



AVL BOBCAT™

AVL BOBCAT is an engine test bed automation system dedicated and optimized for defined applications in engine testing.

AVL BOBCAT includes an integrated digital engine/dynamometer controller for complete control of the engine and dynamometer (hydraulic dyno, EC-dyno and AC-dyno).

The workflow enables a separate setup of test bed, engine & test run parameters, which makes fast and easy change of engines or test runs possible.

Benefits at a Glance

- Digital Dynamometer & Engine Controller provides excellent torque and speed control
- Interfaces to most common measuring devices for engine testing can be easily established
- Intuitive modular structure of the user interface allows quick and easy test run parameterization and operation without extensive training
- Quick operation that allows test runs to be defined and reused easier and initiated faster

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AVL, the technology leader for automotive testing systems provides AVL COMPACT™, an out-of-the-box easy to install and cost effective solution for the engine development, component testing and performance market.

Ready. Set. Go.

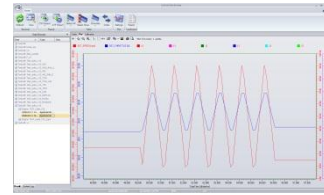


Figure left: Run mode, Figure middle: Automated Test Sequence, Figure right: Data Browser

Technical Data

Operating system	Windows XP or Windows 7
Realtime operating system	INtime
Modes of operation	Manual and automatic
Channels types	Analog IO, digital IO, temperature, formula, filters, PID, limits, custom and dependent
Channel frequencies	1, 10, and 100 Hz (1kHz for F-FEM CON channels)
Calibration history	History maintained, trace maintained
Limit monitoring types	Testcell limit (monitored either in testcell load or engine loaded states), engine limit and group (monitored when engine has started)
Limit monitoring reactions	Low and high warnings and alarms; SoftStop, HardStop, Message, Idle and Exception on alarms.
Filters types	Cut-off frequency, Integrator, Value changed/not changed, moving average, invalid value and minimum/maximum/range
Maximum number of channels	4750
Maximum number of PID channels	10
Maximum number of testcell limit Channels	128
Maximum number of active recorders	3 concurrently activated recorders and 1 blackbox recorder
Recording frequencies	1, 10, 100 Hz (1kHz for F-FEM CON channels)
Maximum number of CAN ports	8 (4 for each CAN card)
Test result data	Export data as CSV and ATF, or upload to Santorin database
EMCON Control modes	Speed/Position, Torque/Position, Speed/Torque, Torque/Speed, Dyno/Speed, Speed/Aux, Torque/Aux, Torque function of Speed/Position
Supported Dynamometers	Eddy current Hydraulic (water brake) Motoring dyno (AC or DC) Bi-directional motor controller, i.e. Spintron. Motoring dynos are supported on a case by case base.
Peripheral Devices	AVL DiGas 1000, AVL 733S, AVL 735, AVL 753C, AVL 415, AVL 439, AVL 442, AVL 483, PEUS CFO, HMT 333, PTU 300, CVS, Simplex_LB, FMU3G, Agilent, EBH, Emissions Benches, CAS/ACAP, SPC, CAN, ASAP3, CUTY, IndiCom

For further information please contact:

AVL Instrumentation & Test Systems Inc., 47603 Halyard Drive, Plymouth, MI 48170-2438
E-mail: infosales@avl.com, <http://www.avl.com/compact-na>