

The Art Of Engineering



CUSTOM POWDER SYSTEMS®
THE CONTAINMENT COMPANY



**INTEGRATED
CONTAINMENT
SYSTEMS®**



Containment Isolator for Quality Assurance Testing

“WE’RE THE BEST, BECAUSE WE HAVE THE FINEST ENGINEERS AND DESIGNERS AND BLAH, BLAH, BLAH...”

Everybody says that.

We don’t say it.

We prove it.

When Pfizer, Merck, Con Agra, Nestle, KBR and other giants get ready to set up a new production line, they come back to us.

Why? Because we say “Yes” when everybody says “No.”

When others say, “It’s impossible,” we say, “It’s possible.”

We’re Custom Powder Systems & Integrated Containment Systems.

“He had a big problem. He needed a very customized isolator built in six weeks. Nobody else in the world would even entertain that thought. We took it on ... and we actually built it in five weeks.”

- Scott Heffern, Senior VP of Technology

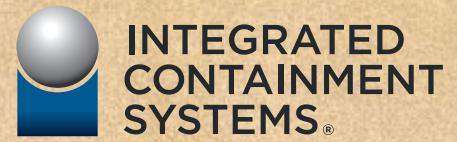
Like the true artists we are, our designers and engineers put drafting pen to paper and magically make the implausible, impractical, and downright unimaginable spring to life.

**If it’s never been done before,
we haven’t tried it yet.**



Column Blender with Lift, Blend, Slew & Invert Capability

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Scalable Bin for Pharma Application

“They got each of the orders because of their willingness & ability to build exactly what we needed.”



High Containment Process Isolator

WE DON'T JUST THINK OUTSIDE THE BOX. WE **BUILD** THE BOX.

We spend every day talking to brilliant planners and engineers; people like you. This exposes us to cutting-edge, creative thinking from dozens of different angles.

We listen to what you really need. Not what you think you want.

Then, we find a way to make it happen.

If you work in the following industries:

- » Pharma
- » Food
- » Biotech
- » Nutraceutical
- » Chemical
- » Nuclear

If you're faced with problems like:

- » Containment
- » Contamination
- » Discharge spillage
- » Extracting hardened material from drums
- » Segregation of blended materials
- » Lifting issues
- » Low yields
- » Powder handling

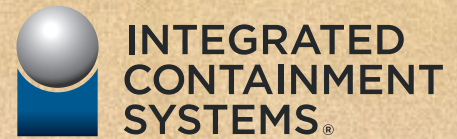
If you need:

- » Blending
- » IBC and IBC Systems
- » Blend uniformity
- » Lift systems
- » Transfer systems
- » Cleaning systems
- » Anti-Segregation device
- » Replacement parts
- » Isolators
- » Gloveboxes
- » Lyo Transfer Carts
- » Downflow booths
- » Process enclosures
- » Flexible containment
- » Specialty equipment
- » RABs

We have the solution.

State-of-the-art starts with a dream.
State-of-the-art starts right here.

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**Integrated Station for Drum Discharge,
Product Milling & IBC Loading**

TECHNICAL SERVICES

Protocol Writing and Execution

- » Sequence of Operations
- » Factory Acceptance Test Protocols (FAT)
- » Site Acceptance Test Protocols (SAT)
- » Installation Qualification Protocols (IQ)
- » Operational Qualification Protocols (OQ)
- » Factory Acceptance Testing (FAT)
- » Site Acceptance Testing (SAT)
- » Installation Qualification (IQ)
- » Operational Qualification Assistance (OQ)
- » Production Qualification Assistance (PQ)

Product Support

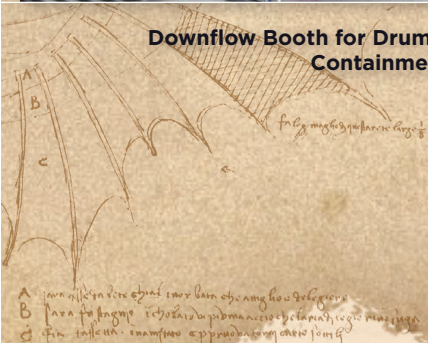
- » Installation and Commissioning Services
- » Start-up Assistance
- » Technical Training
- » Turn-key Installation
- » Preventative Maintenance
- » Troubleshooting and Repair
- » Upgrades and Retrofits
- » Maintenance Contracts

Engineering and Design Capabilities

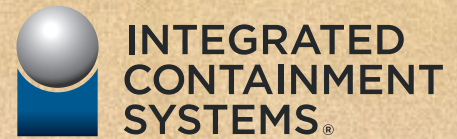
- » CAD
 - » Inventor 2013
 - » AutoCAD Mechanical and Electrical 2013
- » Finite Element Analysis
 - » Inventor 2013



**Downflow Booth for Drum Delidding &
Containment Discharge**



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**IBC Transfer Bin with Casters
& Forklift Channels**



Mobile Lift for Tablet Operation

TECHNICAL SERVICES

Project Management

PLC Programming

- » RSLogix 500
- » RSLogix 5000
- » Siemens

HMI Programming

- » Panel Builder32
- » FACTORYTALK/VIEWSTUDIO

VFD Programming

- » Drive Executive

Rockwell Automation Machine Builder Partner

Standards and Quality Systems

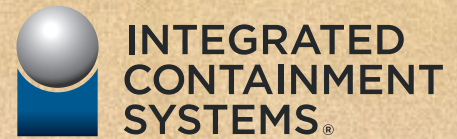
- » NQA-1
- » AWS D1.6
- » UL508A
- » UN/DOT
- » CE
- » ASME

MANUFACTURING FACILITY & EQUIPMENT

Located in Springfield, MO, Custom Powder Systems has a bright metals facility with 85,000 square feet of climate controlled manufacturing space with access to an additional 60,000 square feet.

- » Ermak ironworker #EMK-60 (60 ton)
- » Rousselle 6E-60T OBI Punch Press
- » Eagle Plate Roll #Q413-15/5

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MANUFACTURING FACILITY & EQUIPMENT

- » **Accurpress Hydraulic Press Brake #732014**
- » **Accurshear #650012 Hydraulic Shear**
- » **Moggy Welder TIG/Pulse**
- » **Nelson Stud Welder**
- » **W.F. Wells Band Saw**
- » **GF-4-Saw (Tube/Pipe Cutter)**
- » **Orbital Welder**
- » **ESAB PLM 875 Plasma Torch**
- » **535 Rigid Pipe Threader**
- » **PV55-9400 Drill Press, Tapping Machine**
- » **Jet Line 14' Seam Welder**
- » **Jet Lathe**
- » **Jet Mill**
- » **Miller CP300 Welders**
- » **Miller Dialarc 250 Welders**
- » **L-Tec Heliarc Welders**
- » **Lincoln Precision Tig 275**
- » **27" Time Saver Belt Grinder**
- » **Polishing Equipment - Angle Grinders, Sanders, Etc.**
- » **Water Jet**



**Drum Massager for
Difficult to Discharge Products**



EZ-Down Anti-Segregation Device

"It really isn't a cliché for us to say we partner up with our customers because, shoot, we really do. It becomes a concerted effort with them to drill down to what they really want and still try to stay within the dollar range that they have to spend."

- Bob Luebbe, Senior VP of Sales

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**INTEGRATED
CONTAINMENT
SYSTEMS®**

SATISFIED CLIENTS



**Lyo (HEPA) Transfer Cart -
Self Contained Design**

Firmenich

Princeton, NJ
Food Processing Equipment - \$3,500,000
Chris Dillon, Technical Purchasing Manager
609-580-4450

Fortune 500 Beverage Company

Ireland
Cleaning System - \$3,000,000

Cornerstone Research & Development

Ogden, UT
Automated Wash Station & Blending System - \$1,000,000
Garrett Hansen, Engineering Manager
801-337-9400

Filter Technologies

Wichita, KS
Lyo Transfer Carts - \$600,000
Dave Aaronson, Project Manager
913-681-0633

Fortune 500 Pharma Company

Lincoln, NE
Containment Isolators - \$1,000,000

KBR

Houston, TX
Lift and Jolter for Gas to Liquid Project - \$3,000,000
Michael Graham
713-753-7153



**Final Inspection of Isolator for a
Weighing & Milling Application**

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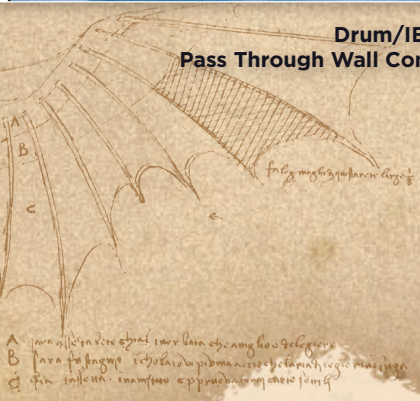
**INTEGRATED
CONTAINMENT
SYSTEMS®**



Bin Blender, Through Wall Design



**Drum/IBC Washer,
Pass Through Wall Configuration**



THE TEAM

Dale (Mac) McIntosh, President and General Manager

B.S. Hastings College, Nebraska

Prior experience:

- » Tote Systems, General Manager
- » Dempster, President
- » Tote Systems, Regional Sales Manager

Denise McIntosh, CEO

MBA, University of Nebraska

BS, Oklahoma State University

Prior experience:

- » Crop 1 Insurance, VP Sales & Marketing
- » Mobil Mining & Minerals, Regional Manager
- » IMC Fertilizer, Regional Sales Manager
- » Olin Corporation, District Sales

Scott Heffern, Senior VP of Technology

BSIT, University of Wisconsin-Stout

Prior experience:

- » Tote Systems, Director of Pharma Systems
- » Custom MetalCraft, Design Engineer
- » FMC Corporation, Design Engineer

Bob Luebbe, Senior VP of Sales

AA Manufacturing Engineering,

Southeast Community College, Nebraska

Prior experience:

- » Tote Systems, General Sales Manager
- » Custom MetalCraft, Regional Sales Manager
- » Hoover Materials, Design Engineer
- » Neapco, Quality Assurance Manager

Grant Brock, Senior VP of Operations

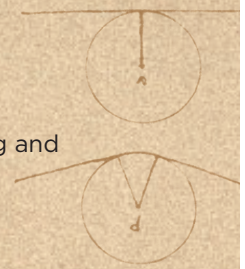
Cincinnati State Community College, Mechanical Engineering and
Process Controls

Certified Project Manager, Xavier University

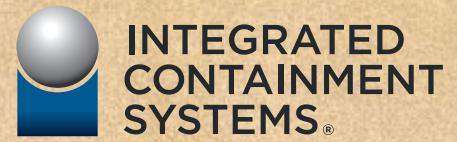
Six Sigma Black Belt, Ohio State University

Prior experience:

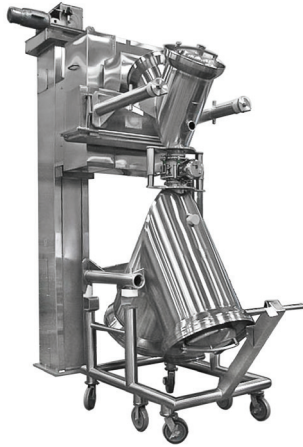
- » Teva Women's Health, Director of Manufacturing and Engineering
- » PMC Specialties Chemical, Instrument Technician/Millwright/
Chemical Operator



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THE TEAM



**High Containment V-Shell Blending
& Transfer System**



Side Door Bin for Food Application

George Pyck, Senior VP of Technical Services

BSME, Ryder Technical Institute, Allentown, PA
Prior experience:

- » MetalFab, Chief Engineer
- » Patterson Kelley, Design Engineer
- » Fuller Company, Design Draftsman

Azhur Qureshi, Director of Engineering

BS Mechanical Engineering, University of Arizona
Prior experience:

- » Precision Manufacturing & Engineering, Senior Project Manager
- » Speedline Technologies, Senior Program Manager, Engineering Manager
- » ABW Systems, Manufacturing and Engineering Manager

Brian Bengtson, Manufacturing Manager

BA Business Administration, Ottawa University
AA Mechanical Engineering Technology, Northwest Iowa
MBA Eastern Illinois University

Prior experience:

- » Hydro-Gear, Manufacturing Engineer
- » Safety Storage, Inc., Manufacturing Engineer
- » Reinhart Fajen, Inc., Facility Engineer/Manager

Russ Krainiak, Director of Technology, Integrated Containment Systems

BS Industrial Engineering, East Carolina University
Prior experience:

- » Flanders Absolute Isolation, Director of Flanders Isolation
- » Charcoal Service Corporation, Research and Development Engineer
- » Pitt Community College, Welding Instructor

Ronnie Harris, Director of Engineering, Integrated Containment Systems

AA, Mechanical Drafting and Design, Beaufort Community College,
Washington, NC

Prior experience:

- » Flanders Absolute Isolation, Sales and Project Engineer
- » Rodman & Waters Land Surveying, Crew Chief