

ISO 9001:2015 CERTIFIED

PSA
ENGINEERING

PSA Engineering Solutions

Precision Aluminum Die Casting

Complete In-House Manufacturing Excellence

 Gurugram, Haryana, India

25+

Years Experience

Export Global

Ready

Quality

 www.psaes.com

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“ Complete vertical integration for unmatched quality control

Company Overview



Who We Are

PSA Engineering Solutions is a premier aluminum die casting manufacturer located in Gurugram's Udyog Vihar industrial area. We specialize in precision components for **electrical fittings, lighting, and electronics industries**.

What sets us apart is our **complete vertical integration** – from die design and manufacturing to casting, machining, and powder coating, everything happens under one roof. This gives us unmatched quality control and faster delivery times.

Leadership



Akash Verma, Director – With a deep understanding of die casting processes and a commitment to operational excellence, Akash leads PSA Engineering with a focus on quality, innovation, and customer satisfaction.

25+

Years Experience

50+

Happy Clients

100%

In-House

Location

 Address
**D-82, Udyog Vihar Phase VI
Sector 37, Gurugram 122001
Haryana, India**

 Phone
+91-852-7140-326

 Email
info@psaes.com

 Website
www.psaes.com

Certifications

 **ISO 9001:2015**
Quality Management System

 **ROHS Compliant**
Environmental Standards

Mission & Vision



Our Mission

To advance the aluminum casting industry through **precision manufacturing** and **complete in-house capabilities**. We strive to deliver components that meet international quality standards while providing comprehensive solutions – from tooling design to finished products – that ensure our clients' success in global markets.



Our Vision

To be the **most trusted partner** for precision aluminum die casting, recognized for our complete manufacturing capabilities, export-quality products, and technical expertise. We envision setting new standards in the electrical, lighting, and electronics component manufacturing sectors.



Excellence

Uncompromising quality in every component we produce



Partnership

Building long-term relationships with our clients



Innovation

Continuous improvement in processes and technology



Global Reach

Serving clients worldwide with export-quality products

Core Values



The principles that guide everything we do



Quality First

Uncompromising quality at every stage of production, from raw material to finished product. We maintain rigorous standards and continuous improvement.



Reliability

Consistent on-time delivery and dependable performance our clients can count on. We honor our commitments and exceed expectations.



Innovation

Continuous improvement in processes and technology to serve our clients better. We embrace new ideas and cutting-edge solutions.



Partnership

Working closely with clients from concept to production as true technical partners. We collaborate for mutual success.



Integrity

Honest communication and ethical business practices in all our relationships. We build trust through transparency.



Global Standards

Meeting international specifications for export-ready products. We deliver world-class quality that competes globally.

“ These core values are the foundation of our culture and the driving force behind our commitment to excellence

WHAT WE DO

Manufacturing Capabilities



Complete in-house manufacturing from die design to finished product

01 Pressure Die Casting

High-quality aluminum components with excellent surface finish and dimensional accuracy.

4

PDC Machines

180-500T

Capacity

±0.1mm

Tolerance

02 CNC & VMC Machining

Precision secondary operations for assembly-ready components with tight tolerances.

4

Machines

±0.02mm

Precision

10K

RPM

03 Tooling & Die Making

In-house die design, manufacturing, and maintenance for complete control.

100%

In-House

H13

Tool Steel

Fast

Turnaround

04 Powder Coating

Durable, attractive surface finish for all components with custom colors.

60-80

µm Thickness

RAL

Colors

200°C

Curing



100% Vertical Integration — Everything from die design to finished product under one roof

OUR ASSETS

Equipment & Facility

Modern machinery for efficient, high-quality production

PSA
ENGINEERING



PDC Machines

4 Units

High-pressure die casting machines for precision aluminum components



VMC Centers

2 Units

Vertical machining centers for precision finishing operations



CNC Lathes

2 Units

Computer numerical control turning for precision parts



EDM Machines

2 Units

Wire & sink EDM for precision tooling and die making



Powder Coating

1 Line

Complete electrostatic coating line with curing oven



Melting Furnace

2 Units

Aluminum melting capacity for continuous production



Inspection

Full Set

Complete quality measurement tools and testing equipment



Tool Room

Complete

Full die maintenance and repair facility in-house

15+

Total Equipment Units

Complete

Facility Size Plant

Udyog Vihar

Prime Industrial Location

OUR PROCESS

End-to-End Manufacturing



A streamlined process ensuring quality at every step



Quality Control

Quality is built into every step of our manufacturing process. From incoming material inspection to final product verification.

Fast Turnaround

Complete in-house capabilities enable faster delivery times and better control over production schedules.

Documentation

Complete traceability for every batch with detailed inspection reports and material certificates.

Industries We Serve



Precision components for three core industries



Electrical Fittings

We manufacture precision aluminum components for the electrical industry – junction boxes, cable glands, terminal housings, and more.

- ✓ Junction Boxes
- ✓ Cable Glands
- ✓ Terminal Housings
- ✓ Switch Enclosures
- ✓ Connector Bodies



Lighting Components

From LED street lights to decorative fixtures, we produce aluminum housings and heat sinks optimized for thermal performance.

- ✓ LED Heat Sinks
- ✓ Street Light Housings
- ✓ Flood Light Bodies
- ✓ Decorative Fixtures
- ✓ Downlight Housings



Electronics Housings

We manufacture precision enclosures for electronics and telecom equipment – from EMI shielded boxes to outdoor telecom housings.

- ✓ EMI Enclosures
- ✓ Telecom Housings
- ✓ Device Cases
- ✓ Connector Bodies
- ✓ IP65+ Rated Units

IP65+

Rating

50K+

Units/Month

10+

Product Types

40%

Better Cooling

5K+

Units Delivered

100%

QC Checked

★ **Focused Expertise:** We specialize in three industries – allowing us to develop deep knowledge and optimized processes for each sector

OUR PRODUCTS

Product Portfolio



High-precision aluminum die cast components across multiple sectors

Automotive

- Engine Blocks
- Transmission Housings
- Brake Calipers

Materials: ADC12, A380

Aerospace

- Aircraft Brackets
- Landing Gear Parts
- Structural Components

Materials: A356, A357

Electronics

- Heat Sinks
- EMI Enclosures
- Device Housings

Materials: ADC12, A380

Industrial

- Pump Housings
- Valve Bodies
- Machinery Parts

Materials: A356, A380

Medical

- Device Housings
- Instrument Cases
- Sterilizable Parts

Materials: A356

Material Specifications

ADC12

General purpose, excellent castability

A380

High strength, good corrosion resistance

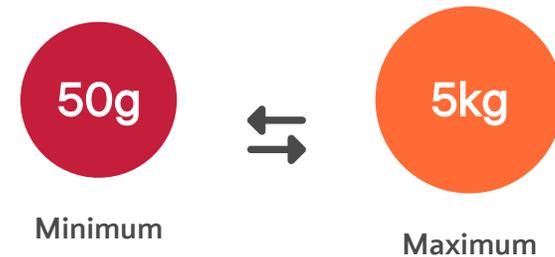
A356

High strength-to-weight ratio

A357

Superior mechanical properties

Weight Range



OUR COMMITMENT

Quality Assurance

Quality is built into every step of our manufacturing process



99%

Quality Acceptance

Rate across all production batches



100%

Parts Inspected

Complete inspection coverage



95%

On-Time Delivery

Consistent delivery performance

Three-Layer Quality Control

1

Incoming Inspection

All raw materials checked before use with material certificates

2

In-Process Control

Regular checks during production with statistical process control

3

Dimensional Inspection

Calibrated instruments for accurate measurement and verification

Quality Standards & Certifications



ISO 9001:2015

Quality Management System certification



ROHS Compliant

Restriction of hazardous substances

Material Certificates

Full material traceability with test certs

Inspection Reports

Detailed dimensional & visual reports

GLOBAL REACH

Export Capabilities

Export-quality manufacturing serving global markets

PSA
ENGINEERING

Markets We Serve

 **Europe**
EU Standards

 **Middle East**
GCC Markets

 **Asia Pacific**
ASEAN Region

 **Americas**
North & South

Export Compliance

 **International Standards**
Products meeting global quality specifications

 **Documentation**
Complete export documentation and certificates

 **Packaging**
Export-ready packaging for safe transit

 **Quality Requirements**
Understanding of global market requirements

Export Excellence

50+

Happy Clients

100%

Export Ready

Logistics Advantage

Located in Gurugram's industrial hub with excellent connectivity to major ports and airports. We ensure timely delivery to global destinations.

OUR ADVANTAGE

Why Choose PSA Engineering



Six compelling reasons to partner with us



Complete In-House Facility

Die casting, machining, finishing – all under one roof for better control, faster delivery, and consistent quality.



Export Quality Standards

Components meeting international specifications with ISO 9001:2015 certification and ROHS compliance.



Technical Partnership

Design support from concept to production – we work as your technical partner, not just a supplier.



Focused Expertise

Specialization in electrical, lighting, and electronics sectors allows us to develop deep knowledge and optimized processes.



Reliable Delivery

95% on-time delivery backed by in-house tooling and dedicated production capacity.



Quality Systems

ISO 9001:2015 certified with complete documentation and traceability for every batch.



Experience the PSA Difference — Precision, Quality, and Partnership



Industry Context & Opportunity

Global aluminum die casting market trends and growth drivers



Global Market Growth

2021 Market Size

\$69.8B



2028 Forecast

\$101.48B



Compound Annual Growth Rate

5.44% CAGR



Key Growth Drivers



Automotive Lightweighting

Growing demand for lightweight components to improve fuel efficiency



EV Adoption

Electric vehicle manufacturing driving aluminum usage



Sustainability Focus

Recycled aluminum and energy-efficient manufacturing



Technology Advancement

AI, automation, and simulation tools enhancing efficiency

Regional Market Share

41-51%

Asia Pacific

24%

Europe

PSA Positioning

With complete in-house capabilities and export focus, PSA Engineering is positioned to capitalize on these global trends.

LET'S WORK TOGETHER

Partner With Us

Ready to discuss your die casting project? Our team is prepared to help bring your designs to production with complete in-house capabilities and export-quality standards.



Visit Us

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Get a Free Quote



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