A tidy affair:
Emission Analysis
Effective **emission analysis** of today’s vehicles

- **BEA 850** – Emission analysis (PC-based)
- **BEA 150 / 250 / 350** – Emission analysis (embedded)
- **BEA 460** – Emission analysis (modular)
- **BDM 298 / 300** – Speed measurement modules
Testing and minimizing pollutant emissions with modular measurement technology – in accordance with the latest legislation and with highest measurement accuracy. The workshop requires robust, future-proof technology to achieve this, with clear operator guidance and simple handling. The emission analysis instruments from Bosch test equipment excel through their easy and timesaving handling. Other particularly important aspects in the daily handling of exhaust-gas analysers are the short run-up times and brief measuring times.

The triumphant progress of the diesel engine
The increasing acceptance of the diesel engine is accompanied by expanded legal requirements for exhaust gas restriction and analysis. Technical innovations helped to significantly reduce the exhaust-gas values of today’s diesel engines. The exact emissions measurement and adjustment by the workshop is increasingly becoming more significant to observe the new legal standards in practice.

Emission analysis for gasoline engines
The future engine for the average consumer will continue to be the gasoline-powered engine. With constantly optimized cleanliness values that can be measured quickly and conveniently using the Bosch emission analysis.

Much more than only an exhaust-gas test
Bosch provides the workshop with the complete spectrum from simple exhaust gas examination up to the complete emission system analysis:
- The exhaust-gas analyser for exhaust-gas examination
- The exhaust-gas diagnostics system for error diagnosis
- The modular expandable exhaust gas maintenance system for the efficient workshop

All devices are highly efficient with customer-conforming documentation of the measurement and diagnostic results. They are all easy to operate. With their modular design, high quality standard and innovative measurement technology, they always offer a future-proof investment.
The exhaust-gas and diagnostics station of the future BEA 850

A variable system for gasoline and diesel vehicles
Testing and minimizing pollutant emissions with modular measurement technology – in accordance with the latest legislation and with high measurement accuracy.

- Optimized for current and future requirements of exhaust tests
- Integrated on-board diagnostics (OBD) with ECU diagnostics testers of the KTS series (KTS 570 / 540 / 530 wireless or 515)
- Integrated on a workshop-compatible trolley
- 4-gas module with optional NO
- Very rapid response time
- Gas detectors with high measurement accuracy and long-term stability
- Simple equipment maintenance by workshop staff
- User-oriented documentation of the measurement and diagnostics results
- Software-controlled integration of older Bosch exhaust-gas analyzers
- Network-compatible (integration in asanetwork)

Exhaust-gas test and diagnostics on a gasoline-engine vehicle

- On-board diagnostics OBD
- Gas values CO, CO₂, O₂, HC, lambda, NO (option)
- Lambda sensor voltage (graphical display)
- Moment of ignition and dwell angle, advance angle
- Speed measurement
- Oil temperature measurement
- Multiple curves: Up to 6 measured variables can be shown simultaneously as a curve: CO, CO₂, O₂, HC, lambda, NO (option), speed, moment of ignition, dwell angle, oil temperature and battery voltage

Exhaust-gas test and diagnostics on a diesel-engine vehicle

- Smoke-opacity testing during free acceleration
- On-board diagnostics OBD
- Continuous smoke-opacity testing
- Start-of-delivery measurement including determination of advance angle, reference angle and reference speed
- Speed measurement
- Oil temperature measurement
- Multiple curves: Up to 5 measured variables can be shown simultaneously as a curve: Smoke opacity, speed, start of delivery, advance angle and oil temperature
BEA 850 with engine speed measurement module **BDM 300**

**Equipment supply**
Trolley, PC, keyboard, mouse, TFT monitor 19", inkjet printer, MTM extended, BDM 300, remote control, BEA 050, RTM 430, sensors (trigger clamp, passenger car temperature sensor, multipurpose test cable, term. 1/term 15 cable), emission test data and, as an option, KTS 570 / KTS 540 wireless or KTS 515

**Special accessories**
Protection hood, ignition stroboscope, temperature sensor for trucks, infrared temperature sensor, clamp-on pulse generator (4.5/5.0/6.0/7.0/10.0/12.7 mm), exhaust-gas probe for cars/trucks, NO retrofit kit, heating hose, clamping device, connecting cable RTM (12 m), adapter cable with change part OBD, adapter cable and connecting cables for clamp-on pulse generator

**Specifications and standards**

**Order number**
BEA 850 with KTS 570 & BDM 300 (Ger) 0 684 120 090
BEA 850 with KTS 540 & BDM 300 (Ger) 0 684 120 089
BEA 850 with KTS 515 & BDM 300 (Ger) 0 684 120 099
BEA 850 without KTS with BDM 300 (Ger) 0 684 120 088
BEA 850 with KTS 515 (UK) 0 684 120 085

<table>
<thead>
<tr>
<th>Technical data</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Dimensions (W x H x D)</td>
<td>680 x 1785 x 670 mm</td>
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<tr>
<td>Weight</td>
<td>approx. 125 kg</td>
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<tr>
<td>Power supply</td>
<td>90 – 264 VAC / 47 – 63 Hz</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>5 °C to 40 °C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Designation</th>
<th>Measuring range</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Exhaust measurement module</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO</td>
<td>0 – 10 % vol.</td>
<td>0.001 % vol</td>
</tr>
<tr>
<td>CO₂</td>
<td>0 – 18 % vol</td>
<td>0.01 % vol</td>
</tr>
<tr>
<td>HC</td>
<td>0 – 9999 ppm</td>
<td>1.0 ppm</td>
</tr>
<tr>
<td>O₂</td>
<td>0 – 22 % vol</td>
<td>0.01 % vol</td>
</tr>
<tr>
<td>NO</td>
<td>0 – 5000 ppm</td>
<td>1.0 ppm</td>
</tr>
<tr>
<td>Lambda</td>
<td>0.5 – 1.8</td>
<td>0.001</td>
</tr>
<tr>
<td>COvrai</td>
<td>0 – 10 %</td>
<td>0.01 %</td>
</tr>
<tr>
<td><strong>Smoke-opacity measurement module</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Degree of opacity</td>
<td>0 – 100 %</td>
<td>1 %</td>
</tr>
<tr>
<td>Absorption coefficient</td>
<td>0 – 10 m⁻¹</td>
<td>0.01 m⁻¹</td>
</tr>
<tr>
<td>Maximum exhaust-gas temperature at:</td>
<td>exhaust-sample probe: 250 °C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>input RTM 430: 200 °C</td>
<td></td>
</tr>
<tr>
<td><strong>Engine measurement technology</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery voltage</td>
<td>0 – 72 V</td>
<td>0.1 V</td>
</tr>
<tr>
<td>Moment of ignition</td>
<td>0 – 60° kW</td>
<td>0.1° kW</td>
</tr>
<tr>
<td>Dwell angle</td>
<td>0 – 100 %</td>
<td>0.1 %</td>
</tr>
<tr>
<td>Oil temperature</td>
<td>-20 – +150 °C</td>
<td>0.16 °C</td>
</tr>
<tr>
<td>Start of delivery/ injection timing</td>
<td>0 – 60° kW</td>
<td>0.1° kW</td>
</tr>
<tr>
<td><strong>Speed, gasoline engine</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BDM (B+/B-)</td>
<td>450 – 6000 rpm</td>
<td>20 rpm</td>
</tr>
<tr>
<td>Terminal 1/TD/TN/EST</td>
<td>100 – 12000 rpm</td>
<td>10 rpm</td>
</tr>
<tr>
<td>Trigger clamp</td>
<td>100 – 12000 rpm</td>
<td>10 rpm</td>
</tr>
<tr>
<td><strong>Speed, diesel engine</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BDM (B+/B-)</td>
<td>450 – 6000 rpm</td>
<td>20 rpm</td>
</tr>
<tr>
<td>Clamp-on sensor</td>
<td>250 – 7200 rpm</td>
<td>10 rpm</td>
</tr>
<tr>
<td>Terminal 1/TD/TN/EST</td>
<td>100 – 12000 rpm</td>
<td>10 rpm</td>
</tr>
<tr>
<td>Trigger clamp</td>
<td>100 – 12000 rpm</td>
<td>10 rpm</td>
</tr>
</tbody>
</table>
Bosch emission analysis for a clean environment – BEA 150/250/350

With the Bosch Emission Analysis BEA, the work-shop is perfectly prepared for all present and future exhaust-gas analysis requirements. The modular layout of the BEA series permits expansion completely in line with individual workshop requirements: For reliable and fast emission measurement of gasoline, diesel and gas engines.

For statutory exhaust test and diagnostics on gasoline and / or diesel vehicles

- OBD function\(^1\)
- Vehicle database\(^1\)
- Additional measurement functions: Lambda sensor voltage, start of delivery, moment of ignition
- Measurement accuracy according to OIML R99, class 0
- Individual devices – gasoline or diesel can be upgraded to complete exhaust test station BEA 350
- Can be networked via asanetwork\(^1\)
- AU-Plus\(^1\)

BEA 150 – for emissions testing on diesel engine vehicles (car, van)

- Portable smoke opacity measurement module RTM
- Very fast measurement (response time)
- Long service life of measuring chamber
- Fast, simple maintenance due to magnetic fasteners
- Optimum flow technology of smoke opacity module

BEA 250 – for emissions testing on petrol engine vehicles

- Calibration only once a year
- Fast maintenance: filter is easily accessible (back)
- Long-term stability due to infrared measurement method with gas detectors as receivers
- Quick measurement readiness on activation

BEA 350 – for emissions testing on diesel and petrol engine vehicles

- Complete exhaust test station
- Optimized price composed of BEA 150 and 250

\(^1\) Dependent on country-specific software

<table>
<thead>
<tr>
<th>Equipment supplied</th>
<th>BEA 150</th>
<th>BEA 250</th>
<th>BEA 350</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suitable for exhaust test on</td>
<td>diesel</td>
<td>gasoline</td>
<td>diesel- and gas. engines</td>
</tr>
<tr>
<td>Bosch Emissions Analysis</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Operating and display unit</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>PC keyboard</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Trolley</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Software process (country-specific)</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Vehicle database(^2)</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Connection cable B+ / B−</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Oil temperature sensor, cars(^2)</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Smoke opacity measuring module RTM 430, with car hose and sensor</td>
<td>✔️</td>
<td>–</td>
<td>✔️</td>
</tr>
<tr>
<td>Exhaust measurement module BEA 050, including hose and sensor</td>
<td>–</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>IR remote control</td>
<td>✔️</td>
<td>–</td>
<td>✔️</td>
</tr>
</tbody>
</table>

\(^2\) Scope of supply Germany
### Special accessories

Vehicle emissions data, sensor holder, NO retrofit kit, printer paper for installed printer, DIN A4 printer, protection hood, BEA 150 / 250 / 350 Edition retrofit kit, tool tray, remote control, sampling probes and sampling hoses for trucks, diesel clamp-on sensor, adapter and connection cables, trigger clamp, ignition stroboscope, oil temperature sensor for trucks, upgrade from BEA 150 / 250 to BEA 350 and OBD upgrade (KTS 115 OBD module)

### Specifications and standards

**International:** OIML-R99 Class 0
**EC:** CE Conformity
**National (D):** EGE guideline dated 23 June 1994 PTB appendix 18.9 for diesel, 18.10 for gasoline

### Order number

- **BEA 150 (Germany / Austria):** 0 684 105 169
- **BEA 250 (Germany / Austria):** 0 684 105 269
- **BEA 350 (Germany / Austria):** 0 684 105 369
- **BEA 150 (Switzerland):** 0 684 105 153
- **BEA 250 (Switzerland):** 0 684 105 253
- **BEA 350 (Switzerland):** 0 684 105 353
- **BEA (EURO diesel):** 0 684 105 170
- **BEA (EURO gasoline):** 0 684 105 272
- **BEA (EURO combi):** 0 684 105 372
- **BEA (Romania diesel):** 0 684 105 160
- **BEA (Romania gasoline):** 0 684 105 260
- **BEA (Romania combi):** 0 684 105 360
- **BEA (Finland diesel):** 0 684 105 158
- **BEA (Finland gasoline):** 0 684 105 258
- **BEA (Finland combi):** 0 684 105 358
- **BEA (France diesel):** 0 684 105 151
- **BEA (France gasoline):** 0 684 105 251
- **BEA (France combi):** 0 684 105 351
- **BEA (Italy diesel):** 0 684 105 152
- **BEA (Italy gasoline):** 0 684 105 252
- **BEA (Italy combi):** 0 684 105 352
- **BEA (Italy motorcycle):** 0 684 105 265
- **BEA (Italy combi for police):** 0 684 105 366
- **BEA (China gasoline):** 1 687 001 537
- **BEA (Netherlands diesel):** 0 684 105 155
- **BEA (Netherlands gasoline):** 0 684 105 255
- **BEA (Netherlands combi):** 0 684 105 355
- **BEA (Poland diesel):** 0 684 105 171
- **BEA (Poland gasoline):** 0 684 105 271
- **BEA (Poland combi):** 0 684 105 371
- **BEA (England diesel):** 0 684 105 161
- **BEA (England gasoline):** 0 684 105 261
- **BEA (England combi):** 0 684 105 361

### Technical data

**Dimensions (W x H x D):** For all BEA variants with trolley 750 x 1370 x 700 mm operating and display unit 470 x 260 x 480 mm

**Weight:**
- BEA 350 (incl. trolley): app. 67 kg
- BEA 250 (incl. trolley): app. 60 kg
- BEA 150 (incl. trolley): app. 7 kg

**Protection classes:** Operating and display unit IP 30 Smoke-opacity measurement module RTM 430 IP 33

**Range of accuracy:**
- +5 °C – +40 °C

**Functional range:**
- +5 °C – +45 °C

**Storage temperature:**
- -25 °C – +60 °C

**Power supply:** 230 V, 50 Hz
The BEA 460 is the ideal introductory tool for the statutory exhaust-gas test. The device was developed in cooperation with an automotive inspection agency and prepares the workshop for all current and future exhaust-gas analysis requirements. The modular concept can be extended to a complete ECU Diagnosis system. Operation is either wireless or by means of a cable connection to a PC or notebook.

**BEA 460 – the modular solution for the exhaust-gas test**

- Impact-protection and robust - for daily use in the workshop
- Manageable and portable device (weight < 15 kg)
- Available with on-board diagnostics (OBD)
- Fast measurement thanks to optimized software
- 4-gas measurement with optional NO
- Simple operation thanks to help function in the software
- Gas detectors with high measurement accuracy and long-term stability
- Semiannual maintenance sufficient
- With portable smoke opacity measurement module RTM 430
- Quick measurement readiness on activation
- Bluetooth connection between BEA 460 and notebook (alternatively, a cable connection is also possible)
- Bluetooth connection between notebook and KTS (alternatively, a cable connection is also possible)

**Equipment supply**

Smoke opacity measurement module RTM 430 incl. exhaust-gas hose and sensor for pass. cars, 4-gas measuring instrument (without OBD) including exhaust-gas hose and sensor for pass. cars, connecting cable for vehicle socket, temperature probe for pass. cars, connecting cable KI1 / TN / TD / EST and B+ / B-, trigger clamp, 2 Bluetooth sticks (for 4-gas device and PC), engine measuring technology (temperature and speed), serial cable (PC / notebook and 4-gas device), serial / USB converter, USB remote control

Additionally available for the version with KTS:
Adaption cable OBD 5 m

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1 PC/notebook not included in equipment supply

2 Not included in the gas model
Component Measurement range Resolution

<table>
<thead>
<tr>
<th>Component</th>
<th>Measurement range</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exhaust measurement module</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO</td>
<td>0 – 10% vol.</td>
<td>0,001% vol.</td>
</tr>
<tr>
<td>CO₂</td>
<td>0 – 18% vol.</td>
<td>0,010% vol.</td>
</tr>
<tr>
<td>HC</td>
<td>0 – 9999 ppm</td>
<td>1,0 ppm</td>
</tr>
<tr>
<td>O₂</td>
<td>0 – 22% vol.</td>
<td>0,010% vol.</td>
</tr>
<tr>
<td>NO</td>
<td>0 – 5000 ppm</td>
<td>1,0 ppm</td>
</tr>
<tr>
<td>Lambda</td>
<td>0,5 – 1,8</td>
<td>0,001</td>
</tr>
<tr>
<td>COvrai</td>
<td>0 – 10% vol.</td>
<td>0,010%</td>
</tr>
</tbody>
</table>

Sensor Measurement range Resolution

<table>
<thead>
<tr>
<th>Sensor</th>
<th>Measurement range</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>-20 – +150 °C</td>
<td>0,16 °C</td>
</tr>
<tr>
<td>Speed, gasoline engine</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BDM (B+/B-)</td>
<td>450 – 6000 rpm</td>
<td>20 rpm</td>
</tr>
<tr>
<td>Terminal 1/TD/TN/EST</td>
<td>100 – 12000 rpm</td>
<td>10 rpm</td>
</tr>
<tr>
<td>Trigger clamp</td>
<td>100 – 12000 rpm</td>
<td>10 rpm</td>
</tr>
<tr>
<td>Speed, diesel engine</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BDM (B+/B-)</td>
<td>450 – 6000 rpm</td>
<td>20 rpm</td>
</tr>
<tr>
<td>Clamp-on sensor</td>
<td>250 – 7200 rpm</td>
<td>10 rpm</td>
</tr>
</tbody>
</table>

Order number

BEA 460 combination without OBD (Ger) 0 684 105 461
BEA 460 combination with int. OBD (Ger) 0 684 105 462
BEA 460 gasoline without OBD (Ger) 0 684 105 465
BEA 460 diesel without OBD (Ger) 0 684 105 467
BEA 460 gasoline Europe without OBD 0 684 105 468
BEA 460 combin. Europe without OBD 0 684 105 469

Technical data

<table>
<thead>
<tr>
<th>Technical data</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Dimensions (W x H x D)</td>
<td>470 x 250 x 400 mm</td>
</tr>
<tr>
<td>Weight incl. sensors and engine measuring technology</td>
<td>&lt; 15 kg</td>
</tr>
<tr>
<td>Operation</td>
<td>via workshop PC or notebook</td>
</tr>
<tr>
<td>Supply voltage power unit</td>
<td>90 – 264 VAC / 47 – 63 Hz</td>
</tr>
<tr>
<td>Service temperature range</td>
<td>5 °C to 40 °C</td>
</tr>
</tbody>
</table>

Specifications and standards

International: OIML-R99 Class 0
EU: CE Conformity
MID certification for the 4-gas device
Certification dependent on country-specific software

Special Accessories
Remote control, NO retrofit kit, retrofit kit for motorcycle exhaust-gas test, sampling hose set for 2-stroke engines, sample probe for trucks, clamping device with telescopic rod, various connecting cables for clamp-on sensor, connecting cable for lambda sensor voltage, trolley

1 already included in delivery with the station wagon models
The practical speed measuring modules
BDM 298 and BDM 300

The engine speed measurement modules BDM 298 and BDM 300 enable speed indication on a wide variety of diagnosis devices from Bosch

- Speed sensing on diesel and gasoline engines
- No lowering of driver cab for commercial vehicles
- Time saved on passenger car / commercial vehicle motors due to simple adaptation

BDM 298
Quick and easy speed sensing via the electrical system. Adaptation and speed detection via battery-cable terminals or cigarette lighter.

Equipment supply
Speed measurement module BDM 298, connecting cable for cigarette lighter, adapter cable with battery-cable terminal

Accessories
Various connection cables available on request

Order number
BDM 298 1 687 023 298

BDM 300
Rapid speed sensing from the structure-borne sound and airborne sound signal of the engine.

Equipment supply
Engine speed measurement module BDM 300, mains adapter, combined sensor, connecting cable for terminal encoder signal (diesel), operating instructions

Accessories
2-stroke / 4-stroke changeover switch 1 687 200 711

Order number
BDM 300 1 687 023 489

<table>
<thead>
<tr>
<th>Technical data</th>
<th>BDM 298</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed range</td>
<td>300 – 6000 rpm</td>
</tr>
<tr>
<td>Number of cylinders</td>
<td>1 – 12</td>
</tr>
<tr>
<td>Engine types</td>
<td>Four-stroke engines</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>9 – 32 V</td>
</tr>
<tr>
<td>Connection options</td>
<td>Cigarette lighter or battery</td>
</tr>
<tr>
<td>Starts measuring</td>
<td>Automatically</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Measurement function</th>
<th>Vehicle type</th>
<th>Speed search range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Idle speed</td>
<td>Pass. car / comm. vehicle</td>
<td>400 rpm – 1200 rpm 1700 rpm – 6000 rpm</td>
</tr>
<tr>
<td>Increased speed</td>
<td>Motorcycle 4 stroke</td>
<td>600 rpm – 1800 rpm 2200 rpm – 8000 rpm</td>
</tr>
<tr>
<td>Idle speed</td>
<td>Motorcycle 2 stroke</td>
<td>900 rpm – 2200 rpm 1800 rpm – 8000 rpm</td>
</tr>
<tr>
<td>Increased speed</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
New! Data Exchange Platform DXP – the efficient workshop software from Bosch

- Networking of all diagnostic devices
- Fast, simple, reliable data exchange between all PC-based testers in the workshop
- Direct activation of the ECU diagnosis (KTS) from every DXP-networked test system
- Central storage of identification data and result records and exchange with the Workshop Management System (WMS)

Once recorded – accessible at any time, and everywhere

DXP from Bosch transfers all vehicle data recorded by a system to all other diagnostic systems integrated in the DXP network. Once identified, input of the license plate number or VIN (Vehicle Identification Number) is sufficient to call up the vehicle data at all workstations. This saves time. All testers from Bosch, Beissbarth and Sicam have networking-capability.

The technical requirements

Any modern PC can be used as a server. Bosch recommends the use of a separate preconfigured server. An interface makes connection to many Workshop Management Systems possible.

Benefits to the workshop

- More efficient due to simplified processes and short setup times
- No duplicated work thanks to one-time vehicle identification
- Easier subsequent identification saves time
- Central access to ECU Diagnosis from every test system
- Customer-friendly through rapid processing of order data and results
- Transparent and service-oriented, standardized test records
- A database for the entire vehicle history with all test results

Minimum requirements for PC or notebook

The software can be installed on every PC in the workshop.

- Dual Core processor
- At least 2 GB main memory
- At least 150 GB hard-disk memory
**Bosch**: bringing you the workshop of the future

For over 120 years, Bosch innovations have been keeping vehicles on the road and getting people to and from their destinations while improving safety and peace of mind along the way.

Bosch Automotive Aftermarket offers workshops and retailers a comprehensive portfolio of products that is unmatched worldwide:

- Efficient diagnostics
- Innovative workshop equipment
- Quick, reliable delivery
- The world’s most comprehensive range of spare parts – including both new and remanufactured
- Workshop concepts to meet every requirement
- Comprehensive training
- Targeted sales and marketing support
- A competent service hotline
- 24-hour online workshop services
- Affordable leasing services for workshop equipment and software

From parts to scheduling, organization and results, our solutions are combined with additional services to ensure your needs will be perfectly met, helping you to maximize your potential.

**Workshop tip:**
The emission analysis from Bosch is exactly tuned to developments in gasoline, gas and diesel drives. Workshops benefit from the know-how, the high market coverage and the extensive Bosch product range – e.g. spark plugs and lambda sensors.

**Diagnostics and parts: you only find both at Bosch.**

Robert Bosch GmbH
Automotive Aftermarket
Business Unit Diagnostics

73201 Plochingen
Germany

www.bosch-diagnostics.com