

Pioneer of Extrusion Die Excellence

ENGINEERING RELIABILITY INTO EVERY EXTRUSION.

DESIGNED IN INDIA.
MANUFACTURED IN INDIA.
TRUSTED GLOBALLY.

www.aludeqdies.com



ENGINEERING SHOULD NOT LEAVE ROOM FOR DOUBT.

Aludeq Precision Dies and Tooling was founded in 2024 with a clear objective – to eliminate uncertainty in aluminium extrusion die performance.

Extruders are judged by consistency. Consistency depends on dies that perform – cycle after cycle – without compromising dimensional accuracy, flow balance, or surface finish.

WE ENGINEER EXTRUSION DIES THAT:

Improve extrusion output

Reduce trial setups

Shorten correction cycles

Enhance long-term die life

Our approach is disciplined, practical, and rooted in real extrusion environments.

WE DO NOT POSITION OURSELVES AS SUPPLIERS.

WE OPERATE AS MANUFACTURING PARTNERS.



RELIABILITY IS NOT OPTIONAL.

Extrusion failures cost time, material, and reputation.

COMMON CHALLENGES FACED BY EXTRUDERS INCLUDE:



Production uncertainty restricts risk-taking and innovation.

Aludeq was established to remove this uncertainty – through simulation-backed design, controlled machining, and coordinated trial support.



PRECISION AS A CULTURE, NOT A METRIC

***“Precision is the
epicentre of
the Aludeq culture
”***

At Aludeq P.D.T., precision defines performance.

Every contour, pocket, and bearing length is engineered with a defined technical purpose. Each die is validated through inspection and simulation-backed insights before it reaches the extrusion press.

Micron-level machining accuracy.
Controlled process parameters.
Continuous validation.



VISION

To be recognized as the world's most trusted name in extrusion die technology – leading the evolution of aluminium extrusion through advanced engineering, process innovation, and uncompromising quality.

MISSION

To engineer precision extrusion dies that redefine reliability, consistency, and performance – enabling extruders to produce high-quality standard and non-standard profiles efficiently and economically.

CORE VALUES

Precision in Every Micron

Every die reflects meticulous craftsmanship and technical discipline.

Innovation with Purpose

Technology is used to improve flow, extend die life, and enhance customer outcomes.

Partnership Beyond Supply

We deliver confidence – not just tooling.

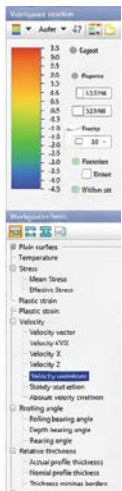
Integrity in Engineering

Transparency and accountability guide every stage from design to dispatch.

Sustainability Through Efficiency

Optimized processes reduce waste and energy consumption.





WHERE TECHNOLOGY MEETS CRAFTSMANSHIP

Design Infrastructure

Every die design is validated before machining begins.

WE ANALYZE:

Flow balance

Bearing variation

Extrusion pressure

Potential failure points

Using QFORM simulation software, we replicate real-world extrusion environments to prevent trial-stage failures.

Our 2D and 3D systems are automated and integrated with a pre-existing die performance library. Backup dies are continuously refined based on past extrusion data.

This design intelligence drives higher first-trial success rates.



MANUFACTURING INFRASTRUCTURE

Fully integrated in-house setup established July 2025.

AUTOMATIC BANDSAW

Precision cutting up to 420mm tool steel diameter with automatic indexing.

CNC LATHE

Turning blank diameters up to 350mm with 0.05mm precision.

HORIZONTAL MACHINING CENTRE (DOUBLE PALLET)

Complex geometry machining up to 0.002mm precision.
40-tool automatic station.
Touch probe dimensional inspection.
Reduced setup time.

CNC SINKER EDM

Complex profiles and multi-cavity dies with mirror surface finish.

CNC WIRECUT EDM

Bearing cutting in hardened dies with surface finishes as fine as 0.1 Ra.

AUTOMATIC SURFACE GRINDING

Tight tolerances and refined die stacks.

HEAT TREATMENT

Achieved hardness range: 47–49 HRC for strength and wear resistance.

HAND FINISHING

Manual polishing ensures clean aluminium flow and defect-free pockets.

QUALITY & INSPECTION

Critical dimensions are verified against approved die designs. Inspection focuses on parameters directly affecting flow and extrusion quality.

Controlled validation reduces on-site corrections and trial risks.



PROCESS CAPABILITIES

Max Die Diameter: 350mm

Production Capacity: 150 Dies per month

RANGE OF SERVICES

SOLID DIES

HOLLOW DIES

INSERT DIES

EXTRUSION TOOLINGS

DIE CORRECTION SUPPORT

DIE COATING SERVICES

DIE MAINTENANCE GUIDANCE



PRODUCT PORTFOLIO

FORM. FLOW. FINISH.



SOLID EXTRUSION DIES

Designed for profiles without internal cavities.
Balanced metal flow and dimensional consistency.



HOLLOW EXTRUSION DIES

Engineered for profiles with internal voids.
Controlled welding chambers and stable extrusion performance.



INSERT DIES

Cost-effective solution for profiles not requiring a full die set.
Reduced tooling cost while maintaining performance integrity.



BOLSTERS & DIE HOLDERS

Enhanced alignment.
Lower deflection.
Improved tool lifespan.

BENEFITS

Lower manufacturing time | Reduced backup cost | Maintained extrudability



DESIGN PHILOSOPHY & R&D

Good performance is engineered at the design stage.

WE PROACTIVELY ADDRESS:

Bearing imbalances

Flow variations

Stress concentration zones

Fatigue risks

Continuous improvement is embedded in our system. Every trial feedback strengthens the next design iteration.

We support up to three coordinated trials to ensure successful extrusion performance.

Every backup die is expected to outperform the previous one.



INDUSTRIES WE SERVE

OUR DIES SUPPORT EXTRUDERS OPERATING IN:


Automotive

Aerospace & Defense

Renewable Energy

Construction & Architecture

Machine Tools & Facility Systems



These industries demand consistency, dimensional accuracy, and repeatable performance – and our dies are built accordingly.



MILESTONES

**OCTOBER
2024**

Aludeq P.D.T. founded.

**JULY
2025**

Complete in-house precision manufacturing setup installed.

**AUGUST
2025**

First hollow profile die manufactured and successfully extruded in the first trial.

These milestones mark the beginning of fully integrated precision die manufacturing under one roof.





AFTER-SALES & SUPPORT

Responsibility does not end at dispatch.

WE REMAIN ENGAGED THROUGH:

Coordinated extrusion trials (up to 3)

Die corrections

Technical guidance

Performance improvement support

OUR GOAL IS NOT SHIPMENT — IT IS EXTRUSION SUCCESS.



CLIENT PORTFOLIO

Trusted by extrusion manufacturers focused on reliability
and long-term performance.



LET US DISCUSS YOUR EXTRUSION REQUIREMENTS.

We respond with clear timelines, technical clarity, and realistic
production commitments.



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