

Aluminium Alloys



**Eco Friendly
Aluminium
Alloy
Manufacturer**

Get to Know Gravita

Gravita, established in 1992, is one of India's largest producer of non-ferrous metals and leading technology solution provider for recycling of non-ferrous metals. In the year 2000, we started operating in overseas locations and by the year 2010; our customer presence had expanded to over 32 countries in European, American, Asian and African continents. Gravita is a public listed company registered under Indian companies act and listed at National Stock Exchange (NSE) and Bombay Stock Exchange (BSE) Ltd.

Gravita's products and services offer distinctive solutions to the customers worldwide. We are catering to a widespread customer base and over the three decades, we have grown significantly and are recognized globally for our exceptional customer service and technical expertise. Our customers have counted on our products and services to achieve higher level of efficiencies and productivity.

We deploy the latest technologies to recycle and produce

Aluminium and Lead alloys with stringent quality controls at each of our production facilities across the globe.

Our production complies with international standards. Globally, Gravita is well recognized for its quality and commitment to customers.

As far as production is concerned, one of our key goals is the environmentally responsible recycling of non-ferrous metals. Our organization is constantly generating sustainable, technology-driven jobs for Indian & overseas workforce.

Gravita is engaged in various CSR activities under which it engages with neighbouring villages to generate green jobs. Our employees reap the benefits of regular health check-up and religiously follow the international standards for industrial health and safety. Members of our organization share a dedication to social and environmental responsibility.

The background image shows a Gravita facility with a large tree on the left, a sign for Gravita India Limited in the center, and a building on the right. The sign features the Gravita logo and the text 'GRAVITA INDIA LIMITED' and 'An Eco-Friendly Unit'.

**Since
1992**

**Over 350
Clients
Worldwide**

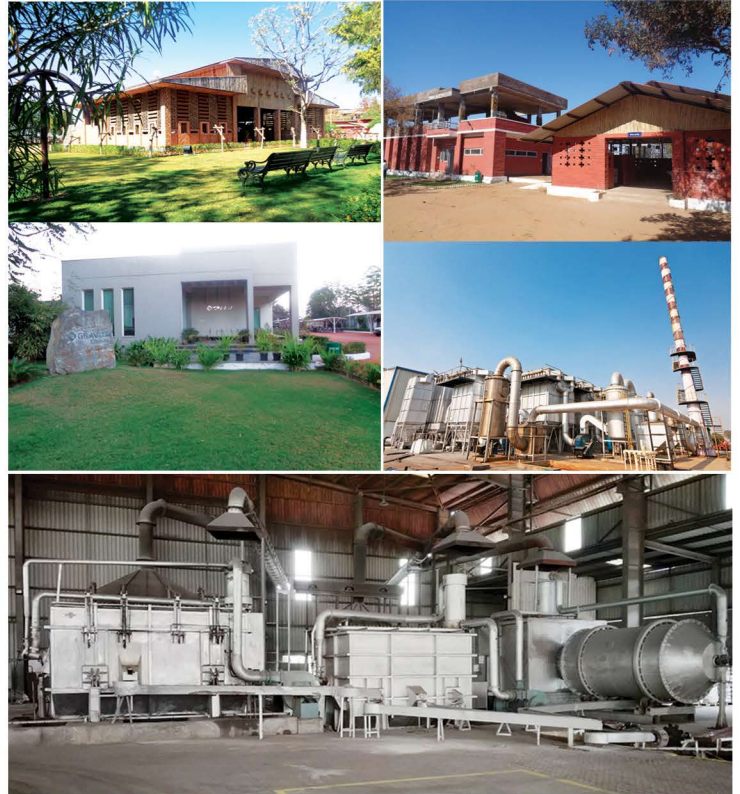
**Network
spread across
70
Countries**

Sustainable Operations

We have technically advanced manufacturing units with modern eco-friendly technology. Our manufacturing units are well equipped with latest high end machinery, Computerized Design Unit, Laboratory, Conference Hall for arranging business meet – cum – technology based meet to promote and/or training for eco friendly production.

We have highly experienced and diligent team of experts who assists us in offering high quality products. Our Research and Development team is regularly updated on the latest developments happening globally in the field of non ferrous metal production.

Occupational health and safety is our top priority and we organize regular training and awareness programs to ensure that the working environment provided at Gravita meets international safety standards. Our manufacturing facilities have modern worker colonies along with hygienic meal rooms and recreational area.



Products

We take utmost care during refining & alloying process. Each batch is checked at regular interval during the production process. The foundry alloys are casted through high grade ceramic filter to ensure that it meets all the casting parameters of die casters. Our aluminium alloys are produced to meet individual customer specifications & our production in accordance with JIS & BS standards.

Tailored Solutions for Unique Specifications



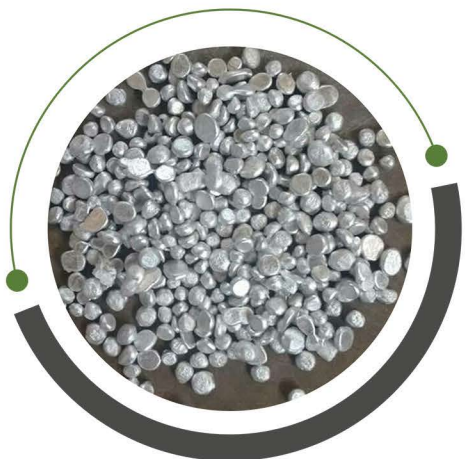
Aluminium
Alloy Ingots



Aluminium
Notch Bar



Aluminium
Cubes



Aluminium
Shots

“ We guarantee in cost saving in die casting with superior properties of Gravita Aluminium Alloys ”

Eco
Friendly
Alloys

Aluminium Alloys

JIS – Chemical Composition (% by weight)

Alloy	Cu	Si	Mg	Zn	Fe	Mn	Cr	Ni	Sn	Pb	Ti	Al
ADC1	1.0 max	11.0 to 13.0	0.3 max	0.5 max	1.3 max	0.3 max	–	0.5 max	0.1 max	0.20 max	0.30 max	Balance
ADC3	0.6 max	9.0 to 11.0	0.4 to 0.6	0.5 max	1.3 max	0.3 max	–	0.5 max	0.1 max	0.15 max	0.30 max	Balance
ADC5	0.2 max	0.3 max	4.0 to 8.5	0.1 max	1.8 max	0.3 max	–	0.1 max	0.1 max	0.1 max	0.20 max	Balance
ADC6	0.1 max	1.0 max	2.5 to 4.0	0.4 max	0.8 max	0.4 to 0.6	–	0.1 max	0.1 max	0.1 max	0.20 max	Balance
ADC10	2.0 to 4.0	7.5 to 9.5	0.3 max	1.0 max	1.3 max	0.5 max	–	0.5 max	0.2 max	0.20 max	0.30 max	Balance
ADC10Z	2.0 to 4.0	7.5 to 9.5	0.3 max	3.0 max	1.3 max	0.5 max	–	0.5 max	0.2 max	0.20 max	0.30 max	Balance
ADC12	1.5 to 3.5	9.6 to 12.0	0.3 max	1.0 max	1.3 max	0.5 max	–	0.5 max	0.2 max	0.20 max	0.30 max	Balance
ADC12Z	1.5 to 3.5	9.6 to 12.0	0.3 max	3.0 max	1.3 max	0.5 max	–	0.5 max	0.2 max	0.20 max	0.30 max	Balance
ADC14	4.0 to 5.0	16.0 to 18.0	0.45 to 0.65	1.5 max	1.3 max	0.5 max	–	0.3 max	0.3 max	0.20 max	0.30 max	Balance
AC4B	2.0 to 4.0	7.0 to 10.0	0.5 max	1.0 max	0.8 max	0.5 max	0.20 max	0.35 max	0.10 max	0.20 max	0.20 max	Balance
AC2B	2.0 to 4.0	5.0 to 7.0	0.5 max	1.0 max	0.8 max	0.5 max	0.20 max	0.35 max	0.10 max	0.20 max	0.20 max	Balance
AlSi9Mg	0.03 max	9.0 to 10.0	0.30 to 0.45	0.07 max	0.15 max	0.10 max	–	–	–	–	0.15 max	Balance
AlSi10Mg	0.08 max	9.0 to 11.0	0.25 to 0.45	0.10 max	0.45 max	0.45 max	–	0.05 max	0.05 max	0.05 max	0.15 max	Balance
AlSi9Cu1Mg	0.8 to 1.3	8.3 to 9.7	0.30 to 0.65	0.80 max	0.7 max	0.15 to 0.55	–	0.20 max	0.10 max	0.10 max	0.10 to 0.18	Balance
AlSi9Cu3(Fe)	2.0 to 4.0	8.0 to 11.0	0.05 to 0.55	3.0 max	1.3 max	0.55 max	0.15 max	0.55 max	0.25 max	0.35 max	0.25 max	Balance
AlSi12Cu1(Fe)	0.7 to 1.2	10.5 to 13.5	0.35 max	0.55 max	1.3 max	0.55 max	0.10 max	0.30 max	0.10 max	0.20 max	0.20 max	Balance
A356	0.20 Max	6.5-7.5	0.25-0.45	0.10 Max	0.20 Max	0.10 Max	–	–	–	–	0.20 Max	Balance
A380	3.0-4.0	7.5-9.5	0.10 Max	1.0 Max	1.30 Max	0.50 Max	–	0.50 Max	0.35 Max	0.10 Max	–	Balance
HS15	2.5-3.5	6.5-7.5	0.25-0.40	0.50 Max	0.50 Max	0.25 Max	0.10 Max	0.15 Max	0.10 Max	0.20 Max	0.20 Max	Balance
AS-9	0.8-1.3	9.0-10.0	0.30-0.50	0.10 Max	0.25 Max	0.10 Max	–	0.05 Max	–	0.10 Max	0.10 Max	Balance
Ingot - 96%	0.25 Max	0.95 Max	1.00 Max	0.15 Max	1.00 Max	0.90 Max	0.05 Max	0.02 Max	–	0.05 Max	–	Balance
Ingot - 98.5%	0.25 Max	0.50 Max	0.20 Max	0.20 Max	0.90 Max	0.20 Max	0.10 Max	0.10 Max	–	0.050 Max	–	Balance

BS – Chemical Composition (% by weight)

Alloy	Cu	Mg	Si	Fe	Mn	Ni	Zn	Pb	Sn	Ti	Al
LM0	0.03	0.03	0.3	0.4	0.03	0.03	0.07	0.03	0.03	–	Balance
LM2	0.7-2.5	0.3	9.0-11.5	1	0.5	0.5	2	0.3	0.2	0.2	Balance
LM4	2.0-4.0	0.2	4.0-6.0	0.8	0.2-0.6	0.3	0.5	0.1	0.1	0.2	Balance
LM5	0.1	3.0-6.0	0.3	0.6	0.3-0.7	0.1	0.1	0.05	0.05	0.2	Balance
LM6	0.1	0.1	10.0-13.0	0.6	0.5	0.1	0.1	0.1	0.05	0.2	Balance
LM9	0.2	0.2-0.6	10.0-13.0	0.6	0.3-0.7	0.1	0.1	0.1	0.05	0.2	Balance
LM12	9.0-11.0	0.2-0.4	2.5	1	0.6	0.5	0.8	0.1	0.1	0.2	Balance
LM13	0.7-1.5	0.8-1.5	10.0-13.0	1	0.5	1.5	0.5	0.1	0.1	0.2	Balance
LM14	3.5-4.5	1.2-1.7	0.6	0.6	0.6	1.8-2.3	0.1	0.05	0.05	0.2	Balance
LM15	0.3-3.0	0.5-1.7	0.6-2.0	0.8-1.4	0.1	0.5-2.0	0.1	0.05	0.05	0.05-0.3	Balance
LM16	1.0-1.5	0.4-0.6	4.5-5.5	0.6	0.5	0.25	0.1	0.1	0.05	0.2	Balance
LM20	0.4	0.2	10.0-13.0	1	0.5	0.1	0.2	0.1	0.1	0.2	Balance
LM21	3.0-5.0	0.1-0.3	5.0-7.0	1	0.2-0.6	0.3	2	0.2	0.1	0.2	Balance
LM22	2.8-3.8	0.05	4.0-6.0	0.6	0.2-0.6	0.15	0.15	0.1	0.05	0.2	Balance
LM24	3.0-4.0	0.3	7.5-9.5	1.3	0.5	0.5	3	0.3	0.2	0.2	Balance
LM25	0.2	0.2-0.6	6.5-7.5	0.5	0.3	0.1	0.1	0.1	0.05	0.2	Balance
LM26	2.0-4.0	0.5-1.5	8.5-10.5	1.2	0.5	1	1	0.2	0.1	0.2	Balance
LM27	1.5-2.5	0.35	6.0-8.0	0.8	0.2-0.6	0.3	1	0.2	0.1	0.2	Balance
LM28	1.3-1.8	0.8-1.5	17-20	0.7	0.6	0.8-1.5	0.2	0.1	0.1	0.2	Balance
LM29	0.8-1.3	0.8-1.3	22-25	0.7	0.6	0.8-1.3	0.2	0.1	0.1	0.2	Balance
LM30	4.0-5.0	0.4-0.7	16-18	1.1	0.3	0.1	0.2	0.1	0.1	0.2	Balance
LM31	0.1	0.5-0.75	0.25	0.5	0.1	0.1	4.8-5.7	0.05	0.05	0.25	Balance

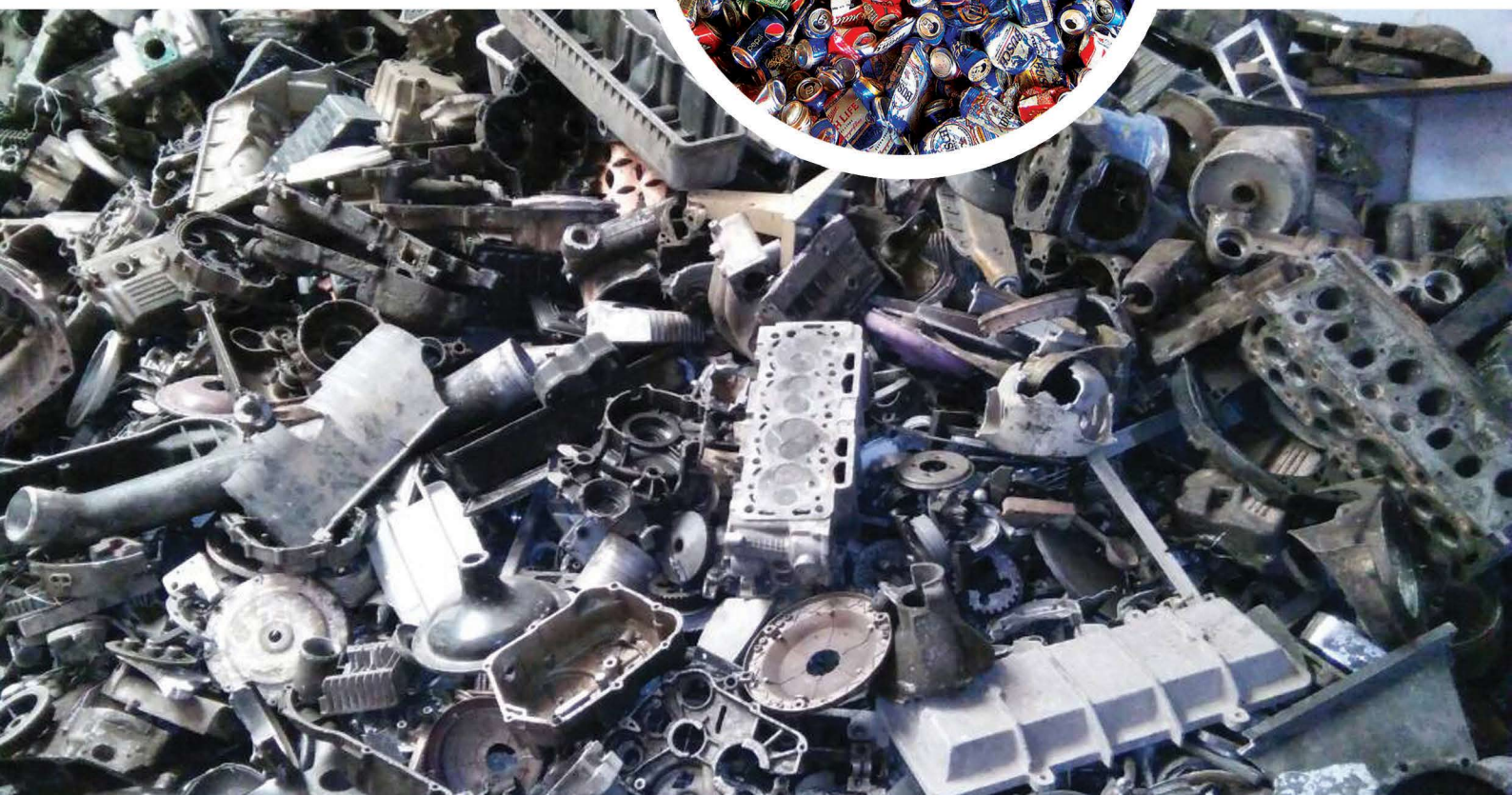


Increasing Green Footprints

We source our raw material i.e. aluminium scrap from domestic as well as overseas markets. We have setup tight controls in segregation & collection process to help us get the right quality of raw material. With the recycling of Aluminium scrap, we are creating green footprints across the globe. Our majority of scrap contains ISRI Tense, Taint/ Tabor, Tread, Troma, Twitch, Triumph, Taldon, Tablet, Tassel, Tale etc.



“Eco-Friendly Recycling”



Process Monitoring & Sustainable Recycling

We ensure each parameter of inward raw material, outward finished goods, waste & by products are checked & monitored to ensure satisfaction of all stakeholders for a sustainable growth.



“The strict process control and in-process testing ensures that our alloys have desired properties for critical applications like leak proof castings & high strength components”



We Recycle to Save Environment

Industries We Serve

Gravita is engaged in manufacturing a variety of high quality aluminium alloys available in various chemical compositions. These different alloys can be used for sand, gravity and die casting, which can be utilized in electrical industry, light weight applications, automobiles and other applications.

We cater to a wide range of aluminium foundry alloys required by automobile parts & electrical parts die casters.

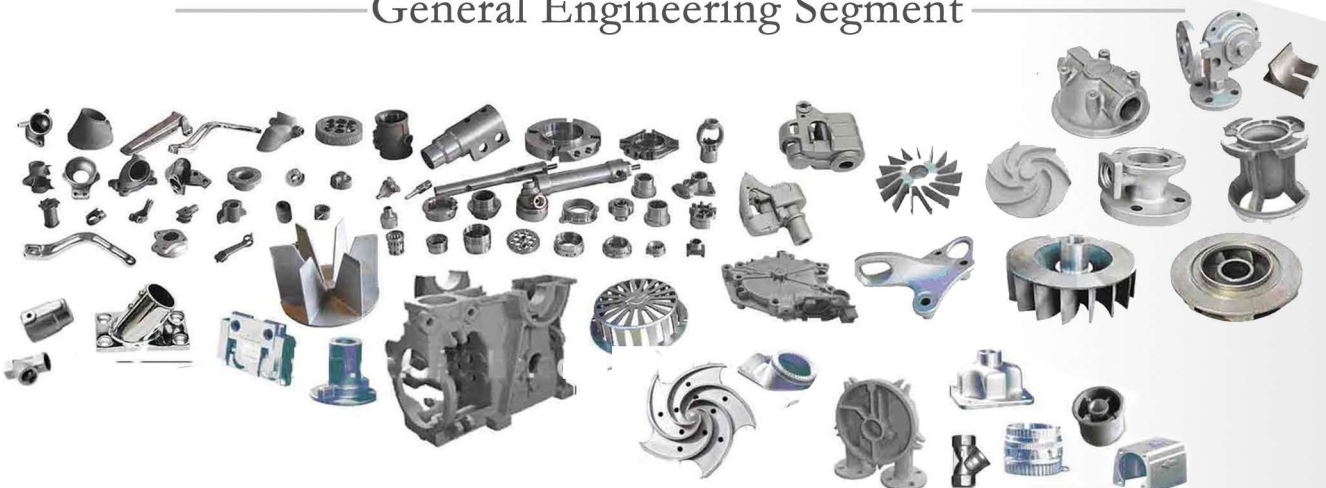
Automobile Segment



Electrical & Electronics Segment



General Engineering Segment



Excellence Rewarded

Winning the trust of customers and then being appreciated for the same is an achievement in itself. Gravita has been awarded with numerous prestigious honors for its unfaltering commitment to quality and service over the years. Some of these business performance awards which has put Gravita firmly ahead of its competitors include:

- Northern Region Export Excellence Award 2023
- Best Employer Award 2023
- Emerging India Green SME Award
- COSIA Entrepreneurship Appreciation Award 2011
- MSME National Award 2010
- Udhog Bharti Award
- India SME 100 Award
- Best Business Partner Award
- Star Export House
- Niryat Shree Award from President of India
- Fastest Growing SME & Organization Award
- INC 500 Certificate of Excellence
- RCCI Business Excellence Award
- Business Today Green SME Award
- Indian Achievers Award
- Business Leadership Award
- CE Certification
- Rashtriya Vikas Ratan Award
- Bureau of Indian Standards (BIS)



Our State-of-The-Art Aluminium Alloys Manufacturing Plants

Strategically located in Asia and Africa, our aluminium alloy manufacturing plants with an annual capacity of over 45,000 MT are well-positioned to serve the ever-growing demands of the global aluminium die-casting components manufacturing industry. Our global procurement network ensures a consistent supply of high-quality aluminium scrap, a crucial factor in maintaining top-tier alloy production.



India, Asia



Mozambique, Africa



Tanzania, Africa



Togo, Africa



Senegal, Africa



Ghana, Africa

Global Network



Regional Offices



Manufacturing Facilities

Business Verticals

- Lead
- Aluminium
- Plastic
- Rubber
- Turnkey Solutions
- EPR Consultancy

Deep Routed **PROCUREMENT NETWORK**

31

Own Yards

1700+

Touch Points

2,50,000+MT

Scrap Collection

Diversified **CUSTOMER NETWORK**

32+

Countries

350+

Customers

1,69,000+MT

Recycled Product Delivery

 We Recycle to Save Environment



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