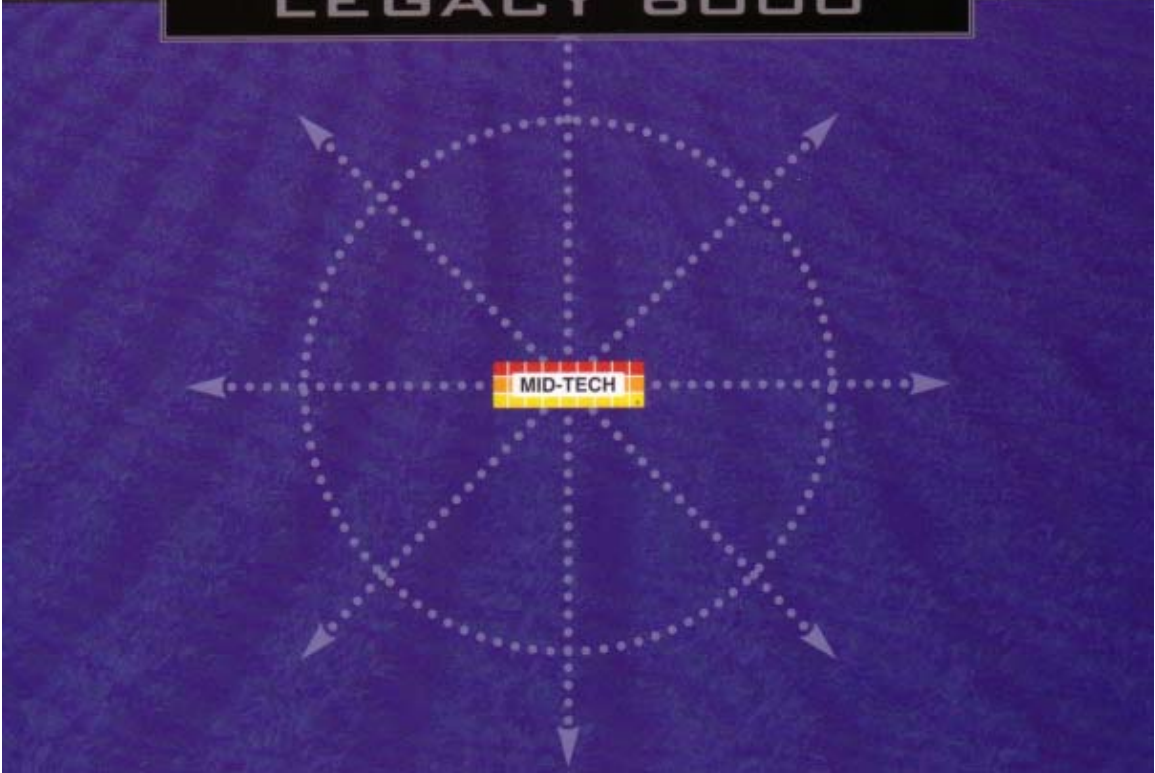




LEGACY 6000™

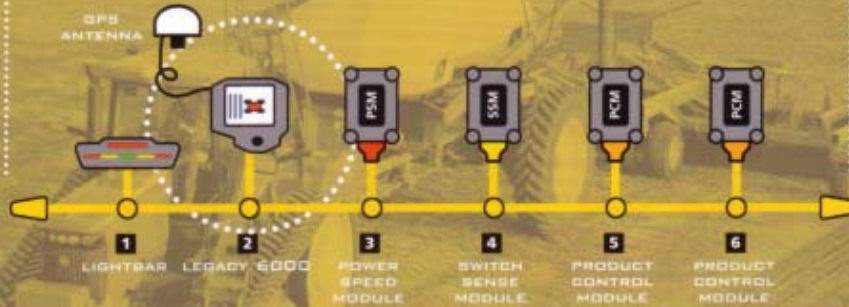


ELEGANTLY SIMPLE

THE LEGACY 6000™ WRAPS UP YOUR MOST CHALLENGING FIELD PROCESSES, RECORDS THEM AND PUTS THEM EASILY UNDER YOUR CONTROL WITH ONLY ONE CONSOLE IN THE CAB.



CAN BUS SYSTEM



THE LEGACY 6000 CONSOLE IS THE FRONT-END OF THE POWERFUL CAN BUS SYSTEM. BEHIND THE SCENES, OTHER MODULES CONNECT TO VARIOUS MECHANISMS TO PROVIDE THE FUNCTIONALITY AND CONTROL YOUR SYSTEM DEMANDS. THESE EXAMPLES SHOW THE LEGACY 6000 SYSTEM OPTIMIZED THREE WAYS.

SEED AND FERTILIZE AT VARYING RATES

- 1 Navigate in straight, curved and circular swaths using a lightbar
- 2 Map and record field operations in real time and stay informed of job progress
- 3 PSM—Connects to vehicle power and distributes it to the control system; informs the control system of vehicle speed
- 4 SSM—Monitors the on/off status of each segment of the seed and fertilizer applications
- 5 PCM 1—Vary the rate of seed across the field based on a prescription map
- 6 PCM 2—Apply fertilizer at fixed or variable rates, and independently of seeding rates

DUAL HOPPER APPLICATION OF TWO PRODUCTS

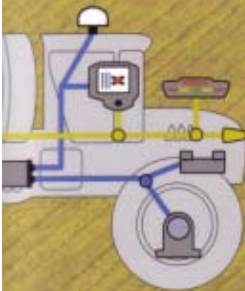
- 1 Navigate in straight, curved and circular swaths using a lightbar
- 2 Map and record field operations in real time and stay informed of job progress
- 3 PSM—Connects to vehicle power and distributes it to the control system; informs the control system of vehicle speed
- 4 SSM—Monitors the on/off status of each bin's master application switch
- 5 PCM 1—Monitor and control application rate of product one (fixed or variable rate); monitor spinner speed for display on the console
- 6 PCM 2—Monitor and control application rate of product two, fixed or variable rate

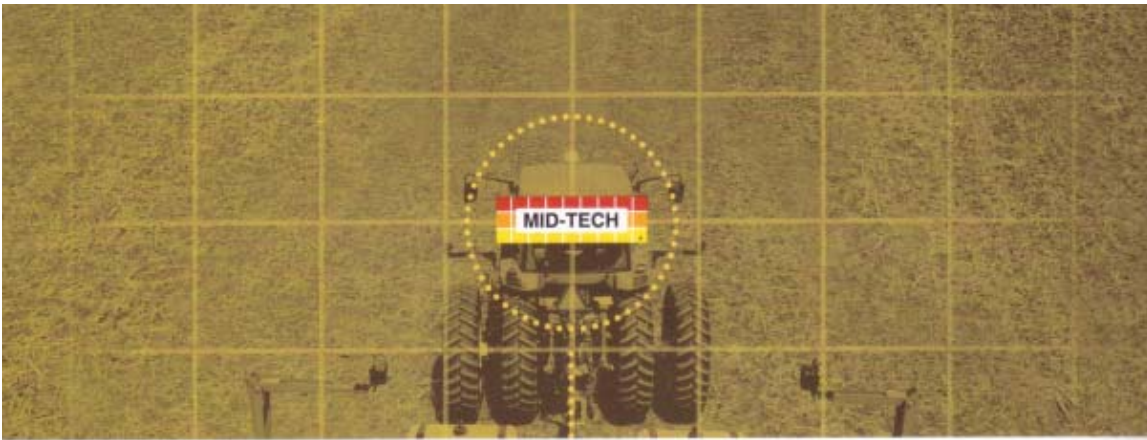
MULTIPLE PRODUCT DIRECT CHEMICAL INJECTION

- 1 Navigate in straight, curved and circular swaths using a lightbar
- 2 Map and record field operations in real time and stay informed of job progress
- 3 PSM—Connects to vehicle power and distributes it to the control system; informs the control system of vehicle speed
- 4 SSM—Monitors the on/off status of each boom section switch
- 5 PCM 1—Controls the application rate of the main carrier
- 6 PCM 2—Controls the application rate for chemical injection pump 1; monitors chemical 1 flow sensor
- 7 PCM 3—Controls the application rate for chemical injection pump 2; monitors chemical 2 flow sensor
- 8 PCM 4—Controls the application rate for chemical injection pump 3; monitors chemical 3 flow sensor

EXPLOIT THE CAPABILITIES OF THE LEGACY 6000 WITH AUTOMATIC STEERING

THE LEGACY 6000 SYSTEM CAN LINK WITH AN AUTOMATIC STEERING SYSTEM TO TAKE PRECISE CONTROL OF VEHICLE POSITION. THE OPERATOR MANAGES THE AUTOMATIC STEERING SYSTEM WITH THE LEGACY 6000 — ANOTHER BENEFIT OF A SINGLE, IN-CAB CONSOLE. AUTOMATIC STEERING DRIVES A VEHICLE WITH TREMENDOUS, REPEATABLE ACCURACY IN BOTH STRAIGHT AND CURVED PATTERNS. THE ABILITY TO OPERATE IN FOG OR DUST, DAY OR NIGHT WITH HIGH LEVELS OF ACCURACY MEANS A BETTER RETURN ON CAPITAL INVESTMENT FOR EQUIPMENT, A BETTER APPLICATION JOB, AND A MORE ATTENTIVE, ALERT OPERATOR.





IMAGINE HAVING ONE SYSTEM

Imagine having a single control system with the capability of managing all of your application tasks from the simplest to the most demanding. From variable rate seeding with fertilizing to multiple product application of dry and/or liquid products at the same time, the Mid-Tech Legacy 6000 system does it all.

- **FIXED-RATE OR VARIABLE-RATE APPLICATION—LIQUID, DRY OR ANHYDROUS PRODUCTS**
- **COMPLETE FIELD MAPPING WITH HAZARD MARKING**
- **MANUAL LIGHTBAR GUIDANCE WITH ON-SCREEN MAP DISPLAY**
- **INTERFACE WITH AUTOMATIC STEERING SYSTEMS**
- **OPTIONAL OFFICE SOFTWARE USES APPLICATION DATA TO CREATE DETAILED JOB REPORTS**

The tasks can be done individually or all together with a single console using Mid-Tech's new Legacy 6000 system. It's built of modular components combined to make a custom fit in each installation. This flexibility opens a wider range of options than ever before. It also means this system is uniquely capable of supporting future growth quickly, easily and without duplicating your investment.

There are four modules in all. The console in the cab is one of these modules and the one with which people are most familiar. The other modules manage

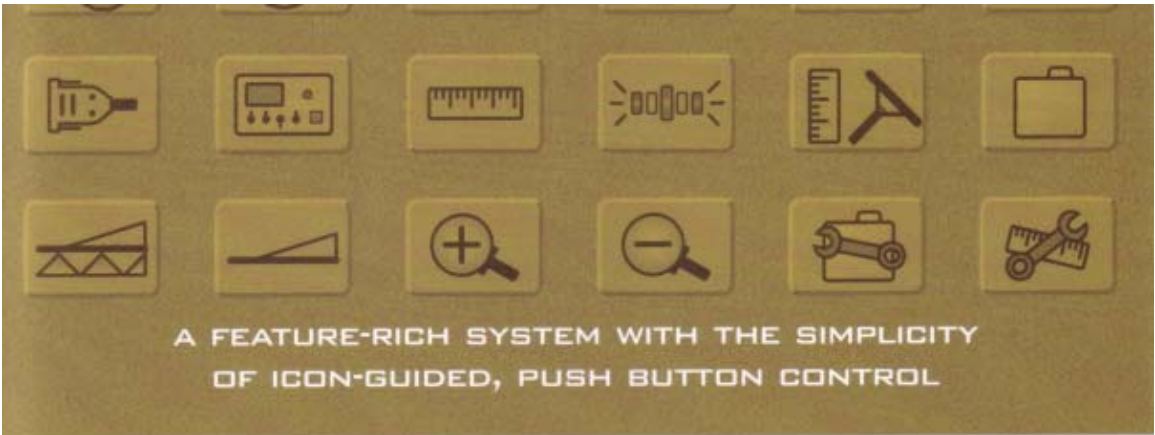
product control, the switches in the system like those that regulate boom sections on a sprayer or seed bins in an air seeder, and other network functions. All modules are linked together with a single, heavy-duty communications and power cable, or bus.

When we say flexible, we mean it. An application requiring multiple product control would simply use a Product Control Module for each channel. The Switch Sense Module likewise monitors up to 20 boom sections. If there were 30 boom sections to manage, an additional Switch Sense Module connected to the network would instantly expand the system.

Adding a module is easy. It's about the size of a paperback book and can be mounted anywhere on the chassis. It plugs into the network and is instantly recognized. Software wizards guide you through the set-up process. Servicing the system in the field is just as simple, with built-in diagnostic tools to make the job easy.

What makes this system so flexible and robust? It is a CAN bus system, a Controller Area Network, connected by a high-speed cable or bus, which allows a vast amount of information to be shared across the system. This self-managing system constantly monitors its own operational status, and reports any inconsistencies to the operator before they become a problem. It's an entirely new way of looking at product control and how to manage it.





A FEATURE-RICH SYSTEM WITH THE SIMPLICITY OF ICON-GUIDED, PUSH BUTTON CONTROL



EASY SOFTWARE SET-UP WIZARDS



REAL-TIME ON-SCREEN MAPS



AT THE END OF THE DAY PRINT REPORTS

TECHNICAL SPECIFICATIONS

LEGACY 6000 CONSOLE

Dimensions	8.0" W x 7.7" H x 4.5" D (203 x 196 x 114 mm)
Weight	2.3 lbs. (1.0 kg)
Enclosure	Engineering thermoplastic ABS/PC alloy with high impact and chemical resistance properties. Sealed in compliance with IP65 and ANSI/ASAE EP455
Connector	Sealed, 31 pin Deutsch
Environmental	Storage -4°F to 158°F (-20°C to +70°C) Operating 32°F to 122°F (0°C to +50°C) Humidity 5-95% (non-condensing)
Display	Full color, sunlight readable, transfective 5.7" (145 mm) diagonal LCD
Keypad	Backlit elastomeric tactile keypad, 10 softkeys for direct program navigation, four directional keys, enter, escape, brightness and contrast
Microprocessor	32-bit Intel® StrongArm, SA 1110 with SA 1111 companion chip, 206 MHz
Memory	32 MB DRAM 32 MB Flash
Operating System	Microsoft® Windows® CE 3.0
Drives	PCMCIA type II, single slot
Input/Output	CAN* Bosch 2.0B Serial RS 232 (2) USB (1) Bi-directional digital interface
Alarm	Audible alarm
Mounting	Stainless steel U-shaped bale bracket or RAM™ mount available
Other	Real-time clock with battery back-up

LEGACY 6000 MODULES

Power Speed Module	This is the primary arbitrator for the bus and the gateway for parallel CAN bus networks. PSM accepts a speed sensor and has an RS 232 port.
Switch Sense Module	Senses the status of switches aboard the vehicle; controls up to 20 switches per module. Additional SSMs expand capability.
Product Control Module	Controls product delivery system by connecting to the actuator and sensor. Outputs can be bi- or uni-directional. One PCM is needed for each product to be metered.

MODULE SPECIFICATIONS

Dimensions	4.7" W x 2.3" H x 6.0" D (120 x 60 x 150 mm)
Weight	1.9 lbs. (0.9 kg)
Material	Powder-coated cast aluminum
Input/Output	CAN, Bosch 2.0B
Power Requirement	9 to 16 volts DC supplied to the Power Speed Module provides power to the entire network. (Legacy 6000 console can operate as a stand-alone computer requiring 9-16 volts power.)

RECEIVER REQUIREMENTS (GPS INPUT OPTIONAL)

Sub-meter DGPS	Compatible with differentially-corrected, GPS (DGPS) receivers outputting NMEA 0183 GGA sentence at 2 Hz or greater
RTK	Compatible with RTK GPS receivers outputting NMEA 0183 GGA sentence

LIGHTBAR GUIDANCE (OPTIONAL)

Lightbar	Compatible with Swath XL CAN lightbar
----------	---------------------------------------

WARRANTY

Legacy 6000 is backed by Mid-Tech's full 2 1/2 year product warranty. Our dedicated customer support staff assures you of continued service and on-site training makes your staff more effective and efficient.

*Controller Area Network (CAN) is the intellectual property of Robert Bosch GmbH.

ISO 9001
Certified by DQS

Copyright © 2003, Midwest Technologies IL, LLC. Printed in the USA. Part number 99-01066 Rev 0



Midwest Technologies IL, LLC • 2864 Old Rochester Rd. • Springfield, IL 62703
Phone 217.753.8424 • Fax 217.753.8426 • Customer Service 800.643.8324 • www.mid-tech.com