

Acoustic Emission Equipment Market by Product Type (AE Systems, Hand-held Systems, and Standalone Systems), Technique (Multiple Channel Source Location Technique, Linear Source Technique, Zonal Source Technique, and Point Source Technique), and End User (EPC, Transportation, Aerospace & Defense, and Others): Global Opportunity Analysis and Industry Forecast, 2019–2027

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Abstracts

The global acoustic emission equipment market was valued at \$108.0 million in 2019 and is projected to reach \$130.8 million by 2027, registering a CAGR of 3.2% from 2020 to 2027. Acoustic emission monitors the transient stress waves within a material, caused by rapid release of localized stress energy. On subjecting to external stimulus, a structure triggers localized sources within the material to release energy in the form of stress waves that propagates to the surface and are recorded by the sensors. Acoustic emission testing is one of the prominent methods of non-destructive testing. Acoustic emission testing requires sensors, preamplifiers, data acquisitive devices, and connectors or cables.

Aging infrastructure majorly drives the growth of the acoustic emission equipment market, as acoustic emission testing can predict the approximate life of the infrastructure for operation use. Moreover, growing activities in the aerospace and defense sector, the need of increasing standards of quality of products manufactured in developing countries, and growing number of new infrastructural projects globally are expected to boost the market growth. Furthermore, increase in investments in R&D to

tackle technical challenges and integration of big data analytics with acoustic emission testing method are expected to provide lucrative growth opportunities for the market. However, lack of quantitative analysis in commercial acoustic emission testing method and difficulty in detection of weak signals in noisy operating environments are expected to hinder the growth of the acoustic emission equipment market.

The acoustic emission equipment industry is segmented on the basis of product type, technique, end user, and region. Based on product type, the market is classified into AE systems, hand-held systems, and standalone sensors. Based on technique, the market is analyzed into multiple channel source location technique, linear location technique, zonal location technique, and point location technique. By end user, the market is analyzed across EPC, transportation, aerospace & defense, and others. The EPC segment is further sub-segmented into construction, oil & gas, and power plants. Based on region, the global acoustic emission equipment market is analyzed across North America (U.S., Canada, and Mexico), Europe (UK, Germany, France, and rest of Europe), Asia-Pacific (China, India, Japan, and rest of Asia-Pacific), and LAMEA (Latin America, Middle East, and Africa).

The key players operating in the market include Acoustic Monitoring International, Inc., Campbell Scientific, Inc., Dodson Technical Services, Inc., Mistras Group, Inc., Parker-Hannifin Corporation, Schmitt Europe Ltd., Score Atlanta Inc., Siemens AG, Vallen Systeme GmbH, and Wabtec Corporation.

KEY MARKET SEGMENTS

BY PRODUCT TYPE

AE Systems

Hand-held Systems

Standalone Sensors

BY TECHNIQUE

Multiple Channel Location Source Technique

Linear Source Technique

Zonal Source Technique

Point Source Technique

BY END-USER

EPC

Construction

Oil & Gas

Power Plants

Transportation

Aerospace & Defense

Others

BY REGION

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Rest of Europe

Asia-Pacific

China

India

Japan

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

KEY PLAYERS

Acoustic Monitoring International, Inc.

Campbell Scientific, Inc.

Dodson Technical Services, Inc.

Mistras Group, Inc.

Parker-Hannifin Corporation

Schmitt Europe Ltd.

Score Atlanta Inc.

Siemens AG

Vallen Systeme GmbH

Wabtec Corporation

Contents

CHAPTER 1:INTRODUCTION

- 1.1.Report description
- 1.2.Key benefits for stakeholders
- 1.3.Key market segments
- 1.4.Research methodology
 - 1.4.1.Primary research
 - 1.4.2.Secondary research
 - 1.4.3.Analyst tools and models

CHAPTER 2:EXECUTIVE SUMMARY

- 2.1.Key findings
 - 2.1.1.Top impacting factors
 - 2.1.2.Top investment pockets
- 2.2.CXO perspective

CHAPTER 3:MARKET OVERVIEW

- 3.1.Market definition and scope
- 3.2.Parent/Peer Market Overview
- 3.3.Porter's five forces analysis
- 3.4.Market Evolution/ Industry Roadmap
- 3.5.Value Chain Analysis
- 3.6.Patent analysis
 - 3.6.1.By region (2017-2019)
 - 3.6.2.By applicant
- 3.7.Market dynamics
 - 3.7.1.Drivers
 - 3.7.1.1.Aging infrastructure is a key driver for acoustic emission equipment market
 - 3.7.1.2.Increase in network densification
 - 3.7.1.3.Increasing standards of quality in developing countries
 - 3.7.1.4.Increasing number of new infrastructural projects
 - 3.7.2.Restraints
 - 3.7.2.1.Commercial acoustic emission testing lacks quantitative analysis
 - 3.7.2.2.Weak signals in noisy operating environments
 - 3.7.3.Opportunity

3.7.3.1.Increase in investments in smart cities

3.7.3.2.Big data analytics offers lucrative opportunities

3.8.COVID Impact

3.8.1.Impact on market size

3.8.2.End user trends, preferences, and budget impact

3.8.3.Key player strategies to tackle negative impact

CHAPTER 4:ACOUSTIC EMISSION EQUIPMENT MARKET, BY PRODUCT TYPE

4.1.Overview

4.2.AE systems

4.2.1.Key market trends, growth factors, and opportunities

4.2.2.Market size and forecast, by region

4.2.3.Market analysis, by country

4.3.Hand-held Systems

4.3.1.Key market trends, growth factors, and opportunities

4.3.2.Market size and forecast, by region

4.3.3.Market analysis, by country

4.4.Standalone Sensors

4.4.1.Key market trends, growth factors, and opportunities

4.4.2.Market size and forecast, by region

4.4.3.Market analysis, by country

CHAPTER 5:ACOUSTIC EMISSION EQUIPMENT MARKET, BY TECHNIQUE

5.1.Overview

5.2.Multiple Channel Source Location Technique

5.2.1.Key market trends, growth factors, and opportunities

5.2.2.Market size and forecast, by region

5.2.3.Market analysis, by country

5.3.Linear Location Technique

5.3.1.Key market trends, growth factors, and opportunities

5.3.2.Market size and forecast, by region

5.3.3.Market analysis, by country

5.4.Zonal Location Technique

5.4.1.Key market trends, growth factors, and opportunities

5.4.2.Market size and forecast, by region

5.4.3.Market analysis, by country

5.5.Point Location Technique

- 5.5.1.Key market trends, growth factors, and opportunities
- 5.5.2.Market size and forecast, by region
- 5.5.3.Market analysis, by country

CHAPTER 6:ACOUSTIC EMISSION EQUIPMENT MARKET, BY END USER

- 6.1.Overview
- 6.2.EPC (Engineering Procurement Construction)
 - 6.2.1.Key market trends, growth factors, and opportunities
 - 6.2.2.Market size and forecast, by region
 - 6.2.3.Market analysis, by country
 - 6.2.4.EPC, by Construction
 - 6.2.5.EPC, by Oil & Gas
 - 6.2.6.EPC, by Power Plants
- 6.3.Transportation
 - 6.3.1.Key market trends, growth factors, and opportunities
 - 6.3.2.Market size and forecast, by region
 - 6.3.3.Market analysis, by country
- 6.4.Aerospace & Defense
 - 6.4.1.Key market trends, growth factors, and opportunities
 - 6.4.2.Market size and forecast, by region
 - 6.4.3.Market analysis, by country
- 6.5.Others
 - 6.5.1.Key market trends, growth factors, and opportunities
 - 6.5.2.Market size and forecast, by region
 - 6.5.3.Market analysis, by country

CHAPTER 7:ACOUSTIC EMISSION EQUIPMENT MARKET, BY REGION

- 7.1.Overview
- 7.2.North America
 - 7.2.1.Key market trends, growth factors, and opportunities
 - 7.2.2.Market size and forecast, by product type
 - 7.2.3.Market size and forecast, by Technique
 - 7.2.4.Market size and forecast, by End User
 - 7.2.5.Market analysis, by country
 - 7.2.5.1.U.S.
 - 7.2.5.1.1.Market size and forecast, by product type
 - 7.2.5.1.2.Market size and forecast, by Technique

7.2.5.1.3. Market size and forecast, by End User

7.2.5.2. Canada

7.2.5.2.1. Market size and forecast, by product type

7.2.5.2.2. Market size and forecast, by Technique

7.2.5.2.3. Market size and forecast, by End User

7.2.5.3. Mexico

7.2.5.3.1. Market size and forecast, by product type

7.2.5.3.2. Market size and forecast, by Technique

7.2.5.3.3. Market size and forecast, by End User

7.3. Europe

7.3.1. Key market trends, growth factors, and opportunities

7.3.2. Market size and forecast, by product type

7.3.3. Market size and forecast, by Technique

7.3.4. Market size and forecast, by End User

7.3.5. Market analysis, by country

7.3.5.1. UK

7.3.5.1.1. Market size and forecast, by product type

7.3.5.1.2. Market size and forecast, by Technique

7.3.5.1.3. Market size and forecast, by End User

7.3.5.2. Germany

7.3.5.2.1. Market size and forecast, by product type

7.3.5.2.2. Market size and forecast, by Technique

7.3.5.2.3. Market size and forecast, by End User

7.3.5.3. France

7.3.5.3.1. Market size and forecast, by product type

7.3.5.3.2. Market size and forecast, by Technique

7.3.5.3.3. Market size and forecast, by End User

7.3.5.4. Rest of Europe

7.3.5.4.1. Market size and forecast, by product type

7.3.5.4.2. Market size and forecast, by Technique

7.3.5.4.3. Market size and forecast, by End User

7.4. Asia-Pacific

7.4.1. Key market trends, growth factors, and opportunities

7.4.2. Market size and forecast, by product type

7.4.3. Market size and forecast, by Technique

7.4.4. Market size and forecast, by End User

7.4.5. Market analysis, by country

7.4.5.1. China

7.4.5.1.1. Market size and forecast, by product type

7.4.5.1.2. Market size and forecast, by Technique

7.4.5.1.3. Market size and forecast, by End User

7.4.5.2. Japan

7.4.5.2.1. Market size and forecast, by product type

7.4.5.2.2. Market size and forecast, by Technique

7.4.5.2.3. Market size and forecast, by End User

7.4.5.3. India

7.4.5.3.1. Market size and forecast, by product type

7.4.5.3.2. Market size and forecast, by Technique

7.4.5.3.3. Market size and forecast, by End User

7.4.5.4. Rest of Asia-Pacific

7.4.5.4.1. Market size and forecast, by product type

7.4.5.4.2. Market size and forecast, by Technique

7.4.5.4.3. Market size and forecast, by End User

7.5. LAMEA

7.5.1. Key market trends, growth factors, and opportunities

7.5.2. Market size and forecast, by product type

7.5.3. Market size and forecast, by Technique

7.5.4. Market size and forecast, by End User

7.5.5. Market analysis, by country

7.5.5.1. Latin America

7.5.5.1.1. Market size and forecast, by product type

7.5.5.1.2. Market size and forecast, by Technique

7.5.5.1.3. Market size and forecast, by End User

7.5.5.2. Middle East

7.5.5.2.1. Market size and forecast, by product type

7.5.5.2.2. Market size and forecast, by Technique

7.5.5.2.3. Market size and forecast, by End User

7.5.5.3. Africa

7.5.5.3.1. Market size and forecast, by product type

7.5.5.3.2. Market size and forecast, by Technique

7.5.5.3.3. Market size and forecast, by End User

CHAPTER 8: COMPETITIVE LANDSCAPE

8.1. INTRODUCTION

8.1.1. MARKET PLAYER POSITIONING, 2019

8.2. PRODUCT MAPPING OF TOP 10 PLAYER

8.3. COMPETITIVE DASHBOARD

8.4.COMPETITIVE HEATMAP

8.5.KEY DEVELOPMENTS

8.5.1.New Product Launches

8.5.2.Mergers and Acquisitions

8.5.3.Other Developments

CHAPTER 9:COMPANY PROFILES

9.1.ACOUSTIC MONITORING INTERNATIONAL, INC.

9.1.1.Company overview

9.1.2.Key Executives

9.1.3.Company snapshot

9.1.4.Operating business segments

9.1.5.Product portfolio

9.2.CAMPBELL SCIENTIFIC, INC.

9.2.1.Company overview

9.2.2.Key Executives

9.2.3.Company snapshot

9.2.4.Operating business segments

9.2.5.Product portfolio

9.3.DODSON TECHNICAL SERVICES, INC.

9.3.1.Company overview

9.3.2.Key Executives

9.3.3.Company snapshot

9.3.4.Operating business segments

9.3.5.Product portfolio

9.4.MISTRAS GROUP, INC.

9.4.1.Company overview

9.4.2.Key Executives

9.4.3.Company snapshot

9.4.4.Operating business segments

9.4.5.Product portfolio

9.4.6.R&D Expenditure

9.4.7.Business performance

9.4.8.Key strategic moves and developments

9.5.PARKER-HANNIFIN CORPORATION

9.5.1.Company overview

9.5.2.Key Executives

9.5.3.Company snapshot

- 9.5.4.Operating business segments
- 9.5.5.Product portfolio
- 9.5.6.R&D Expenditure
- 9.5.7.Business performance
- 9.5.8.Key strategic moves and developments
- 9.6.SCHMITT EUROPE, LTD.
 - 9.6.1.Company overview
 - 9.6.2.Key Executives
 - 9.6.3.Company snapshot
 - 9.6.4.Operating business segments
 - 9.6.5.Product portfolio
- 9.7.SCORE ATLANTA INC.
 - 9.7.1.Company overview
 - 9.7.2.Key Executives
 - 9.7.3.Company snapshot
 - 9.7.4.Product portfolio
- 9.8.SIEMENS AG
 - 9.8.1.Company overview
 - 9.8.2.Key Executives
 - 9.8.3.Company snapshot
 - 9.8.4.Operating business segments
 - 9.8.5.Product portfolio
 - 9.8.6.R&D Expenditure
 - 9.8.7.Business performance
 - 9.8.8.Key strategic moves and developments
- 9.9.VALLEN SYSTEME GMBH
 - 9.9.1.Company overview
 - 9.9.2.Key Executives
 - 9.9.3.Company snapshot
 - 9.9.4.Operating business segments
 - 9.9.5.Product portfolio
- 9.10.WABTEC CORPORATION
 - 9.10.1.Company overview
 - 9.10.2.Key Executives
 - 9.10.3.Company snapshot
 - 9.10.4.Operating business segments
 - 9.10.5.Product portfolio
 - 9.10.6.Business performance

List Of Tables

LIST OF TABLES

TABLE 01.AE SYSTEMS ACOUSTIC EMISSION EQUIPMENT MARKET, BY REGION, 2019-2027 (\$MILLION)

TABLE 02.HAND-HELD SYSTEMS ACOUSTIC EMISSION EQUIPMENT MARKET, BY REGION 2019-2027 (\$MILLION)

TABLE 03.STANDALONE SENSORS ACOUSTIC EMISSION EQUIPMENT MARKET, BY REGION 2019-2027 (\$MILLION)

TABLE 04.GLOBAL ACOUSTIC EMISSION EQUIPMENT MARKET, BY TECHNIQUE, 2019-2027(\$MILLION)

TABLE 05.ACOUSTIC EMISSION EQUIPMENT MARKET FOR MULTIPLE CHANNEL SOURCE LOCATION TECHNIQUE, BY REGION 2019-2027 (\$MILLION)

TABLE 06.ACOUSTIC EMISSION EQUIPMENT MARKET FOR LINEAR LOCATION TECHNIQUE, BY REGION 2019-2027 (\$MILLION)

TABLE 07.ACOUSTIC EMISSION EQUIPMENT MARKET FOR ZONAL LOCATION TECHNIQUE, BY REGION 2019-2027 (\$MILLION)

TABLE 08.ACOUSTIC EMISSION EQUIPMENT MARKET FOR POINT LOCATION TECHNIQUE, BY REGION 2019-2027 (\$MILLION)

TABLE 09.GLOBAL ACOUSTIC EMISSION EQUIPMENT MARKET, BY END USER, 2019-2027(\$MILLION)

TABLE 10.ACOUSTIC EMISSION EQUIPMENT MARKET FOR EPC, BY REGION 2019-2027 (\$MILLION)

TABLE 11.ACOUSTIC EMISSION EQUIPMENT MARKET FOR TRANSPORTATION, BY REGION 2019-2027 (\$MILLION)

TABLE 12.ACOUSTIC EMISSION EQUIPMENT MARKET FOR AEROSPACE & DEFENSE, BY REGION 2019-2027 (\$MILLION)

TABLE 13.ACOUSTIC EMISSION EQUIPMENT MARKET FOR OTHERS, BY REGION 2019-2027 (\$MILLION)

TABLE 14.ACOUSTIC EMISSION EQUIPMENT MARKET REVENUE, BY REGION, 2019–2027 (\$MILLION)

TABLE 15.NORTH AMERICA ACOUSTIC EMISSION EQUIPMENT MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 16.NORTH AMERICA ACOUSTIC EMISSION EQUIPMENT MARKET, BY TECHNIQUE, 2019–2027 (\$MILLION)

TABLE 17.NORTH AMERICA ACOUSTIC EMISSION EQUIPMENT MARKET, BY END USER, 2019–2027 (\$MILLION)

TABLE 18.U.S. ACOUSTIC EMISSION EQUIPMENT MARKET, BY PRODUCT TYPE,

2019–2027 (\$MILLION)

TABLE 19.U.S. ACOUSTIC EMISSION EQUIPMENT MARKET, BY TECHNIQUE,
2019–2027 (\$MILLION)

TABLE 20.U.S. ACOUSTIC EMISSION EQUIPMENT MARKET, BY END USER,
2019–2027 (\$MILLION)

TABLE 21.CANADA ACOUSTIC EMISSION EQUIPMENT MARKET, BY PRODUCT
TYPE, 2019–2027 (\$MILLION)

TABLE 22.CANADA ACOUSTIC EMISSION EQUIPMENT MARKET, BY TECHNIQUE,
2019–2027 (\$MILLION)

TABLE 23.CANADA ACOUSTIC EMISSION EQUIPMENT MARKET, BY END USER,
2019–2027 (\$MILLION)

TABLE 24.MEXICO ACOUSTIC EMISSION EQUIPMENT MARKET, BY PRODUCT
TYPE, 2019–2027 (\$MILLION)

TABLE 25.MEXICO ACOUSTIC EMISSION EQUIPMENT MARKET, BY TECHNIQUE,
2019–2027 (\$MILLION)

TABLE 26.MEXICO ACOUSTIC EMISSION EQUIPMENT MARKET, BY END USER,
2019–2027 (\$MILLION)

TABLE 27.EUROPE ACOUSTIC EMISSION EQUIPMENT MARKET, BY PRODUCT
TYPE, 2019–2027 (\$MILLION)

TABLE 28.EUROPE ACOUSTIC EMISSION EQUIPMENT MARKET, BY TECHNIQUE,
2019–2027 (\$MILLION)

TABLE 29.EUROPE ACOUSTIC EMISSION EQUIPMENT MARKET, BY END USER,
2019–2027 (\$MILLION)

TABLE 30.UK ACOUSTIC EMISSION EQUIPMENT MARKET, BY PRODUCT TYPE,
2019–2027 (\$MILLION)

TABLE 31.UK ACOUSTIC EMISSION EQUIPMENT MARKET, BY TECHNIQUE,
2019–2027 (\$MILLION)

TABLE 32.UK ACOUSTIC EMISSION EQUIPMENT MARKET, BY END USER,
2019–2027 (\$MILLION)

TABLE 33.GERMANY ACOUSTIC EMISSION EQUIPMENT MARKET, BY PRODUCT
TYPE, 2019–2027 (\$MILLION)

TABLE 34.GERMANY ACOUSTIC EMISSION EQUIPMENT MARKET, BY
TECHNIQUE, 2019–2027 (\$MILLION)

TABLE 35.GERMANY ACOUSTIC EMISSION EQUIPMENT MARKET, BY END USER,
2019–2027 (\$MILLION)

TABLE 36.FRANCE ACOUSTIC EMISSION EQUIPMENT MARKET, BY PRODUCT
TYPE, 2019–2027 (\$MILLION)

TABLE 37.FRANCE ACOUSTIC EMISSION EQUIPMENT MARKET, BY TECHNIQUE,
2019–2027 (\$MILLION)

TABLE 38.FRANCE ACOUSTIC EMISSION EQUIPMENT MARKET, BY END USER, 2019–2027 (\$MILLION)

TABLE 39.REST OF EUROPE ACOUSTIC EMISSION EQUIPMENT MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 40.REST OF EUROPE ACOUSTIC EMISSION EQUIPMENT MARKET, BY TECHNIQUE, 2019–2027 (\$MILLION)

TABLE 41.REST OF EUROPE ACOUSTIC EMISSION EQUIPMENT MARKET, BY END USER, 2019–2027 (\$MILLION)

TABLE 42.ASIA-PACIFIC ACOUSTIC EMISSION EQUIPMENT MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 43.ASIA-PACIFIC ACOUSTIC EMISSION EQUIPMENT MARKET, BY TECHNIQUE, 2019–2027 (\$MILLION)

TABLE 44.ASIA-PACIFIC ACOUSTIC EMISSION EQUIPMENT MARKET, BY END USER, 2019–2027 (\$MILLION)

TABLE 45.CHINA ACOUSTIC EMISSION EQUIPMENT MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 46.CHINA ACOUSTIC EMISSION EQUIPMENT MARKET, BY TECHNIQUE, 2019–2027 (\$MILLION)

TABLE 47.CHINA ACOUSTIC EMISSION EQUIPMENT MARKET, BY END USER, 2019–2027 (\$MILLION)

TABLE 48.JAPAN ACOUSTIC EMISSION EQUIPMENT MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 49.JAPAN ACOUSTIC EMISSION EQUIPMENT MARKET, BY TECHNIQUE, 2019–2027 (\$MILLION)

TABLE 50.JAPAN ACOUSTIC EMISSION EQUIPMENT MARKET, BY END USER, 2019–2027 (\$MILLION)

TABLE 51.INDIA ACOUSTIC EMISSION EQUIPMENT MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 52.INDIA ACOUSTIC EMISSION EQUIPMENT MARKET, BY TECHNIQUE, 2019–2027 (\$MILLION)

TABLE 53.INDIA ACOUSTIC EMISSION EQUIPMENT MARKET, BY END USER, 2019–2027 (\$MILLION)

TABLE 54.REST OF ASIA-PACIFIC ACOUSTIC EMISSION EQUIPMENT MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 55.REST OF ASIA-PACIFIC ACOUSTIC EMISSION EQUIPMENT MARKET, BY TECHNIQUE, 2019–2027 (\$MILLION)

TABLE 56.REST OF ASIA-PACIFIC ACOUSTIC EMISSION EQUIPMENT MARKET, BY END USER, 2019–2027 (\$MILLION)

TABLE 57.LAMEA ACOUSTIC EMISSION EQUIPMENT MARKET, BY PRODUCT

TYPE, 2019–2027 (\$MILLION)

TABLE 58.LAMEA ACOUSTIC EMISSION EQUIPMENT MARKET, BY TECHNIQUE, 2019–2027 (\$MILLION)

TABLE 59.LAMEA ACOUSTIC EMISSION EQUIPMENT MARKET, BY END USER, 2019–2027 (\$MILLION)

TABLE 60.LATIN AMERICA ACOUSTIC EMISSION EQUIPMENT MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 61.LATIN AMERICA ACOUSTIC EMISSION EQUIPMENT MARKET, BY TECHNIQUE, 2019–2027 (\$MILLION)

TABLE 62.LATIN AMERICA ACOUSTIC EMISSION EQUIPMENT MARKET, BY END USER, 2019–2027 (\$MILLION)

TABLE 63.MIDDLE EAST ACOUSTIC EMISSION EQUIPMENT MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 64.MIDDLE EAST ACOUSTIC EMISSION EQUIPMENT MARKET, BY TECHNIQUE, 2019–2027 (\$MILLION)

TABLE 65.MIDDLE EAST ACOUSTIC EMISSION EQUIPMENT MARKET, BY END USER, 2019–2027 (\$MILLION)

TABLE 66.AFRICA ACOUSTIC EMISSION EQUIPMENT MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 67.AFRICA ACOUSTIC EMISSION EQUIPMENT MARKET, BY TECHNIQUE, 2019–2027 (\$MILLION)

TABLE 68.AFRICA ACOUSTIC EMISSION EQUIPMENT MARKET, BY END USER, 2019–2027 (\$MILLION)

TABLE 69.KEY NEW PRODUCT LAUNCHES (2017-2019)

TABLE 70.KEY EXPANSIONS (2017-2019)

TABLE 71.OTHER DEVELOPMENTS (2017 – 2019)

TABLE 72.KEY EXECUTIVES

TABLE 73.ACOUSTIC MONITORING INTERNATIONAL, INC.: COMPANY SNAPSHOT

TABLE 74.ACOUSTIC MONITORING INTERNATIONAL, INC.: OPERATING SEGMENTS

TABLE 75.ACOUSTIC MONITORING INTERNATIONAL, INC.: PRODUCT PORTFOLIO

TABLE 76.KEY EXECUTIVES

TABLE 77.CAMPBELL SCIENTIFIC, INC.: COMPANY SNAPSHOT

TABLE 78.CAMPBELL SCIENTIFIC, INC.: OPERATING SEGMENTS

TABLE 79.CAMPBELL SCIENTIFIC, INC.: PRODUCT PORTFOLIO

TABLE 80.KEY EXECUTIVES

TABLE 81.DODSON TECHNICAL SERVICES, INC.: COMPANY SNAPSHOT

TABLE 82.DODSON TECHNICAL SERVICES, INC.: OPERATING SEGMENTS

TABLE 83.DODSON TECHNICAL SERVICES, INC.: PRODUCT PORTFOLIO

TABLE 84.KEY EXECUTIVES

TABLE 85.MISTRAS GROUP, INC.: COMPANY SNAPSHOT

TABLE 86.MISTRAS GROUP, INC.: OPERATING SEGMENTS

TABLE 87.MISTRAS GROUP, INC.: PRODUCT PORTFOLIO

TABLE 88.KEY EXECUTIVES

TABLE 89.PARKER-HANNIFIN CORPORATION: COMPANY SNAPSHOT

TABLE 90.PARKER-HANNIFIN CORPORATION: OPERATING SEGMENTS

TABLE 91.PARKER-HANNIFIN CORPORATION: PRODUCT PORTFOLIO

TABLE 92.KEY EXECUTIVES

TABLE 93.SCHMITT EUROPE, LTD.: COMPANY SNAPSHOT

TABLE 94.SCHMITT EUROPE, LTD.: OPERATING SEGMENTS

TABLE 95.SCHMITT EUROPE, LTD.: PRODUCT PORTFOLIO

TABLE 96.KEY EXECUTIVES

TABLE 97.SCORE ATLANTA INC.: COMPANY SNAPSHOT

TABLE 98.SCORE ATLANTA INC.: PRODUCT PORTFOLIO

TABLE 99.KEY EXECUTIVES

TABLE 100.SIEMENS AG: COMPANY SNAPSHOT

TABLE 101.SIEMENS AG: OPERATING SEGMENTS

TABLE 102.SIEMENS AG: PRODUCT PORTFOLIO

TABLE 103.KEY EXECUTIVES

TABLE 104.VALLEN SYSTEME GMBH: COMPANY SNAPSHOT

TABLE 105.VALLEN SYSTEME GMBH: OPERATING SEGMENTS

TABLE 106.VALLEN SYSTEME GMBH: PRODUCT PORTFOLIO

TABLE 107.KEY EXECUTIVES

TABLE 108.WABTEC CORPORATION: COMPANY SNAPSHOT

TABLE 109.WABTEC CORPORATION: OPERATING SEGMENTS

TABLE 110.WABTEC CORPORATION: PRODUCT PORTFOLIO

List Of Figures

LIST OF FIGURES

FIGURE 01.KEY MARKET SEGMENTS

FIGURE 02.EXECUTIVE SUMMARY, BY SEGMENTATION

FIGURE 03.EXECUTIVE SUMMARY, BY REGION

FIGURE 04.TOP IMPACTING FACTORS

FIGURE 05.TOP INVESTMENT POCKETS

FIGURE 06.MODERATE TO HIGH BARGAINING POWER OF SUPPLIERS

FIGURE 07.LOW THREAT OF NEW ENTRANTS

FIGURE 08.LOW THREAT OF SUBSTITUTES

FIGURE 09.MODERATE INTENSITY OF RIVALRY

FIGURE 10.MODERATE BARGAINING POWER OF BUYERS

FIGURE 11.PATENT ANALYSIS, BY COUNTRY

FIGURE 12.PATENT ANALYSIS, BY APPLICANT

FIGURE 13.GLOBAL ACOUSTIC EMISSION EQUIPMENT MARKET SHARE, BY
PRODUCT TYPE, 2019–2027 (%)

FIGURE 14.GLOBAL ACOUSTIC EMISSION EQUIPMENT MARKET, BY PRODUCT
TYPE, 2019-2027 (\$MILLION)

FIGURE 15.COMPARATIVE SHARE ANALYSIS AE SYSTEMS ACOUSTIC EMISSION
EQUIPMENT MARKET, BY COUNTRY, 2019 & 2027 (%)

FIGURE 16.COMPARATIVE SHARE ANALYSIS HAND-HELD SYSTEMS ACOUSTIC
EMISSION EQUIPMENT MARKET, BY COUNTRY, 2019 & 2027 (%)

FIGURE 17.COMPARATIVE SHARE ANALYSIS STANDALONE SENSORS
ACOUSTIC EMISSION EQUIPMENT MARKET, BY COUNTRY, 2019 & 2027 (%)

FIGURE 18.GLOBAL ACOUSTIC EMISSION EQUIPMENT MARKET SHARE, BY
TECHNIQUE, 2019–2027 (%)

FIGURE 19.COMPARATIVE SHARE ANALYSIS OF ACOUSTIC EMISSION
EQUIPMENT MARKET FOR MULTIPLE CHANNEL SOURCE LOCATION
TECHNIQUE, BY COUNTRY, 2019 & 2027 (%)

FIGURE 20.COMPARATIVE SHARE ANALYSIS OF ACOUSTIC EMISSION
EQUIPMENT MARKET FOR LINEAR LOCATION TECHNIQUE, BY COUNTRY, 2019
& 2027 (%)

FIGURE 21.COMPARATIVE SHARE ANALYSIS OF ACOUSTIC EMISSION
EQUIPMENT MARKET FOR ZONAL LOCATION TECHNIQUE, BY COUNTRY, 2019 &
2027 (%)

FIGURE 22.COMPARATIVE SHARE ANALYSIS OF ACOUSTIC EMISSION
EQUIPMENT MARKET FOR POINT LOCATION TECHNIQUE, BY COUNTRY, 2019 &

2027 (%)

FIGURE 23.GLOBAL ACOUSTIC EMISSION EQUIPMENT MARKET SHARE, BY END USER, 2019–2027 (%)

FIGURE 24.COMPARATIVE SHARE ANALYSIS OF ACOUSTIC EMISSION EQUIPMENT MARKET FOR EPC, BY COUNTRY, 2019 & 2027 (%)

FIGURE 25.COMPARATIVE SHARE ANALYSIS OF ACOUSTIC EMISSION EQUIPMENT MARKET FOR TRANSPORTATION, BY COUNTRY, 2019 & 2027 (%)

FIGURE 26.COMPARATIVE SHARE ANALYSIS OF ACOUSTIC EMISSION EQUIPMENT MARKET FOR AEROSPACE & DEFENSE, BY COUNTRY, 2019 & 2027 (%)

FIGURE 27.COMPARATIVE SHARE ANALYSIS OF ACOUSTIC EMISSION EQUIPMENT MARKET FOR OTHERS, BY COUNTRY, 2019 & 2027 (%)

FIGURE 28.ACOUSTIC EMISSION EQUIPMENT MARKET, BY REGION, 2019-2027 (%)

FIGURE 29.COMPARATIVE SHARE ANALYSIS OF NORTH AMERICA ACOUSTIC EMISSION EQUIPMENT MARKET, BY COUNTRY, 2019–2027 (%)

FIGURE 30.U.S. ACOUSTIC EMISSION EQUIPMENT MARKET, 2019–2027 (\$MILLION)

FIGURE 31.CANADA ACOUSTIC EMISSION EQUIPMENT MARKET, 2019–2027 (\$MILLION)

FIGURE 32.MEXICO ACOUSTIC EMISSION EQUIPMENT MARKET, 2019–2027 (\$MILLION)

FIGURE 33.COMPARATIVE SHARE ANALYSIS OF EUROPE ACOUSTIC EMISSION EQUIPMENT MARKET, BY COUNTRY, 2019–2027 (%)

FIGURE 34.UK ACOUSTIC EMISSION EQUIPMENT MARKET, 2019–2027 (\$MILLION)

FIGURE 35.GERMANY ACOUSTIC EMISSION EQUIPMENT MARKET, 2019–2027 (\$MILLION)

FIGURE 36.FRANCE ACOUSTIC EMISSION EQUIPMENT MARKET, 2019–2027 (\$MILLION)

FIGURE 37.REST OF EUROPE ACOUSTIC EMISSION EQUIPMENT MARKET, 2019–2027 (\$MILLION)

FIGURE 38.COMPARATIVE SHARE ANALYSIS OF ASIA-PACIFIC ACOUSTIC EMISSION EQUIPMENT MARKET, BY COUNTRY, 2019–2027 (%)

FIGURE 39.CHINA ACOUSTIC EMISSION EQUIPMENT MARKET, 2019–2027 (\$MILLION)

FIGURE 40.JAPAN ACOUSTIC EMISSION EQUIPMENT MARKET, 2019–2027 (\$MILLION)

FIGURE 41.INDIA ACOUSTIC EMISSION EQUIPMENT MARKET, 2019–2027

(\$MILLION)

FIGURE 42.REST OF ASIA-PACIFIC ACOUSTIC EMISSION EQUIPMENT MARKET, 2019–2027 (\$MILLION)

FIGURE 43.COMPARATIVE SHARE ANALYSIS OF LAMEA ACOUSTIC EMISSION EQUIPMENT MARKET, BY COUNTRY, 2019–2027 (%)

FIGURE 44.LATIN AMERICA ACOUSTIC EMISSION EQUIPMENT MARKET, 2019–2027 (\$MILLION)

FIGURE 45.MIDDLE EAST ACOUSTIC EMISSION EQUIPMENT MARKET, 2019–2027 (\$MILLION)

FIGURE 46.AFRICA ACOUSTIC EMISSION EQUIPMENT MARKET, 2019–2027 (\$MILLION)

FIGURE 47.MARKET PLAYER POSITIONING, 2019

FIGURE 48.PRODUCT MAPPING OF TOP 10 PLAYERS

FIGURE 49.COMPETITIVE DASHBOARD

FIGURE 50.COMPETITIVE HEATMAP OF KEY PLAYERS

FIGURE 51.MISTRAS GROUP, INC., 2017–2019 (\$MILLION)

FIGURE 52.MISTRAS GROUP, INC.: REVENUE, 2018–2019 (\$MILLION)

FIGURE 53.MISTRAS GROUP, INC.: REVENUE SHARE BY SEGMENT, 2019 (%)

FIGURE 54.MISTRAS GROUP, INC.: REVENUE SHARE BY TARGET MARKET, 2019 (%)

FIGURE 55.PARKER-HANNIFIN CORPORATION, 2017–2019 (\$MILLION)

FIGURE 56.PARKER-HANNIFIN CORPORATION: REVENUE, 2017–2019 (\$MILLION)

FIGURE 57.PARKER-HANNIFIN CORPORATION: REVENUE SHARE BY SEGMENT, 2019 (%)

FIGURE 58.PARKER-HANNIFIN CORPORATION: REVENUE SHARE BY REGION, 2019 (%)

FIGURE 59.SIEMENS AG, 2017–2019 (\$MILLION)

FIGURE 60.SIEMENS AG: REVENUE, 2017–2019 (\$MILLION)

FIGURE 61.SIEMENS AG: REVENUE SHARE BY SEGMENT, 2019 (%)

FIGURE 62.SIEMENS AG: REVENUE SHARE BY REGION, 2019 (%)

FIGURE 63.WABTEC CORPORATION: REVENUE, 2017–2019 (\$MILLION)

FIGURE 64.WABTEC CORPORATION: REVENUE SHARE BY SEGMENT, 2019 (%)

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