RFID/IRDA

RFID TRACEABILITY SOLUTIONS

Rice Lake Weighing Systems introduces TRACER™. This traceability system is available exclusively through Rice Lake and delivers real-time, end-to-end monitoring and tracking of standard or hazardous material shipments, including:

- Individual containers (55 gallon drums, 5 gallon pails, or 1 gallon containers)
- Identifiable characteristics, such as:

Carrier	Moisture	Weight
Shipper	Use by	Date
Customer	Packaged by	Temperature

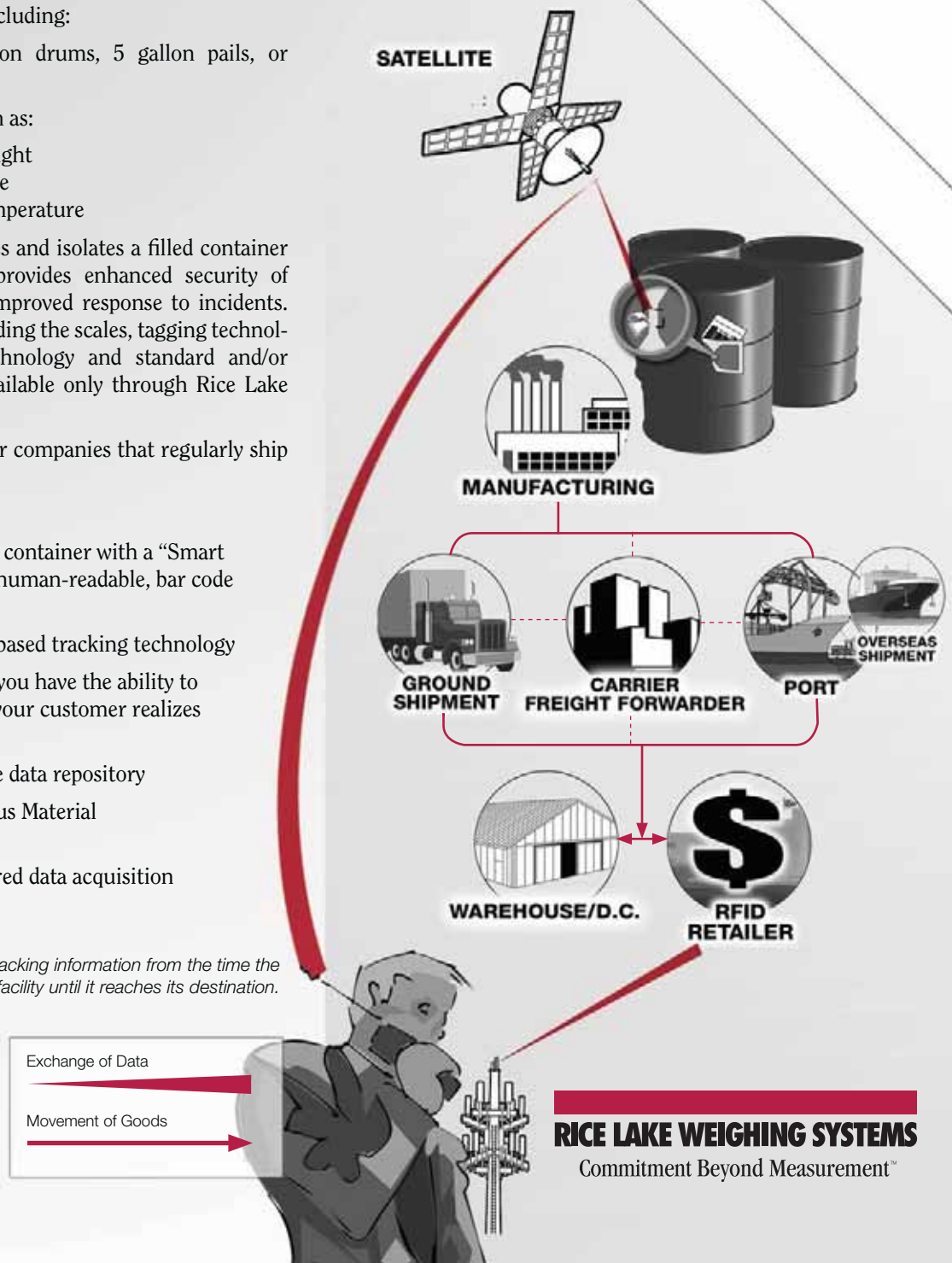
TRACER quickly and easily locates and isolates a filled container anywhere in the country and provides enhanced security of hazardous materials as well as improved response to incidents. This integrated solution set, including the scales, tagging technology, satellite-based tracking technology and standard and/or HAZMAT material database is available only through Rice Lake Weighing Systems.

TRACER is also an ideal option for companies that regularly ship empty containers for refilling.

Rice Lake's traceability solution:

- Uniquely identifies the shipping container with a "Smart Label" that contains embedded human-readable, bar code and/or passive RFID capabilities
- Broadband, multi-cast satellite-based tracking technology
- Proactive event management—you have the ability to respond to any problem before your customer realizes that a problem even exists
- Redundant databases and secure data repository
- Complies with Federal Hazardous Material Requirements 49 CFR
- Wireless communications/infrared data acquisition
- Real-time online access

Instant access to valuable tracking information from the time the barrel leaves your facility until it reaches its destination.



RICE LAKE WEIGHING SYSTEMS
Commitment Beyond Measurement™

SMART SHEETS

FEATURE COMPARISON

Pressure-Balanced Filling Valve

The hydrostatically balanced filling valve, found exclusively on Feige filling stations, is completely leak-proof — even under pressure and virtually maintenance-free.

Pneumatic Linear Drive

All Series 10 filling lances are pneumatically driven, removing the need for lubrication. Other fillers use a jack screw to raise and lower the filling lance. Jack screws sling grease, contaminating the fill area and are driven by air motors that often fail.

Feige's pneumatic linear drive is also intrinsically safe. The passive brake assembly ensures the lance will automatically stop if power or air pressure is lost.

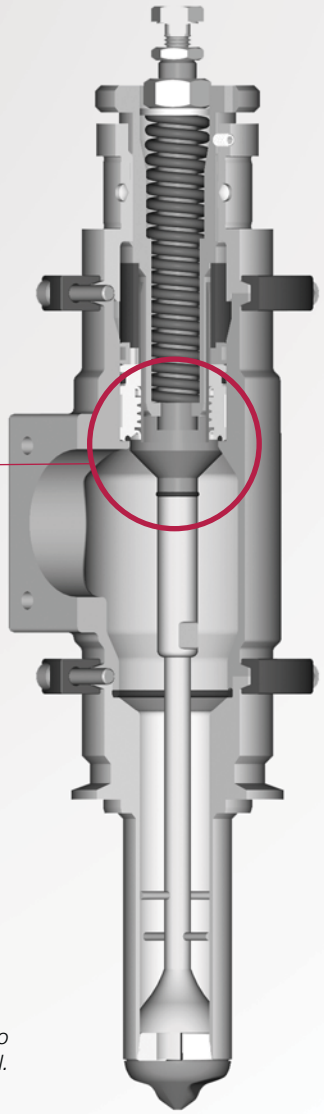
Construction

Series 10 fillers are constructed with half the moving parts of other filling systems. Because there are fewer parts to service, Series 10 fillers experience less service downtime than competitive filling systems.

Production Capacity

With Feige's exclusive quick disconnect lance assembly, removing and exchanging the lance is accomplished in a matter of minutes, not hours. Additionally, all Series 10 fillers can be cleaned remotely while a secondary lance continues filling.

The cleaning process on competitive filling systems require the valve assembly to be flushed. In order to do this, the lance must be disassembled. During this labor-intensive, time-consuming task, filling is impossible until the lance has been completely flushed and reassembled. Because of Feige's quick disconnect assembly and remote cleaning ability, Series 10 owners experience a 15% increase in overall production capacity.



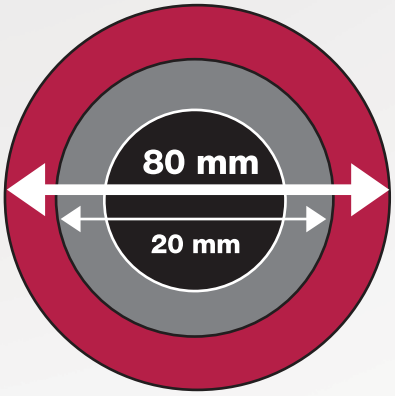
To support specific filling applications, valve assemblies are also available in Teflon®, Hastelloy®, titanium or nickel.

FILLING TECHNOLOGY

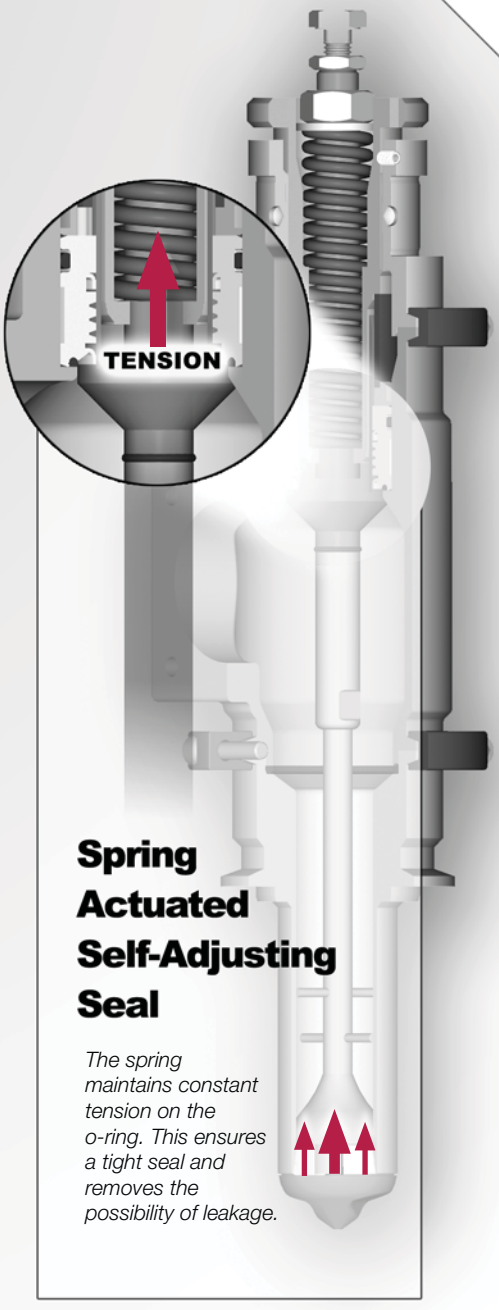
The exchangeable valve assembly is the hallmark of each Feige filling station. This assembly facilitates rapid product change-overs and dramatically reduces downtime. At under 25 pounds, the valve assembly is easy to operate and install yet robust enough to prevent leaks while filling virtually any liquid.

Filling Lance in Detail

- Filling lances are comprised of 316 stainless steel. For specific applications, valves are also available in Teflon®, Hastelloy®, titanium or nickel
- In the event of power failure, a fail-safe spring return prevents overflow as well as product leakage
- Two-speed, linear actuated valve allows both bulk and dribble flow
- Diameters range from 20 to 80 mm to accommodate fill opening, product viscosity, and volume flow
- Aseptic, drip-proof design with self-adjusting seal prevents contaminates from being pumped back into the valve body
- Intrinsically safe to enable filling of hazardous products
- Internally lubricated — lance is lubricated for its lifetime
- Hydrostatically balanced so the closing function is independent of pressure, preventing spills



The filling lance ranges in diameter to accommodate opening, volume flow, and product viscosity.



Spring Actuated Self-Adjusting Seal

The spring maintains constant tension on the o-ring. This ensures a tight seal and removes the possibility of leakage.

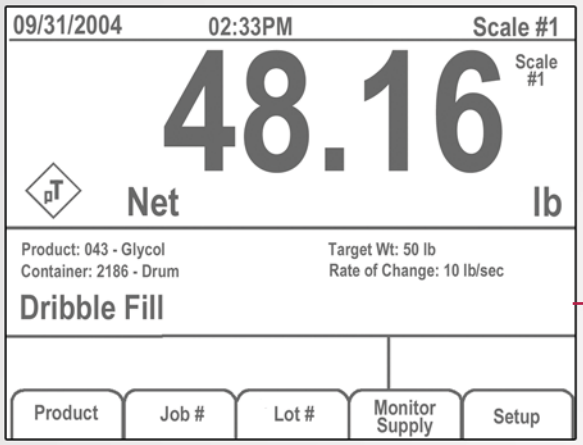
PROCESS AUTOMATION

The 920i programmable indicator/controller provides ultimate control over the filling processes while providing legal-for-trade weighing. The robust processing power allows a single filling station to fill up to 1,440* drums each day efficiently and accurately. With expanded networking capabilities, the 920i communicates easily with printers, PCs, scanners, and other peripheral equipment.

Features

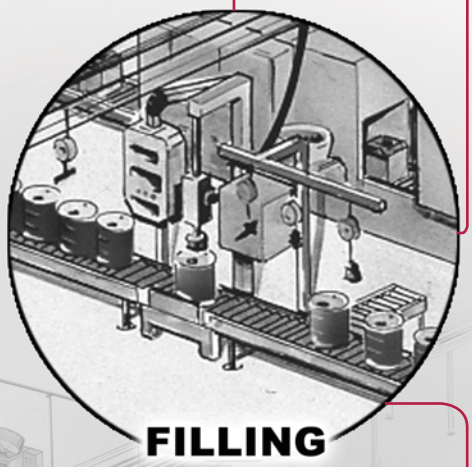
- Up to 10 different screens can be programmed to change with each different filling process
- Customized scrolling prompts guide operators through functions
- Real-time graphic representation of inventory
- Graphic icons and messages show setpoint and function status
- For added safety, the controller will automatically shut off filling if no increase in weight is detected on the weigh scale
- Convenient navigation pad increases efficiency and accuracy
- Communication protocol cards include DeviceNet™, Allen-Bradley® Remote I/O, Profibus® DP, and Rockwell's Ethernet TCP/IP

** 60 drums per hour x 24 hours = 1,440 drums*

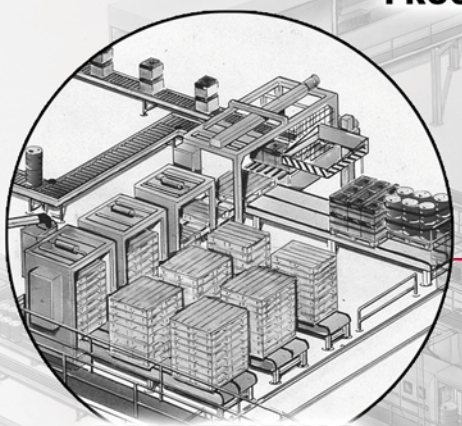


Customized scrolling prompts guide operators through the entire filling process.

INFORMATION PROCESSING



FILLING



PALLETIZING

RICE LAKE WEIGHING SYSTEMS
Commitment Beyond Measurement™

SMART SHEETS

SYSTEM ENHANCEMENTS

Optional accessories available to enhance the filling station.

Gas Hood	Extracts hazardous, toxic or unpleasant fumes
Drip Scoop	Activated by lance stroke, the scoop catches product drips which are then fed into the next container being filled
Hazardous Area Protection	Allows system to operate in Class I, Division I, Group C & D or Zone 1 or 2 environments
Interlocking "Smart" Ground Clamp	"No ground, no fill." If clamp is not attached to container, system will prompt operator to attach before filling can begin
Optical Overflow Sensor	Fiber-optic cable located 2" above bunghole to detect overflow. If overflow is detected, the system automatically shuts down
Nitrogen Purging System	Enables drum to be flushed with nitrogen prior to filling
Remote Cleaning Funnel	Allows cleaning and storing of additional lances while system continues to operate
Automatic Open/Close	Removes cap and reseals bunghole
Automatic Infeed/Outfeed	Provides for automatic container transport
Infeed/Outfeed Storage Systems	Directs full containers to storage areas throughout the facility
Palletizing	Provides for automated container configuration on pallets
Container Limit Stop	Allows proper placement of the container on the filling platform

Contact your Rice Lake distributor to learn about additional system enhancements that will ensure your Feige filling system performs to your specifications.

*Visit **www.rlws.com/feige_info.html** to learn more about the Series 10 fillers or download a questionnaire to find out which Feige filling system is best for your application.*

Rabbit Control Systems
Automation & Control Engineering

Regional Distributor

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