

Rotary Drying & Conditioning Equipment

Smart solutions for custom industrial applications

ICM offers practical solutions for drying, cooling, and conditioning needs. We have leveraged our extensive background in grain, fiber, and particulate processing to develop a product line that is custom-designed and manufactured to meet your specific conditioning needs. We are confident our precision engineering and durable construction will produce a system that will exceed your expectations. From needs analysis to installation to on-site technical support and parts replacement, ICM stands ready to assist you throughout the life of your dryer or cooler. **We look forward to serving you.**



Optional control integration is designed for ease of use.



the energy of innovation™



Full-service solutions with a proven history of results

ICM is a full-service provider with the capability to design, build, install, and maintain your entire system, including conveyors, drags, storage, and loadout. With almost 300 rotary conditioners built since 1995, ICM couples superior drying technology with an unmatched experience base to design complete state-of-the-art turnkey systems.

We don't simply take orders – we work closely with every client to make sure the solutions we propose are smart investments, both for now and for the future. Our blend of knowledgeable employees and comprehensive services makes management of your ongoing conditioning needs as simple as picking up the phone. And we've leveraged our size and position in the industry to aggressively negotiate supplier agreements to offer competitive pricing.

To further enhance our capabilities, ICM has developed relationships with respected service providers across a wide spectrum of industries to provide comprehensive field support services.

We support all models of conditioning equipment from all manufacturers:

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| <ul style="list-style-type: none">• Reconditioning & technology update services• Maintenance solutions | <ul style="list-style-type: none">• OEM spare and replacement parts• Factory integration solutions |
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Dryers, kilns, and cookers

Steam tube dryers feature controllable dehydration, low sweep gas volume, purged seals, low-temp capabilities, and high efficiency. Hot gas recovery system with automated dampers control throughput.

Indirect- and direct-fired dryers are designed to eliminate the need for separate steam generators. Engineered to use flexible fuel sources, they are ideal for dehydrating fine particles and those sensitive to combustion.



Uniform internal tube placement provides a gentle conditioning environment – your product never touches direct heat source.

Coolers and conditioners

Water tube coolers combine cold water and air in a rotating shell to transfer heat away from the product as it tumbles over internal tubes. Designed for high-temperature applications, features include: regulated water flow, reduced plugging, enhanced material movement, and counter-flow air supply for product suspension and constant temperature.

Air coolers are an excellent option when airflow alone is sufficient to reduce product temperature. Our design provides maximum efficiency through the use of ambient air and/or air chillers



Applications

Our equipment is a valuable asset in conditioning applications across a broad base of industries, including:

- Agriculture
- Beverage
- Chemical
- Coal
- Construction materials
- Food
- Grain
- Plastic
- Rubber
- Rendering plants
- Sewer sludge
- Woody biomass

Additional Services:

- Heat recovery steam generators
- Emission control
- Computerized maintenance management systems
- Grain
- Plastic
- Rubber
- Rendering plants
- Sewer sludge

On the phone or in your plant, ICM will be there for you

For a comprehensive list of industries served and additional product applications, visit us online at www.icminc.com/rotary.

Or call our Customer Service department at

877.456.8588



Custom equipment

ICM's employees pride themselves on their hard-won reputation for developing creative and efficient solutions for challenging objectives. We will work hand-in-hand with you to develop a customized system to meet your equipment conditioning needs. Our systems provide:

- Resolution of complex material conditioning needs
- Flexibility of materials: Carbon or stainless steel, or corrosion-resistant alloy metal
- Sized for optimum performance

Superior design coupled with quality workmanship

PRECISION ENGINEERING

- Detailed sizing calculations ensure proper sizing for specified load levels and retention
- Available progressive finite element analysis provides assurance to design reliability
- Innovative equipment configuration is designed for ease of use, making quick work of maintenance and parts replacement
- Proprietary internal flighting optimizes material flow to reduce fouling while providing maximum heat transfer. This makes our dryers an excellent option for hard-to-dry materials

QUALITY MANUFACTURING

- Heavy-duty construction with quality materials ensures long equipment life and low-maintenance, trouble-free operation, along with lower long-term capital costs
 - » Exacting standards for manufacturing ensure precision movement, extending conditioner life
 - » Proprietary purge seal provides for efficiency in high-pressure applications
 - » Specialized tire and gear mounting allows differential at expansion between shell and tire/gear
 - » Optional fully machined heavy shim bands provide precise and minimal axial run outs
 - » High-grade forged steel tires, trunnions, thrust roll components
- Designed to satisfy YOUR customers
 - » Proven final product consistency and quality
- Designed to satisfy YOUR employees
 - » ICM equipment is safe equipment. Manufactured with an array of built-in safety features, our systems incorporate easy-to-use control interfaces to reduce the chance of operator errors



Proprietary flighting design in our indirect- and direct-fired dryers offers even heat distribution for uniform processing of hard-to-dry materials.

UNPARALLELED SUPPORT

- Dedicated customer support department offers 24/7 emergency support. We're ready to serve you with immediate technical advice
- Responsive field service staff is supported by an extensive spare parts inventory and a fleet of trucks and company aircraft for rapid mobilization capabilities
- Equipment is backed by solid warranty with extended warranty option available

ICM solutions please your accountant & Mother Nature

As we develop a scope of work for our clients, we often uncover unique opportunities to further reduce energy consumption by taking advantage of existing in-house or nearby over-the-fence energy resources to help power your system. We have extensive experience in energy balance and steam loads, and we look forward to working with you to discover opportunities to recycle energy within your facility.

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