FLEETPILOT SYSTEM™

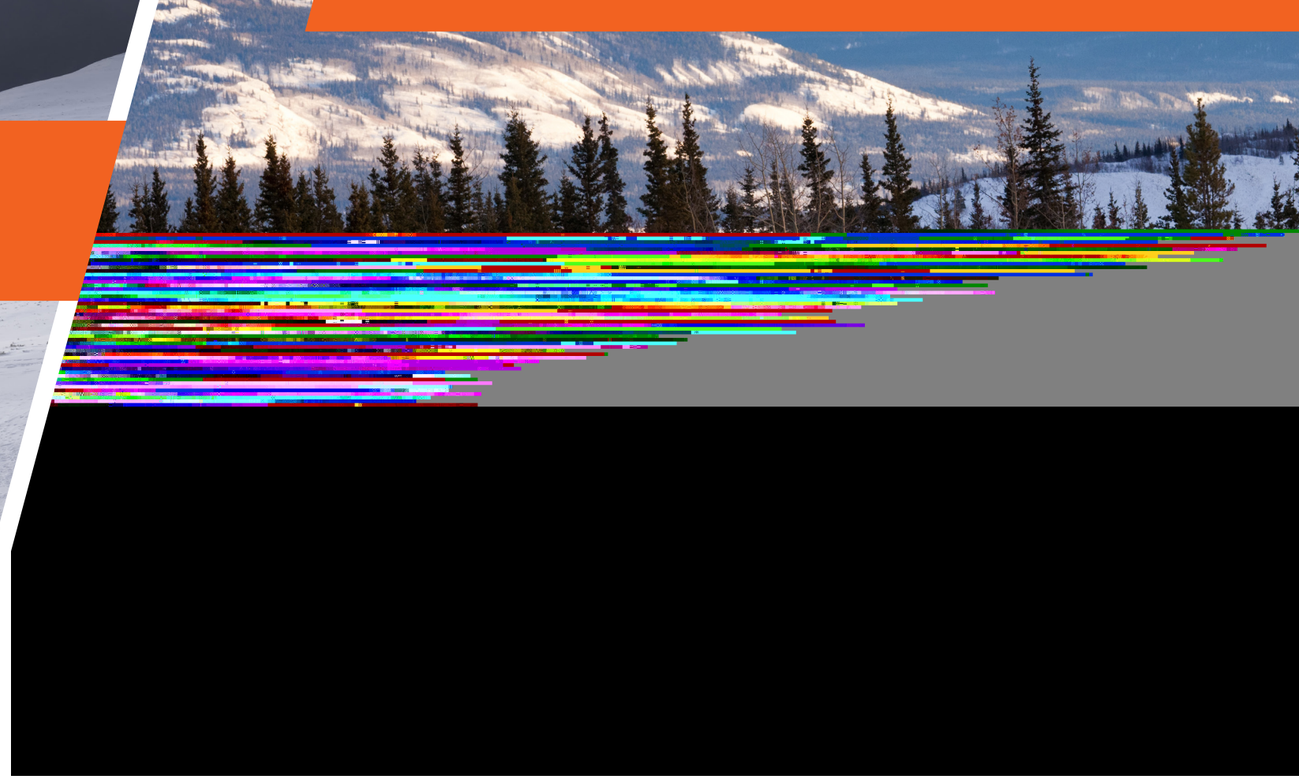
For Snow & Ice Fleet Performance

Connected snow and ice fleet performance management for state and local operations

Certified Power
SOLUTIONS

Snow and Ice Fleet Operations, Simplified

Effective snow and ice fleet operations require a unified approach to support both off-season planning and quick response times — regardless of weather conditions.



Maximize Your Winter Fleet's Efficiency and Scale

Certified Power Solutions (CPS) has developed the FleetPilot System for Snow & Ice Fleet Operations to enable state and local governments to create a custom solution to match any unique need or requirement.. With the FleetPilot System, winter fleet managers can scale faster and as needs and resources evolve.

Optimize Costs

- Track plow locations and statuses to determine where additional material or plowing is needed.
- Monitor vehicle and material metrics like speed, direction, and spread rate.
- Seamlessly integrate data with third-party and specific state mapping tools.
- Proactively address fleet maintenance by accessing vehicle condition data.
- Build comprehensive reports for fleet health, environmental compliance, and strategic planning for upcoming seasons.

Future-Proof Your Operations

- Retrofit fleet with touchscreen and telematics while preserving your existing vehicle equipment.
- Automate and streamline firmware updates, address bugs, and rapidly transfer calibration and configuration files.
- Flexibly update or add modules to adapt to evolving demands or budgets.

Easily Troubleshoot

- Identify and address real-time issues by adjusting outputs for open and short circuit conditions.
- Resolve field complications quickly and intuitively.
- Monitor machine activities through a user-friendly, expansive screen.
- Handle multiple system modules with ease.
- Opt for environmentally-rated enclosures with fewer connectors.
- Ensure resilience with IP67 and IP69K-rated protective measures.

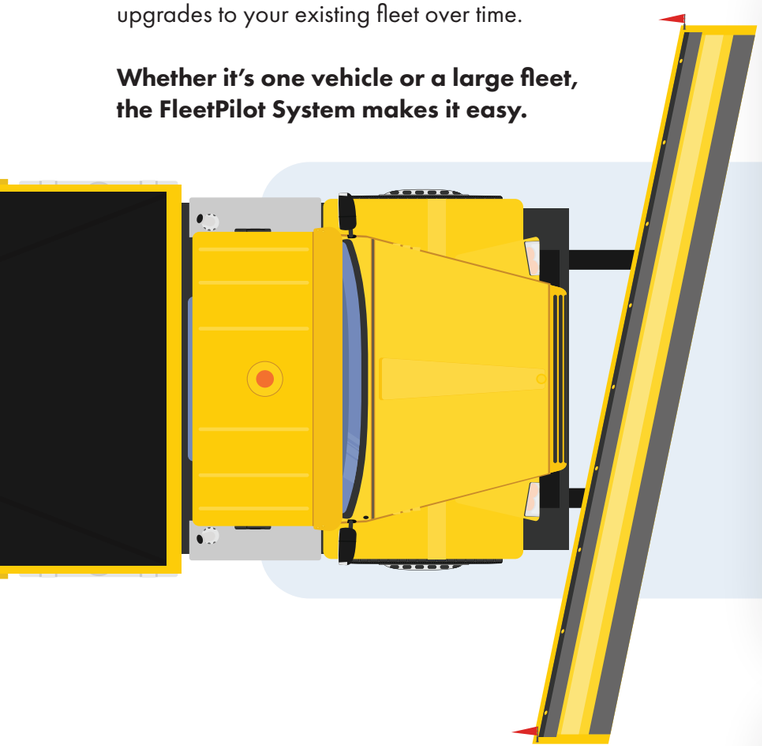
Reduce Environmental Impacts

- Gather and monitor material dispense data for accurate tracking.
- Stay informed about spreader speed, direction, rate, and the specific materials used.
- Create tailored reports to confirm compliance with EPA, state, or local regulations.
- Implement geofences to oversee watershed areas and ensure protection.
- Reduce fuel consumption for a more eco-friendly operation.
- Avoid over-dispensing and redundant area coverage for optimal material usage.

FleetPilot System Products

With CPS' proprietary FleetPilot System, you can customize your fleet to meet your exact requirements – or you can make incremental upgrades to your existing fleet over time.

Whether it's one vehicle or a large fleet, the FleetPilot System makes it easy.



Integrated, Electronic Control System

SpreadSmart MAX Plow & Spreader Control

SpreadSmart MAX – 10-inch screen

- Advanced system using CAN-bus technology
- Full-feature spreader functions plus dual spreader (tow plow) control
- Temperature-controlled spreading
- Material positioning spinner control
- Dynamic gate control for advanced designs
- Wi-Fi and Bluetooth data transfer compatibility
- AVL ready hardware

Joystick options

- 4, 6, or 8 button multi-joystick
- Dual, 3 or 4 stick

*system is backwards compatible with SpreadSmart Rx

Input/Output Components

FleetPilot I/O

Output module – large box and small node options

- High-capacity power distribution
- Simplified cabling
- Redundancy detection safeguard
- Soft diagnostic capabilities

AVL & Telematics

FleetPilot Connect

Cell modem

- On-board GPS with live tracking and material dispense data
- J1939 data collection from truck sensors

Cloud telematics platform

- Color-coded map of plows' locations
- Real-time spreader data, road surface temperature, grip, material rate, and maintenance warnings
- Remote firmware, calibration, and configuration updates for spreaders
- Remote troubleshooting, diagnostics, and repair notifications to users

Hydraulics

Pumps (produce flow/oil to activate action)
- Gear Pump
- Vane Pump
- Piston Pump
- Clutch Pump (smaller application)

Reservoirs
- Stand Alone
- Combo (reservoir and valve enclosure which includes the output module inside) - ServiceGuard (Valve/Tank Combo)

Manifolds
- Custom Manifold (Hydraforce cartridge valves connected to manifold) – integral, limited functionality, more cost effective than other option
- PVG Combination (Danfoss sectional valve bolted to custom manifold) – highly efficient and controllable

PTOs – Power Take-Off
(turns hydraulic pump to activate the action)
- 280 Series PTO (Parker, bolts to transmission to take power off transmission)

Valves
- Aerial Valve
- Plow Balance Valve – valves on valve plate, not part of spreader manifold – ValveGuard

Accessories
- Filtration
- In Tank Filter
- External Filter
- Return Line Filter
- Pressure Filter

Certified Power Solutions for All of Your Snow and Ice Removal Needs

With more than 55 years of industry-proven snow and ice experience, CPS has been a long-time leader in the engineering, manufacturing, and distribution of snow and ice hydraulic systems and controls. CPS combines high-caliber engineering talent and expertise with next-level performance and capabilities that can support the changing needs of the most demanding markets — while providing the real-time data insights and reporting that are mission-critical to increasing public safety and vehicle efficiencies — at scale.

Certified Power Solutions engineers and distributes practical, turnkey hydraulics solutions to municipalities, public works, and commercial organizations in the areas that need snow and ice removal solutions the most. They trust us to provide the integrated solutions they need today and ongoing support to keep them going for years down the line.

We want to know about what challenges you face.
Contact your CPS sales representative and let's start a conversation.

Certified Power
SOLUTIONS

certifiedpowersolutions.com
phone: 763-493-9380
info@certifiedpower.com