

Ultralight & Light Aircraft Market by Propulsion (Electric/Hybrid, Conventional), System (Aerostructures, Avionics, Cabin Interiors), Technology (Manned, Unmanned), Flight Operation (CTOL, VTOL), Point of Sale End Use, Material - Global Forecast to 2029

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Report description:

The ultralight and light aircraft market is estimated to be USD 10.17 billion in 2024 and is projected to reach USD 17.29 billion by 2029, at a CAGR of 11.2 % during the forecast period. The aircraft is increasingly being used for recreational flying, such as sightseeing, camping, and fishing. They are also used for transportation, such as personal commuting. Ultralight and light aircraft also affordable to maintain and operate.

"Low-cost operation and maintenance of ultralight aircraft are driving the ultralight and light aircraft market."

Low-cost operations and maintenance are the two main growth drivers in the ultralight and light aircraft market. These have simpler designs, consume lesser fuel, and have less mechanical complexity compared to their larger counterparts, which significantly cuts down on the operating cost. This has attracted wide users, ranging from private owners and recreational pilots to flight schools and small commercial operators. Light aircraft present an economical alternative for training and short-haul missions, thereby allowing wider access to aviation. Being more lightweight plus fuel-efficient engines reduce the frequency of maintenance and thus appeal to more people in both personal and professional sectors.

"Based on flight operation, the CTOL segment accounts for the largest market size during the forecast period."

Based on flight operation, the ultralight and light aircraft market is segmented into Conventional Take-off and Landing (CTOL) and Vertical Take-off and Landing (VTOL). CTOLs are also expected to capture the bulk of the market for ultralight and light aircraft because they provide an infrastructure that is most well-developed, yet relatively cheaper, and used in different applications. A

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CTOL aircraft needs to land or take off with a runway, making the current distribution of small regional airports friendly to them to integrate without requiring specific and unique infrastructures. This is one benefit over VTOL aircraft, since those normally require new or modified facilities for safe operation, particularly in urban environments.

The cost is relatively low on development, production, and operations for the CTOL aircraft compared to the newest emerging VTOL models. This is because the operating procedures of the CTOLs are not very complex and involve a known technology base that guarantees the dependability of the aircraft, which is less costly to maintain. Such factors make the aircraft appealing to personal and recreational pilots, flight schools, and small businesses.

"Based on the system, the aircraft systems segment is projected to grow at the highest CAGR during the forecast period." Based on system, the ultralight and light aircraft market is segmented into aerostructure, avionics, aircraft systems, and cabin interiors. Aircraft systems will dominate the ultralight and light aircraft market because of their critical role in enhancement of performance, safety, and user experience as this sector attracts a wider range of pilots and applications. The, autopilot, stability controls, and safety features are becoming more complex and reachable with the advancement of digital technology and miniaturization. For example, those formerly only available on higher-up, commercial aircraft-now, digital avionics and glass cockpits are available on many small light and ultralight planes. This capability includes real-time feeds that navigate, weather, or information on engine performance right out to the pilot through direct vision, providing infinitely higher situational awareness than there could be before and ease a pilot's flying for this reason.

"Based on technology , the unmanned segment to grow at the highest CAGR during the forecast period."

The ultralight and light aircraft market has been segmented on the basis of technology into the manned and unmanned segments. Unmanned segment is projected to grow at the highest CAGR as UAV has more prominent benefits than manned counterparts with respect to all applications pertaining to safety, cost, and convenience. These aircraft can do tasks and operate in conditions that would be too dangerous or impractical for a human pilot, including surveillance, agricultural monitoring, search and rescue, and environmental research. Therefore, agricultural operations, infrastructure inspection, and public safety are all finding a use for unmanned aircraft in order to provide very accurate and efficient operation.

"Asia Pacific is projected to account for the second largest market share during the forecast period."

The Asia-Pacific region is expected to account for the second largest market share due to several strong factors, such as high economic growth, rising disposable incomes, and a growing interest in aviation. The more these countries continue to expand their economies, more people and businesses are looking at having affordable air travel options, which boost demand for light aircraft to be used for personal, recreational, and commercial purposes.

In addition, the region's vast geography, comprising many islands and remote areas, presents unique opportunities for light aircraft to provide essential connectivity where traditional transportation options may be limited. Another emerging trend is urban air mobility solutions, including air taxis and cargo drones, gaining traction in densely populated cities, stimulating demand further.

The break-up of profile of primary participants in the ultralight and light aircraft market:

- By Company Type: Tier 1 - 49%, Tier 2 - 37%, and Tier 3 - 14%
- By Designation: C Level - 55%, Director Level - 27%, and Others - 18%
- By Region: North America - 32%, Europe - 32%, Asia Pacific - 16%, Middle East & Africa - 10%, Latin America - 10%

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Major players operating in the ultralight and light aircraft market are Cirrus Aircraft (US), Costruzioni Aeronautiche TECNAM SpA (Italy) , Textron Inc. (US) , Pilatus Aircraft (US) , Piper Aircraft, Inc. (US) , Evektor Aerotechnik (Czech Republic) , American Legend Aircraft Co. (US) , Thrust Aircraft Private Limited (India) , Air Tractor (US) , P&M Aviation (India) , Quicksilver Aircraft (US) , Flight Design General Aviation GmbH (Germany) , Aeropro (Canada), Autogyro GmbH (Germany) , Vulcanair (Italy), Honda Aircraft Company (Japan).

Research Coverage:

This research report categorizes the ultralight and light aircraft market basis of By Pointt of sale (OEM and Aftermarket) , End Use (Civil and Commercial and Military), Flight Operation (CTOL and VTOL), Technology (Manned and Unmanned), Propulsion (Conventional Fuel and Electric-Hybrid), Material (Aluminium, Composites and Other Materials), System (Aerostructures, Avionics, Cabin Interiors and Aircraft Systems), in these segments have been mapped across major Regions (North America, Europe, Asia Pacific, Middle East and Africa, Latin America).

A detailed analysis of the key industry players has been done to provide insights into their business overviews; solutions and services; key strategies; agreements, collaborations, new product launches, contracts, expansion, acquisitions, and partnerships associated with the aircraft health monitoring market. Competitive analysis of upcoming startups in the ultralight and light aircraft market ecosystem is covered in this report.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall ultralight and light aircraft market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and to plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

- The scope of the report covers detailed information regarding the major factors, such as drivers (Low-cost operation and maintenance of ultralight aircraft, Growing use of UAVs in various military operations , Growing use of light aircraft in aviation schools, Growing demand for personal and recreational flying), restraints (Delay in aircraft deliveries, Safety considerations for operation of ultralight and light aircraft), challenges (Development costs outweigh benefits of ultralight and light aircraft, Limited range and payload of ultralight aircraft), and opportunities (Advancements in traditional aircraft propulsion, advancements in passenger drones and UAV payload), influencing the growth of the ultralight and light aircraft market.

- Market Penetration: Comprehensive information on ultralight and light aircraft offered by the top players in the market.

- Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the ultralight and light aircraft market

- Market Development: Comprehensive information about lucrative markets - the report analyzes the aircraft health monitoring market across varied regions

- Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the Ultralight and light aircraft market

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-Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players in the ultralight and light aircraft market

Table of Contents:

1	INTRODUCTION	34
1.1	STUDY OBJECTIVES	34
1.2	MARKET DEFINITION	35
1.3	STUDY SCOPE	35
1.3.1	MARKETS COVERED	35
1.3.2	YEARS CONSIDERED	36
1.4	INCLUSIONS AND EXCLUSIONS	36
1.5	CURRENCY CONSIDERED	37
1.6	STAKEHOLDERS	38
1.7	SUMMARY OF CHANGES	38
2	RESEARCH METHODOLOGY	39
2.1	RESEARCH DATA	39
2.1.1	SECONDARY DATA	40
2.1.1.1	Key data from secondary sources	41
2.1.2	PRIMARY DATA	42
2.1.2.1	Key data from primary sources	42
2.1.2.2	Key primary sources	42
2.2	FACTOR ANALYSIS	43
2.2.1	INTRODUCTION	43
2.2.2	DEMAND-SIDE INDICATORS	43
2.2.2.1	Rise in global air passenger and cargo traffic	43
2.2.3	SUPPLY-SIDE INDICATORS	43
2.3	MARKET SCOPE	44
2.3.1	ULTRALIGHT AND LIGHT AIRCRAFT MARKET, BY TYPE	44
2.3.2	ULTRALIGHT AND LIGHT AIRCRAFT MARKET, BY END USE	44
2.3.3	ULTRALIGHT AND LIGHT AIRCRAFT MARKET, BY PROPULSION	44
2.4	RESEARCH APPROACH AND METHODOLOGY	44
2.4.1	BOTTOM-UP APPROACH	45
2.4.1.1	Regional ultralight and light aircraft market	45
2.4.1.2	Segment size of ultralight and light aircraft market	45
2.4.1.3	Ultralight and light aircraft market, by end use	45
2.4.1.4	Ultralight and light aircraft market, by hybrid-electric	45
2.4.2	PRICING ANALYSIS	46
2.4.3	TOP-DOWN APPROACH	46
2.4.4	CONVENTIONAL ULTRALIGHT AND LIGHT AIRCRAFT MARKET, BY REGION AND COUNTRY	47
2.4.5	HYBRID-ELECTRIC ULTRALIGHT AND LIGHT AIRCRAFT MARKET, BY REGION AND COUNTRY	47
2.4.6	OVERALL ULTRALIGHT AND LIGHT MARKET, BY REGION AND COUNTRY	48
2.5	MARKET BREAKDOWN AND DATA TRIANGULATION	48
2.6	RESEARCH ASSUMPTIONS	49
2.6.1	CONVENTIONAL ULTRALIGHT AND LIGHT AIRCRAFT	49
2.6.2	HYBRID-ELECTRIC ULTRALIGHT AND LIGHT AIRCRAFT	50

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2.6.3	ULTRALIGHT AND LIGHT AIRCRAFT AFTERMARKET	50
2.6.4	OTHER ASSUMPTIONS	50
2.7	RESEARCH LIMITATIONS	51
2.8	RISK ANALYSIS	52
3	EXECUTIVE SUMMARY	53
4	PREMIUM INSIGHTS	56
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN ULTRALIGHT AND LIGHT AIRCRAFT MARKET	56
4.2	ULTRALIGHT AND LIGHT AIRCRAFT MARKET, BY OEM	56
4.3	ULTRALIGHT AND LIGHT AIRCRAFT MARKET, BY FLIGHT OPERATION	57
4.4	ULTRALIGHT AND LIGHT AIRCRAFT MARKET, BY MATERIAL	57
4.5	ULTRALIGHT AND LIGHT AIRCRAFT MARKET, BY END USE	58
5	MARKET OVERVIEW	59
5.1	INTRODUCTION	59
5.2	MARKET DYNAMICS	59
5.2.1	DRIVERS	60
5.2.1.1	Low-cost operation and maintenance of ultralight aircraft	60
5.2.1.2	Increasing use of UAVs in various military operations	61
5.2.1.3	Growing use of light aircraft in aviation schools	61
5.2.1.4	Rise in global disposable income and high-net-worth individuals	62
5.2.2	RESTRAINTS	63
5.2.2.1	Delay in aircraft deliveries	63
5.2.2.2	Safety considerations for operation of ultralight and light aircraft	64
5.2.3	OPPORTUNITIES	65
5.2.3.1	Advancements in traditional aircraft propulsion	65
5.2.3.2	Advancements in passenger drones and UAV payload	65
5.2.4	CHALLENGES	66
5.2.4.1	Development costs outweigh benefits of ultralight and light aircraft	66
5.2.4.2	Limited range and payload of ultralight aircraft	66
5.3	VALUE CHAIN ANALYSIS	66
5.4	TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS	68
5.5	ECOSYSTEM ANALYSIS	68
5.5.1	PROMINENT COMPANIES	68
5.5.2	PRIVATE AND SMALL ENTERPRISES	68
5.5.3	END USERS	68
5.6	TECHNOLOGY TRENDS IN HYBRID AND ELECTRIC PROPULSION	70
5.6.1	FUEL CELLS	70
5.6.2	LITHIUM-SULFUR (LI-S)	70
5.6.3	DISTRIBUTED ELECTRIC PROPULSION (DEP)	70
5.6.4	MULTIFUNCTIONAL STRUCTURES FOR HIGH-ENERGY LIGHTWEIGHT LOADBEARING STORAGE (M-SHELLS)	71
5.6.5	INTEGRATED COMPUTATIONAL-EXPERIMENTAL DEVELOPMENT OF LI-AIR BATTERIES FOR ELECTRIC AIRCRAFT	71
5.7	PRICING ANALYSIS	71
5.7.1	AVERAGE SELLING PRICE OF LIGHT AIRCRAFT	71
5.7.2	AVERAGE SELLING PRICE OF KEY PLAYERS FOR ULTRALIGHT AND LIGHT AIRCRAFT	72
5.7.3	AVERAGE SELLING PRICE OF ULTRALIGHT AND LIGHT AIRCRAFT, BY REGION	73

5.8	CASE STUDY ANALYSIS	73
5.8.1	CASE STUDY 1: VTOL BUSINESS JET	73
5.8.2	CASE STUDY 2: FIRST MANNED TEST OF EVTOL	74
5.8.3	CASE STUDY 3: EVTOL FOR AGRICULTURAL APPLICATIONS	74
5.9	TRADE ANALYSIS	75
5.9.1	IMPORT SCENARIO (HS CODE 8802)	75
5.9.2	EXPORT SCENARIO (HS CODE 8802)	76
5.10	KEY CONFERENCES AND EVENTS, 2025	77
5.11	REGULATORY LANDSCAPE	78
5.11.1	NORTH AMERICA	78
5.11.2	EUROPE	79
5.11.3	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	79
5.12	KEY STAKEHOLDERS IN BUYING PROCESS	81
5.13	TECHNOLOGY ANALYSIS	82
5.13.1	KEY TECHNOLOGIES	82
5.13.1.1	Battery and energy storage solutions	82
5.13.1.2	Hybrid powertrains	82
5.13.2	COMPLEMENTARY TECHNOLOGIES	83
5.13.2.1	Advanced coating and anti-corrosion technologies	83
5.13.2.2	Lightweight solar panels	83
5.14	BUSINESS MODELS	83
5.15	INVESTMENT AND FUNDING SCENARIO	86
5.16	IMPACT OF GENERATIVE AI/AI	86
5.16.1	INTRODUCTION	86
5.16.2	ADOPTION OF GENERATIVE AI IN COMMERCIAL AVIATION BY TOP COUNTRIES	87
5.17	BILL OF MATERIALS	89
5.18	TECHNOLOGY ROADMAP	90
?		
5.19	MACROECONOMIC OUTLOOK	91
5.19.1	NORTH AMERICA	91
5.19.2	EUROPE	91
5.19.3	ASIA PACIFIC	91
5.19.4	MIDDLE EAST	92
5.19.5	LATIN AMERICA	92
5.19.6	AFRICA	92
6	INDUSTRY TRENDS	93
6.1	INTRODUCTION	93
6.2	TECHNOLOGY ANALYSIS	93
6.2.1	PASSENGER DRONES	93
6.2.2	COMBAT DRONES	93
6.2.3	EVTOL AIRCRAFT	94
6.2.4	URBAN AIR MOBILITY	94
6.2.5	ADVANCED AVIONICS	95
6.3	IMPACT OF MEGATRENDS	95
6.3.1	ELECTRIC PROPULSION	95
6.3.1.1	Hybrid electric propulsion system design	95

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6.3.1.2	All-electric propulsion system design	96
6.3.2	AUTONOMOUS AIRCRAFT	96
6.3.3	ADVANCED MATERIALS AND MANUFACTURING	96
6.4	INNOVATIONS AND PATENT REGISTRATIONS	97
7	ULTRALIGHT AND LIGHT AIRCRAFT MARKET, BY POINT OF SALE	100
7.1	INTRODUCTION	101
7.2	OEM	102
7.2.1	ULTRALIGHT AIRCRAFT	103
7.2.1.1	Advancement in sustainable aviation technologies to drive market.	103
7.2.1.2	<400 KG MTOW	103
7.2.1.3	400-600 KG MTOW	104
7.2.2	LIGHT AIRCRAFT	104
7.2.2.1	Growing demand for private and business aviation to drive market	104
7.2.3	600-2,500 KG MTOW	104
7.2.4	2,500-5,700 KG MTOW	105
7.3	AFTERMARKET	106
7.3.1	MRO	107
7.3.1.1	Increasing regulatory requirements to drive market	107
7.3.2	PARTS REPLACEMENTS	107
7.3.2.1	Emphasis on modernization and regulatory compliance to drive market	107
	?	
8	ULTRALIGHT AND LIGHT AIRCRAFT MARKET, BY SYSTEM	108
8.1	INTRODUCTION	109
8.2	AEROSTRUCTURES	110
8.2.1	DEMAND FOR LIGHTWEIGHT MATERIALS TO DRIVE MARKET	110
8.3	AVIONICS	110
8.3.1	NEED FOR REAL-TIME DATA AND SITUATIONAL AWARENESS TO ENSURE PASSENGER SAFETY TO DRIVE MARKET	110
8.4	AIRCRAFT SYSTEMS	110
8.4.1	TECHNOLOGICAL ADVANCEMENTS IN ELECTRIC PROPULSION TO DRIVE MARKET	110
8.5	CABIN INTERIORS	110
8.5.1	INCREASING DEMAND FOR IN-FLIGHT ENTERTAINMENT SYSTEMS FOR BUSINESS AIRCRAFT TO DRIVE MARKET	110
9	ULTRALIGHT AND LIGHT AIRCRAFT MARKET, BY FLIGHT OPERATION	111
9.1	INTRODUCTION	112
9.2	CONVENTIONAL TAKE-OFF AND LANDING (CTOL)	113
9.2.1	SUITABLE FOR PRIVATE JETS, FLIGHT TRAINING, AND SHORT-DISTANCE TRAVEL	113
9.3	VERTICAL TAKE-OFF AND LANDING (VTOL)	113
9.3.1	IDEAL FOR ENVIRONMENTS WITHOUT RUNWAY INFRASTRUCTURE	113
10	ULTRALIGHT AND LIGHT AIRCRAFT MARKET, BY TECHNOLOGY	114
10.1	INTRODUCTION	115
10.2	MANNED	116
10.2.1	INCREASING DEMAND IN COMMERCIAL AND AGRICULTURAL APPLICATIONS TO DRIVE MARKET	116
10.3	UNMANNED	116

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10.3.1	OPERATES ON PRE-DETERMINED SET OF AUTOMATED COMMANDS	116
11	ULTRALIGHT AND LIGHT AIRCRAFT MARKET, BY PROPULSION	117
11.1	INTRODUCTION	118
11.2	ELECTRIC-HYBRID	119
11.2.1	HYBRID	120
11.2.1.1	Solar	120
11.2.1.1.1	Rising demand for zero-emission aircraft to drive market	120
11.2.1.2	Battery	120
11.2.1.2.1	Growing popularity of hybrid electric aircraft models to drive market	120
11.2.1.3	Fuel Cell	120
11.2.1.3.1	Need to reduce fuel consumption and emissions to drive market	120
11.2.2	FULLY ELECTRIC	121
11.2.2.1	Heavy investment in R&D to drive market	121
11.3	CONVENTIONAL FUEL	121
11.3.1	TURBOPROP	122
11.3.1.1	Superior fuel efficiency over traditional jet engines to drive market	122
11.3.2	PISTON ENGINE	122
11.3.2.1	Low cost and high performance to drive market	122
12	ULTRALIGHT AND LIGHT AIRCRAFT MARKET, BY END USE	123
12.1	INTRODUCTION	124
12.2	CIVIL & COMMERCIAL	125
12.2.1	PASSENGER	126
12.2.1.1	Lower operating and maintenance costs of light business aircraft to drive market	126
12.2.1.2	Use case: Pilatus PC-12 in passenger charter services	126
12.2.2	PERSONAL	126
12.2.2.1	Increasing procurement of light aircraft for business travel to drive market	126
12.2.2.2	Use case: Piper Navajo Chieftain for executive business travel	126
12.2.3	COMMERCIAL CARGO	127
12.2.3.1	Helps in transfer of cargo to remote areas	127
12.2.3.2	Use case: Cessna 208 Caravan in cargo transport	127
12.2.4	TRAINING	127
12.2.4.1	Constant demand for pilot training to drive market	127
12.2.4.2	Use case: TRAC20 G7 at Western Michigan University for pilot training	127
12.2.5	AGRICULTURE	128
12.2.5.1	Demand in various farming tasks to drive market	128
12.2.5.2	Use case: Air Tractor AT-802 for agricultural spraying	128
12.2.6	SURVEY & RESEARCH	128
12.2.6.1	Need to collect important data to drive market	128
12.2.6.2	Use case: Dornier 228 in environmental surveying	128
12.2.7	MEDICAL	129
12.2.7.1	Usage in emergency services	129
12.2.7.2	Use case: Med-Trans Corporation and Beechcraft King Air 350	129
12.3	MILITARY	129

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12.3.1	INTELLIGENCE, SURVEILLANCE, AND RECONNAISSANCE (ISR)	130
12.3.1.1	Gathers battle intelligence through surveillance	130
12.3.1.2	Use case: ISR support in anti-terrorism operations	130
12.3.2	SEARCH & RESCUE	130
12.3.2.1	Provides aid during distress situations	130
12.3.2.2	Use case: Mountainous search & rescue operation	130
12.3.3	MILITARY CARGO	131
12.3.3.1	Transfers cargo to sensitive military locations	131
12.3.3.2	Use case: Rapid resupply in remote combat outpost	131
12.3.4	TRAINING	131
12.3.4.1	Conducts training of pilots for military flying	131
12.3.4.2	Use case: US Air Force Pilot Training Program	131
13	ULTRALIGHT AND LIGHT AIRCRAFT MARKET, BY MATERIAL	132
13.1	INTRODUCTION	133
13.2	ALUMINUM	134
13.2.1	LIGHTWEIGHT AND HIGH-STRENGTH MATERIAL	134
13.3	COMPOSITES	134
13.3.1	ADVANTAGE OF BEING LIGHTER THAN ALUMINUM	134
13.4	OTHER MATERIALS	134
14	ULTRALIGHT AND LIGHT AIRCRAFT MARKET, BY REGION	135
14.1	INTRODUCTION	136
14.2	NORTH AMERICA	137
14.2.1	PESTLE ANALYSIS	138
14.2.2	US	144
14.2.2.1	Rising demand for personal aviation to drive market	144
14.2.3	CANADA	146
14.2.3.1	Rising interest in recreational aviation to drive market	146
14.3	EUROPE	149
14.3.1	PESTLE ANALYSIS	149
14.3.2	UK	157
14.3.2.1	Technological advancements and increasing interest in sustainable aviation to drive market	157
14.3.3	FRANCE	159
14.3.3.1	R&D of green aviation to drive market	159
14.3.4	GERMANY	161
14.3.4.1	Government environmental policies to drive market	161
14.3.5	RUSSIA	164
14.3.5.1	Increasing adoption of light aircraft in rural areas to drive market	164
14.3.6	ITALY	166
14.3.6.1	Government incentives for R&D in green aviation technologies to drive market	166
14.3.7	SPAIN	168
14.3.7.1	Investment in aviation R&D to drive market	168
14.3.8	REST OF EUROPE	170
14.4	ASIA PACIFIC	172
14.4.1	PESTLE ANALYSIS	173
14.4.2	CHINA	180
14.4.2.1	Regulatory reforms and increasing investments in domestic aerospace technology to drive market	180
?		

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14.4.3	INDIA	182
14.4.3.1	UDAN scheme for regional air travel to drive market	182
14.4.4	JAPAN	184
14.4.4.1	Focus on aerospace innovation to drive market	184
14.4.5	AUSTRALIA	186
14.4.5.1	Favorable aviation regulations to drive market	186
14.4.6	SOUTH KOREA	189
14.4.6.1	Increasing interest in private aviation to drive market	189
14.4.7	REST OF ASIA PACIFIC	191
14.5	MIDDLE EAST	193
14.5.1	PESTLE ANALYSIS	199
14.5.2	GCC	200
14.5.2.1	UAE	200
14.5.2.1.1	Growing popularity of desert tourism to drive market	200
14.5.2.2	Saudi Arabia	202
14.5.2.2.1	Expanding aviation accessibility to drive market	202
14.5.3	REST OF MIDDLE EAST	204
14.6	AFRICA	207
14.6.1	PESTLE ANALYSIS	213
14.6.2	SOUTH AFRICA	214
14.6.2.1	Well-established aviation ecosystem to drive market	214
14.6.3	REST OF AFRICA	216
14.7	LATIN AMERICA	218
14.7.1	PESTLE ANALYSIS	218
14.7.2	BRAZIL	225
14.7.2.1	Government's aviation programs to improve connectivity in remote areas to drive market	225
14.7.3	MEXICO	227
14.7.3.1	Booming tourism sector to drive market	227
14.7.4	REST OF LATIN AMERICA	230
15	COMPETITIVE LANDSCAPE	233
15.1	INTRODUCTION	233
15.2	KEY PLAYER STRATEGIES/RIGHT TO WIN, 2020-2025	233
15.3	REVENUE ANALYSIS, 2020-2023	235
15.4	MARKET SHARE ANALYSIS, 2023	236
15.5	COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023	238
15.5.1	STARS	238
15.5.2	EMERGING LEADERS	238
15.5.3	PERVASIVE PLAYERS	238
15.5.4	PARTICIPANTS	238
15.5.5	COMPANY FOOTPRINT	240
15.6	COMPANY EVALUATION MATRIX: START-UPS/SMES, 2023	245
15.6.1	PROGRESSIVE COMPANIES	245
15.6.2	RESPONSIVE COMPANIES	245
15.6.3	DYNAMIC COMPANIES	245
15.6.4	STARTING BLOCKS	245
15.6.5	COMPETITIVE BENCHMARKING	247
15.7	COMPANY VALUATION AND FINANCIAL METRICS	249

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15.8	BRAND/PRODUCT COMPARISON	250
15.9	COMPETITIVE SCENARIO	251
15.9.1	PRODUCT LAUNCHES	251
15.9.2	DEALS	252
15.9.3	OTHER DEVELOPMENTS	255
16	COMPANY PROFILES	261
16.1	KEY PLAYERS	261
16.1.1	CIRRUS AIRCRAFT	261
16.1.1.1	Business overview	261
16.1.1.2	Products/Solutions/Services offered	261
16.1.1.3	Recent developments	262
16.1.1.4	MnM view	262
16.1.1.4.1	Key strengths	262
16.1.1.4.2	Strategic choices	262
16.1.1.4.3	Weaknesses and competitive threats	262
16.1.2	COSTRUZIONI AERONAUTICHE TECNAM SPA	263
16.1.2.1	Business overview	263
16.1.2.2	Products/Solutions/Services offered	263
16.1.2.3	Recent developments	264
16.1.2.4	MnM view	266
16.1.2.4.1	Key strengths	266
16.1.2.4.2	Strategic choices	266
16.1.2.4.3	Weaknesses and competitive threats	266
16.1.3	TEXTRON INC.	267
16.1.3.1	Business overview	267
16.1.3.2	Products/Solutions/Services offered	268
16.1.3.3	Recent developments	270
16.1.3.4	MnM view	272
16.1.3.4.1	Key strengths	272
16.1.3.4.2	Strategic choices	272
16.1.3.4.3	Weaknesses and competitive threats	273
?		
16.1.4	PILATUS AIRCRAFT	274
16.1.4.1	Business overview	274
16.1.4.2	Products/Solutions/Services offered	275
16.1.4.3	Recent developments	276
16.1.4.4	MnM view	277
16.1.4.4.1	Key strengths	277
16.1.4.4.2	Strategic choices	277
16.1.4.4.3	Weaknesses and competitive threats	277
16.1.5	PIPER AIRCRAFT, INC.	278
16.1.5.1	Business overview	278
16.1.5.2	Products/Solutions/Services offered	278
16.1.5.3	Recent developments	279
16.1.5.4	MnM view	282
16.1.5.4.1	Key strengths	282
16.1.5.4.2	Strategic choices	282

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16.1.5.4.3	Weaknesses and competitive threats	282
16.1.6	EVEKTOR	283
16.1.6.1	Business overview	283
16.1.6.2	Products/Solutions/Services offered?	283
16.1.6.3	Recent developments	284
16.1.7	AMERICAN LEGEND AIRCRAFT CO.	285
16.1.7.1	Business overview	285
16.1.7.2	Products/Solutions/Services offered?	285
16.1.8	THRUST AIRCRAFT PRIVATE LIMITED	286
16.1.8.1	Business overview	286
16.1.8.2	Products/Solutions/Services offered?	286
16.1.9	AIR TRACTOR	287
16.1.9.1	Business overview	287
16.1.9.2	Products/Solutions/Services offered?	287
16.1.9.3	Recent developments	288
16.1.10	P&M AVIATION	289
16.1.10.1	Business overview	289
16.1.10.2	Products/Solutions/Services offered?	289
16.1.11	QUICKSILVER AIRCRAFT	290
16.1.11.1	Business overview	290
16.1.11.2	Products/Solutions/Services offered?	290
16.1.12	FLIGHT DESIGN GENERAL AVIATION GMBH	291
16.1.12.1	Business overview	291
16.1.12.2	Products/Solutions/Services offered	291
16.1.12.3	Recent developments	292
?		
16.1.13	AEROPRO S.R.O	293
16.1.13.1	Business overview	293
16.1.13.2	Products/Solutions/Services offered	293
16.1.13.3	Recent developments	293
16.1.14	AUTOGYRO GMBH	294
16.1.14.1	Business overview	294
16.1.14.2	Products/Solutions/Services offered	294
16.1.15	VULCANAIR	295
16.1.15.1	Business overview	295
16.1.15.2	Products/Solutions/Services offered	295
16.1.16	HONDA AIRCRAFT COMPANY	296
16.1.16.1	Business overview	296
16.1.16.2	Products/Solutions/Services offered	296
16.1.16.3	Recent developments	297
16.2	OTHER PLAYERS	298
16.2.1	VOLOCOPTER GMBH	298
16.2.2	LILIUM GMBH	298
16.2.3	NEVA AEROSPACE	299
16.2.4	OPENER AERO	299
16.2.5	WISK AERO	300
16.2.6	JOBY AVIATION	300

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16.2.7	WING AVIATION LLC	301
16.2.8	KAREM AIRCRAFT INC.	301
16.2.9	LIFT AIRCRAFT INC.	302
16.2.10	XTI AIRCRAFT	302
17	APPENDIX	303
17.1	DISCUSSION GUIDE	303
17.2	KNOWLEDGESTORE: MARKETSANDMARKETS? SUBSCRIPTION PORTAL	306
17.3	CUSTOMIZATION OPTIONS	308
17.4	RELATED REPORTS	308
17.5	AUTHOR DETAILS	309

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