The background of the cover is a collage of industrial machinery. It includes a large blue square in the top left, a white square with vertical lines in the top center, a photograph of a complex piping system in the top right, a white square with horizontal lines in the middle right, a photograph of a machine with a flexible hose in the bottom right, and a photograph of a machine's internal structure in the bottom left. The text is overlaid on these various background elements.

2013 Product Catalog

ODEN *Machinery*

Innovators in Packaging & Processing
Technologies for Liquid Products

- Liquid Filling Machines
- Complete Turnkey Packaging Lines
- Bulk Fillers, Pail & Can Fillers & Closers
- Continuous Stream Blending Systems
- Processing Equipment For Liquid Products
- Custom Engineered Packaging Solutions



PRO/FILL®

Benchtop & Automatic Liquid Filling Machines

Intentionally **Over-Engineered** to Maximize **Performance**



PRO/FILL® liquid filling systems eliminate costly product waste and allow for fast, easy recipe driven set-up and no-tool changeover. These state of the art fillers are designed to the strictest engineering and manufacturing standards and offer the most advanced technology available in today's marketplace.



- PLC controlled, rotary pump, positive displacement operation.
- Precision volumetric filling of free flowing to extremely viscous products from ounces to five gallons on a single machine, without the need for change parts.

SERVO/FILL®

Benchtop, Modular Automatic, & Based Automatic Liquid Filling Machines

The Perfect Mix of **Quality** and **Value**



SERVO/FILL® liquid fillers offer the perfect mix of quality and value. These high quality fillers are equipped with an Oden designed CleanGear® stainless steel gear pump and provide low cost filling for a wide variety of budgets.

- Better by design.
- Built in capability for expansion up to 4 heads on modular automatic and up to 10 heads on based automatic.
- Same machine filling of free flowing to viscous products, volumes from 1/3 ounce to 5 gallons.

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PRO/MATIC®

Liquid Filling Machines

Proven **Technology** at an **Unbelievable Price**

PRO/MATIC® systems are low cost, high quality volumetric systems equipped with everything required to automatically fill a wide range of products and containers.



- Same machine filling of free flowing liquids to viscous and particulated products.
- Utilizes Oden's patented step-fill design: one pump, 6 filling nozzles; each container stops and is partially filled at each nozzle to achieve desired fill volume.

GRAV/TRONIC®

Benchtop & Automatic Volumetric Gravity Liquid Filling Machines

The **Ultimate** in Sanitary High **Precision** Filling

GRAV/TRONIC® fillers use precision electronics to exactly control fill volume based on timed flow. The flow rate can be easily and precisely varied by changing the elevation of the liquid reservoir above the filling nozzles.

- Accurate filling from microliters to liters.
- Clean-in-place or steam-in-place.
- Requires minimal system volume.
- Non-invasive cassette load pinch valves; or optional patented Oden Microdose® filling valves.



MICRO/DOSE®

Adding Crucial Product Brand Value Using Variation at the Filler Provides the Ultimate in Manufacturing Agility

Oden MICRO/DOSE® ultra-fast continuous motion in-line dosers precisely add critical late addition ingredients like minerals, seasonings, flavors, colors, vitamins, nutraceuticals, and other differentiators to liquid products.

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NET/MASS®

Benchtop & Automatic Coriolis Mass Meter Based Net Weight Machines

Maximize Filling **Performance**, Maximize **Proof**

Patented NET/MASS® systems provide net weight filling accuracy without sacrificing flexibility or versatility. They eliminate fill weight problems caused by density variations in product during the filling run, without sacrificing the flexibility of the machine to run virtually any type of liquid, and the versatility of the machine to handle a vast range of containers. Provides the ultimate in statistical process control options.



- Combine the state of the art performance characteristics of the PRO/FILL® series fillers with net weight technology utilizing Coriolis mass flow meters that measure the mass flow, as opposed to the volumetric flow, of virtually any liquid.



TURNKEY PACKAGING LINES

Complete Lines for Liquid Product Packaging

A **Single Source** for Packaging Line **Design**, Integration, Coordination, and **Installation**

Avoid the complications of integration. Let us design a turnkey packaging line for your liquid products that meets your requirements and objectives.

We'll design and integrate the line, and coordinate the installation.

Our turnkey platform can include labeling systems, capping solutions, and induction sealers, in addition to liquid filling machines, liquid product transfer systems, and rotary infeed and accumulation tables.



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CRANDALL INTERNATIONAL BY ODEN

CI BY ODEN® Drum and Tote Bulk Fillers, Filling and Closing Machines for Pails and Cans

Accurate Performance, Rugged Design

Oden's Crandall International line of net weight fillers provide accurate, low maintenance, no-drip filling of liquid to viscous products. Scale or Coriolis mass meter based operation.

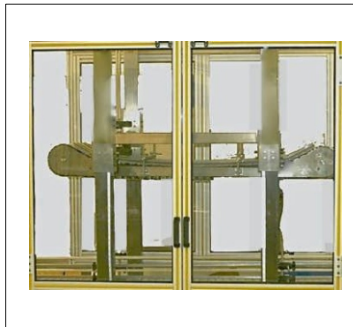
NET/WEIGH™ and MEGA/FILL® Machines for Filling Pails, Cans, Drums, Totes and IBCs

- **NET/WEIGH™** semi-automatic and fully automatic fillers for cans and pails. Net weight filling.

- **MEGA/FILL®** Bulk filler for drums, totes and IBCs.



PRO/CLOSE™
Closing Machines
for Pails and Cans
Pressure and belt closing operation.



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ODENPROCESSEQUIPMENTGROUP

Optimize **Profit**, **Protect** the Environment

OPEG offers liquid products processing machinery specifically designed to optimize ROI and reduce impact on the environment.

- MASS/BLEND® Continuous Stream Digital Blending Systems
- Automated Batch Addition Systems
- Turnkey Liquid Product Transfer Systems
- Sustainability Strategies

OPEGDelivers!

1. Reduced labor costs.
2. Enhanced product quality.
3. Increased production capacity.
4. Decreased generation of waste and scrap.

Improve your profit & protect the environment!

MASS/BLEND®

Continuous Stream Digital Blending Systems

A Quantum Leap **Forward** in Liquid **Blending** System **Design**

MASS/BLEND® systems eliminate large liquid batch preparation and holding tanks, provide real-time formulation of your liquid products, give you more compounding flexibility, faster product turnaround and a superior product . . . every time!



- Pilot plant to production scale blending of low to high viscosity liquids.
- Complete validation and continuous verification.
- Each liquid component flow channel utilizes a NET/MASS® dosing channel (Oden PRO/FILL® dosing unit equipped with Coriolis mass meter).

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Automated Batch Addition Systems

- Reduce batch cycle times, boost accuracy of bulk additions, enhance product repeatability and improve adherence to established specifications.

Turnkey Liquid Product Transfer Systems

- Move product from raw bulk supply to blending equipment and batching vessels and on to packaging lines.

Sustainability Strategies

- Implement sustainability strategies for process optimization and design, life cycle analysis, environmental footprinting, and waste elimination.

CUSTOM BUILDS... Only from Oden

Systems Engineered for Specialized Applications

Oden **Technology** Solutions for **Unique** Requirements



Talk to us about your specialized filling application when an off-the-shelf packaging solution isn't available.

Our design services include custom engineered machinery for atypical liquid packaging applications.

Our custom builds are better by design- because it's Oden!

We also provide ODEN...

• EXPLOSION PROOF CONSTRUCTION

Class 1, Division 1, Group D, Explosion Proof Construction for All Machine Models

• ROTARY INFEED & ACCUMULATION TURNTABLES

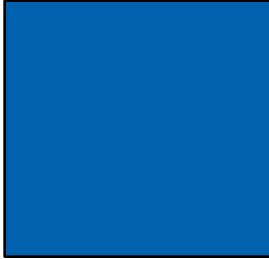
• POSITIVE SHUT-OFF NOZZLES

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Only from Oden . . .

We offer over 3 decades of industry-leading innovation in design and engineering solutions. **Contact us today** to discuss your application. We are eager to demonstrate the advanced technology and commitment to integrity and service you can get, only from Oden.



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Risk Free Purchase and Performance Guarantee

Our Product Testing Service and Performance Guarantee

We take the "risk" out of buying a liquid filler by providing written performance guarantees for each product tested, free of charge, in our product testing laboratory.

Take advantage of our free product testing service. **Call today!**

Better by Design . . . Because It's Oden

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