

## AVL TESTBED WORKSTATION

AVL delivers different types of Testbed Workstations depending on customers' application and performance requirements. Each Testbed Workstation is equipped with high-quality server grade components and is delivered in rugged industrial 19" housings.



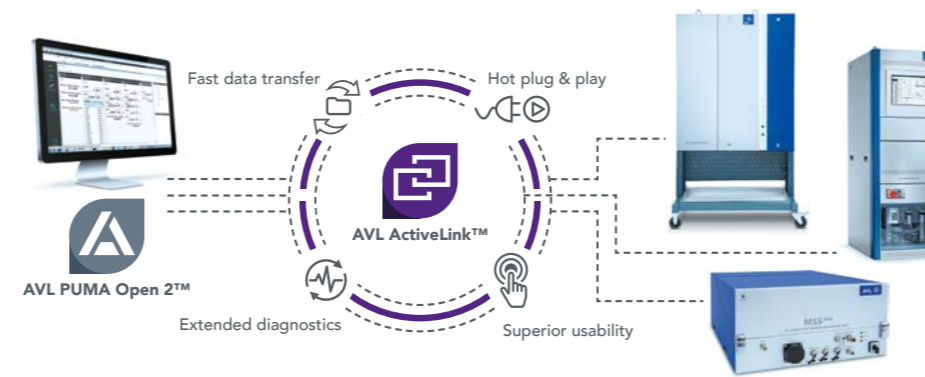
Investment security is constantly in focus:

- Compliance to Windows 10 (64 Bit)
- Increased performance provided by latest CPU technology
- Long time availability due to embedded Intel roadmap CPUs
- Highest reliability due to solid state disks (SSD) in RAID configuration

Even complex simulation models are executed on the Testbed Workstation hence no investment in additional simulation HW is needed.

## AVL ACTIVELINK™

Birth of simplicity



The revolutionary device integration interface, in combination with AVL PUMA Open 2™ enhances the AVL testbed with:

- Intelligent measurement instrument recognition
- Cross-platform „look & feel“
- „Plug & play“ function for quick and easy device integration

## INTERFACES

AVL is continuously examining the appearance of new interface and bus technologies to provide our customers with best-in-class communication solutions.

AVL PUMA Open 2™ supports various interfaces like:

- EtherCAT
- Ethernet
- ProfiNet RT (via Gateway)
- Profibus
- CANbus
- iLinkRT
- OPC
- USB and many more



## Integrated Testbed Environment

## SYSTEM CABINETS / OPERATING ROOM

The highly flexible operating room concept of AVL focusses on the constantly changing requirements and work situations when executing engine and powertrain tests. Among various system cabinet solutions AVL's Test System Operating & Control Cabinet is the most popular.



## PRESSURE SENSORS

Pressure Sensors for Testbed Systems are digital or analog pressure transducers for precise measurement in the field of automotive engine and powertrain testing. In order to fulfill our customers' demands in regards of application, accuracy and sampling rate, AVL offers five different solutions for the measurement of pressure signals. Hydrogen-compliant pressure sensors are available on demand.



## AVL PUMA OPEN 2™

The ease of automation



AVL PUMA Open 2™ - a synonym for pleasure at work!

- Only automation system suitable for all testbed types
- Easy and quick comparing of testbed parameters saves valuable time

- Powerful interfaces between AVL CAMEO™ – AVL PUMA Open™ – AVL IndiCOM™ set a new standard in xCU calibration work.

## OPERATING PANEL P400



The operating panel allows you to operate the testbed using push-buttons and incremental pulse wheels

- User-friendly handling through ergonomic design of operating elements
- Flexible parameter adjustment via the display
- LCD for demand value display

## ACTUATORS & ROBOTS



Actuators and robot systems are used to operate throttle pedals, gearboxes and clutches corresponding to the hands and feet of the driver. AVL offers a range of units and systems of different types and performance categories for the use on engine, transmission and powertrain testbeds.

FOR FURTHER INFORMATION  
PLEASE VISIT [WWW.AVL.COM](http://WWW.AVL.COM)

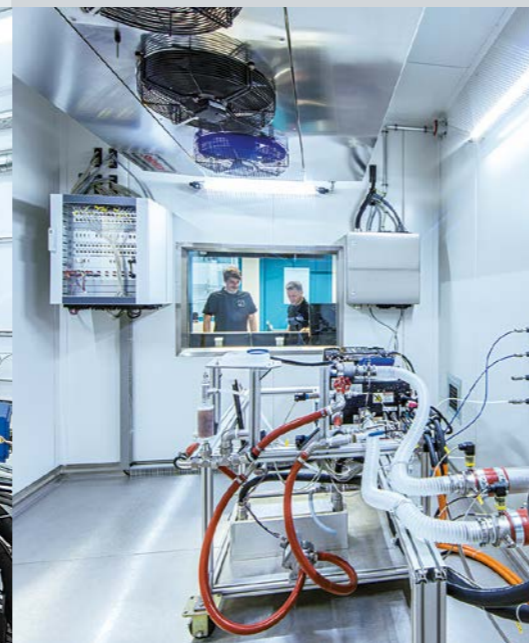


DISCOVER AVL PUMA Open 2™  
[www.avl.com/pumaopen2](http://www.avl.com/pumaopen2)

## E-DRIVE TESTBED



## FUEL CELL SYSTEM TESTBED



## ENGINE TESTBED



## POWERTRAIN TESTBED



## CHASSIS DYNO TESTBED




# Testbed Block Diagram




MEMBER OF THE AVL TEAM SUITE™

CAMEO 4™



IndiCom 2™



IndiSet Advanced



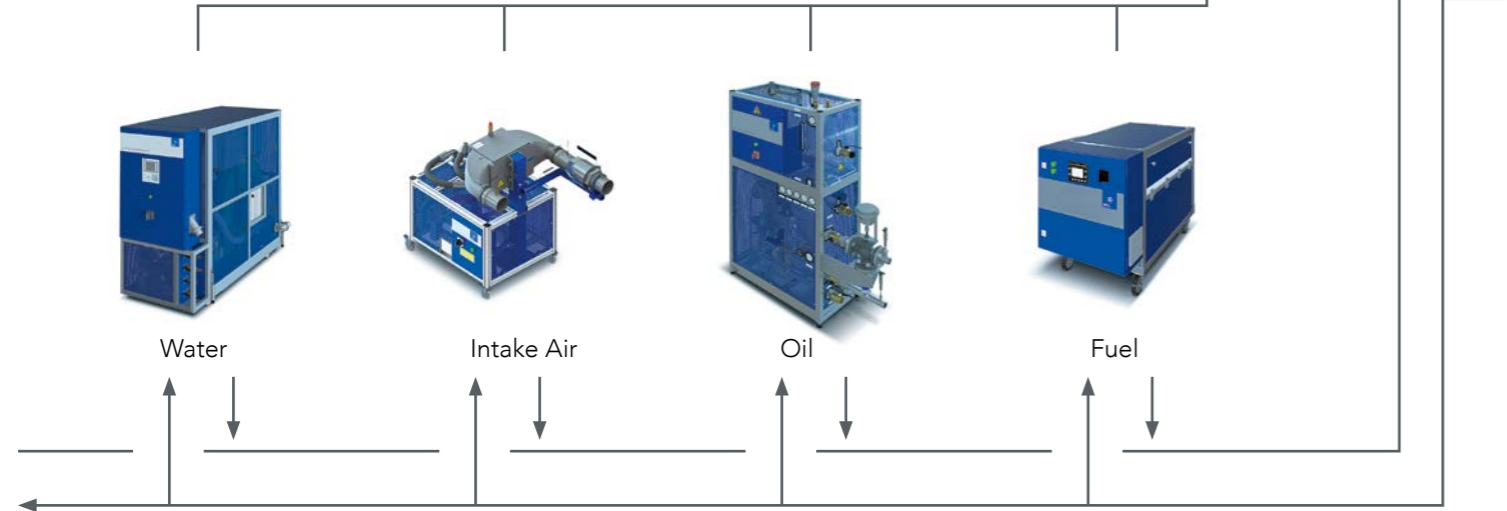
MicroIFEM




DRIVE 4™



## CONDITIONING UNITS




SANTORIN Host 5™




OPERATING ROOM




AUTOMATION SYSTEM




PUMA Open 2™




iGEM 2™



Testbed Workstation



EMCON 6™



ISAC 6™

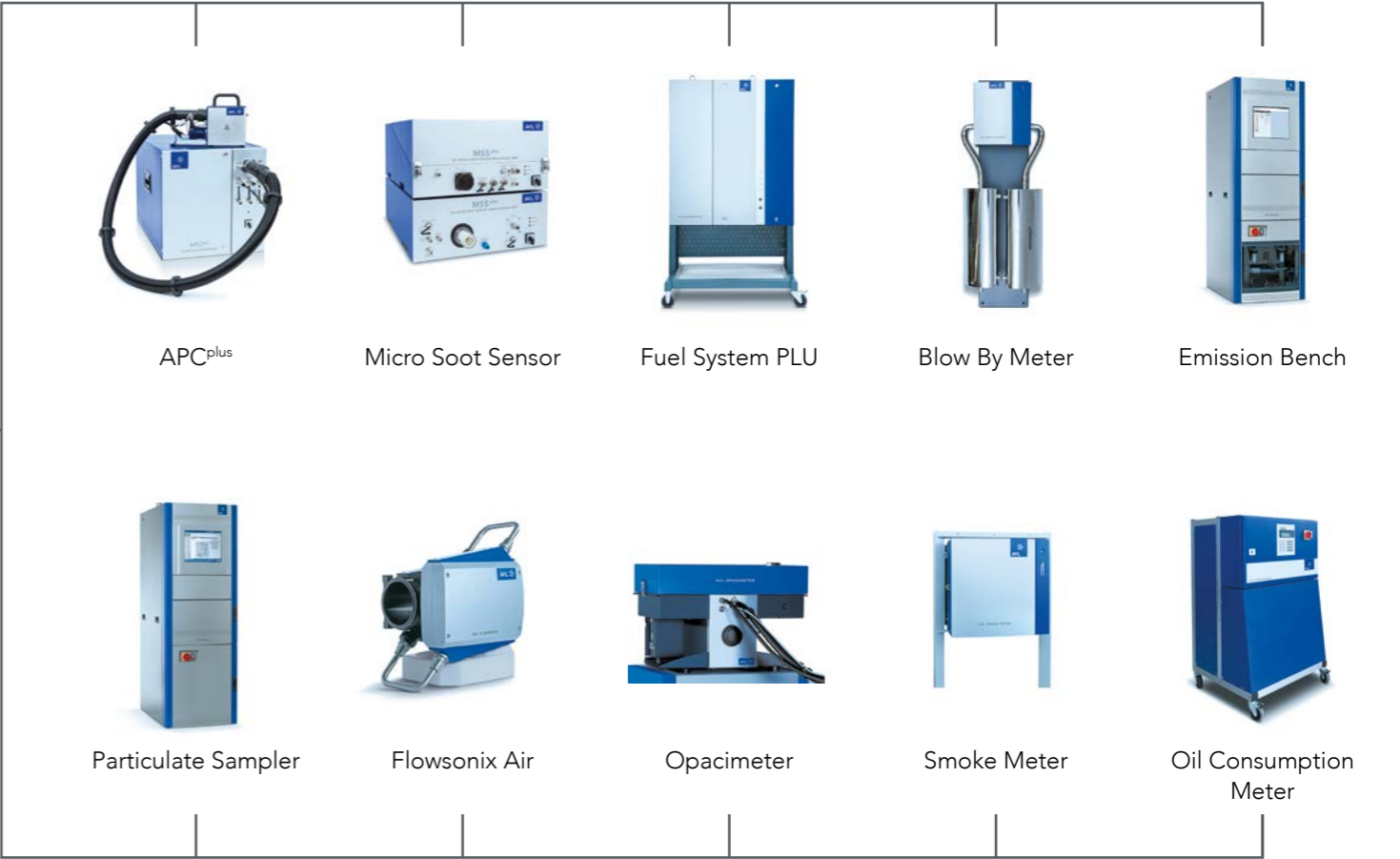


Drive Unit

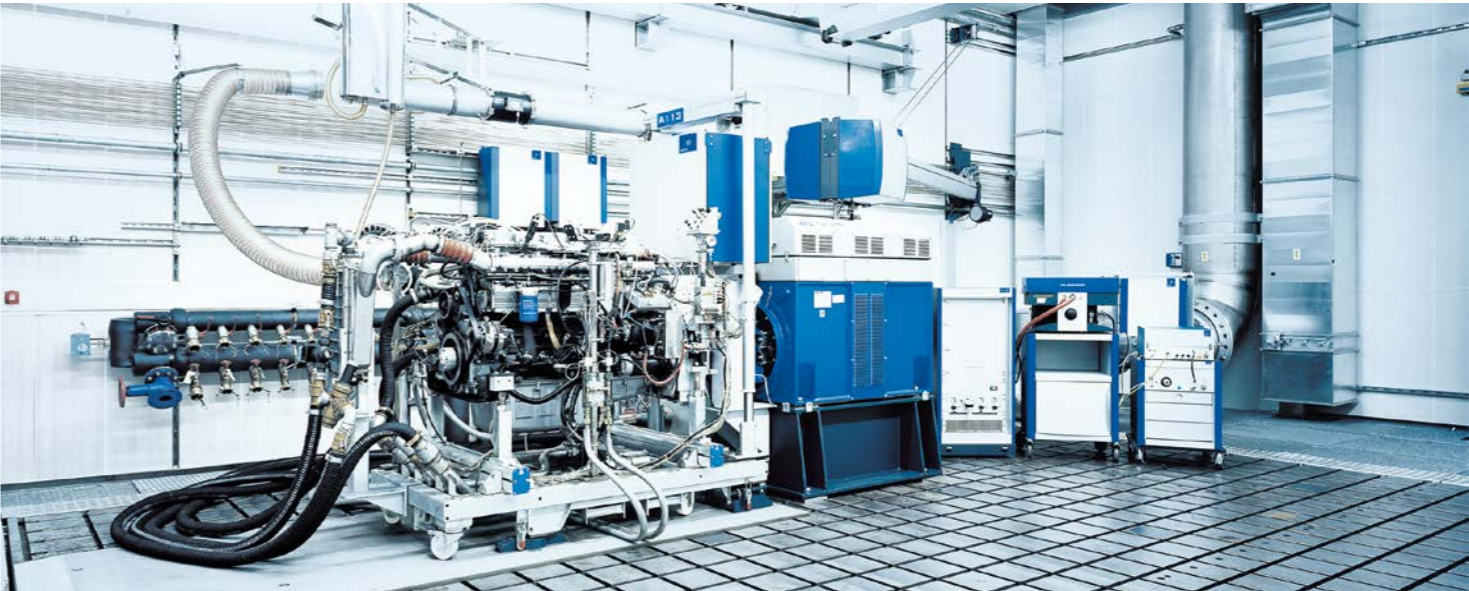
USB

CAN

## MEASURING EQUIPMENT



## TEST CELL



## CUSTOMER SERVICE



**FIX**  
Hotline Support  
Hardware Repair  
Spare Parts Management



**MAINTAIN**  
Equipment Calibration  
Hardware Maintenance  
Software Maintenance  
Device Overhaul



**OPTIMIZE**  
CAREline Support  
Software Subscription  
Application Support



**USE**  
Training  
Start-up & Operation  
Support  
Testbed Operations