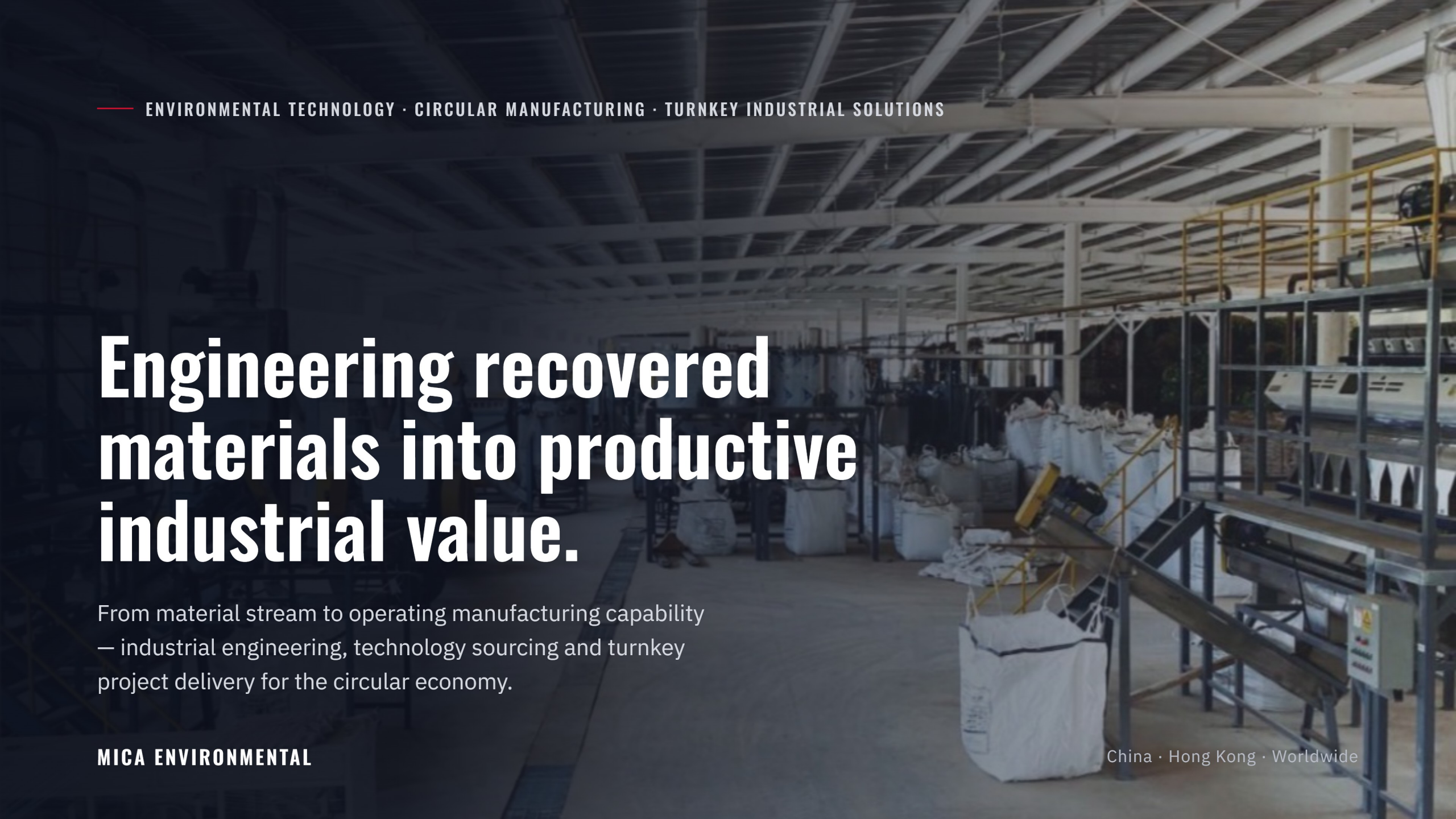


A wide-angle photograph of a large industrial facility, likely a recycling or manufacturing plant. The space is filled with various pieces of machinery, conveyor belts, and large white bags of material. The ceiling is high with a complex network of steel beams and lighting fixtures. The overall atmosphere is industrial and functional.

— ENVIRONMENTAL TECHNOLOGY · CIRCULAR MANUFACTURING · TURNKEY INDUSTRIAL SOLUTIONS

Engineering recovered materials into productive industrial value.

From material stream to operating manufacturing capability — industrial engineering, technology sourcing and turnkey project delivery for the circular economy.

MICA ENVIRONMENTAL

China · Hong Kong · Worldwide

Industrial capability, applied to the circular economy

Mica Environmental combines industrial engineering, manufacturing technology, international equipment sourcing and project delivery to develop practical downstream solutions for recovered materials.

Our role is to bridge the gap between material recovery and commercially viable manufacturing — working with waste-management companies, governments, industrial groups and strategic asset owners to identify the right downstream application, then engineer, deliver and support the capability required to realise it.

We do not begin with a machine. We begin with the material, the required output and the commercial objective.



Material sorting line, recovered-materials facility

From recovery to industrial value



Mica focuses on the downstream industrial stages of the circular economy — working with recovered-material owners to create value through processing, conversion and manufacturing.



Recovered material entering a sorting and characterisation line

Recover more. Process intelligently. Manufacture locally.

One industrial partner, from concept to operation

- | | | | |
|-----------|---|-----------|---|
| 01 | Assess
Material characteristics, volumes, contamination and downstream opportunity. | 05 | Deliver
Factory acceptance, logistics, installation and site integration. |
| 02 | Engineer
Process flow, capacity, factory layout, utilities and automation. | 06 | Commission
Product trials, operator training and production ramp-up. |
| 03 | Source
Technology, machinery, tooling and controls from the supplier network. | 07 | Support
Technical assistance, maintenance planning, spares and tooling. |
| 04 | Integrate
Coordinate multiple OEMs into one engineered production solution. | 08 | Optimise
Improve output, efficiency, product range and future capacity. |

Engineering, technology and delivery

01

Process & Factory Engineering

Process design, equipment specification, layout, utilities and automation.

02

Recycling & Material Processing

Sorting, shredding, washing, drying, flaking, pelletising and compounding.

03

Downstream Manufacturing

Injection and blow moulding, extrusion, film production and tooling.

04

Technology Integration

OEM selection, controls, tooling and multi-package integration.

05

Project Delivery

Supplier coordination, factory testing, installation and training.

06

Lifecycle Support

Spares, maintenance programmes, optimisation and capacity growth.



Washing, drying and pelletising line within the Mica supplier network

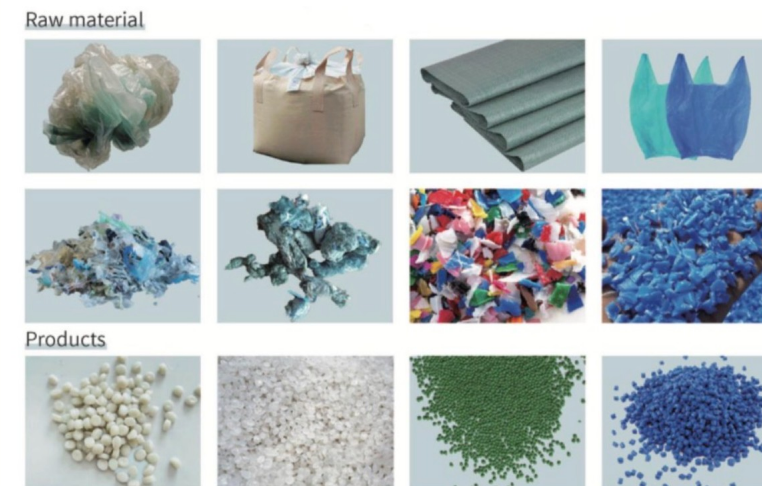
Six capability areas, held under one accountable delivery team — so the client manages a single relationship, not six separate suppliers.

Turnkey plastics recycling & manufacturing

SORT → SHRED → WASH → DRY → FLAKE → PELLETISE → CONVERT

Material	Process Route	Output
HDPE	Wash → regrind → compound → mould	Bins, pallets, crates, containers, municipal products.
LDPE / LLDPE	Wash → dry → pelletise → extrusion	Liners & flexible products.
PP	Wash / prepare → compound → mould	Totes, crates, storage systems, industrial components, logistics products.
PET	Hot wash → flake → pellet	rPET, preforms & technical outputs.

Final process design and product route are determined by feedstock quality, product specification and regulatory requirements.



From recovered feedstock to finished pellet — documented material samples.

Textile recovery & downstream manufacturing



SORT & GRADE → FIBRE ID → OPEN / SHRED → RECOVER FIBRE

Mica approaches textile recovery the same way as plastics: identify the material composition first, then engineer the highest-value viable route — **Reuse** where garment condition permits, **Nonwovens** for industrial, acoustic and thermal applications, or **Recycled Yarn** where fibre quality supports spinning.

The first question is not “which machine?” It is “what is the fibre composition, and which output preserves the greatest value?”

Technology-agnostic by design

Mica does not rely on a single machinery manufacturer. We specify systems around the project and integrate from documented OEM and supplier sources.

Recycling Systems

Plastics washing, shredding, granulation and recycling systems.

Processing & Integration

Recycling systems, processing equipment and integration capability.

Extrusion Systems

Extrusion and pelletising systems.

Plus specialist sources for sorting, automation, controls, tooling, moulds, material handling, utilities and factory integration.

The client receives an engineered solution — not a catalogue of equipment.



Documented supplier processing hall

Designed to match the opportunity



Scale: 0 – 5,000 kg/h · figures in kg/h, supplier-reference ranges



System capacity is only one part of factory design. Mica evaluates the complete operating environment: **power, water, labour, factory footprint, material handling, output quality, automation, maintenance and downstream conversion.**

A production line is not simply machinery. It is an integrated operating system.

From requirement to operating facility

01	Define	Material stream, target output, capacity, quality requirement and commercial objective.
02	Engineer	Process flow, equipment sizing, utilities, layout, controls and automation.
03	Build & Source	Machinery, tooling, controls, auxiliary systems and supporting equipment.
04	Verify	Factory acceptance testing, technical inspection and documentation.
05	Install & Commission	Site integration, testing, product trials and operating validation.
06	Ramp Up	Operator training, production optimisation and operational handover.



One project interface across multiple technology packages.



Ongoing technical support, on site

— 11 — ENGINEERING & LIFECYCLE SUPPORT

The relationship continues after commissioning

Mica is structured around an ongoing technical relationship rather than a one-time machinery transaction.

Technical Support

Remote diagnostics and engineering assistance.

Preventive Maintenance

Schedules, inspection and service planning.

Spares & Consumables

Critical-spares strategy and replenishment.

Process Optimisation

Yield, cycle time, energy and throughput.

Product Development

New tooling, moulds and configurations.

Capacity Expansion

Debottlenecking and automation upgrades.

Engineer it. Deliver it. Stand behind it.

Experience across strategy, recycling & delivery

PE	Phil Everhard Chief Executive Officer	20 years in corporate management and operations — vertical integration, international growth, governance.
AG	Amy Guo Commercial Director	15 years in waste recycling and materials production — end-to-end recycling solution design.
OC	Owen Cao Production Manager	25 years in manufacturing and heavy machinery — factory establishment and production setup.
JC	Jimmy Chong Sales Engineer	15 years in injection and blow moulding — technical sales and turnkey delivery.
AM	Alexander Martens Sales Director	17 years in B2B sales for service-led industries — strategic accounts and partnerships.

Documented capability across the Mica network

- A Factory Capability** — documented production workshops within the supplier network.
- B International References** — supplier installations across international markets.
- C Engineering Capability** — specialist recycling engineering & commissioning support.
- D Certifications** — relevant supplier certifications and quality documentation.
- E Performance Data** — capacity, power, labour, footprint and utility data.
- F Service Capability** — pre-sale, project-stage and after-sales support.

Credentials shown represent documented supplier-network capability and should not be interpreted as Mica-owned factories or installations unless specifically identified.



Industrial thinking for circular manufacturing

01 — Solution First

Material and required output define the technology, not the reverse.

02 — Multi-Technology

Access to multiple OEMs, processes and equipment configurations.

03 — Single Interface

One point of coordination across engineering to commissioning.

04 — Manufacturing Focus

Aimed at commercially viable production, not just processing.

05 — Lifecycle Support

Ongoing technical, service, optimisation and expansion capability.

06 — International + Local

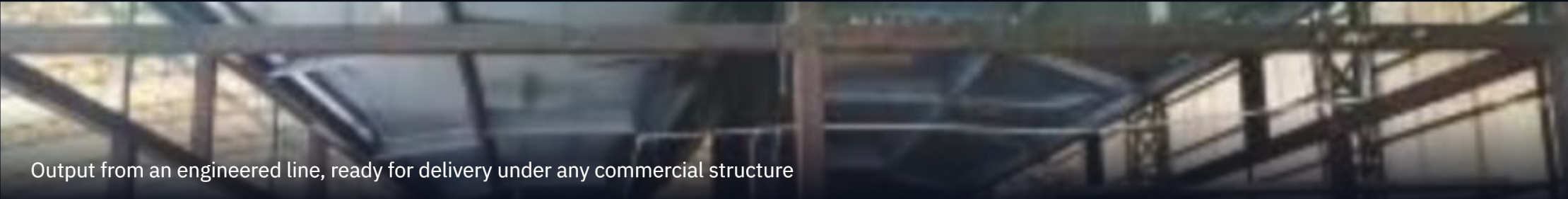
Global technology sourcing with implementation in local markets.

— **Downstream Value Creation** — where viable, Mica can extend a recycling system beyond material processing into finished-product manufacturing.

Mica's value is not a catalogue of machines. It is our ability to identify, integrate, deliver and support the right industrial solution.

Flexible commercial structures around the project

Structure	Scope
Engineering & Advisory	Material assessment, technology studies and factory design.
Equipment & Technology Supply	Selected machinery, tooling and supporting systems.
Turnkey Project Delivery	Complete integrated processing or manufacturing solution.
Technical Service Agreement	Ongoing engineering, maintenance and operating support.
Expansion & Optimisation	Additional products, new tooling, automation and capacity growth.
Strategic Project Structures	Larger projects developed through dedicated SPVs, JVs or agreed structures.



Commercial structure follows the technical and economic opportunity, not the other way around.

Injection & blow moulding for municipal and logistics applications

Turning recycled polymer into durable, repeat-use products for cities, infrastructure and supply chains.

Mica Environmental can integrate downstream moulding capability into plastics-recycling projects, allowing recovered HDPE and PP to move beyond pellet production into finished industrial products.

INJECTION MOULDING APPLICATIONS

Municipal — Waste & recycling bins, bin lids & components, street & public-realm components, utility boxes & enclosures, traffic & infrastructure components, drainage & civil products.

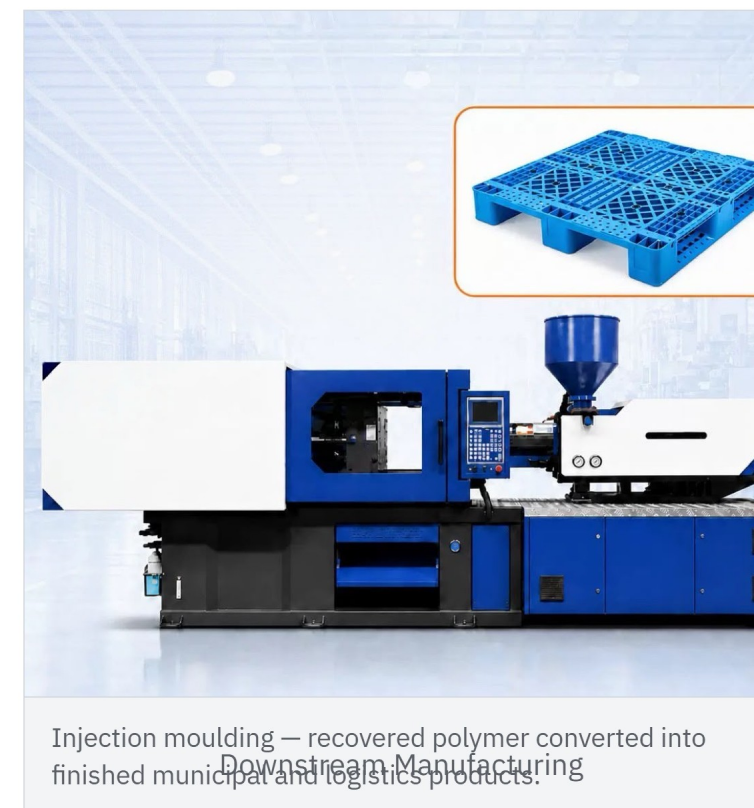
Logistics — Heavy-duty pallets, stackable transport crates, distribution totes, storage bins, material-handling containers, reusable transit packaging, warehouse & fulfilment products.

BLOW MOULDING APPLICATIONS

Municipal & Industrial — Large hollow containers, water & chemical drums, road barriers, bollards, waste containers, industrial tanks & reservoirs, utility & service containers.

Logistics — Intermediate transport containers, large-volume packaging, reusable industrial containers, material-handling vessels.

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Injection moulding — recovered polymer converted into finished municipal and logistics products.

From recovered polymer to finished product

RECOVERED HDPE/PP → SORT & WASH → REGRIND → PELLETISE/COMPOUND → INJECTION OR BLOW MOULD → FINISHED PRODUCT

MICA DELIVERY SCOPE

- | | |
|---|--|
| 01 Product Definition — Identify target application, dimensions, load requirements and required performance. | 05 Factory Integration — Layout, utilities, material handling, controls and production workflow. |
| 02 Material Engineering — Determine appropriate recycled-polymer composition, blending and additives. | 06 Commissioning & Production — Tool trials, machine setup, operator training and production ramp-up. |
| 03 Tooling & Mould Design — Develop moulds around the finished product and selected manufacturing process. | 07 Lifecycle Support — Additional tooling, new SKUs, maintenance, optimisation and capacity expansion. |
| 04 Machine Selection — Specify injection or blow-moulding machinery, auxiliaries and automation. | |



Blow moulding — large-format containers for municipal and logistics use.

The opportunity is not simply to produce recycled pellets. It is to convert recovered polymer into finished products with a defined municipal or logistics application.



— MICA ENVIRONMENTAL

Turn recovered materials into industrial value.

Engineering circular manufacturing from material stream to operating production.

ASSESS → ENGINEER → DELIVER → COMMISSION → SUPPORT

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