



T.U.V PARS RAISEN Co.
AVL Group **Exclusive** Representative in Iran



AVL - PASSION AND RESULTS

Success is contagious. Unrivaled technology is able to take vehicles under complete control. The dynamic interaction of all pulses and signals is crucial. As is continuous development. Technical change has never been so fast. To keep pace, speed is important right from the very start and the right results win the race. One of our main objectives is to maintain perfect motion throughout a car's entire life. Our weakness for technologies that enable us to master every challenge we face ultimately becomes our strength.



Future Solutions for Today





**SET PRIORITIES AND FORGET
ABOUT COMPROMISE!
EXPERIENCE DYNAMISM AND A
PASSION FOR NEW IDEAS! ALL
MASTERFULLY COMBINED WITH
CLEAR-CUT OBJECTIVES. USE
OUR SUCCESS AS A TOOL FOR
YOUR OWN ADVANCEMENT.**



About TUVPR Co.

The AVL-Group is the world's largest privately owned and independent company for development and powertrain engineering, as well as instrumentation and test systems stands for the expertise of more than 50 years in development. The corporate concept is the support of vehicles during the whole life cycle. Within this concept, AVL DiTEST equips workshops and test centers with test systems and diagnostic tools of highest quality. Tose'eh Fanavari Pars Raisen (TUVPR Co.) as an AVL group exclusive representative in Iran has the honor of providing customers with the best quality products in the market.

In this catalog we introduce three AVL DITEST latest products to you, of course for getting the latest news about AVL group products you can always check our website at www.tuvpr.com

TUVPR PERSPECTIVE

We look at the automotive world in its entirety, from the accomplished development of a vehicle to ensuring it remains fit for purpose on a daily basis. In line with this guiding principle, TUVPR Co. takes on the challenge of equipping workshops and testing centers with high-tech diagnostic systems from AVL group that set the pace in terms of technical standards. The result is optimum performance combined with a personalized service founded on the pioneering technology of AVL.



PERFORMANCE IS A DRIVING FORCE.

Our systematic research into the technical world of motor vehicles began more than half a century ago. AVL was established in Graz, Austria. Our focus is on driving the development of engines and testing and measuring technologies to a higher level. We have relentlessly striven for perfection and pole position worldwide. It's no wonder that AVL in Graz is the central destination for every renowned automotive manufacturer.

● **POWERTRAIN ENGINEERING**

● **ADVANCED SIMULATION
TECHNOLOGY**

● **INSTRUMENTATION AND
TEST SYSTEMS**

AVL DITEST MDS 650 MODULAR DIAGNOSTIC SYSTEM

This modular diagnostic and emission platform for exhaust emission testing and electronic health checks meets the toughest requirements and delivers unsurpassed analyses.

MODULARITY – THE KEY TO QUICK SUCCESS.

With MDS, you get what you want. Nothing less. The modular concept of AVL DiTEST makes it possible to network individual modules. Functions, space and requirements are all taken care of by a single system – MDS saves stress, space and money. Overnight, basic emission testing stations expand to become highly sophisticated diagnostic stations. The appropriate engine and components tester is just waiting to be hooked up and be at your disposal virtually at the press of a button.

FUNCTIONS OF THE MODULAR WORLD INSIDE THE AVL DITEST MDS.

The choice is yours. The following list shows what can be done: All functions are configured the way you want and exactly as you require. Start over, select individual modules, Combinations or the complete package.

- Control Unit diagnostic
- Engine and components testing
- High-Voltage measuring
- Statutory exhaust emission testing
- EOBD for reading auxiliary quantities
- Information system



AVL DITEST MDS 650 MODULES

AVL DITEST Gas 1000

Module for measuring petrol exhaust emissions (CO, HC, CO₂, O₂ and Lambda - Optional Nox measurement)

AVL DiSmoke 480

Module for the measurement of diesel emission (k-value and opacity)

AVL DITEST AUX 1000

Module for auxiliary measurements such as RPM and oil temperature

AVL DIOBD 880

Module for vehicle communication (passenger cars, trucks and two-wheelers)

AVL DiScope 802

Two channel oscilloscope for automotive application

AVL HV Safety 1000

High Voltage measurement in hybrid vehicles (optional)

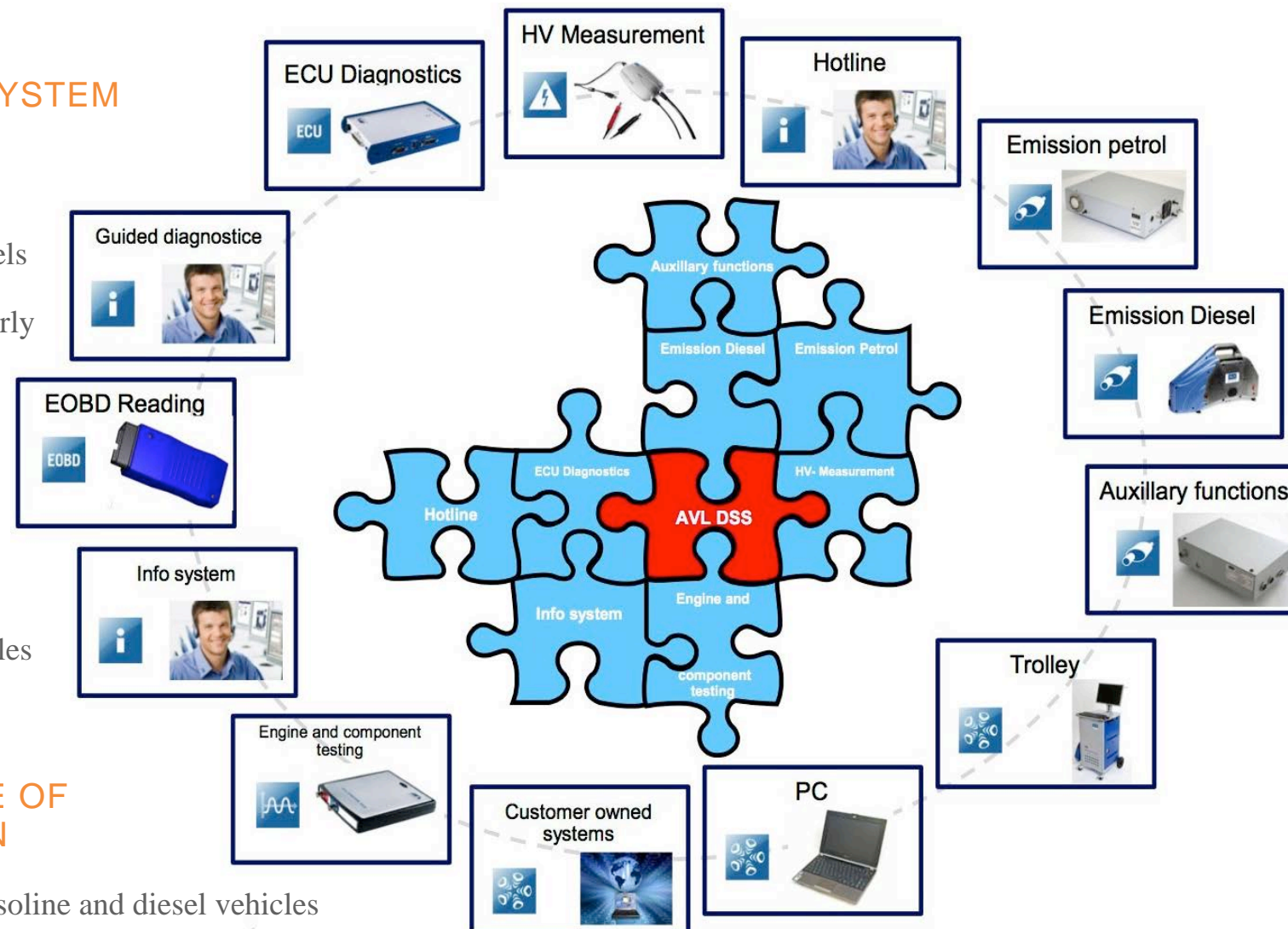
DETAILS

FUNCTIONS AND BENEFITS SYSTEM CARRIER

- large storage compartment ...
- high level of mobility due to large wheels
- use of high-quality materials - particularly robust
- no more cable clutter - complete radio concept as an option
- well legible from every position – large swiveling 22“ TFT monitor
- simple replacement of individual modules in the case of service

FUNCTIONS AND ADVANTAGE OF EXHAUST INSTRUMENTATION

- comprehensive emission analysis for gasoline and diesel vehicles
- statutory exhaust measurement (country-specific)
- EOBD selection
- large number of free additional features: vehicle and customer database, radio-connected diesel
- measuring chamber, comprehensive protocols, data recording
- low maintenance
- foolproof operation
- quickest measurement availability and procedures
- investment protection and return – latest, future-proof technology



FLEXIBLE AND EFFICIENT DIAGNOSTICS

Customers who want a fully integrated solution also want top-class performance. This applies to their inventory of everyday tools, but even more so to their partners and specialists for emission testing and diagnostic technologies. This is where AVL DiTEST enters the race – with the indispensable tool of the pit lane: MDS. The modular diagnostic system adapts to your task and not the other way round. With MDS, you can read and clear fault codes, drill deeper into system settings, and detect fault causes faster and with greater precision. That's added value. No price can be put on having peace of mind when working with hybrid vehicles, but this is guaranteed with MDS. As is the accuracy with which exhaust emissions are measured and checked. Rest assured, we know our petrol and diesel engines.

FUNCTIONS AND ADVANTAGE OF THE CONTROL UNIT DIAGNOSTICS

- diagnostic system for personal cars, light and heavy commercial vehicles, and trailers
- read/delete error codes and measured values with graphical display
- actuator tests, parametrization, coding, service reset, basic setting
- self-dependent detection of diesel/gasoline vehicles
- filtration of functions and measured values in real time
- defined TOP functions without control unit selection
- automatic VIN and mileage read-out
- permanent status display of the vehicle connection
- continuous on-board power control
- one of the world's largest vehicle databases – from Alfa Romeo to Wabco
- new revolutionary user guidance leads to the goal after 3 clicks only
- complete vehicle scan in unique diagnosis speed



FUNCTIONS AND ADVANTAGE OF ENGINE AND COMPONENT TESTING

- measuring and testing on engines, sensors, and actuators with more than 400 pre-configured measurements
- comprehensive help functions and descriptions support and guide through the measurement
- automatic measuring range configuration allows for meaningful curve plotting and interpretation
- direct comparison to reference curves for good/bad assessment
- curve recorder function allows for recording the signals for later interpretations
- long-term measurements for analyzing sporadically occurring errors
- simple, menu-guided user guidance – in three steps to measuring and troubleshooting

VEHICLE DIAGNOSTIC IN A FLASH

Out with protracted fault readouts. Away with unintuitive diagnostics software. Gone are the days of endless searching for the functions you need. The revolutionary AVL DiTEST XDS 1000 is the software that adapts to your requirements and not the other way round: For the fastest multi-make diagnostics, intuitive and user-friendly interface and fully automated diagnostics wizards that save valuable time. For experts and inexperienced users alike, the AVL DiTEST XDS 1000 is one of the fastest and most reliable gateways to professional and dependable vehicle diagnostics: Detail-rich drill downs and outstanding coverage for passenger vehicles, light and heavy commercial vehicles, buses and trailers. The multi-make diagnostics solution with guaranteed added value.

AVL DITEST MDS 418

Mobile exhaust measurement for gasoline and diesel engines



You want to conduct exhaust measurements at different locations? Then you need a device that is light, handy and nevertheless robust and that is characterized by low set-up times. AVL DITEST MDS 418 is an exhaust instrument specifically designed for this application. Due to its design, it is invincible regarding mobility, robustness and efficiency.



DETAILS

ALWAYS CONCERNED ABOUT YOUR BENEFIT

- Fits in every trunk
- low dimensions
- no exposed parts
- high stability due to low center of gravity
- robust metal housing with rubber protectors
- "all in one" (sensors and peripherals in one device)
- low weight
- wear-free, wireless connection to the PC

ALWAYS READY

- "all in one" (no forgotten parts)
- central standard power supply
- no set-up times for sensors regarding the device
- short warm-up times < 2 min.

PERFECT MOBILITY

AVL DITEST MDS 418 is the most convenient and quickest solution for being able to conduct emissions testing at different locations. Building on small, handy, and absolutely robust measurement modules, AVL DITEST MDS 418 takes up every exhaust measurement irrespective of the location. The innovative radio concept provides you with maximum freedom of movement during the measurement. Due to the high availability of AVL DITEST MDS 418, customer appointments must hardly ever be postponed.

- Quickly ready for operation
- Functional cable and probe guide
- Sturdy portable unit
- Flexible modular design
- Additional features for easy transport
- Information system

AVL DITEST MDS 418 MODULES

AVL DITEST Gas 1000

Module for measuring petrol exhaust emissions (CO, HC, CO₂, O₂ and Lambda - Optional Nox measurement)

AVL DITEST AUX 1000

Module for auxiliary measurements such as RPM and oil temperature .

AVL DITEST MDS 188

Mobile diagnostic equipment

With our new AVL DiTEST MDS Drive, a particularly robust and easy to use tablet PC, our innovative software can be easily used anytime, anywhere. The compact MDS Drive offers high performance and generous storage facilities and with integrated Bluetooth, LAN and WLAN, the MDS 188 provides easy access to the Internet and connectivity to hardware devices such as a Printer. With its shock resistant, water and dust proof design, this handheld tool is perfect for tough workshop environment.

FACTS

- up to 9 hours operation due to the long battery life
- 13,3" HD LED display in widescreen format enabling data to be clearly presented.
- 3 USB ports
- Integrated Touchscreen which can be simply controlled with stylus pen, fingers and gloves.
- ECU diagnostics
- EOBDMode1-9 ■ Software can be used for an unlimited time, update as a single purchase or subscription
- Scan tool also for CAN bus,
- Transport case with integrated storage compartments for accessories
- integrated LED for illuminate the pedal area space
- intelligent outright status light (blue,green,red)
- Buzzer and lanyard against losing the VCI
- Water resistant

DETAILS

FUNCTIONS AND ADVANTAGE OF THE CONTROL

- diagnostic system for personal cars, light and heavy commercial vehicles, and trailers
- read/delete error codes and measured values with graphical display
- actuator tests, parametrization, coding, service reset, basic setting
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- filtration of functions and measured values in real time
- defined TOP functions without control unit selection
- automatic VIN and mileage read-out
- permanent status display of the vehicle connection
- continuous on-board power control
- one of the world's largest vehicle databases from Alfa Romeo to Wabco
- new revolutionary user guidance leads to the goal after 3 clicks only
- complete vehicle scan in unique diagnosis speed
- fully automatic wizards and intelligent search functions



REVOLUTIONARY USER GUIDANCE – 3 CLICKS TO TARGET.

The considerable variety of makes in the automotive industry is a genuine challenge and demands comprehensive vehicle knowledge and diagnostics experience. The more knowledge of vehicle marques and systems that is available in the workshop, the greater the possibility of maximizing capacity utilization. Indeed, the cleverer the diagnostic systems, the better they are for business! The secret behind AVL DiTEST equipment: One of the world's largest vehicle databases for passenger cars, light to heavy commercial vehicles and trailers in just a single diagnostic system. The new AVL DiTEST XDS 1000 diagnostics solution impresses with superior vehicle coverage – from Alfa Romeo to Wabco – and functional, professional testing depths. Troubleshooting the trickiest problems correctly, efficiently and reliably – it's what we know.



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