

Europe Attitude and Heading Reference System (AHRS) Market - Industry Trends and Forecast to 2030

Market Report | 2023-05-01 | 212 pages | Data Bridge Market Research

AVAILABLE LICENSES:

- Single User License \$3500.00
- Corporate Users License \$4200.00

Report description:

Europe attitude and heading reference system (AHRS) market is expected to reach USD 390,781.80 thousand by 2030, from USD 223,542.19 thousand in 2022, growing at a CAGR of 7.6% in the forecast period of 2023 to 2030.

Market Segmentation:

Europe Attitude and Heading Reference System (AHRS) Market, By Type (Conventional Attitude & Heading Reference Systems, Air Data Attitude & Heading Reference Systems, and GPS-Aided Attitude & Heading Reference Systems), Offering (Hardware, Software, and Service), Data Type (Digital, and Analog), Grade (High Performance Grade, Tactical Grade, and Industrial Grade), End User (Civil Aviation, Military Aviation, Unmanned Vehicles, Marine, Robotics, and Agriculture), Countries (U.K., France, Italy, Spain, Turkey, Russia, Netherlands, Belgium, Switzerland, Poland, Sweden, Denmark, Norway, Finland, Rest of Europe)- Industry Trends and Forecast to 2030

Overview of Europe Attitude and Heading Reference System (AHRS) Market Dynamics:

Driver

- Growing adoption of unmanned systems

Restrain

- High cost of AHRS system

Opportunity

- Advancements in technology such as fiber optic gyros, quantum sensors

Market Players:

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Some of the key market players operating in the Europe attitude and heading reference system (AHRS) market are listed below:

- Safran
- Sparton
- PARKER HANNIFIN CORP
- Honeywell International Inc.
- Northrop Grumman
- Aeron Systems Private Limited
- Bestech Australia
- CEVA, Inc.
- CTi Sensors
- Gladiator Technologies, Inc.
- Greenwich AeroGroup
- Hyper Tech
- Inertial Labs, Inc.
- iXblue SAS
- KVH Industries, Inc.
- INERTIAL SENSE
- LX navigation d.o.o.
- Raytheon Technologies Corporation
- Silicon Sensing Systems Limited
- Thales, Tronics (A Subsidiary of TDK Group of Company)
- VectorNav Technologies, LLC
- uavnavigation.com
- SBG SYSTEMS

Table of Contents:

TABLE OF CONTENTS	
1 INTRODUCTION	34
1.1 OBJECTIVES OF THE STUDY	34
1.2 MARKET DEFINITION	34
1.3 OVERVIEW OF THE EUROPE ATTITUDE AND HEADING REFERENCE SYSTEM (AHRS) MARKET	34
1.4 CURRENCY AND PRICING	36
1.5 LIMITATIONS	36
1.6 MARKETS COVERED	37
2 MARKET SEGMENTATION	41
2.1 MARKETS COVERED	41
2.2 GEOGRAPHICAL SCOPE	42
2.3 YEARS CONSIDERED FOR THE STUDY	43
2.4 DBMR TRIPOD DATA VALIDATION MODEL	44
2.5 PRIMARY INTERVIEWS WITH KEY OPINION LEADERS	47

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

2.6	DBMR MARKET POSITION GRID	48
2.7	VENDOR SHARE ANALYSIS	49
2.8	MULTIVARIATE MODELING	50
2.9	TYPE TIMELINE CURVE	51
2.10	MARKET END-USER COVERAGE GRID	52
2.11	SECONDARY SOURCES	53
2.12	ASSUMPTIONS	53
3	EXECUTIVE SUMMARY	54
4	PREMIUM INSIGHTS	56
4.1	VALUE CHAIN ANALYSIS	57
4.2	PORTER'S FIVE FORCES ANALYSIS	59
4.3	TECHNOLOGICAL TRENDS	60
4.3.1	FIBER OPTICS GYROSCOPE	60
4.3.2	MEMES GYROSCOPES	61
4.3.3	GNSS-AIDED INERTIAL NAVIGATION SYSTEM (GNSS/INS)	62
4.4	PATENT ANALYSIS	63
4.5	CASE STUDIES	65
4.5.1	CASE STUDY 1	65
4.5.2	CASE STUDY 2	65
4.5.3	CASE STUDY 3:	66
5	REGULATORY FRAMEWORK	67
6	MARKET OVERVIEW	69
6.1	DRIVERS	71
6.1.1	ADVANCEMENT IN TECHNOLOGY	71
6.1.2	INCREASING DEMAND FOR AHRS IN AVIATION	72
6.1.3	GROWING ADOPTION OF UNMANNED SYSTEMS	73
6.1.4	GROWTH IN DEFENSE SPENDING BY VARIOUS GOVERNMENTS	74
6.1.5	INCREASING SAFETY REQUIREMENTS	75
6.2	RESTRAINTS	76
6.2.1	HIGH COST OF AHRS SYSTEM	76
6.2.2	STRINGENT REGULATORY REQUIREMENTS	77
6.3	OPPORTUNITY	77
6.3.1	INCREASING INVESTMENT IN SPACE EXPLORATION	77
6.3.2	GROWING DEMAND FOR AHRS IN MARINE APPLICATIONS	78
6.3.3	INCREASING APPLICATION OF AHRS IN ROBOTICS AND VIRTUAL REALITY	79
6.3.4	ADVANCEMENTS IN TECHNOLOGY SUCH AS FIBER OPTIC GYROS, QUANTUM SENSORS	80
6.4	CHALLENGES	81
6.4.1	LIMITED ACCURACY AND RELIABILITY IN CERTAIN CONDITIONS	81
6.4.2	INTEGRATION CHALLENGES WITH OTHER SYSTEMS	81
7	EUROPE ATTITUDE AND HEADING REFERENCE SYSTEM (AHRS) MARKET, BY TYPE	83
7.1	OVERVIEW	84
7.2	CONVENTIONAL ATTITUDE AND HEADING REFERENCE SYSTEMS	85
7.3	AIR DATA ATTITUDE AND HEADING REFERENCE SYSTEMS	86
7.4	GPS-AIDED ATTITUDE AND HEADING REFERENCE SYSTEMS	86
8	EUROPE ATTITUDE AND HEADING REFERENCE SYSTEM (AHRS) MARKET, BY OFFERING	87
8.1	OVERVIEW	88
8.2	HARDWARE	89

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 8.2.1 INERTIAL SENSING UNIT 90
 - 8.2.1.1 GYROSCOPES 90
 - 8.2.1.2 ACCELEROMETERS 90
- 8.2.2 MAGNETIC SENSING UNIT 90
- 8.2.3 DIGITAL PROCESSING UNITS 90
- 8.2.4 OTHERS 90
- 8.3 SOFTWARE 91
- 8.4 SERVICE 91
- 9 EUROPE ATTITUDE AND HEADING REFERENCE SYSTEM (AHRS) MARKET, BY DATA TYPE 92
 - 9.1 OVERVIEW 93
 - 9.2 DIGITAL 94
 - 9.3 ANALOG 95
- 10 EUROPE ATTITUDE AND HEADING REFERENCE SYSTEM (AHRS) MARKET, BY GRADE 96
 - 10.1 OVERVIEW 97
 - 10.2 HIGH PERFORMANCE GRADE 98
 - 10.3 TACTICAL GRADE 99
 - 10.4 INDUSTRIAL GRADE 99
- 11 EUROPE ATTITUDE AND HEADING REFERENCE SYSTEM (AHRS) MARKET, BY END USER 100
 - 11.1 OVERVIEW 101
 - 11.2 CIVIL AVIATION 102
 - 11.2.1 CONVENTIONAL ATTITUDE AND HEADING REFERENCE SYSTEMS 103
 - 11.2.2 AIR DATA ATTITUDE AND HEADING REFERENCE SYSTEMS 103
 - 11.2.3 GPS-AIDED ATTITUDE AND HEADING REFERENCE SYSTEMS 103
 - 11.3 MILITARY AVIATION 104
 - 11.3.1 CONVENTIONAL ATTITUDE AND HEADING REFERENCE SYSTEMS 104
 - 11.3.2 AIR DATA ATTITUDE AND HEADING REFERENCE SYSTEMS 105
 - 11.3.3 GPS-AIDED ATTITUDE AND HEADING REFERENCE SYSTEMS 105
 - 11.4 UNMANNED VEHICLE 105
 - 11.4.1 AIR DATA ATTITUDE AND HEADING REFERENCE SYSTEMS 106
 - 11.4.2 GPS-AIDED ATTITUDE AND HEADING REFERENCE SYSTEMS 106
 - 11.4.3 CONVENTIONAL ATTITUDE AND HEADING REFERENCE SYSTEMS 106
 - 11.5 MARINE 106
 - 11.5.1 CONVENTIONAL ATTITUDE AND HEADING REFERENCE SYSTEMS 107
 - 11.5.2 GPS-AIDED ATTITUDE AND HEADING REFERENCE SYSTEMS 107
 - 11.6 ROBOTICS 107
 - 11.7 AGRICULTURE 108
 - 11.8 OTHERS 108
- 12 EUROPE ATTITUDE AND HEADING REFERENCE SYSTEM (AHRS) MARKET, BY REGION 109
 - 12.1 EUROPE 110
 - 12.1.1 GERMANY 119
 - 12.1.2 U.K. 123
 - 12.1.3 FRANCE 127
 - 12.1.4 ITALY 131
 - 12.1.5 SPAIN 135
 - 12.1.6 TURKEY 139
 - 12.1.7 RUSSIA 143
 - 12.1.8 NETHERLAND 147

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 12.1.9 BELGIUM 151
- 12.1.10 SWITZERLAND 155
- 12.1.11 REST OF EUROPE 159
- 13 EUROPE ATTITUDE AND HEADING REFERENCE SYSTEMS (AHRS) MARKET: COMPANY LANDSCAPE 160
- 13.1 COMPANY SHARE ANALYSIS: EUROPE 160
- 14 SWOT ANALYSIS 161
- 15 COMPANY PROFILINGS 162
- 15.1 SAFRAN 162
- 15.1.1 COMPANY SNAPSHOT 162
- 15.1.2 REVENUE ANALYSIS 162
- 15.1.3 COMPANY SHARE ANALYSIS 163
- 15.1.4 PRODUCT PORTFOLIO 163
- 15.1.5 RECENT DEVELOPMENTS 164
- 15.2 SPARTON 165
- 15.2.1 COMPANY SNAPSHOT 165
- 15.2.2 COMPANY SHARE ANALYSIS 165
- 15.2.3 PRODUCT PORTFOLIO 165
- 15.2.4 RECENT DEVELOPMENTS 166
- 15.3 PARKER HANNIFIN CORP 167
- 15.3.1 COMPANY SNAPSHOT 167
- 15.3.2 REVENUE ANALYSIS 167
- 15.3.3 COMPANY SHARE ANALYSIS 168
- 15.3.4 PRODUCT PORTFOLIO 168
- 15.3.5 RECENT DEVELOPMENTS 169
- 15.4 HONEYWELL INTERNATIONAL INC. 170
- 15.4.1 COMPANY SNAPSHOT 170
- 15.4.2 REVENUE ANALYSIS 170
- 15.4.3 COMPANY SHARE ANALYSIS 171
- 15.4.4 PRODUCT PORTFOLIO 171
- 15.4.5 RECENT DEVELOPMENTS 172
- 15.5 NORTHROP GRUMMAN 173
- 15.5.1 COMPANY SNAPSHOT 173
- 15.5.2 REVENUE ANALYSIS 173
- 15.5.3 COMPANY SHARE ANALYSIS 174
- 15.5.4 PRODUCT PORTFOLIO 174
- 15.5.5 RECENT DEVELOPMENT 174
- 15.6 AERON SYSTEMS PRIVATE LIMITED 175
- 15.6.1 COMPANY SNAPSHOT 175
- 15.6.2 PRODUCT PORTFOLIO 175
- 15.6.3 RECENT DEVELOPMENTS 176
- 15.7 BESTECH AUSTRALIA 177
- 15.7.1 COMPANY SNAPSHOT 177
- 15.7.2 PRODUCT PORTFOLIO 177
- 15.7.3 RECENT DEVELOPMENTS 178
- 15.8 CEVA, INC. 179
- 15.8.1 COMPANY SNAPSHOT 179
- 15.8.2 REVENUE ANALYSIS 179

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

15.8.3	PRODUCT PORTFOLIO	180
15.8.4	RECENT DEVELOPMENT	180
15.9	CTI SENSORS	181
15.9.1	COMPANY SNAPSHOT	181
15.9.2	PRODUCT PORTFOLIO	181
15.9.3	RECENT DEVELOPMENT	181
15.10	GLADIATOR TECHNOLOGIES, INC.	182
15.10.1	COMPANY SNAPSHOT	182
15.10.2	PRODUCT PORTFOLIO	182
15.10.3	RECENT DEVELOPMENT	182
15.11	GREENWICH AEROGROUP	183
15.11.1	COMPANY SNAPSHOT	183
15.11.2	BRAND PORTFOLIO	183
15.11.3	RECENT DEVELOPMENT	183
15.12	HYPER TECH	184
15.12.1	COMPANY SNAPSHOT	184
15.12.2	PRODUCT PORTFOLIO	184
15.12.3	RECENT DEVELOPMENTS	185
15.13	INERTIAL LABS, INC.	186
15.13.1	COMPANY SNAPSHOT	186
15.13.2	PRODUCT PORTFOLIO	186
15.13.3	RECENT DEVELOPMENTS	187
15.14	INERTIAL SENSE	188
15.14.1	COMPANY SNAPSHOT	188
15.14.2	PRODUCT PORTFOLIO	188
15.14.3	RECENT DEVELOPMENTS	189
15.15	IXBLUE SAS	190
15.15.1	COMPANY SNAPSHOT	190
15.15.2	PRODUCT PORTFOLIO	190
15.15.3	RECENT DEVELOPMENTS	191
15.16	KVH INDUSTRIES, INC.	192
15.16.1	COMPANY SNAPSHOT	192
15.16.2	REVENUE ANALYSIS	192
15.16.3	PRODUCT PORTFOLIO	193
15.16.4	RECENT DEVELOPMENT	193
15.17	LX NAVIGATION D.O.O.	194
15.17.1	COMPANY SNAPSHOT	194
15.17.2	PRODUCT PORTFOLIO	194
15.17.3	RECENT DEVELOPMENTS	194
15.18	RAYTHEON TECHNOLOGIES CORPORATION	195
15.18.1	COMPANY SNAPSHOT	195
15.18.2	REVENUE ANALYSIS	195
15.18.3	PRODUCT PORTFOLIO	196
15.18.4	RECENT DEVELOPMENTS	196
15.19	SBG SYSTEMS	197
15.19.1	COMPANY SNAPSHOT	197
15.19.2	PRODUCT PORTFOLIO	197

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 15.19.3 RECENT DEVELOPMENTS 197
- 15.20 SILICON SENSING SYSTEMS LIMITED 198
 - 15.20.1 COMPANY SNAPSHOT 198
 - 15.20.2 PRODUCT PORTFOLIO 198
 - 15.20.3 RECENT DEVELOPMENTS 199
- 15.21 THALES 200
 - 15.21.1 COMPANY SNAPSHOT 200
 - 15.21.2 REVENUE ANALYSIS 200
 - 15.21.3 PRODUCT PORTFOLIO 201
 - 15.21.4 RECENT DEVELOPMENT 201
- 15.22 TRONICS (A SUBSIDIARY OF TDK GROUP OF COMPANY) 202
 - 15.22.1 COMPANY SNAPSHOT 202
 - 15.22.2 REVENUE ANALYSIS 202
 - 15.22.3 PRODUCT PORTFOLIO 203
 - 15.22.4 RECENT DEVELOPMENTS 203
- 15.23 UAV NAVIGATION 204
 - 15.23.1 COMPANY SNAPSHOT 204
 - 15.23.2 PRODUCT PORTFOLIO 204
 - 15.23.3 RECENT DEVELOPMENTS 205
- 15.24 VECTORNAV TECHNOLOGIES, LLC 206
 - 15.24.1 COMPANY SNAPSHOT 206
 - 15.24.2 PRODUCT PORTFOLIO 206
 - 15.24.3 RECENT DEVELOPMENTS 207
- 16 QUESTIONNAIRE 208
- 17 RELATED REPORTS 212

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Europe Attitude and Heading Reference System (AHRS) Market - Industry Trends and Forecast to 2030

Market Report | 2023-05-01 | 212 pages | Data Bridge Market Research

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scott's-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$3500.00
	Corporate Users License	\$4200.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scott's-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-10"/>
		Signature	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scott's-international.com

www.scott's-international.com