

Aircraft Pumps Market by Type (Hydraulic pumps, Fuel pumps, Lube and scavenge pumps, Water and waste water pumps, Air conditioning & cooling pumps), Pressure, End Use (OEM, Aftermarket), Technology, Aircraft Type and Region - Global Forecast to 2028

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Report description:

The Aircraft Pumps Market is expected to grow from USD 3.6 billion at a CAGR of 4.8% during the forecast period, reaching USD 4.6 billion by 2028. The escalation in aircraft fleet modernization initiatives, coupled with the demand for enhanced aerodynamic efficiency and weight reduction in aircraft, has emerged as a significant catalyst propelling the aircraft pumps market. This trend is notably driven by the imperative for advanced lightweight systems and compact pump systems within the aircraft pump market

" Fuel Pump Innovations Drive Aircraft Efficiency and Market Growth"

Based on Type, the fuel pump is expected to hold the largest market share. Advanced fuel pump technologies, such as high-flow-rate and lightweight designs, contribute to reduced fuel consumption, longer flight ranges, and improved overall aircraft efficiency, compelling industry growth. Furthermore, the growing demand for fuel-efficient and environmentally friendly aircraft has accelerated the adoption of sophisticated fuel pump systems, which optimize fuel combustion and reduce emissions. This, in turn, spurs market growth, as airlines and manufacturers prioritize modernizing their fleets to meet stringent regulatory standards and economic imperatives.

"High-Pressure Pump Market Surges Amidst Lightweight Material and Electric Propulsion Trends."

Based on Pressure, The market is segmented into up to 350 psi, 350 psi - 1500 psi, 1500 psi - 3000 psi and Above 3000 psi. The

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above 3000 psi segment is to lead the market. The surge in demand for high-pressure pumps aligns with the industry's shift towards lightweight materials, like carbon composites, which necessitate greater hydraulic force for optimal performance. Additionally, the growing adoption of electric and hybrid propulsion systems in aviation has led to an increased need for such pumps to power auxiliary systems, thereby propelling the market's growth in response to evolving technological requirements.

"Advancing Pump Systems for Enhanced Fixed-Wing Aircraft Performance and Compliance"

Based on Aircraft Type, the Fixed-Wing Aircraft market has been segmented into fixed-wing, rotary wing, UAVs. Fixed-wing aircraft, renowned for their sustained, forward motion, necessitate advanced pump systems to maintain critical functions such as fuel transfer, hydraulic power generation, and cooling mechanisms. This imperative integration of sophisticated pump technologies, encompassing lightweight materials, precision engineering, and innovative fluid dynamics, propels market growth. Moreover, stringent environmental regulations and heightened operational efficiency requirements reinforce the prominence of fixed-wing aircraft in driving demand for cutting-edge aircraft pump solutions, thereby catalyzing market expansion.

"Asia Pacific is projected to grow at the highest CAGR during the forecast period."

The Asia Pacific region is estimated to account for the highest growth rate in the Aircraft Pump market during the forecast period. Firstly, the escalating demand for air travel in the region, spurred by a burgeoning middle-class population and increased disposable income, necessitates the expansion and modernization of aircraft fleets, consequently driving demand for advanced pump systems. Additionally, the emphasis on fuel efficiency and reduced emissions, in line with stringent environmental regulations, compels airlines to adopt state-of-the-art pump technologies that enhance aircraft performance. Furthermore, the rapid growth of the aviation industry in emerging economies within the Asia Pacific, coupled with ongoing infrastructural investments, underscores the region's pivotal role in fostering the aircraft pump market's growth trajectory.

The break-up of the profile of primary participants in the aircraft pump 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 - 45%, Europe - 27%, Asia Pacific -16%, Middle East- 7% Latin America- 3%, Africa- 2%.

Safran (France), Eaton Corporation plc (Ireland), Parker-Hannifin Corporation (US), Woodward, Inc. (US), and Crane Co. (US) are some of the leading players operating in the aircraft pumps market report.

Research Coverage:

This research report categorizes the Aircraft Pump market basis of Aircraft Type (Fixed Wing, Rotary Wing, UAVs), By End Use (OEM, Aftermarket), Type (Hydraulic Pumps, Fuel Pumps, Lube and Scavenge pumps, Water and waste eater pumps, Air conditioning and cooling pumps), Technology(Engine Driven, Electric Motor driven, Ram Air Turbine Driven, Air Driven), Pressure (Upto 350 psi, 350 - 1500 psi, 1500 psi - 3000 psi, Above 3000 psi) in these segments have been mapped across major Regions (North America, Europe, Asia Pacific, Middle East, Africa & Latin America). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the Aircraft Pump

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market. 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 pump market. Competitive analysis of upcoming startups in the aircraft pump 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 aircraft pump market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and 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:

- Market Penetration: Comprehensive information on aircraft pump offered by the top players in the market
- An in-depth analysis of the market's DROC (Drivers, Restraints, Opportunities, and Challenges) to provide a comprehensive grasp of the factors influencing the Aircraft Pumps Market. The report explores the significant drivers fueling market expansion, including the rising demand for aircraft with improved fuel efficiency and the continuous evolution of pump technologies. It also covers the obstacles confronting the industry, such as stringent regulatory compliance. Moreover, the report sheds light on the emerging prospects within the market, notably the increasing emphasis on electric and hybrid propulsion systems for aircraft. Furthermore, it evaluates the competitive landscape, market trends, and regional dynamics, furnishing valuable insights for stakeholders seeking effective strategies in the ever-evolving Aircraft Pumps Market.
- Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the aircraft pump market.
- Market Development: Comprehensive information about lucrative markets - the report analyzes the aircraft pump across varied regions
- Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the aircraft pump market.
- Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players in the aircraft pump market.

Table of Contents:

1□INTRODUCTION□78

1.1□STUDY OBJECTIVES□78

1.2□MARKET DEFINITION□78

1.3□MARKET SCOPE□79

FIGURE 1□AIRCRAFT PUMPS MARKET SEGMENTATION□79

1.3.1□REGIONS COVERED□79

1.4□YEARS CONSIDERED□80

1.5□INCLUSIONS AND EXCLUSIONS□80

TABLE 1□AIRCRAFT PUMPS MARKET: INCLUSIONS AND EXCLUSIONS□80

1.6□CURRENCY AND PRICING□80

TABLE 2□USD EXCHANGE RATES□81

1.7□STAKEHOLDERS□81

1.8□SUMMARY OF CHANGES□81

2□RESEARCH METHODOLOGY□82

2.1	RESEARCH DATA	82
	FIGURE 2	REPORT PROCESS FLOW
	FIGURE 3	AIRCRAFT PUMPS MARKET: RESEARCH DESIGN
2.1.1	SECONDARY DATA	83
2.1.2	PRIMARY DATA	84
2.1.2.1	Key primary sources	84
2.1.2.2	Breakdown of primary interviews	84
2.2	RESEARCH LIMITATIONS	85
2.3	MARKET SIZE ESTIMATION	85
2.3.1	MARKET DEFINITION AND SCOPE	86
2.3.2	SEGMENTS AND SUBSEGMENTS	86
2.4	RESEARCH APPROACH AND METHODOLOGY	87
2.4.1	BOTTOM-UP APPROACH	87
2.4.2	AIRCRAFT PUMPS MARKET FOR OEM	87
	FIGURE 4	MARKET SIZE CALCULATION FOR OEMS
2.4.3	AIRCRAFT PUMPS AFTERMARKET	88
	FIGURE 5	MARKET SIZE CALCULATION FOR AFTERMARKET
	FIGURE 6	MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH
2.4.4	TOP-DOWN APPROACH	89
	FIGURE 7	MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH
2.5	DATA TRIANGULATION AND VALIDATION	90
	FIGURE 8	DATA TRIANGULATION
2.5.1	TRIANGULATION THROUGH PRIMARY AND SECONDARY RESEARCH	91
2.6	RECESSION IMPACT ANALYSIS	91
2.7	GROWTH RATE ASSUMPTIONS	91
2.8	RESEARCH ASSUMPTIONS	92
2.9	RISK ANALYSIS	92
3	EXECUTIVE SUMMARY	93
	FIGURE 9	ABOVE 3,000 PSI SEGMENT TO ACCOUNT FOR LARGEST SHARE OF AIRCRAFT PUMPS MARKET IN 2023
	FIGURE 10	AIRCRAFT PUMPS MARKET, BY AIRCRAFT TYPE, 2023
	FIGURE 11	AFTERMARKET SEGMENT TO ACCOUNT FOR LARGER SHARE OF AIRCRAFT PUMPS MARKET IN 2023
	FIGURE 12	AIRCRAFT PUMPS MARKET IN ASIA PACIFIC TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD
4	PREMIUM INSIGHTS	96
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN AIRCRAFT PUMPS MARKET	96
	FIGURE 13	NEED FOR MORE FLEXIBLE AND LIGHT AIRCRAFT WITH IMPROVED LIGHTWEIGHT SYSTEMS AND COMPACT PUMPING SYSTEMS TO DRIVE MARKET
4.2	AIRCRAFT PUMPS MARKET, BY AIRCRAFT TYPE	96
	FIGURE 14	FIXED WING SEGMENT TO LEAD MARKET DURING FORECAST PERIOD
4.3	AIRCRAFT PUMPS MARKET, BY TYPE	97
	FIGURE 15	FUEL PUMPS SEGMENT TO LEAD MARKET DURING FORECAST PERIOD
4.4	AIRCRAFT PUMPS MARKET, BY COUNTRY	97
	FIGURE 16	AIRCRAFT PUMPS MARKET IN TURKEY TO GROW AT HIGHEST CAGR
5	MARKET OVERVIEW	98
5.1	INTRODUCTION	98
5.2	MARKET DYNAMICS	99
	FIGURE 17	AIRCRAFT PUMPS MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES
5.2.1	DRIVERS	99

5.2.1.1	Increase in aircraft renewals and deliveries	99
FIGURE 18 COMMERCIAL AIRCRAFT DELIVERIES, 2017-2026 (UNITS)		
5.2.1.2	Need for more flexible and light aircraft with improved lightweight systems and compact pumping systems	100
5.2.1.3	Increase in UAVs and Hybrid VTOLs	100
5.2.2	RESTRAINTS	101
5.2.2.1	High cost of MRO services	101
5.2.3	OPPORTUNITIES	101
5.2.3.1	Newer technologies in pumps and pumping systems to enhance pumping efficiencies	101
5.2.4	CHALLENGES	101
5.2.4.1	Legal and regulatory barriers	101
5.3	OPERATIONAL DATA	102
TABLE 3 NEW COMMERCIAL AIRPLANE DELIVERIES, BY REGION, 2019-2038		
5.4	TECHNOLOGY ANALYSIS	102
5.4.1	DIGITAL DISPLACEMENT PUMP IN HYDRAULIC SYSTEMS	102
5.4.2	EMERGENCE OF ADAPTIVE ENGINES	102
5.4.3	USE OF LOW CORROSIVE STEEL IN PUMPS	103
5.5	ECOSYSTEM ANALYSIS	103
5.5.1	PROMINENT COMPANIES	103
5.5.2	PRIVATE AND SMALL ENTERPRISES	103
5.5.3	END USERS	103
FIGURE 19 AIRCRAFT PUMPS MARKET: ECOSYSTEM ANALYSIS		
TABLE 4 AIRCRAFT PUMPS MARKET: ROLE OF COMPANIES IN ECOSYSTEM		
5.6	DISRUPTIONS IMPACTING CUSTOMER BUSINESS	105
FIGURE 20 REVENUE SHIFT AND NEW REVENUE POCKETS FOR AIRCRAFT PUMPS MARKET		
5.7	SUPPLY CHAIN ANALYSIS	106
FIGURE 21 AIRCRAFT PUMPS MARKET: SUPPLY CHAIN ANALYSIS		
5.8	CASE STUDY ANALYSIS	107
5.8.1	HYDRAULIC SYSTEMS	107
5.8.2	FUEL SYSTEMS	107
5.8.3	WATER SUPPLY AND DISPOSAL SYSTEMS	107
5.9	TRADE DATA ANALYSIS	108
TABLE 5 TRADE DATA FOR AIRCRAFT PUMPS MARKET		
5.10	PORTER'S FIVE FORCES ANALYSIS	109
TABLE 6 AIRCRAFT PUMPS MARKET: IMPACT OF PORTER'S FIVE FORCES		
5.10.1	THREAT OF NEW ENTRANTS	110
5.10.2	THREAT OF SUBSTITUTES	110
5.10.3	BARGAINING POWER OF SUPPLIERS	110
5.10.4	BARGAINING POWER OF BUYERS	110
5.10.5	INTENSITY OF COMPETITIVE RIVALRY	110
5.11	AVERAGE SELLING PRICE ANALYSIS	111
TABLE 7 AVERAGE SELLING PRICE: OEM AIRCRAFT PUMPS, BY TYPE (USD)		
TABLE 8 AVERAGE SELLING PRICE: AFTERMARKET AIRCRAFT PUMPS, BY TYPE (USD)		
5.12	VOLUME DATA	112
TABLE 9 OEM: AIRCRAFT PUMPS MARKET SIZE, BY FIXED-WING AND ROTARY-WING AIRCRAFT TYPE (UNITS)		
5.13	TARIFF AND REGULATORY LANDSCAPE	112
5.13.1	FUEL PUMPS	112
5.14	KEY STAKEHOLDERS AND BUYING CRITERIA	113

FIGURE 22	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS OF AIRCRAFT PUMPS	113
TABLE 10	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS OF AIRCRAFT PUMPS (%)	113
5.14.1	BUYING CRITERIA	114
5.14.2	KEY BUYING CRITERIA FOR AIRCRAFT PUMPS	114
FIGURE 23	KEY BUYING CRITERIA FOR AIRCRAFT PUMPS	114
5.15	KEY CONFERENCES AND EVENTS IN 2023-2024	115
TABLE 11	AIRCRAFT PUMPS MARKET: KEY CONFERENCES AND EVENTS	115
5.16	TARIFF AND REGULATORY LANDSCAPE FOR AEROSPACE INDUSTRY	116
TABLE 12	NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	116
TABLE 13	EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	116
TABLE 14	ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	117
TABLE 15	REST OF WORLD: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	118
6	INDUSTRY TRENDS	119
6.1	INTRODUCTION	119
6.2	VALUE CHAIN ANALYSIS	120
FIGURE 24	AIRCRAFT PUMPS MARKET: VALUE CHAIN ANALYSIS	120
6.3	EMERGING TECHNOLOGIES	121
6.3.1	DEVELOPMENT OF HIGH-STRENGTH STEEL	121
6.3.2	SMART FUEL METERING MOTOR-DRIVEN PUMPS	121
6.3.3	INFORMATION TECHNOLOGY-INTEGRATED PUMPING SYSTEMS	121
6.3.4	SMART MATERIAL USED FOR HYDRAULIC PUMPS	121
6.3.5	SMART PUMPS	122
6.4	IMPACT OF MEGATRENDS	122
6.5	INNOVATIONS AND PATENT ANALYSIS	123
TABLE 16	INNOVATIONS AND PATENT ANALYSIS	123
7	AIRCRAFT PUMPS MARKET, BY PRESSURE	125
7.1	INTRODUCTION	126
FIGURE 25	ABOVE 3,000 PSI SEGMENT TO LEAD MARKET DURING FORECAST PERIOD	126
TABLE 17	AIRCRAFT PUMPS MARKET, BY PRESSURE, 2019-2022 (USD MILLION)	126
TABLE 18	AIRCRAFT PUMPS MARKET, BY PRESSURE, 2023-2028 (USD MILLION)	127
7.2	UP TO 350 PSI	127
7.3	350-1,500 PSI	127
7.4	1,500-3,000 PSI	127
7.5	ABOVE 3,000 PSI	127
8	AIRCRAFT PUMPS MARKET, BY TECHNOLOGY	128
8.1	INTRODUCTION	129
FIGURE 26	ENGINE DRIVEN SEGMENT TO LEAD MARKET DURING FORECAST PERIOD	129
TABLE 19	AIRCRAFT PUMPS MARKET, BY TECHNOLOGY, 2019-2022 (USD MILLION)	129
TABLE 20	AIRCRAFT PUMPS MARKET, BY TECHNOLOGY, 2023-2028 (USD MILLION)	129
8.2	ENGINE DRIVEN	130
8.3	ELECTRIC MOTOR DRIVEN	130
8.4	RAM AIR TURBINE DRIVEN	130
8.5	AIR DRIVEN	130
9	AIRCRAFT PUMPS MARKET, BY AIRCRAFT TYPE	131
9.1	INTRODUCTION	132
FIGURE 27	FIXED WING SEGMENT TO LEAD MARKET DURING FORECAST PERIOD	132
TABLE 21	AIRCRAFT PUMPS MARKET, BY AIRCRAFT TYPE, 2019-2022 (USD MILLION)	132

TABLE 22 AIRCRAFT PUMPS MARKET, BY AIRCRAFT TYPE, 2023-2028 (USD MILLION) 132

9.2 FIXED WING 133

9.2.1 COMMERCIAL AVIATION 133

TABLE 23 FIXED WING: AIRCRAFT PUMPS MARKET, BY COMMERCIAL AVIATION TYPE, 2019-2022 (USD MILLION) 133

TABLE 24 FIXED WING: AIRCRAFT PUMPS MARKET, BY COMMERCIAL AVIATION TYPE, 2023-2028 (USD MILLION) 133

9.2.1.1 Narrow-body aircraft (NBA) 133

9.2.1.1.1 Growth in air passenger traffic to drive market 133

9.2.1.2 Wide-body aircraft (WBA) 134

9.2.1.2.1 Increase in passenger travel to drive market 134

9.2.1.3 Regional transport aircraft (RTA) 134

9.2.1.3.1 Increasing use of regional transport aircraft in US and India to drive market 134

9.2.2 BUSINESS AND GENERAL AVIATION 135

TABLE 25 FIXED WING: AIRCRAFT PUMPS MARKET, BY BUSINESS AND GENERAL AVIATION TYPE, 2019-2022 (USD MILLION) 135

TABLE 26 FIXED WING: AIRCRAFT PUMPS MARKET, BY BUSINESS AND GENERAL AVIATION TYPE, 2023-2028 (USD MILLION) 135

9.2.2.1 Business jets 135

9.2.2.1.1 Increase in corporate activities globally to drive market 135

9.2.2.2 Light aircraft 135

9.2.2.2.1 Technological advancements and modernization of general aviation to drive market 135

9.2.3 MILITARY AVIATION 136

TABLE 27 FIXED WING: AIRCRAFT PUMPS MARKET, BY MILITARY AVIATION TYPE, 2019-2022 (USD MILLION) 136

TABLE 28 FIXED WING: AIRCRAFT PUMPS MARKET, BY MILITARY AVIATION TYPE, 2023-2028 (USD MILLION) 136

9.2.3.1 Fighter aircraft 136

9.2.3.1.1 Growing concerns over border tensions to drive market 136

9.2.3.2 Transport aircraft 137

9.2.3.2.1 Increasing use of transport aircraft in military operations to drive market 137

9.2.3.3 Special mission aircraft 137

9.2.3.3.1 Growing defense spending and territorial disputes to drive market 137

9.3 ROTARY WING 137

TABLE 29 ROTARY WING: AIRCRAFT PUMPS MARKET, BY TYPE, 2019-2022 (USD MILLION) 138

TABLE 30 ROTARY WING: AIRCRAFT PUMPS MARKET, BY TYPE, 2023-2028 (USD MILLION) 138

9.3.1 COMMERCIAL HELICOPTER 138

9.3.1.1 Increasing use of commercial helicopters for multiple purposes to drive market 138

9.3.2 MILITARY HELICOPTER 138

9.3.2.1 Technologically advanced military helicopters with next-generation sensors to drive market 138

9.4 UNMANNED AERIAL VEHICLE (UAV) 139

TABLE 31 UAV: AIRCRAFT PUMPS MARKET, BY TYPE, 2019-2022 (USD MILLION) 139

TABLE 32 UAV: AIRCRAFT PUMPS MARKET, BY TYPE, 2023-2028 (USD MILLION) 140

9.4.1 FIXED WING UAV 140

9.4.1.1 Ability to fly for long durations to drive market 140

9.4.2 FIXED-WING VTOL UAV 140

9.4.2.1 Ability to carry heavy payloads to drive market 140

9.4.3 ROTARY-WING UAV 141

9.4.3.1 Applications in search & rescue operations, precision farming, and law enforcement to drive market 141

10 AIRCRAFT PUMPS MARKET, BY END USE 142

10.1 INTRODUCTION 143

FIGURE 28 AFTERMARKET SEGMENT TO LEAD MARKET DURING FORECAST PERIOD 143

TABLE 33 AIRCRAFT PUMPS MARKET, BY END USE, 2019-2022 (USD MILLION) 143

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TABLE 34	AIRCRAFT PUMPS MARKET, BY END USE, 2023-2028 (USD MILLION)	143
10.2	OEM	144
10.2.1	INCREASING AIRCRAFT DELIVERIES TO DRIVE MARKET	144
10.3	AFTERMARKET	144
10.3.1	INCREASING AIRCRAFT FLEET SIZE TO DRIVE MARKET	144
11	AIRCRAFT PUMPS MARKET, BY TYPE	145
11.1	INTRODUCTION	146
FIGURE 29	FUEL PUMPS SEGMENT TO LEAD MARKET DURING FORECAST PERIOD	146
TABLE 35	AIRCRAFT PUMPS MARKET, BY TYPE, 2019-2022 (USD MILLION)	146
TABLE 36	AIRCRAFT PUMPS MARKET, BY TYPE, 2023-2028 (USD MILLION)	147
11.2	HYDRAULIC PUMPS	147
11.3	FUEL PUMPS	147
11.4	LUBE AND SCAVENGE PUMPS	148
11.5	WATER AND WASTEWATER PUMPS	148
11.6	AIR CONDITIONING AND COOLING PUMPS	148
12	AIRCRAFT PUMPS MARKET, BY REGION	149
12.1	INTRODUCTION	150
FIGURE 30	AIRCRAFT PUMPS MARKET: REGIONAL SNAPSHOT	150
TABLE 37	AIRCRAFT PUMPS MARKET, BY REGION, 2019-2022 (USD MILLION)	150
TABLE 38	AIRCRAFT PUMPS MARKET, BY REGION, 2023-2028 (USD MILLION)	151
TABLE 39	AIRCRAFT PUMPS OEM MARKET, BY REGION, 2019-2022 (USD MILLION)	151
TABLE 40	AIRCRAFT PUMPS OEM MARKET, BY REGION, 2023-2028 (USD MILLION)	151
TABLE 41	AIRCRAFT PUMPS AFTERMARKET, BY REGION, 2019-2022 (USD MILLION)	152
TABLE 42	AIRCRAFT PUMPS AFTERMARKET, BY REGION, 2023-2028 (USD MILLION)	152
12.2	NORTH AMERICA	152
12.2.1	PESTLE ANALYSIS	153
FIGURE 31	NORTH AMERICA: AIRCRAFT PUMPS MARKET SNAPSHOT	154
TABLE 43	NORTH AMERICA: AIRCRAFT PUMPS MARKET, BY COUNTRY, 2019-2022 (USD MILLION)	154
TABLE 44	NORTH AMERICA: AIRCRAFT PUMPS MARKET, BY COUNTRY, 2023-2028 (USD MILLION)	155
TABLE 45	NORTH AMERICA: AIRCRAFT PUMPS MARKET, BY AIRCRAFT TYPE, 2019-2022 (USD MILLION)	155
TABLE 46	NORTH AMERICA: AIRCRAFT PUMPS MARKET, BY AIRCRAFT TYPE, 2023-2028 (USD MILLION)	155
12.2.2	OEM MARKET	155
TABLE 47	NORTH AMERICA: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2019-2022 (USD MILLION)	156
TABLE 48	NORTH AMERICA: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2023-2028 (USD MILLION)	156
TABLE 49	NORTH AMERICA: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2019-2022 (USD MILLION)	156
TABLE 50	NORTH AMERICA: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2023-2028 (USD MILLION)	156
TABLE 51	NORTH AMERICA: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2019-2022 (USD MILLION)	157
TABLE 52	NORTH AMERICA: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2023-2028 (USD MILLION)	157
TABLE 53	NORTH AMERICA: AIRCRAFT PUMPS OEM MARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2019-2022 (USD MILLION)	157
TABLE 54	NORTH AMERICA: AIRCRAFT PUMPS OEM MARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2023-2028 (USD MILLION)	157
TABLE 55	NORTH AMERICA: AIRCRAFT PUMPS OEM MARKET IN UAV, BY TYPE, 2019-2022 (USD MILLION)	158

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TABLE 56 NORTH AMERICA: AIRCRAFT PUMPS OEM MARKET IN UAV, BY TYPE, 2023-2028 (USD MILLION) 158

12.2.3 AFTERMARKET 158

TABLE 57 NORTH AMERICA: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2019-2022 (USD MILLION) 158

TABLE 58 NORTH AMERICA: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2023-2028 (USD MILLION) 159

TABLE 59 NORTH AMERICA: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2019-2022 (USD MILLION) 159

TABLE 60 NORTH AMERICA: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2023-2028 (USD MILLION) 159

TABLE 61 NORTH AMERICA: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2019-2022 (USD MILLION) 159

TABLE 62 NORTH AMERICA: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2023-2028 (USD MILLION) 160

TABLE 63 NORTH AMERICA: AIRCRAFT PUMPS AFTERMARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2019-2022 (USD MILLION) 160

TABLE 64 NORTH AMERICA: AIRCRAFT PUMPS AFTERMARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2023-2028 (USD MILLION) 160

TABLE 65 NORTH AMERICA: AIRCRAFT PUMPS AFTERMARKET IN UAV, BY TYPE, 2019-2022 (USD MILLION) 160

TABLE 66 NORTH AMERICA: AIRCRAFT PUMPS AFTERMARKET IN UAV, BY TYPE, 2023-2028 (USD MILLION) 161

12.2.4 US 161

12.2.4.1 Presence of leading aircraft pump manufacturers to drive market 161

TABLE 67 US: AIRCRAFT PUMPS MARKET BY AIRCRAFT TYPE, 2019-2022 (USD MILLION) 161

TABLE 68 US: AIRCRAFT PUMPS MARKET BY AIRCRAFT TYPE, 2023-2028 (USD MILLION) 162

12.2.4.2 OEM market 162

TABLE 69 US: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2019-2022 (USD MILLION) 162

TABLE 70 US: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2023-2028 (USD MILLION) 162

TABLE 71 US: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2019-2022 (USD MILLION) 162

TABLE 72 US: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2023-2028 (USD MILLION) 163

TABLE 73 US: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2019-2022 (USD MILLION) 163

TABLE 74 US: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2023-2028 (USD MILLION) 163

TABLE 75 US: AIRCRAFT PUMPS OEM MARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2019-2022 (USD MILLION) 163

TABLE 76 US: AIRCRAFT PUMPS OEM MARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2023-2028 (USD MILLION) 164

TABLE 77 US: AIRCRAFT PUMPS OEM MARKET IN UAV, BY TYPE, 2019-2022 (USD MILLION) 164

TABLE 78 US: AIRCRAFT PUMPS OEM MARKET IN UAV, BY TYPE, 2023-2028 (USD MILLION) 164

12.2.4.3 Aftermarket 164

TABLE 79 US: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2019-2022 (USD MILLION) 164

TABLE 80 US: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2023-2028 (USD MILLION) 165

TABLE 81 US: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2019-2022 (USD MILLION) 165

TABLE 82 US: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2023-2028 (USD MILLION) 165

TABLE 83 US: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2019-2022 (USD MILLION) 165

TABLE 84 US: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2023-2028 (USD MILLION) 166

TABLE 85 US: AIRCRAFT PUMPS AFTERMARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2019-2022 (USD MILLION) 166

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TABLE 86	US: AIRCRAFT PUMPS AFTERMARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2023-2028 (USD MILLION)	166
TABLE 87	US: AIRCRAFT PUMPS AFTERMARKET IN UAV, BY TYPE, 2019-2022 (USD MILLION)	166
TABLE 88	US: AIRCRAFT PUMPS AFTERMARKET IN UAV, BY TYPE, 2023-2028 (USD MILLION)	167
12.2.5	CANADA	167
12.2.5.1	Investments in R&D of new materials to drive market	167
TABLE 89	CANADA: AIRCRAFT PUMPS MARKET, BY AIRCRAFT TYPE, 2019-2022 (USD MILLION)	167
TABLE 90	CANADA: AIRCRAFT PUMPS MARKET, BY AIRCRAFT TYPE, 2023-2028 (USD MILLION)	167
12.2.5.2	OEM market	168
TABLE 91	CANADA: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2019-2022 (USD MILLION)	168
TABLE 92	CANADA: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2023-2028 (USD MILLION)	168
TABLE 93	CANADA: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2019-2022 (USD MILLION)	168
TABLE 94	CANADA: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2023-2028 (USD MILLION)	168
TABLE 95	CANADA: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2019-2022 (USD MILLION)	169
TABLE 96	CANADA: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2023-2028 (USD MILLION)	169
TABLE 97	CANADA: AIRCRAFT PUMPS OEM MARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2019-2022 (USD MILLION)	169
TABLE 98	CANADA: AIRCRAFT PUMPS OEM MARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2023-2028 (USD MILLION)	169
TABLE 99	CANADA: AIRCRAFT PUMPS OEM MARKET IN UAV, BY TYPE, 2019-2022 (USD MILLION)	170
TABLE 100	CANADA: AIRCRAFT PUMPS OEM MARKET IN UAV, BY TYPE, 2023-2028 (USD MILLION)	170
12.2.5.3	Aftermarket	170
TABLE 101	CANADA: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2019-2022 (USD MILLION)	170
TABLE 102	CANADA: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2023-2028 (USD MILLION)	170
TABLE 103	CANADA: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2019-2022 (USD MILLION)	171
TABLE 104	CANADA: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2023-2028 (USD MILLION)	171
TABLE 105	CANADA: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2019-2022 (USD MILLION)	171
TABLE 106	CANADA: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2023-2028 (USD MILLION)	171
TABLE 107	CANADA: AIRCRAFT PUMPS AFTERMARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2019-2022 (USD MILLION)	172
TABLE 108	CANADA: AIRCRAFT PUMPS AFTERMARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2023-2028 (USD MILLION)	172
TABLE 109	CANADA: AIRCRAFT PUMPS AFTERMARKET IN UAV, BY TYPE, 2019-2022 (USD MILLION)	172
TABLE 110	CANADA: AIRCRAFT PUMPS AFTERMARKET IN UAV, BY TYPE, 2023-2028 (USD MILLION)	172
12.3	EUROPE	173
FIGURE 32	EUROPE: AIRCRAFT PUMPS MARKET SNAPSHOT	173
12.3.1	PESTLE ANALYSIS	174
TABLE 111	EUROPE: AIRCRAFT PUMPS MARKET, BY COUNTRY, 2019-2022 (USD MILLION)	175
TABLE 112	EUROPE: AIRCRAFT PUMPS MARKET, BY COUNTRY, 2023-2028 (USD MILLION)	175
TABLE 113	EUROPE: AIRCRAFT PUMPS MARKET, BY AIRCRAFT TYPE, 2019-2022 (USD MILLION)	175

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TABLE 114 EUROPE: AIRCRAFT PUMPS MARKET, BY AIRCRAFT TYPE, 2023-2028 (USD MILLION) 176

12.3.2 OEM MARKET 176

TABLE 115 EUROPE: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2019-2022 (USD MILLION) 176

TABLE 116 EUROPE: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2023-2028 (USD MILLION) 176

TABLE 117 EUROPE: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2019-2022 (USD MILLION) 177

TABLE 118 EUROPE: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2023-2028 (USD MILLION) 177

TABLE 119 EUROPE: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2019-2022 (USD MILLION) 177

TABLE 120 EUROPE: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2023-2028 (USD MILLION) 177

TABLE 121 EUROPE: AIRCRAFT PUMPS OEM MARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2019-2022 (USD MILLION) 178

TABLE 122 EUROPE: AIRCRAFT PUMPS OEM MARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2023-2028 (USD MILLION) 178

TABLE 123 EUROPE: AIRCRAFT PUMPS OEM MARKET IN UAV, BY TYPE, 2019-2022 (USD MILLION) 178

TABLE 124 EUROPE: AIRCRAFT PUMPS OEM MARKET IN UAV, BY TYPE, 2023-2028 (USD MILLION) 178

12.3.3 AFTERMARKET 179

TABLE 125 EUROPE: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2019-2022 (USD MILLION) 179

TABLE 126 EUROPE: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2023-2028 (USD MILLION) 179

TABLE 127 EUROPE: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2019-2022 (USD MILLION) 179

TABLE 128 EUROPE: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2023-2028 (USD MILLION) 180

TABLE 129 EUROPE: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2019-2022 (USD MILLION) 180

TABLE 130 EUROPE: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2023-2028 (USD MILLION) 180

TABLE 131 EUROPE: AIRCRAFT PUMPS AFTERMARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2019-2022 (USD MILLION) 180

TABLE 132 EUROPE: AIRCRAFT PUMPS AFTERMARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2023-2028 (USD MILLION) 181

TABLE 133 EUROPE: AIRCRAFT PUMPS AFTERMARKET IN UAV, BY TYPE, 2019-2022 (USD MILLION) 181

TABLE 134 EUROPE: AIRCRAFT PUMPS AFTERMARKET IN UAV, BY TYPE, 2023-2028 (USD MILLION) 181

12.3.4 UK 181

12.3.4.1 Increase in air travel to drive market 181

TABLE 135 UK: AIRCRAFT PUMPS MARKET, BY AIRCRAFT TYPE, 2019-2022 (USD MILLION) 182

TABLE 136 UK: AIRCRAFT PUMPS MARKET, BY AIRCRAFT TYPE, 2023-2028 (USD MILLION) 182

12.3.4.2 OEM market 182

TABLE 137 UK: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2019-2022 (USD MILLION) 182

TABLE 138 UK: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2023-2028 (USD MILLION) 182

TABLE 139 UK: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2019-2022 (USD MILLION) 183

TABLE 140 UK: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2023-2028 (USD

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MILLION) 183

TABLE 141 UK: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2019-2022 (USD MILLION) 183

TABLE 142 UK: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2023-2028 (USD MILLION) 183

TABLE 143 UK: AIRCRAFT PUMPS AFTERMARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2019-2022 (USD MILLION) 184

TABLE 144 UK: AIRCRAFT PUMPS AFTERMARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2023-2028 (USD MILLION) 184

TABLE 145 UK: AIRCRAFT PUMPS OEM MARKET IN UAV, BY TYPE, 2019-2022 (USD MILLION) 184

TABLE 146 UK: AIRCRAFT PUMPS OEM MARKET IN UAV, BY TYPE, 2023-2028 (USD MILLION) 184

12.3.4.3 Aftermarket 185

TABLE 147 UK: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2019-2022 (USD MILLION) 185

TABLE 148 UK: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2023-2028 (USD MILLION) 185

TABLE 149 UK: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2019-2022 (USD MILLION) 185

TABLE 150 UK: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2023-2028 (USD MILLION) 185

TABLE 151 UK: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2019-2022 (USD MILLION) 186

TABLE 152 UK: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2023-2028 (USD MILLION) 186

TABLE 153 UK: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY TYPE, 2019-2022 (USD MILLION) 186

TABLE 154 UK: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY TYPE, 2023-2028 (USD MILLION) 186

TABLE 155 UK: AIRCRAFT PUMPS AFTERMARKET IN UAV, BY TYPE, 2019-2022 (USD MILLION) 187

TABLE 156 UK: AIRCRAFT PUMPS AFTERMARKET IN UAV, BY TYPE, 2023-2028 (USD MILLION) 187

12.3.5 France 187

12.3.5.1 Considerable investments in aerospace systems and components to drive market 187

TABLE 157 FRANCE: AIRCRAFT PUMPS MARKET, BY AIRCRAFT TYPE, 2019-2022 (USD MILLION) 187

TABLE 158 FRANCE: AIRCRAFT PUMPS MARKET, BY AIRCRAFT TYPE, 2023-2028 (USD MILLION) 188

12.3.5.2 OEM market 188

TABLE 159 FRANCE: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2019-2022 (USD MILLION) 188

TABLE 160 FRANCE: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2023-2028 (USD MILLION) 188

TABLE 161 FRANCE: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2019-2022 (USD MILLION) 188

TABLE 162 FRANCE: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2023-2028 (USD MILLION) 189

TABLE 163 FRANCE: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2019-2022 (USD MILLION) 189

TABLE 164 FRANCE: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2023-2028 (USD MILLION) 189

TABLE 165 FRANCE: AIRCRAFT PUMPS OEM MARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2019-2022 (USD MILLION) 189

TABLE 166 FRANCE: AIRCRAFT PUMPS OEM MARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2023-2028 (USD MILLION) 190

TABLE 167 FRANCE: AIRCRAFT PUMPS OEM MARKET IN UAV, BY TYPE, 2019-2022 (USD MILLION) 190

TABLE 168 FRANCE: AIRCRAFT PUMPS OEM MARKET IN UAV, BY TYPE, 2023-2028 (USD MILLION) 190

12.3.5.3 Aftermarket 190

TABLE 169 FRANCE: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2019-2022 (USD MILLION) 190

TABLE 170 FRANCE: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2023-2028 (USD

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MILLION) 191

TABLE 171 FRANCE: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2019-2022 (USD MILLION) 191

TABLE 172 FRANCE: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2023-2028 (USD MILLION) 191

TABLE 173 FRANCE: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2019-2022 (USD MILLION) 191

TABLE 174 FRANCE: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2023-2028 (USD MILLION) 192

TABLE 175 FRANCE: AIRCRAFT PUMPS AFTERMARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2019-2022 (USD MILLION) 192

TABLE 176 FRANCE: AIRCRAFT PUMPS AFTERMARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2023-2028 (USD MILLION) 192

TABLE 177 FRANCE: AIRCRAFT PUMPS AFTERMARKET IN UAV, BY TYPE, 2019-2022 (USD MILLION) 192

TABLE 178 FRANCE: AIRCRAFT PUMPS AFTERMARKET IN UAV, BY TYPE, 2023-2028 (USD MILLION) 193

12.3.6 GERMANY 193

12.3.6.1 Investments in aerospace technology and air connectivity to drive market 193

TABLE 179 GERMANY: AIRCRAFT PUMPS MARKET, BY AIRCRAFT TYPE, 2019-2022 (USD MILLION) 193

TABLE 180 GERMANY: AIRCRAFT PUMPS MARKET, BY AIRCRAFT TYPE, 2023-2028 (USD MILLION) 193

12.3.6.2 OEM market 194

TABLE 181 GERMANY: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2019-2022 (USD MILLION) 194

TABLE 182 GERMANY: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2023-2028 (USD MILLION) 194

TABLE 183 GERMANY: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2019-2022 (USD MILLION) 194

TABLE 184 GERMANY: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2023-2028 (USD MILLION) 194

TABLE 185 GERMANY: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2019-2022 (USD MILLION) 195

TABLE 186 GERMANY: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2023-2028 (USD MILLION) 195

TABLE 187 GERMANY: AIRCRAFT PUMPS AFTERMARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2019-2022 (USD MILLION) 195

TABLE 188 GERMANY: AIRCRAFT PUMPS AFTERMARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2023-2028 (USD MILLION) 195

TABLE 189 GERMANY: AIRCRAFT PUMPS OEM MARKET IN UAV, BY TYPE, 2019-2022 (USD MILLION) 196

TABLE 190 GERMANY: AIRCRAFT PUMPS OEM MARKET IN UAV, BY TYPE, 2023-2028 (USD MILLION) 196

12.3.6.3 Aftermarket 196

TABLE 191 GERMANY: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2019-2022 (USD MILLION) 196

TABLE 192 GERMANY: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2023-2028 (USD MILLION) 196

TABLE 193 GERMANY: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2019-2022 (USD MILLION) 197

TABLE 194 GERMANY: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2023-2028 (USD MILLION) 197

TABLE 195 GERMANY: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2019-2022 (USD MILLION) 197

TABLE 196 GERMANY: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2023-2028 (USD MILLION) 197

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TABLE 197	GERMANY: AIRCRAFT PUMPS AFTERMARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2019-2022 (USD MILLION)	198
TABLE 198	GERMANY: AIRCRAFT PUMPS AFTERMARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2023-2028 (USD MILLION)	198
TABLE 199	GERMANY: AIRCRAFT PUMPS AFTERMARKET IN UAV, BY TYPE, 2019-2022 (USD MILLION)	198
TABLE 200	GERMANY: AIRCRAFT PUMPS AFTERMARKET IN UAV, BY TYPE, 2023-2028 (USD MILLION)	198
12.3.7	ITALY	199
12.3.7.1	High demand for civil and corporate helicopters to drive market	199
TABLE 201	ITALY: AIRCRAFT PUMPS MARKET, BY AIRCRAFT TYPE, 2019-2022 (USD MILLION)	199
TABLE 202	ITALY: AIRCRAFT PUMPS MARKET, BY AIRCRAFT TYPE, 2023-2028 (USD MILLION)	199
12.3.7.2	OEM market	199
TABLE 203	ITALY: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2019-2022 (USD MILLION)	199
TABLE 204	ITALY: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2023-2028 (USD MILLION)	200
TABLE 205	ITALY: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2019-2022 (USD MILLION)	200
TABLE 206	ITALY: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2023-2028 (USD MILLION)	200
TABLE 207	ITALY: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2019-2022 (USD MILLION)	200
TABLE 208	ITALY: AIRCRAFT PUMPS OEM MARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2023-2028 (USD MILLION)	201
TABLE 209	ITALY: AIRCRAFT PUMPS OEM MARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2019-2022 (USD MILLION)	201
TABLE 210	ITALY: AIRCRAFT PUMPS OEM MARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2023-2028 (USD MILLION)	201
TABLE 211	ITALY: AIRCRAFT PUMPS OEM MARKET IN UAV, BY TYPE, 2019-2022 (USD MILLION)	201
TABLE 212	ITALY: AIRCRAFT PUMPS OEM MARKET IN UAV, BY TYPE, 2023-2028 (USD MILLION)	202
12.3.7.3	Aftermarket	202
TABLE 213	ITALY: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2019-2022 (USD MILLION)	202
TABLE 214	ITALY: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY COMMERCIAL AVIATION, 2023-2028 (USD MILLION)	202
TABLE 215	ITALY: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2019-2022 (USD MILLION)	202
TABLE 216	ITALY: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY BUSINESS AND GENERAL AVIATION, 2023-2028 (USD MILLION)	203
TABLE 217	ITALY: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2019-2022 (USD MILLION)	203
TABLE 218	ITALY: AIRCRAFT PUMPS AFTERMARKET IN FIXED-WING AIRCRAFT, BY MILITARY AVIATION, 2023-2028 (USD MILLION)	203
TABLE 219	ITALY: AIRCRAFT PUMPS AFTERMARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2019-2022 (USD MILLION)	203
TABLE 220	ITALY: AIRCRAFT PUMPS AFTERMARKET IN ROTARY-WING AIRCRAFT, BY TYPE, 2023-2028 (USD MILLION)	204
TABLE 221	ITALY: AIRCRAFT PUMPS AFTERMARKET IN UAV, BY TYPE, 2019-2022 (USD MILLION)	204
TABLE 222	ITALY: AIRCRAFT PUMPS AFTERMARKET IN UAV, BY TYPE, 2023-2028 (USD MILLION)	204

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