

Metal Casting Market by Process (Gravity, High & Low Pressure, Sand), Application (Body Assembly, Engine, and Transmission), Material (Iron, Al, Mg, Zn), Component, ICE & EV (Passenger Car, LCV, HCV, BEV, HEV & PHEV), and Region - Global Forecast to 2025

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Abstracts

“The increasing stringency of emission & fuel efficiency norms, increasing vehicle production, and lack of alternative manufacturing processes are projected to fuel the demand for metal casting market”

The metal casting market is projected to grow at a CAGR of 8.87% during the forecast period, to reach a market size of USD 39.94 billion by 2025 from USD 20.23 billion in 2017. Increase in vehicle light-weighting trend, as a result of growing stringency in emission & fuel efficiency standards, and benefits offered by casting such as higher precision, accuracy, and excellent surface finish are the key drivers for this market. Alternatively, the high cost of materials such as aluminum and magnesium, which are used in casting, can hinder the growth of the market.

“High Pressure Die Casting (HPDC) is projected to grow at the highest rate in the metal casting market over the period of next eight years”

HPDC is estimated to be the fastest growing segment of the metal casting market during the forecast period. The process offers advantages such as shorter cycle time, excellent finished products, higher dimensional accuracy for larger and complex parts, and best fit for mass production. According to an industry expert, HPDC is one of the most preferred technologies around the world as it is suitable for several components

that include battery housing, clutch casing, crankcases, engine blocks, differential cover housing, engine mount, flywheel housing, front door, and turbocharger housing among others. All the above-mentioned factors are expected to drive the high pressure die casting market in the coming years.

“Hybrid electric vehicles (HEV) segment is estimated to hold the largest share in metal casting market for electric & hybrid vehicles”

The hybrid electric vehicle is estimated to dominate the metal casting market during the forecast period. The sales of hybrid vehicles directly impact the demand for metal casting components. According to MarketsandMarkets analysis, hybrid vehicles accounted for 71.8% of the total sales of electric & hybrid vehicles in 2016.

Furthermore, owing to the extensive government support in tax exemption, incentives, and discounts, the Asia Oceania region accounted for 67.9% of the total HEV sales in 2016. With rising HEV sales, the demand for metal casting components such as battery boxes, cross-car beam, and seat frames would also increase, which, in turn, would drive the growth of metal casting market for HEVs.

“Asia Oceania: The largest and fastest growing metal casting market from 2017 to 2025”

The Asia Oceania region is estimated to lead the metal casting market. It is also the fastest growing market from 2017 to 2025. The market growth in the region can be attributed to higher vehicle production owing to low production cost, increasing presence of established OEMs, increasing sales of premium vehicles as a result of rising disposable income, and increase in demand for lightweight materials. Further, some of the key metal cast manufacturers such as Dynacast (US), Ryobi (Japan), Shiloh Industries (US), and Hiroshima Aluminum (Japan) are expanding their presence in this region. For instance, in August 2017, Dynacast opened a new sales office in Aichi-ken, Japan to cater the increased demand for automotive casting parts in the domestic market. Additionally, according to MarketsandMarkets Analysis, the premium vehicle sales in Asia Oceania has increased from 11,379.9 thousand units in 2012 to 12,938.2 thousand units in 2016, at a CAGR of 3.26%. According to China Association of Automobile Manufacturers (CAAM), the demand for low segment cars has shown a downfall in China, and hence, automotive OEMs are shifting their production focus towards mid and premium end vehicles. Thus, all the above-mentioned factors will prompt the OEMs to utilize an increasing amount of aluminum and magnesium casting components that would increase the power and performance of the vehicle.

BREAKDOWN OF PRIMARIES

The study contains insights provided by various industry experts, ranging from component manufacturers, materials suppliers, and OEMs. The break-up of the primaries is as follows:

By Company Type – Component Manufacturers– 52%, Material Suppliers- 26%, and OEMs - 22%

By Designation - C-level - 55%, D-Level – 38%, and Others –7%

By Region – North America - 42%, Europe - 37%, and Asia Oceania - 21%

The report provides detailed profiles of the following companies:

Nemak (Mexico)

Ryobi Limited (Japan)

Rheinmetall Automotive (Germany)

GF Automotive (Switzerland)

Ahresty Corporation (Japan)

Dynacast (US)

Endurance (India)

Mino Industrial (Japan)

Aisin Automotive Casting (US)

Gibbs Die Casting (US)

Research Coverage

The primary objective of the study is to define, describe, and forecast the metal casting market by process, IC vehicle type, components, hybrid & electric vehicle type, and region. It analyzes the opportunities offered by various segments of the market to the stakeholders. It tracks and analyzes competitive developments such as expansions, joint ventures, acquisitions, and other industry activities carried out by key industry participants.

Reasons for buying the report

The study provides qualitative and quantitative analysis of each segment, which is represented in terms of volume (thousand metric tons/thousand units) and value (USD million).

The key ten companies, which have a significant impact on the market, are profiled along with their financial structure, recent developments, and product portfolio.

The report covers the competitive landscape, which reflects the market ranking of leading players along with the dominant strategy adopted by these stakeholders to retain their position.

Contents

1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET DEFINITION
- 1.3 MARKET SCOPE
 - 1.3.1 YEARS CONSIDERED FOR THE STUDY
- 1.4 CURRENCY
- 1.5 PACKAGE SIZE
- 1.6 LIMITATIONS
- 1.7 STAKEHOLDERS

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - 2.1.1 SECONDARY DATA
 - 2.1.2 PRIMARY DATA
 - 2.1.3 SAMPLING TECHNIQUES AND DATA COLLECTION METHODS
 - 2.1.4 PRIMARY PARTICIPANTS
- 2.2 FACTOR ANALYSIS
 - 2.2.1 DEMAND-SIDE ANALYSIS
 - 2.2.1.1 Impact of population on total vehicle sales
 - 2.2.1.2 Growth in global premium vehicle sales
 - 2.2.2 SUPPLY-SIDE ANALYSIS
 - 2.2.2.1 Abundant availability of raw material
- 2.3 MARKET ESTIMATION
 - 2.3.1 BOTTOM-UP APPROACH
 - 2.3.2 TOP-DOWN APPROACH
- 2.4 MARKET BREAKDOWN & DATA TRIANGULATION
- 2.5 ASSUMPTIONS

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

- 4.1 ATTRACTIVE OPPORTUNITIES IN GLOBAL METAL CASTING MARKET
- 4.2 METAL CASTING MARKET, BY REGION
- 4.3 METAL CASTING MARKET, BY PROCESS

4.4 METAL CASTING MARKET, BY APPLICATION

4.5 METAL CASTING MARKET, BY MATERIAL TYPE

4.6 METAL CASTING MARKET, BY VEHICLE TYPE

4.7 METAL CASTING MARKET, BY ELECTRIC VEHICLE TYPE

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.1.1 DRIVERS

5.1.1.1 Growing stringency in emissions and fuel efficiency regulations to drive the demand for aluminum, the key casting material in the automotive industry

5.1.1.2 Lack of alternative manufacturing process for metal casting

5.1.2 RESTRAINTS

5.1.2.1 High cost of casting materials, such as aluminum and magnesium

5.1.2.2 Metal extrusion process versus die casting process

5.1.3 OPPORTUNITIES

5.1.3.1 Rising sales of electric and hybrid vehicles

5.1.4 CHALLENGES

5.1.4.1 High amount of capital investments and existing competition

5.2 MACRO-INDICATOR ANALYSIS

5.2.1 INTRODUCTION

5.2.1.1 Premium vehicle sales as a percentage of total sales

5.2.1.2 GDP (USD billion)

5.2.1.3 GNI per capita, Atlas Method (USD)

5.2.1.4 GDP per capita PPP (USD)

5.2.2 MACRO INDICATORS INFLUENCING THE METAL CASTING MARKET IN TOP

3 COUNTRIES

5.2.2.1 China

5.2.2.2 US

5.2.2.3 Japan

6 METAL CASTING MARKET, BY PROCESS

6.1 INTRODUCTION

6.2 GRAVITY CASTING

6.3 HPDC

6.4 LPDC

6.5 SAND CASTING

7 METAL CASTING MARKET, BY MATERIAL TYPE

- 7.1 INTRODUCTION
- 7.2 ALUMINUM CASTING
- 7.3 CAST IRON
- 7.4 MAGNESIUM CASTING
- 7.5 ZINC CASTING
- 7.6 OTHERS

8 METAL CASTING MARKET, BY APPLICATION

- 8.1 INTRODUCTION
- 8.2 BODY ASSEMBLIES
- 8.3 ENGINE PARTS
- 8.4 TRANSMISSION PARTS

9 METAL CASTING MARKET, BY COMPONENT

- 9.1 INTRODUCTION
- 9.2 ALLOY WHEELS
- 9.3 BATTERY HOUSING
- 9.4 CLUTCH CASING
- 9.5 CROSS CAR BEAM
- 9.6 CRANK CASE
- 9.7 CYLINDER HEAD
- 9.8 DIFFERENTIAL COVER HOUSING
- 9.9 ENGINE BLOCK
- 9.10 ENGINE MOUNT
- 9.11 EXHAUST MANIFOLD
- 9.12 FLYWHEEL HOUSING
- 9.13 FRONT DOOR
- 9.14 GEARBOX HOUSING
- 9.15 IGNITION AND LOCK HOUSING
- 9.16 INTAKE MANIFOLD
- 9.17 OIL PAN
- 9.18 REAR DOOR FRAME
- 9.19 SEAT FRAME
- 9.20 TRANSMISSION HOUSING
- 9.21 TURBOCHARGER HOUSING

10 METAL CASTING MARKET, BY IC VEHICLE TYPE

- 10.1 INTRODUCTION
- 10.2 PASSENGER CARS
- 10.3 LCVS
- 10.4 HCVS

11 METAL CASTING MARKET, BY ELECTRIC AND HYBRID VEHICLE TYPE

- 11.1 INTRODUCTION
 - 11.1.1 BEVS
 - 11.1.2 HEVS
 - 11.1.3 PHEVS

12 METAL CASTING MARKET, BY REGION

- 12.1 INTRODUCTION
- 12.2 ASIA OCEANIA
 - 12.2.1 CHINA
 - 12.2.2 INDIA
 - 12.2.3 JAPAN
 - 12.2.4 SOUTH KOREA
- 12.3 EUROPE
 - 12.3.1 FRANCE
 - 12.3.2 GERMANY
 - 12.3.3 SPAIN
 - 12.3.4 UK
- 12.4 NORTH AMERICA
 - 12.4.1 CANADA
 - 12.4.2 MEXICO
 - 12.4.3 US
- 12.5 ROW
 - 12.5.1 BRAZIL
 - 12.5.2 RUSSIA
 - 12.5.3 SOUTH AFRICA

13 COMPETITIVE LANDSCAPE

13.1 OVERVIEW

13.2 METAL CASTING: MARKET RANKING ANALYSIS

13.2.1 EXPANSIONS

13.2.2 MERGERS & ACQUISITIONS

13.2.3 SUPPLY CONTRACTS/PARTNERSHIPS/JOINT VENTURES

13.2.4 NEW PRODUCT/TECHNOLOGY DEVELOPMENTS

13.3 COMPETITIVE SCENARIO

14 COMPANY PROFILES

(Overview, Product offerings, Recent developments, SWOT analysis & MnM View)*

14.1 NEMAK

14.2 RYOBI LIMITED

14.3 GF AUTOMOTIVE

14.4 RHEINMETALL AUTOMOTIVE

14.5 AHRESTY CORPORATION

14.6 DYNACAST

14.7 ENDURANCE

14.8 MINO INDUSTRIAL

14.9 AISIN AUTOMOTIVE CASTING

14.10 GIBBS DIE CASTING

*Details on Overview, Product offerings, Recent developments, SWOT analysis & MnM View might not be captured in case of unlisted companies.

15 APPENDIX

15.1 INSIGHTS OF INDUSTRY EXPERTS

15.2 DISCUSSION GUIDE

15.3 KNOWLEDGE STORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

15.4 INTRODUCING RT: REAL TIME MARKET INTELLIGENCE

15.5 AVAILABLE CUSTOMIZATIONS

15.5.1 METAL CASTING MARKET FOR COMPONENTS, BY MATERIAL TYPE (TMT)

15.5.1.1 Alloy Wheels

15.5.1.2 Cross Car Beam

15.5.1.3 Crank Cases

15.5.1.4 Cylinder Heads

15.5.1.5 Differential Cover Housing

15.5.1.6 Engine Block

15.5.1.7 Engine Mount

15.5.1.8 Exhaust Manifold

15.5.1.9 Front Door

15.5.1.10 Gearbox Housing

15.5.1.11 Ignition & Lock Housing

15.5.1.12 Intake Manifold

15.5.1.13 Seat Frame

15.5.1.14 Transmission Housing

15.5.1.15 Turbo Charger Housing

15.5.2 METAL CASTING MARKET FOR APPLICATIONS, BY VEHICLE TYPE

15.5.2.1 Body Assemblies

15.5.2.2 Engine Parts

15.5.2.3 Transmission Parts

15.5.3 DETAILED ANALYSIS AND PROFILING OF ADDITIONAL MARKET
PLAYERS

(UP TO 3)

15.6 RELATED REPORTS

15.7 AUTHOR DETAILS

List Of Tables

LIST OF TABLES

Table 1 CURRENCY EXCHANGE RATES (W.R.T. USD)

Table 2 BODY-IN-WHITE (BIW) MATERIAL MIX FOR ADVANCED HIGH STRENGTH STEEL (AHSS) AND ALUMINUM

Table 3 US: FUTURE WEIGHT REDUCTION TARGETS, BY COMPONENT, 2025 VS. 2050

Table 4 BENEFIT ANALYSIS OF DIFFERENT MANUFACTURING PROCESSES

Table 5 AVERAGE MATERIAL WEIGHT FOR NORTH AMERICAN LIGHT VEHICLES (KG/VEHICLE), 2016

Table 6 GOVERNMENT INCENTIVES FOR ELECTRIC VEHICLES, BY COUNTRY

Table 7 COMPARISON OF METAL CASTING PROCESSES

Table 8 METAL CASTING MARKET SIZE, BY PROCESS, 2015–2025 (THOUSAND METRIC TONS)

Table 9 METAL CASTING MARKET SIZE, BY PROCESS, 2015–2025 (USD MILLION)

Table 10 GRAVITY CASTING MARKET SIZE, BY REGION, 2015–2025 (THOUSAND METRIC TONS)

Table 11 GRAVITY CASTING MARKET SIZE, BY REGION, 2015–2025 (USD MILLION)

Table 12 HPDC MARKET SIZE, BY REGION, 2015–2025 (THOUSAND METRIC TONS)

Table 13 HPDC MARKET SIZE, BY REGION, 2015–2025 (USD MILLION)

Table 14 LPDC MARKET SIZE, BY REGION, 2015–2025 (THOUSAND METRIC TONS)

Table 15 LPDC MARKET SIZE, BY REGION, 2015–2025 (USD MILLION)

Table 16 SAND CASTING MARKET SIZE, BY REGION, 2015–2025 (THOUSAND METRIC TONS)

Table 17 SAND CASTING MARKET SIZE, BY REGION, 2015–2025 (USD MILLION)

Table 18 ASP ANALYSIS, BY MATERIAL TYPE, 2016

Table 19 METAL CASTING MARKET SIZE, BY MATERIAL TYPE, 2015–2025 (THOUSAND METRIC TONS)

Table 20 METAL CASTING MARKET SIZE, BY MATERIAL TYPE, 2015–2025 (USD MILLION)

Table 21 ALUMINUM: METAL CASTING MARKET SIZE, BY REGION, 2015–2025 (THOUSAND METRIC TONS)

Table 22 ALUMINUM: METAL CASTING MARKET SIZE, BY REGION, 2015–2025 (USD MILLION)

Table 23 CAST IRON: METAL CASTING MARKET SIZE, BY REGION, 2015–2025
(THOUSAND METRIC TONS)

Table 24 CAST IRON: METAL CASTING MARKET SIZE, BY REGION, 2015–2025
(USD MILLION)

Table 25 MAGNESIUM: METAL CASTING MARKET SIZE, BY REGION, 2015–2025
(THOUSAND METRIC TONS)

Table 26 MAGNESIUM: METAL CASTING MARKET SIZE, BY REGION, 2015–2025
(USD MILLION)

Table 27 ZINC: METAL CASTING MARKET SIZE, BY REGION, 2015–2025
(THOUSAND METRIC TONS)

Table 28 ZINC: METAL CASTING MARKET SIZE, BY REGION, 2015–2025 (USD
MILLION)

Table 29 OTHER MATERIALS: METAL CASTING MARKET SIZE, BY REGION,
2015–2025 (THOUSAND METRIC TONS)

Table 30 OTHER MATERIALS: METAL CASTING MARKET SIZE, BY REGION,
2015–2025 (USD MILLION)

Table 31 METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025
(THOUSAND METRIC TONS)

Table 32 METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025 (USD
MILLION)

Table 33 METAL CASTING MARKET SIZE FOR BODY ASSEMBLIES, BY REGION,
2015–2025 (THOUSAND METRIC TONS)

Table 34 METAL CASTING MARKET SIZE FOR BODY ASSEMBLIES, BY REGION,
2015–2025 (USD MILLION)

Table 35 METAL CASTING MARKET SIZE FOR ENGINE PARTS, BY REGION,
2015–2025 (THOUSAND METRIC TONS)

Table 36 METAL CASTING MARKET SIZE FOR ENGINE PARTS, BY REGION,
2015–2025 (USD MILLION)

Table 37 METAL CASTING MARKET SIZE FOR TRANSMISSION PARTS, BY
REGION, 2015–2025 (THOUSAND METRIC TONS)

Table 38 METAL CASTING MARKET SIZE FOR TRANSMISSION PARTS, BY
REGION, 2015–2025 (USD MILLION)

Table 39 METAL CASTING COMPONENTS MARKET SIZE, BY REGION, 2015–2025
(THOUSAND UNITS)

Table 40 METAL CASTING MARKET SIZE FOR ALLOY WHEELS, BY REGION,
2015–2025 (THOUSAND UNITS)

Table 41 METAL CASTING MARKET SIZE FOR BATTERY HOUSING, BY REGION,
2015–2025 (THOUSAND UNITS)

Table 42 METAL CASTING MARKET SIZE FOR CLUTCH CASING, BY REGION,

2015–2025 (THOUSAND UNITS)

Table 43 METAL CASTING MARKET SIZE FOR CROSS CAR BEAM, BY REGION,
2015–2025 (THOUSAND UNITS)

Table 44 METAL CASTING MARKET SIZE FOR CRANK CASE, BY REGION,
2015–2025 (THOUSAND UNITS)

Table 45 METAL CASTING MARKET SIZE FOR CYLINDER HEAD, BY REGION,
2015–2025 (THOUSAND UNITS)

Table 46 METAL CASTING MARKET SIZE FOR DIFFERENTIAL COVER HOUSING,
BY REGION, 2015–2025 (THOUSAND UNITS)

Table 47 METAL CASTING MARKET SIZE FOR ENGINE BLOCK, BY REGION,
2015–2025 (THOUSAND UNITS)

Table 48 METAL CASTING MARKET SIZE FOR ENGINE MOUNT, BY REGION,
2015–2025 (THOUSAND UNITS)

Table 49 METAL CASTING MARKET SIZE FOR EXHAUST MANIFOLD, BY REGION,
2015–2025 (THOUSAND UNITS)

Table 50 METAL CASTING MARKET SIZE FOR FLYWHEEL HOUSING, BY REGION,
2015–2025 (THOUSAND UNITS)

Table 51 METAL CASTING MARKET SIZE FOR FRONT DOOR, BY REGION,
2015–2025 (THOUSAND UNITS)

Table 52 METAL CASTING MARKET SIZE FOR GEARBOX HOUSING, BY REGION,
2015–2025 (THOUSAND UNITS)

Table 53 METAL CASTING MARKET SIZE FOR IGNITION & LOCK HOUSING, BY
REGION, 2015–2025 (THOUSAND UNITS)

Table 54 METAL CASTING MARKET SIZE FOR INTAKE MANIFOLD, BY REGION,
2015–2025 (THOUSAND UNITS)

Table 55 METAL CASTING MARKET SIZE FOR OIL PAN, BY REGION, 2015–2025
(THOUSAND UNITS)

Table 56 METAL CASTING MARKET SIZE FOR REAR DOOR FRAME, BY REGION,
2015–2025 (THOUSAND UNITS)

Table 57 METAL CASTING MARKET SIZE FOR SEAT FRAME, BY REGION,
2015–2025 (THOUSAND UNITS)

Table 58 METAL CASTING MARKET SIZE FOR TRANSMISSION HOUSING, BY
REGION, 2015–2025 (THOUSAND UNITS)

Table 59 METAL CASTING MARKET SIZE FOR TURBOCHARGER HOUSING, BY
REGION, 2015–2025 (THOUSAND UNITS)

Table 60 METAL CASTING MARKET SIZE, BY VEHICLE TYPE, 2015–2025
(THOUSAND METRIC TONS)

Table 61 METAL CASTING MARKET SIZE, BY VEHICLE TYPE, 2015–2025 (USD
MILLION)

Table 62 PASSENGER CARS: METAL CASTING MARKET SIZE, BY REGION, 2015–2025 (THOUSAND METRIC TONS)

Table 63 PASSENGER CARS: METAL CASTING MARKET SIZE, BY REGION, 2015–2025 (USD MILLION)

Table 64 LCVS: METAL CASTING MARKET SIZE, BY REGION, 2015–2025 (THOUSAND METRIC TONS)

Table 65 LCVS: METAL CASTING MARKET SIZE, BY REGION, 2015–2025 (USD MILLION)

Table 66 HCVS: METAL CASTING MARKET SIZE, BY REGION, 2015–2025 (THOUSAND METRIC TONS)

Table 67 HCVS: METAL CASTING MARKET SIZE, BY REGION, 2015–2025 (USD MILLION)

Table 68 METAL CASTING MARKET SIZE, BY ELECTRIC AND HYBRID VEHICLE TYPE, 2015–2025 (THOUSAND METRIC TONS)

Table 69 METAL CASTING MARKET SIZE, BY ELECTRIC AND HYBRID VEHICLE TYPE, 2015–2025 (USD MILLION)

Table 70 TOP SELLING BEV MODELS

Table 71 BEV: METAL CASTING MARKET SIZE, BY MATERIAL TYPE, 2015–2025 (THOUSAND METRIC TONS)

Table 72 BEV: METAL CASTING MARKET SIZE, BY MATERIAL TYPE, 2015–2025 (USD MILLION)

Table 73 HEV: METAL CASTING MARKET SIZE, BY MATERIAL TYPE, 2015–2025 (THOUSAND METRIC TONS)

Table 74 HEV: METAL CASTING MARKET SIZE, BY MATERIAL TYPE, 2015–2025 (USD MILLION)

Table 75 PHEV: METAL CASTING MARKET SIZE, BY MATERIAL TYPE, 2015–2025 (THOUSAND METRIC TONS)

Table 76 PHEV: METAL CASTING MARKET SIZE, BY MATERIAL TYPE, 2015–2025 (USD MILLION)

Table 77 METAL CASTING MARKET SIZE, BY REGION, 2015–2025 (THOUSAND METRIC TONS)

Table 78 METAL CASTING MARKET SIZE, BY REGION, 2015–2025 (USD MILLION)

Table 79 ASIA OCEANIA: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025 (THOUSAND METRIC TONS)

Table 80 ASIA OCEANIA: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025 (USD MILLION)

Table 81 CHINA: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025 (THOUSAND METRIC TONS)

Table 82 CHINA: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025

(USD MILLION)

Table 83 INDIA: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025
(THOUSAND METRIC TONS)

Table 84 INDIA: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025
(USD MILLION)

Table 85 JAPAN: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025
(THOUSAND METRIC TONS)

Table 86 JAPAN: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025
(USD MILLION)

Table 87 SOUTH KOREA: METAL CASTING MARKET SIZE, BY APPLICATION,
2015–2025 (THOUSAND METRIC TONS)

Table 88 SOUTH KOREA: METAL CASTING MARKET SIZE, BY APPLICATION,
2015–2025 (USD MILLION)

Table 89 EUROPE: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025
(THOUSAND METRIC TONS)

Table 90 EUROPE: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025
(USD MILLION)

Table 91 FRANCE: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025
(THOUSAND METRIC TONS)

Table 92 FRANCE: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025
(USD MILLION)

Table 93 GERMANY: METAL CASTING MARKET SIZE, BY APPLICATION,
2015–2025 (THOUSAND METRIC TONS)

Table 94 GERMANY: METAL CASTING MARKET SIZE, BY APPLICATION,
2015–2025 (USD MILLION)

Table 95 ITALY: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025
(THOUSAND METRIC TONS)

Table 96 ITALY: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025
(USD MILLION)

Table 97 SPAIN: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025
(THOUSAND METRIC TONS)

Table 98 SPAIN: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025
(USD MILLION)

Table 99 UK: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025
(THOUSAND METRIC TONS)

Table 100 UK: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025 (USD
MILLION)

Table 101 NORTH AMERICA: METAL CASTING MARKET SIZE, BY APPLICATION,
2015–2025 (THOUSAND METRIC TONS)

Table 102 NORTH AMERICA: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025 (USD MILLION)

Table 103 CANADA: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025 (THOUSAND METRIC TONS)

Table 104 CANADA: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025 (USD MILLION)

Table 105 MEXICO: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025 (THOUSAND METRIC TONS)

Table 106 MEXICO: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025 (USD MILLION)

Table 107 US: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025 (THOUSAND METRIC TONS)

Table 108 US: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025 (USD MILLION)

Table 109 ROW: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025 (THOUSAND METRIC TONS)

Table 110 ROW: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025 (USD MILLION)

Table 111 BRAZIL: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025 (THOUSAND METRIC TONS)

Table 112 BRAZIL: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025 (USD MILLION)

Table 113 RUSSIA: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025 (THOUSAND METRIC TONS)

Table 114 RUSSIA: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025 (USD MILLION)

Table 115 SOUTH AFRICA: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025 (THOUSAND METRIC TONS)

Table 116 SOUTH AFRICA: METAL CASTING MARKET SIZE, BY APPLICATION, 2015–2025 (USD MILLION)

Table 117 EXPANSIONS, 2017

Table 118 MERGERS & ACQUISITIONS, 2016–2017

Table 119 SUPPLY CONTRACTS/PARTNERSHIPS/JOINT VENTURES, 2016–2017

Table 120 NEW PRODUCT/TECHNOLOGY DEVELOPMENTS, 2014–2017

List Of Figures

LIST OF FIGURES

Figure 1 METAL CASTING MARKET: MARKET SEGMENTATION

Figure 2 METAL CASTING MARKET: RESEARCH DESIGN

Figure 3 RESEARCH DESIGN MODEL

Figure 4 BREAKDOWN OF PRIMARY INTERVIEWS: BY COMPANY TYPE, DESIGNATION, AND REGION

Figure 5 IMPACT OF POPULATION ON VEHICLE SALES, 2014

Figure 6 GLOBAL PREMIUM VEHICLE SALES GROWTH RATE, 2011 – 2015

Figure 7 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

Figure 8 DATA TRIANGULATION

Figure 9 METAL CASTING MARKET, BY COUNTRY, 2017 VS. 2025 (USD BILLION)

Figure 10 METAL CASTING MARKET, BY APPLICATION, 2017 VS 2025 (USD BILLION)

Figure 11 METAL CASTING MARKET, BY PROCESS, 2017 VS. 2025 (USD BILLION)

Figure 12 METAL CASTING MARKET, BY MATERIAL TYPE, 2017 VS. 2025 (USD BILLION)

Figure 13 METAL CASTING MARKET, BY VEHICLE TYPE, 2017 VS. 2025 (USD BILLION)

Figure 14 METAL CASTING MARKET, BY ELECTRIC AND HYBRID VEHICLE TYPE, 2017 VS. 2025 (USD BILLION)

Figure 15 METAL CASTING MARKET, 2017 VS. 2025

Figure 16 ASIA OCEANIA THE LEADING REGION; HPDC THE MOST PREFERRED METAL CASTING PROCESS, 2017

Figure 17 HPDC SEGMENT TO DOMINATE THE MARKET, 2017 VS. 2025 (USD BILLION)

Figure 18 ENGINE PARTS SEGMENT TO DOMINATE THE MARKET, 2015–2025 (USD BILLION)

Figure 19 ALUMINUM SEGMENT TO DOMINATE THE MARKET, 2017 VS. 2025 (USD BILLION)

Figure 20 PASSENGER CARS SEGMENT TO LEAD THE MARKET, 2017 VS. 2025 (USD BILLION)

Figure 21 HEV SEGMENT TO HOLD THE LARGEST MARKET SHARE, 2017 VS. 2025 (USD BILLION)

Figure 22 METAL CASTING MARKET: MARKET DYNAMICS

Figure 23 FUTURE OF EMISSIONS REGULATIONS, BY COUNTRY, 2014–2025

Figure 24 EMISSIONS NORMS COMPARATIVE ANALYSIS: US VS. EURO (NOX &

PM)

Figure 25 GLOBAL RAW MATERIAL PRICES FOR KEY LIGHTWEIGHT MATERIALS, 2014–2021 (USD)

Figure 26 GLOBAL TOP SELLING HEV AND PHEV VEHICLE MODELS, 2015–2016 (UNITS)

Figure 27 GLOBAL SALES OF ELECTRIC VEHICLES (THOUSAND UNITS)

Figure 28 CHINA: RISING PCI AND REVIVING FINANCIAL MARKETS TO DRIVE DOMESTIC DEMAND DURING THE FORECAST PERIOD

Figure 29 US: RISING GNI PER CAPITA EXPECTED TO DRIVE SALES OF LUXURY VEHICLES DURING THE FORECAST PERIOD

Figure 30 JAPAN: RISING DEBT-GDP RATIO TO BE THE MOST CRUCIAL INDICATOR, GIVEN ITS EXCESSIVELY WEAK PERFORMANCE IN THE RECENT PAST

Figure 31 METAL CASTING MARKET, BY PROCESS, 2017 VS. 2025 (USD MILLION)

Figure 32 METAL CASTING MARKET, BY MATERIAL TYPE, 2017 VS. 2025 (USD MILLION)

Figure 33 METAL CASTING MARKET, BY APPLICATION, 2017 VS. 2025 (USD MILLION)

Figure 34 METAL CASTING MARKET FOR COMPONENT, BY REGION, 2017 VS. 2025 (MILLION UNITS)

Figure 35 METAL CASTING MARKET, BY VEHICLE TYPE, 2017 VS. 2025 (USD MILLION)

Figure 36 METAL CASTING MARKET, BY ELECTRIC AND HYBRID VEHICLE TYPE, 2017 VS. 2025 (USD MILLION)

Figure 37 GLOBAL METAL CASTING MARKET, BY REGION, 2017 VS. 2025 (USD MILLION)

Figure 38 ASIA OCEANIA: METAL CASTING MARKET SNAPSHOT

Figure 39 NORTH AMERICA: METAL CASTING MARKET SNAPSHOT

Figure 40 COMPANIES ADOPTED EXPANSIONS AS THE KEY GROWTH STRATEGY, 2014 - 2017

Figure 41 METAL CASTING: MARKET RANKING ANALYSIS, 2016

Figure 42 NEMAK: COMPANY SNAPSHOT

Figure 43 RYOBI: COMPANY SNAPSHOT

Figure 44 GF AUTOMOTIVE: COMPANY SNAPSHOT

Figure 45 RHEINMETALL AUTOMOTIVE: COMPANY SNAPSHOT

Figure 46 AHRESTY CORPORATION: COMPANY SNAPSHOT

Figure 47 ENDURANCE: COMPANY SNAPSHOT

Figure 48 MINO INDUSTRIAL: COMPANY SNAPSHOT

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