



DataFill Transmission, Engine Oil, and Axle Fill

DataFill Transmission, Engine Oil and Axle Fill Systems offer all the tools necessary to optimize the quality and efficiency of your fluid filling process. This fill process includes:

- Fluid filtering and heating
- Volume fill
- Level sense or scavenge to level
- Purge or scavenge tool to eliminate drips

These systems can address mixed assembly lines that fill manual, automatic and CVT transmissions and require individual fluid supply, prep, and fill through individual fill tools. Our process can also fill engines and /or transmissions that are partially filled due to shipping requirements or testing residuals.

Serv-I-Quip's expertise in fluid prep, fluid measurement, and tooling design results in a high quality, efficient, and consistent process and ROI.

DataServ 3.0 has become a critical component in the measurement and improvement processes vital to factory quality control systems. This software offers the traceability, quality assurance, process control, and access to production data that manufacturing engineers now require as part of their fluid filling operations. New features of DataServ 3.0 include a Dashboard that can display multiple DataServ systems, key production values, production analysis reports, process alerts, notifications, and system events.

Product Detail

STANDARD FEATURES:

- Web based data acquisition and process control software
- Automatic process set-up, initiation, cycle completion, and return to standby
- Hand held CCD or RF bar code scanner
- Allen Bradley PLC machine control integrated with PC
- Dell PC running Windows®, 20" flat screen LCD
- Back-up Allen Bradley Panelview® Touchscreen Operator Interface
- NFPA 70E Arc Flash compliant
- Auto clamp/unclamp, dripless tooling
- Start/Stop/Reset pushbutton pendant at tool
- Level sense control for pre-filled engines or transmissions
- Volume fill
- Stainless steel flow meter verifies fill amount
- Standard or custom neck styles and port openings
- Heated storage tanks
- Continuous recirculation of fluid for dehydration
- Dedicated vacuum pumps for oil dehydration and system evacuation

- Individual scavenge pumps vent fluid pressure, adjust level, and eliminate tool dripping
- Single stage vacuum pumps with auto purging traps
- Manual backup hose reels and nozzles

CONFIGURATION OPTIONS:

- Stop station
- Mobile station
- Base station with track mounted, vehicle towed tool console
- Base station with motorized, VFD, line synchronized, track mounted tool console
- With and without dehydration, storage, and heated supply

PROCESS CYCLE OPTIONS:

- Pressure or volume fill
- Standard cycle includes:
 - Tool hookup
 - Oil fill
 - Pressure relief, level adjust, scavenge, and tool disconnect

TOOL PRESENTATION OPTIONS:

- Simple track mounted tool balancer
- Swinging boom and tool balancer
- Automatic, air actuated drop and retract balancers
- Multi-axis, automatic tool positioning
- Multi tool, automatic tool positioning

Serv-I-Quip, Inc.

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DataFill Transmission, Engine Oil, & Axle Fill (continued)



DataFill Transmission, Engine Oil, & Differential Fill System with VF Drive



Transmission Fill Tool

SCAN PRODUCT											
ENGINE OIL				TRANSMISSION				HOIST / BRAKE			
Pressure	Fill	Pressure	Fill	Pressure	Fill	Pressure	Fill	Pressure	Fill	Pressure	Fill
4	5	5	9	8	8	8	9	8	9	8	9
Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
4	5	10	10	8	8	9	9	8	9	8	9

DataServ MultiFill Operator Screen



Trans Oil Axle Fill tool



Oil Fill Tool with Start/Stop Pendant

TYPICAL DATA DISPLAYED AND RECORDED:

Process Screen

- Product ID#
- Operator ID#
- Base ID#
- Time/Date
- Volume Filled
- Level Sense Pressure
- Fluid Scavange Time
- Tool Purge Time
- Total Cycle Time
- Pass / Fail Code
- Fluid Type (1-3)
- Total Fluid Usage

Set Up Screen

- Set Model #
- Set Model Description
- Rev. #
- Set author
- Set Pressure Sense
- Set Trans Type 1-3
- Set Trans Volumes 1-3
- Set Trans Min / Max 1-3
- Set Scavange Time
- Set Tool Purge Time
- Set Fill Pressure
- Set Max Cycle Time

Fault Screen

- Low Air Pressure (Inlet)
- Low Trans Pressure (Inlet)
- Low Level Sense Pressure
- Trans Fill Reject 1-3
- Cycle Aborted
- Cycle Overtime

Calibration Screen

- Set Calibration Volume
- Set Comments
- Set Fluid Type
- Set Fluid Pressure
- Set Password
- Calibration History

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