrett Co.  
Tools For Bending, Inc.  
Trelleborg Applied Technologies  
Tri Tool Technologies  
Tri-Star Technologies Inc.  
Turbomak  
Unison Ltd  
US Aluminum Castings  
USATCO - U.S. Air Tool Company  
VAF Def-Aero Systems Private Limited  
Valiant Machine & Tool Inc.  
Verseng Group (was Broens Industries)  
Victoruzzo SL  
Visioneering Inc  
Volo Composites (Volo Kompozit)  
WADA Aircraft Technology Co., Ltd.  
Walker Precision Engineering Ltd  
Williams Aerospace and Manufacturing, Inc.  
WING d.o.o.  
Wrentham Tool Group

# Country index:

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

## Australia

Marand Precision Engineering  
PWR Advanced Cooling Technology  
Quickstep Holdings Limited  
Verseng Group (was Broens Industries)

## Austria

Alpex Technologies GmbH  
Micado Smart Engineering GmbH

## Belgium

Fixar

## Canada

ASCO Aerospace Canada  
Avcorp Industries Inc.  
Ben Machine  
DCM Group - Aerostructures Centre of Excellence  
Dormer Pramet  
E-Kut  
L3 Technologies MAS inc.  
Ruiz Aerospace  
Valiant Machine & Tool Inc.

## 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  
BA France S.A.S  
Dedienne Aerospace  
Duqueine Group  
EXAIL Aerospace  
Roctool  
Techni-Modul Engineering

## Germany

Broetje-Automation GmbH  
Deharde GmbH  
Delinkt Technology GmbH  
EFW Elbe Flugzeugwerke  
Hexcel Stade  
Hufschmied Zerspanungssysteme GmbH  
Schnäithmann Maschinenbau GmbH

## Hong Kong SAR

Western Tool & Mold Limited

## Hungary

INM Partner Kft  
Magnus Aircraft Zrt

## India

Aequs Infra - SEZ (Belagavi Aerospace)  
Shreeram Aerospace and Defence, LLP  
TAL Manufacturing Solutions Ltd  
VAF Def-Aero Systems Private Limited

## Israel

Kanfit Ltd

## Italy

APR Srl  
Caracol

DEMA SpA  
Eligio Re Fraschini S.p.A.  
Fresal Srl  
HTT (High Tech Tools) - Centro Affilatura  
OMPM srl  
TESI (Tecnologie E Servizi Innovativi S.r.l.)

## Japan

TAMADIC Co., Ltd.  
WADA Aircraft Technology Co., Ltd.

## Malaysia

SMASTIP Sdn Bhd

## Netherlands

Axxiflex Turbine Tooling  
Dutch-Shape BV

## 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.

## South Africa

AAT Composites (Pty) Ltd

## South Korea

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

## Spain

Aciturri Aerostructures (INDEX)  
Aerotecnic  
Aertec  
Aritex Cading SA  
Indaero (was Indaero Tecnigrab)  
MTorres Disenos Industriales S.A.  
MTorres Group  
Victoruzzo SL

## Switzerland

Mecaplex AG

## Turkey

Epsilon Composites  
Turbomak  
Volo Composites (Volo Kompozit)

## U.K.

AD Metal Spinners Ltd  
Alphateq Ltd  
ATS Applied Tech Systems Ltd.  
BCW Group  
Boldman Limited  
Carter Manufacturing Ltd  
DP Seals Ltd  
EDS Engineering Ltd  
Exactaform Cutting Tools Ltd  
Expleo  
Gardner Aerospace  
Investacast  
Jaivel Aerospace  
Kennametal UK Ltd  
Leader Chuck Systems Ltd.  
Lomas Engineering Limited  
Manufax Engineering Ltd.  
Master Abrasives Ltd  
Midland Aerospace  
Morson Projects Ltd  
MTD Ltd (Midland Tool & Design)  
NCMT Ltd  
Nelson Tool Co. (Stockport) Ltd.  
Next-Axis Ltd

Nikken Kosakusho Europe Ltd.  
Pentaxia  
Piran Advanced Composites  
Powerkut  
Q5D Technology  
Sigma Precision Components UK  
Superite Tools Ltd  
Syensqo (was Solvay)  
Trelleborg Applied Technologies  
Unison Ltd  
Walker Precision Engineering Ltd  
ZB3 Technologies Ltd

## U.S.A.

Accurus Aerospace Wichita  
Advance Manufacturing Co., Inc.  
Advanced Ground Systems Engineering Corp  
Advanced Integration Technology (was Nova-Tech Engineering)  
Advanced Integration Technology, Inc.  
Aero Foil International  
Aerospace Dynamics International  
Airborne Technologies, Inc.  
Airmo Inc. Pressure Technologies  
Airtech Advanced Materials Group  
American Additive Manufacturing LLC  
Amro Fabricating Corp.  
Anduril Industries (was Blue Force Technologies)  
Antron Engineering & Machine  
Ascent Aerospace North America  
Baker Industries  
Briney Tooling Systems  
CEL Advanced Technologies Group  
Centrix Inc.  
Comau Aerospace  
Component Engineers Inc. (CEI)  
Composites Universal Group  
Connecticut Coining, Inc.  
Crafts Technology  
Crestview Aerospace  
Daniels Manufacturing Corp.  
Dayton T. Brown, Inc.  
Direct International Inc.  
Electroimpact  
Electronics Metal Finishing Corp.  
Entegris Poco Materials  
ExOne  
Farwest Aircraft Inc.  
Futuramic Tool & Engineering Co.  
Galaxy Technologies  
General Plastics Manufacturing Co.  
Graphel Carbon Products  
Graphite Sales Inc. (GSI)  
Habco, Inc.  
Harper Engineering Company  
Hastreiter Industries  
Hermann Schmidt Precision  
Workholding, Inc  
Integrated Polymer Solutions  
Janicki Industries  
Jergens Inc.  
Kennametal Inc.  
KIHOMAC  
KUKA Aero  
Laser Photonics  
LMI Aerospace, Inc.  
Lucas Industries  
Lyndex-Nikken Inc.  
Lynn Welding  
Machine Specialties Inc.  
Malabar International  
Matrix Composites, Inc.  
Metaltek International  
MTorres America  
Neill Aircraft Co.  
North Coast Tool & Mold Corp  
O'Fallon Casting

Optomec / Huffman  
Pan American Tool Corp.  
Paragon D & E  
PDS Engineering  
Performance Sealing Solutions (GS Engineering Group)  
Petersen Inc.  
Piper Industrial Manufacturing Company (PIMCO)  
PMF (Precision Metal Forming) Industries  
Prospect Mold & Die Inc.  
Quality Aircraft Tooling, Inc.  
Radius Aerospace - Hot Springs  
Rakar Inc.  
Reno Machine Company  
Reuther Mold & Manufacturing  
Safran Cabin - Greenpoint (Zodiac Advanced Composites Division)  
Scaled Composites LLC  
SCHUNK  
Schwab Industries, Inc.  
Servometer  
Sharon-Cutwell  
Sharp Tooling Solutions  
Siemens Process Industries and Drives  
Stratasys Direct Manufacturing  
Stretch Forming Corp.  
TDM Systems, Inc.  
The L.S. Starrett Co.  
Tools For Bending, Inc.  
Tri Tool Technologies  
Tri-Star Technologies Inc.  
Triumph Structures - Everett  
US Aluminum Castings  
USATCO - U.S. Air Tool Company  
Visioneering Inc  
Williams Aerospace and Manufacturing, Inc.  
Wrentham Tool Group  
ZOLLER Inc.

## 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

### Joby S4

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

### Lilium Lilium Jet

Deidienne Aerospace - Tooling  
Schnaithmann Maschinenbau GmbH - Tooling/Design and construction of assembly line

## 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)

### 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 Disenos Industriales S.A. - 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 Disenos Industriales S.A. - 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 Disenos Industriales S.A. - Laser Tooling/Laser scribes with flexible tooling  
Paragon D & E - Tooling  
Syensqo (was Solvay) - Tooling/Large-scale tooling mandrels (for GKN)

### Airbus A380

Advanced Integration Technology, Inc. - Tooling/Automated turnkey tooling for rear fuselage Section 19 assembly  
Dutch-Shape BV - Tooling/Complete tooling for skin & wing section  
Electroimpact - Jigs & Fixtures/Wing assembly jig  
MTorres Disenos Industriales S.A. - Jigs & Fixtures/Assembly jig system for elevators & rudders, - Laser Tooling/Laser scribes with flexible tooling  
OMP s.r.l. - Jigs & Fixtures/Jigs and rigs for nacelle, and centre FWD lower unit fuselage assembly jig

### 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

LMI Aerospace, Inc. - Tooling/Tooling for assembly line  
MTorres Disenos Industriales S.A. - 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  
MTorres Disenos Industriales S.A. - 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  
LMI Aerospace, Inc. - Tooling/Tooling & components for wing section  
MTorres Disenos Industriales S.A. - Laser Tooling/Laser scribes with flexible tooling, - Jigs & Fixtures/Automated assembly jigs  
OMP s.r.l. - 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

### CRAIC CR929

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 Disenos Industriales S.A. - 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 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)  
Axxiflex 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 (was Broens Industries) - 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.

### Northrop Grumman RQ-4 Global Hawk

Paragon D & E - Tooling

### 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 Disenos Industriales S.A. - 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

### KAI KT-1 Woong Bee

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

### Natilus Kona

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 H145M/EC145

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

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*



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