

SOLUTIONS SERVICE

INNOVATION

GLOBAL SOURCING TURNKEY OPERATIONS

LARGE TONNAGE

MANUFACTURING OPTIMIZATION

PROGRAM MANAG

LARGE

TECHNOLOGY

CUSTOM MOLDING

SOLUTIONS INTERNATIONAL

INNOVATION

ENGINEERING



Our Mission

Our goal is to be your partner in the design and manufacture of sustainable multi-use packaging and high-quality plastic products for use in material handling, automotive, and specialty markets. Our progressive and innovative team of engineers provide added value that inspires, educates, and problem-solves for our customers. We define success as the expert engineering of our products, devoted customer service, and unrivaled production capabilities.

Specializing In Large Tonnage Presses Ranging In Size From 125-6600 Tons

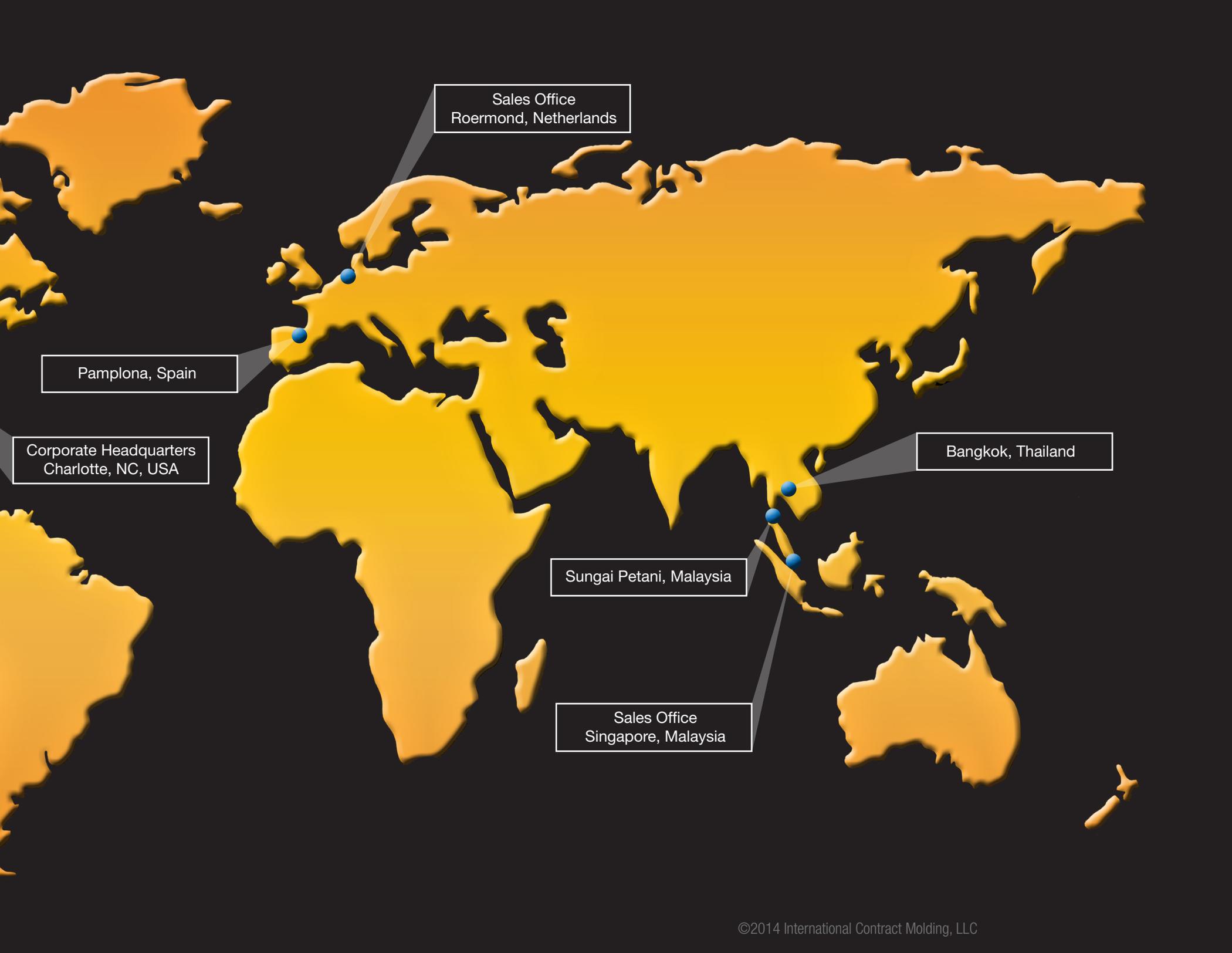
- Turnkey Services
- One-Way To Reusable Packaging Conversion Services
- Reusable And Sustainable Packaging Solutions
- Packaging Optimization
- Product Design And Development Solutions
- Prototyping
- Repair, Wash, And Recycle Capabilities
- Full Assembly Operations
- Long-Term Strategic Supply Agreements
- New Tool Construction And Consigned Tool Management
- Production Partner Network For Outsourced Manufacturing Needs
- Global Sourcing



Phoenix, AZ, USA



An Otto Environmental Systems North America, Inc. Company



Sales Office
Roermond, Netherlands

Pamplona, Spain

Corporate Headquarters
Charlotte, NC, USA

Bangkok, Thailand

Sungai Petani, Malaysia

Sales Office
Singapore, Malaysia

Who We Are

International Contract Molding (ICM), a wholly owned subsidiary of Otto Environmental Systems North America, Inc., is a global manufacturing company specializing in the development of reusable packaging and the creation of efficient, cost-effective molding solutions. ICM molds custom plastic parts in a wide range of sizes and configurations for a variety of markets.

ICM partners with customers to identify sustainable packaging opportunities, replacing one-way packaging with multi-use supply chain solutions. ICM's progressive and innovative team of supply chain experts and plastic packaging engineers provide real life experience and added value that inspires, educates, and problem-solves for its customers. The result is a sustainable solution that creates supply chain efficiencies while reducing overall cost.

ICM offers its customers stability. Tracing its roots back to 1934, ICM's original company was founded in Kreuztal, Germany. The Otto Group entered the waste management industry in 1950 and in 1965 pioneered the injection-molded 2-wheel trash cart that is now in use across the world today. Otto is the largest brand of plastic waste containers in the world, with over 90 million carts in use around the globe. It's North American operations formed more than 25 years ago and competes as one of the largest waste container suppliers in its market. The company is 100 percent family owned with high-quality product offerings available in over 26 countries.





What We Do

ICM has two distinct development teams. The reusable development team, constructed of supply chain, manufacturing, and packaging engineering experts, partners with you to first identify reusable cost saving opportunities and then design, develop, and manufacture solutions that assist in reaching your organizational goals. ICM offers a full range of services, both before and after development and implementation to include product development, manufacturing, supply chain efficiency auditing, plastic repair, regrind and replacement services as well as logistics and wash support.

The contract molding division forms ICM's second development team, which works with a large variety of customers and markets. ICM's experience in contract manufacturing provides viable results tailored to your unique specifications. With machine ranging from 125 to 6600 tons, ICM has a machine for almost every need. In addition to its in-house assets, ICM has contract molding partners that assist when and where needed. Both ICM and its parent company, Otto Environmental Systems North America, Inc., are ISO 9001:2008, ISO 14001:2004, and ISO/TS 16949:2009 certified as well as Tier 1 and 2 automotive suppliers.

What We Believe

International Contract Molding strives to be a leader of sustainable business practices. We find strength in responsibly manufacturing plastic products and sustainable, multi-use packaging solutions for our customers. Through innovation, quality manufacturing and services, and acting as a good corporate citizen, we are committed to creating, maintaining and enhancing a sustainable future. We will do this through environmental stewardship, economic progress, and social development.



**Innovative
Reusable
Packaging**



**Carbon
Footprint
Reduction**

A Socially Responsible 360°



Full Service Organization



**Supply Chain
Efficiency**



**Logistics, Repair
And Wash**



You Have A Need.

Together we can find a solution. ICM partners with your company to identify cost saving solutions through the reduction of one-way packaging. ICM provides innovative ideas to reduce waste and improve your supply chain's efficiency while lowering the overall cost to serve.



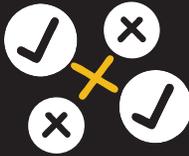
Engineering Solutions.

Our plastic packaging engineers have years of experience in converting one-way packaging systems into sustainable, multi-use solutions. They apply innovative and advanced technologies that optimize capacity, reduce weight, and improve overall performance.

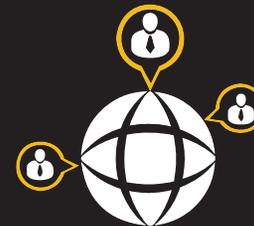


Project Management.

A dedicated resource and liaison, your program manager orchestrates each multi-faceted project to meet your goals.



The Advantage



International Sourcing.

We obtain maximum efficiency by sourcing from a network of global markets, the benefits of which are extended to your operation.



Cost Analysis.

ICM's seasoned supply chain, manufacturing, and plastic engineering experts determine cost saving opportunities, analyzing together with the customer each step of the supply chain.



Global Operations.

ICM is a global entity capable of developing packaging solutions for international companies who want to share products globally and further drive efficiencies within their supply chain.



Quality Inspection.

Rigorous testing ensures your product meets specified requirements as well as internationally recognized quality standards.



Production Capabilities.

Top of the line molding machines manufacture your designs at any one of our global locations.

Winning Results.

Executed to perfection, our customers are now armed with a reusable packaging solution that reduces cost and improves supply chain effectiveness. Such positive results often lead to continued analytics involving the conversion of additional one-way packaging systems into multi-use packaging solutions.



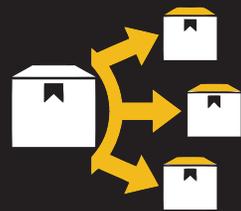
Communication.

Our team is here to support you every step of the way. We communicate before, during, and after each step of your project's development.



Logistics Support.

ICM will work with your existing logistics provider to improve supply chain efficiency. ICM also has the ability to provide logistical solutions that include plastic container repair, wash, recycling as well as inventory control and replenishment.



Status Reporting.

We manage project scope, budgets, and timing to ensure your success.



ICM Advantage

Let Us Show You

Project Evaluation

ICM specializes in designing solutions that replace one-way packaging systems into sustainable, multi-use packaging solutions that optimize the supply chain. Our knowledge of supply chain management and complex manufacturing practices can help your team identify opportunities for packaging improvements.

Whether your goal is to reduce manufacturing costs, reduce waste in your supply chain or improve design through innovative engineering, ICM partners with you to successfully execute your objectives.



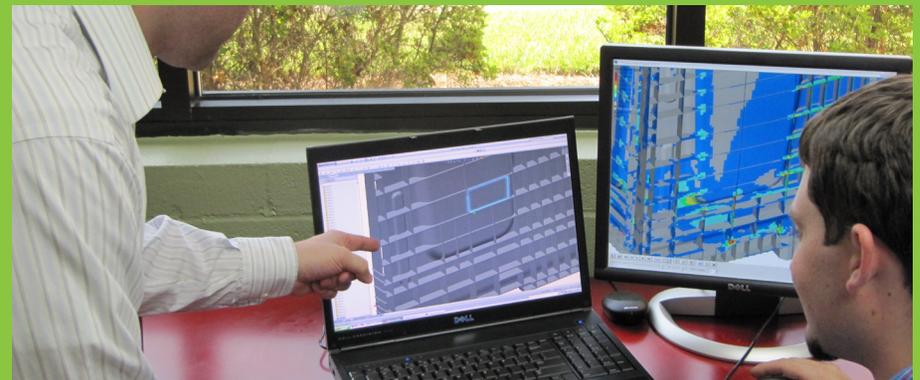
Tooling Solutions

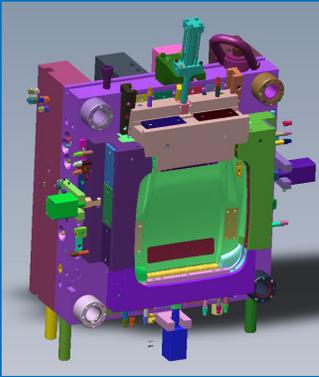
ICM's global network of tooling engineers can manage the design and build of your tooling, or your consigned tool can be evaluated and modified to optimize tool effectiveness. Our product design and tooling engineers collaborate to develop molds that optimize and fuel your product's effectiveness. Designs can be sourced domestically or internationally and utilized at any ICM location across the globe.

Design & Development Solutions

After opportunities are identified, ICM's dedicated team will take your product from concept to completion. Our design and tooling engineers work in tandem to thoroughly analyze your specific application requirements and create product molds that balance design integrity with manufacturing optimization.

- Customer Data Management
- 3D Software
- Mold Flow Capabilities
- FEA Capabilities
- Material Selection
- Prototyping
- Process Development
- Process Qualification



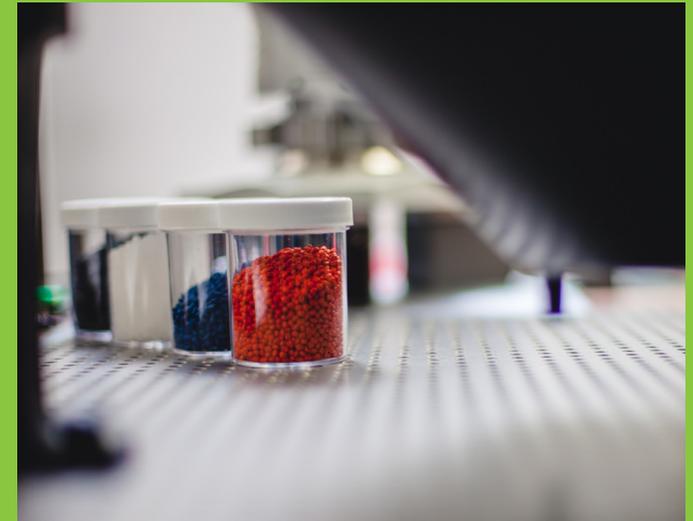


- New Tooling
- Global Sourcing Options
- Transfer Tooling
- Tool Validation/Improvement
- Engineering Changes

Plastics Processing

As your supplier, ICM provides molding options that work best with your unique molding needs. In addition to ICM's array of injection molding equipment and services, available to you is ICM's manufacturing partner network for rotational and thermoforming molding needs.

- Injection Molding
 - Insert
 - 2-Shot
- Rotational Molding
 - 3-Axis
- Thermoform Molding
 - Sheet
 - Sheetless
- Extrusion
 - Pelletizing
 - Custom Compounding



Product Customization

ICM has many secondary operations that can assist in achieving your objectives.

Decoration

- Hot Stamping
- Pad Printing
- Silk Screening
- Full Color Decoration
- Vacuum Metalization
- Painting

Product Identification

- Permanent Bar Coding
- RFID

Returnable Packaging

- Design/Optimization
- Cleaning/Pooling

Value-Added Assembly

- Heat Staking
- Sonic Welding
- Infrared Welding
- Vibration Welding
- Automated Fastening

Trust Your Brand With Us

Project Management

Through product design, tooling, and manufacturing processes, ICM's team of professionals coordinate and supervise your packaging or molding project. Our program management team handles your project from the onset, overseeing every detail with a comprehensive, structured, and methodical approach. Additionally, ICM follows the APQP (Advanced Product Quality Planning) process to ensure that all aspects of your product launch are streamlined for success.



Quality Management Systems

ICM's Quality Management System (QMS) is designed to ensure that customer, industry, and international regulatory standards are adhered to. Depending on product and process requirements, each project is directed through a comprehensive plan of checks and balances. From the onset of your relationship with ICM, activities are controlled in accordance to the QMS.

Our technical expertise keeps you assured that ICM is the right manufacturer for your project. An important aspect of administering quality systems is globally recognized certifications that represent control in manufacturing practices. ICM is regularly audited to maintain its ISO 9001:2008, ISO 14001:2004, and ISO/TS 16949:2009 certifications and stay consistent as a Tier 1 and Tier 2 automotive supplier.

Process Validation

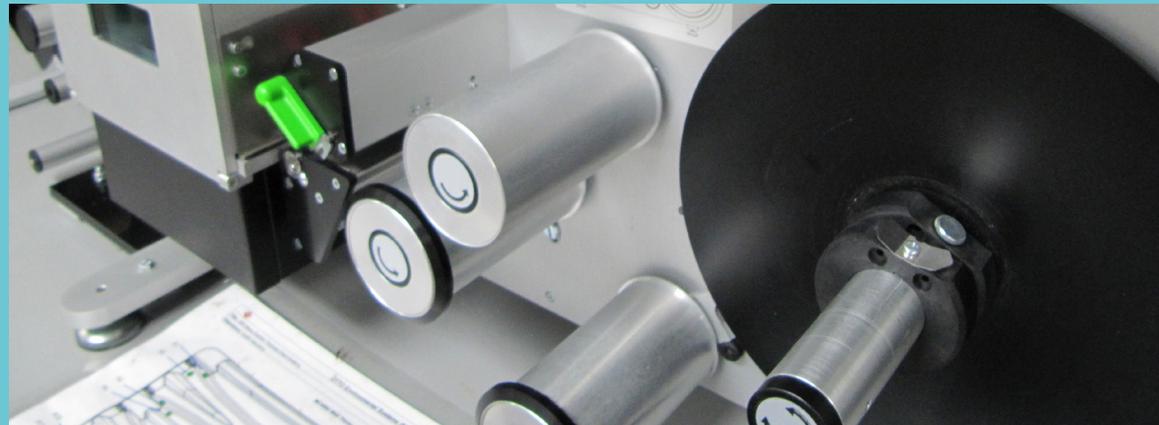
- RJG eDART
- Cavity Pressure Technology
- DOE
- Mold Flow Analysis
- Internal/Layered Audits

Material Validation

- Ash Test
- Melt Flow Test
- Falling Dart Impact Test
- ESCR Test
- Igepal Bath
- Izod Impact Test

Product Validation

- Metrology
 - CMM
- Drop Test
- Spectrophotometer
- Shipping Temperature Validation
- Specialty Testing/ Equipment Development



Who We Serve

ICM serves an array of industries with products ranging from small to large in size:

Automotive
Consumer Products
Waste Container Products
Material Handling
Lawn & Garden
Industrial Products

Civil Engineering & Construction
Pet Products
Reusable Packaging
Irrigation & Water Retention
Dairy



SIEMENS



MAGNA

faurecia



EZGO

Rubbermaid

Truck-Lite

FASTENAL

US Leisure



AUTOMOTIVE

As a Tier 1 and Tier 2 supplier, we provide quality components to the automotive supply chain.



WASTE PRODUCTS

ICM shares resources with its parent company, Otto Environmental Systems North America, Inc., engineering cutting-edge residential and commercial waste containers.



CONTRACT MANUFACTURING

ICM's contract molding projects accommodate short term manufacturing solutions.



REUSABLE PACKAGING & MATERIAL HANDLING

ICM's reusable packaging and material handling systems streamline the supply chain and reduce materials used as a bi-product of your manufacturing process. Collapsible containers suit a variety of food and industrial needs and reduce handling and transportation costs.



Means Of Production

ICM has manufacturing locations across the globe, including the United States, Europe, and Asia. With over 70 years of experience worldwide and a history of operations in over 26 countries, ICM has the ability to service your needs.

CHARLOTTE, NC, USA

Machine Quantity	Manufacturer	Tons (US)	Shot Size (oz)	Robot Axis Quantity
1	Battenfeld	6600	2289	7
1	UBE	3500	1184	6
1	Haitian	3300	905	6
2	Krauss Maffei	3200	1100	6
1	Battenfeld	3000	629	6
1	Haitian	1850	341	6
1	Battenfeld	1650	322	6
1	Haitian	1300	200	6
1	Battenfeld	1250	186	6
1	Haitian	1200	268	6
1	Krauss Maffei	1000	218	6
1	Krauss Maffei	1000	146	6
2	UBE	1000	185	5
1	Battenfeld	935	215	6
1	Battenfeld	880	180	3
1	Haitian	600	111	6
2	Milicron	550	54	3
1	Milicron	400	54	3
1	Cincinatti	310	22	3
1	Milicron	170	13.1	3
1	Milicron	125	9.6	3
Max Crane Capacity	85 Tons			
Material Storage	(8) Silos	1,000,000 lbs.		
Rail Siding	8 Cars			
Certifications	ISO 9001:2008, ISO 14001:2004, ISO/TS 16949:2009			

PHOENIX, AZ, USA

Machine Quantity	Manufacturer	Tons (US)	Shot Size (oz)	Robot Axis Quantity
1	Husky	1650	478	4
1	Engel	1250	164	6
1	Engel	1800	323	6
2	Engel	3500	968	6
Max Crane Capacity	55 Tons			
Material Storage	(5) Silos	1,000,000 lbs.		
Rail Siding	20 Cars			
Certifications	ISO 9001:2008, ISO 14001:2004, NSF 002 & 021			

SUNGAI PETANI, MALAYSIA

Machine Quantity	Manufacturer	Tons (US)	Shot Size (oz)	Robot Axis Quantity
1	Haitian	3300	1387	3
1	Haitian	2800	1128	3
1	Haitian	2000	357	3
1	Haitian	1000	146	3
3	Haitian	900	111	3
1	Haitian	650	83	3
Max Crane Capacity	32 Tons			
Material Storage	N/A			
Rail Siding	N/A			
Certifications	ISO 9001:2008, ISO 14001:2004			

PAMPLONA, SPAIN

Machine Quantity	Manufacturer	Tons (US)	Shot Size (oz)	Robot Axis Quantity
1	Haitian	2800	1210	3
1	Windsor	2300	802	6
1	Krauss Maffei	2000	353	3
1	Italtec	1800	396	3
1	Battenfeld	1300	217	3 & 6
1	Battenfeld	1050	174	3
1	Battenfeld	850	128	3
2	Battenfeld	650	126	3
1	DeMag	650	64	3
1	Battenfeld	500	84	3
1	Battenfeld	320	28	3

Max Crane Capacity	32 Tons	
Material Storage	(4) Silos	265,000 lbs.
Rail Siding	N/A	
Certifications	BSH-Cert, ISO/TS 16949:2009, Opel QSB	

BANGKOK, THAILAND

Machine Quantity	Manufacturer	Tons (US)	Shot Size (oz)	Robot Axis Quantity
2	Remu	3500	1688	6
1	Battenfeld	3500	600	3
2	Haitian	2800	1397	6
1	Husky	2700	247	6
1	Mitsubishi	2500	808	6
1	Haitian	2400	835	3
1	Mitsubishi	2200	682	3
1	Remu	2200	443	3
1	CLF	2000	712	3
1	Remu	1800	370	3
1	LG	1800	217	3
2	Mitsubishi	1600	430	3
1	Remu	1500	420	3
2	Husky	1350	300	3
1	Remu	1150	264	3
2	CLF	1000	116	3
1	Multiplast	850	90	3
3	LG	850	162	3
2	Mitsubishi	850	220	3
2	CLF	800	116	3
1	LG	800	162	3
1	JSW	650	152	3
2	Mitsubishi	650	102	3

Max Crane Capacity	32 tons	
Material Storage	(3) Silos	300,000 lbs.
Rail Siding	N/A	
Certifications	ISO 9001:2008, ISO 14001:2004, ISO 22000:2005, ISO/TS 16949:2009	

CONTRACT MOLDING

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GLOBAL SOURCING

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OVATION



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