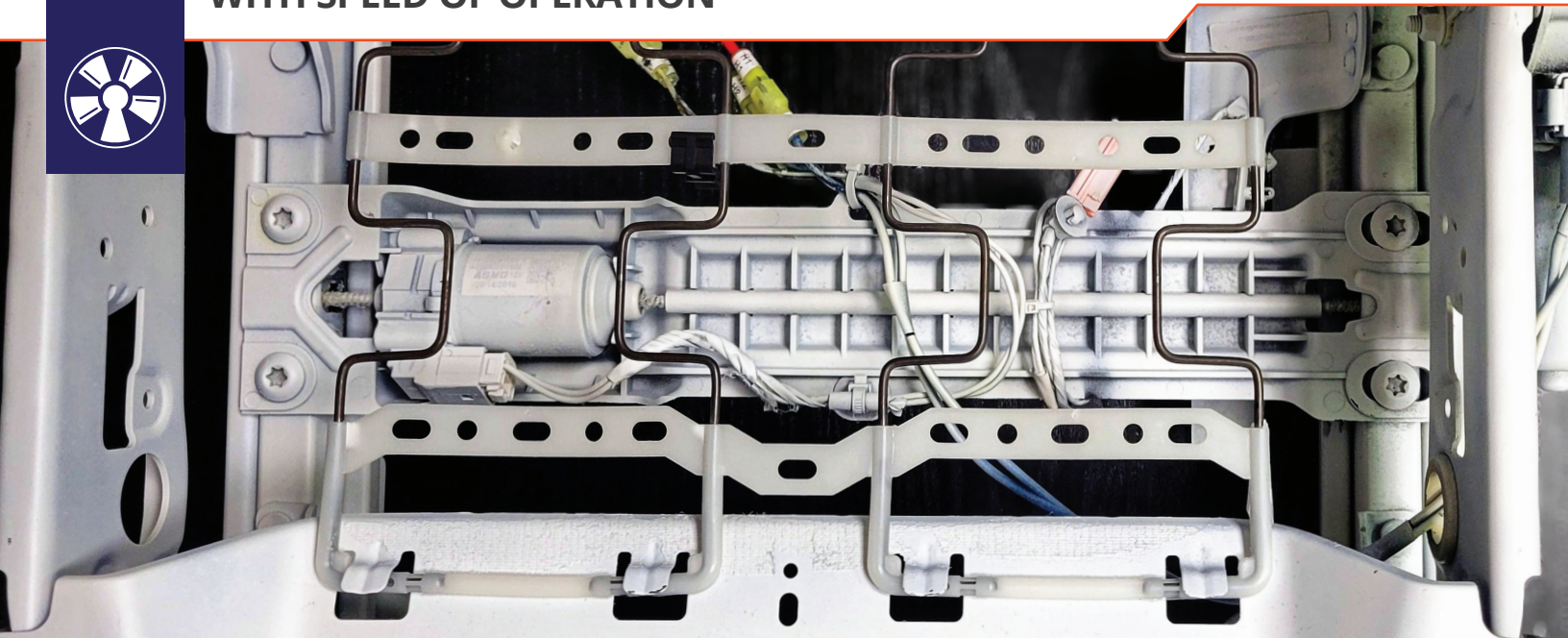


MOTOR POWER LIFE CYCLE DURABILITY WITH SPEED OF OPERATION



why choose innkeeper?

At Innkeeper, our solutions are not chosen from a catalog page. We support your individual criteria by adapting hardware and software to meet unique testing requirements. We will work together to find an appropriate and cost-effective solution to meet your needs. Innkeeper specializes in modular control systems, including retrofits and the equipment required for strength, durability and performance testing.

Motor durability testing made convenient with bidirectional control of up to four DC motors.

Using an H-bridge design for each motor, the user can control any and all motors, in either direction, programmatically or manually using the jog panel. Test sequences can be built allowing for high cycle power durability testing with single point control using each motor's voltage and current. Durability testing is often combined with "Speed of Operations" testing at the beginning, in the middle, and at the end of the life cycle test. Speed of operations can be run manually with a Speed of Ops UI built specifically for seat testing or it can be programmed to run automatically at different times within the power life cycle test by jumping to a subroutine and collecting current, voltage and time for later processing.

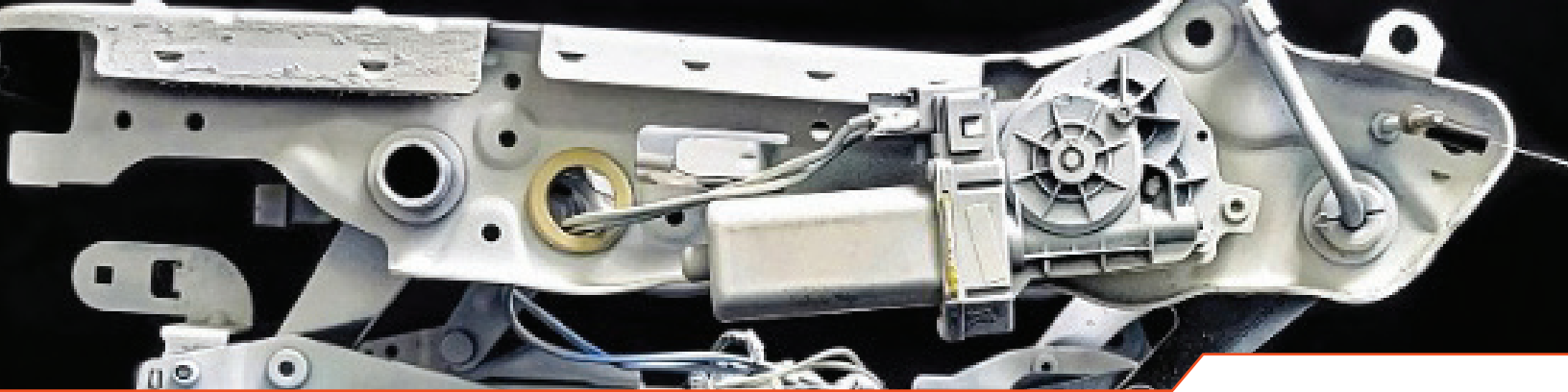
Useful for:

- Power life cycle testing, Seat motor durability, jogging motors into design position, running Speed of Operation.
- Reading and reacting to switches, voltage, current, temperature, cycles, time, and other connected transducers.
- Acquiring all signals and storing all data to disk. MicroMaster combines machine control with built in data acquisition.
- Controlling peripheral components by way of programmable analog outputs.

The **InnControl™** User Interface (UI) along with our "MicroMaster" Test Sequencer provides an easy and efficient means to set-up the test parameters, calibrate force and displacement, define limits, and define the test cycles.



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This test controller has access to all standard **InnControl™** software features including full data acquisition, sequence control, manual control, real-time graphical displays and numerical displays, calibration, transducer database, safety limits, and SMS notifications.

scope of supply

- PC with InnControl test control suite, including UI for MicroMaster Sequential Programmer and full data acquisition.
- 19" 4U Drawer with custom built electronic components.
- Rolling 19" Control Console, 18U height, removable sides, hinged front/back doors.
- Inputs for Lab Grade Power Supplies, one input per motor. Optional purchase.
- Articulating monitor arm, 24" monitor, wired keyboard and mouse.
- Uninterruptable Power Supply (UPS), 120VAC, 500VA for computer.
- Full cable interconnection set with flying lead end to customer components.
- Remote ESTOP button, 20ft cable

customer responsibilities

- Unpack the components and move to the final location within the test lab.
- Provide any required building utility connections to the machine.
- Test Specimen Fixturing (Unless explicitly provided by Innkeeper).
- Connection wiring from Device Under Test (DUT) to the control drawer mating connectors.
- Application of all appropriate specimen power protection limits.
- Customer can optionally provide their own PC, monitor, mouse, keyboard. Required specifications are VESA mount monitor, and separately mounted/installed (by Customer) PC with Win10Pro software (not higher than 10), and PC with minimum i7 CPU, 16GB RAM, 1TB SSD.

scope of connections and channels

- 8 Transducer inputs (4 dedicated DC voltage inputs, 4 dedicated DC current inputs)
 - 4 Voltage Inputs, +/-30vdc
 - 4 Current Inputs, +/-30adc.
- 4 Digital Limit switch inputs, mechanical or 24vdc PNP proximity.
- 2 Analog Output, +/-10v dc outputs available for remote peripheral control, up to 15mA current.
- 16-bit resolution for all transducer inputs.
- Local and Remote Power Supply sense line settings for each motor.
- Custom configurations are possible for both test hardware and for software functionality.