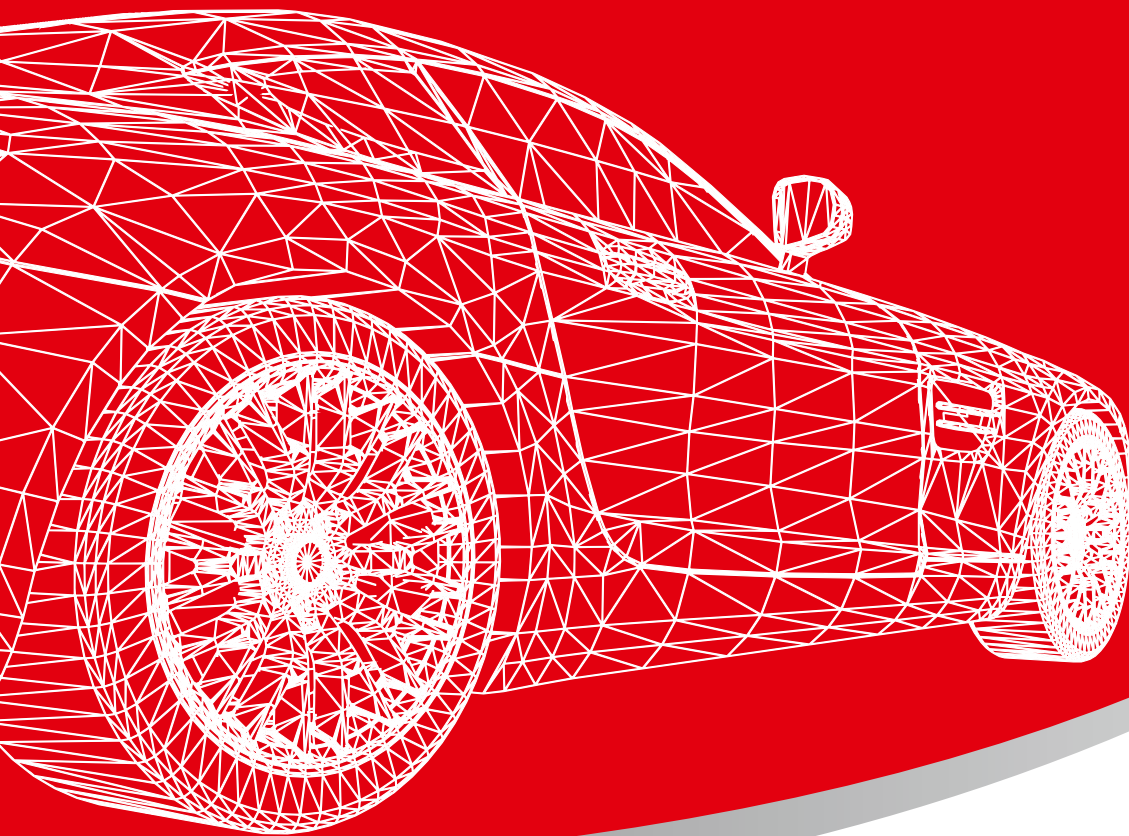


LAUNCH

PRODUCT CATALOG



PROFESSIONAL DIAGNOSTICS
DIY / TESTING
ADAS SERVICE
WHEEL SERVICE
ATF / INJECTOR SERVICE
LIFTS

2/2019



About us

LAUNCH Europe GmbH is an innovative company for automotive workshop equipment based in Kerpen/Germany. The headquarter LAUNCH Tech Co. Ltd was founded in 1992 and is today a global leader in well-known car workshop equipment.

LAUNCH is worldwide leading in the development and distribution of advanced diagnostic systems. Our product family X-431 define a new standard in terms of an excellent price / benefit ratio in the vehicle-diagnostic segment. Even wheel alignment, lifts, maintenance equipment and many other product segments that enable and facilitate the daily work in garages are represented in our large product range. Beside sales support and customer-oriented services also extensive development work will be carried out in our German establishment. LAUNCH currently maintains offices in Europe, Asia, North America, Central and South America and the Middle East. 400 dealers in over 100 countries.



As premium, we offer a two year manufacturer's warranty limited for some official LAUNCH Europe product.



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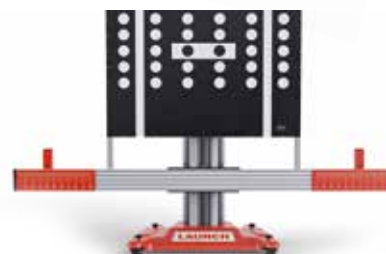
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DIAGNOSTICS



Overview X-431 Series

The X-431 product line by LAUNCH provides professional diagnostic systems with excellent price/performance benefit. Our testers are multi-brand diagnostic tools and can read and clear fault codes of various control devices and relevant components. Take advantage of our solutions in the automotive diagnostics and effectively increase your efficiency.

FEATURES	X-431 EURO TAB II	X-431 EURO PRO 4	X-431 EURO PRO	CRP MOT II
				
OBD I & OBD II / EOBD	✓	✓	✓	✓
ECU Information, VIN	✓	✓	✓	✓
Read / Clear DTC	✓	✓	✓	✓
Live-Data stream	✓	✓	✓	✓
Service reset / match	✓	✓	✓	✓
Online-Feedback	✓	✓	✓	✓
Intelligent Diagnose	✓	✓	✓	—
Actuator test	✓	✓	✓	—
Coding, programming	✓	✓	✓	—
HaynesPro Database	inclusive	optional	optional	optional
ADAS-function	✓	✓	—	—
HD module compatible	✓	✓	—	—
Online-Programming	✓	—	—	—
Scopebox, Sensorbox, Videoscope	✓	—	—	—

✓ - available
— - not available

TECHNICAL DATA				
Operating system	Android	Android	Android	Android
Capacity	64 GB	16 GB + 32 GB	16 GB	16 GB
Display	10.1" IPS	10.1" IPS	8"	7"
Wi-Fi	✓	✓	✓	✓
LAN	✓	—	—	—
Bluetooth	✓	✓	✓	—
USB port	✓	—	—	—
Printer	optional	optional	optional	—
Camera	✓	✓	✓	—
Adaptor Kit	inclusive	inclusive	inclusive	—

✓ - available
— - not available



X-431 EURO PRO



Wi-Fi Printer optional

X-431 EURO PRO is a brand new advanced automotive diagnostic tool based on Android system. It passes on Launch advantages in automotive fault diagnostic technology, such as wide car model coverage, powerful function, abundant special functions and accurate test data.



FEATURES

- Comprehensive diagnostic functions for all systems
- Diagnostic software covers 77 car brands worldwide
- Live Data Stream with standard value
- Powerful reset and service functions
- One-click update online via Wi-Fi
- Integrated search function simplifies the daily work
- Remote diagnosis function

TECHNICAL DATA

Operating system	Android
CPU	1.4 GHz Quad-Core
Display	8" IPS capacitive Touchscreen
Capacity (internal/microSD card)	16 GB, support microSD card up to 128 GB
Battery	4850 mAh
Diagnosis	Bluetooth / USB cable (optional)
Camera	Rear 5 mp



X-431 EURO PRO 4



Wi-Fi Printer optional

X-431 EURO PRO 4, based on Android system, is a new high-end vehicle trouble diagnostic device developed by LAUNCH. It passes on LAUNCH's advantages in diagnostic technology, such as wide car model coverage, powerful test function, abundant special functions and accurate test data. X-431 EURO PRO 4 has "Intelligent Diagnose" and "cloud diagnosis" technology for the first time, which makes the maintenance more intelligent and efficient.

With the Bluetooth connector the X-431 EURO PRO 4 covers most of the car models from Asia, Europe and America and achieves in-depth diagnostic functions even for luxury cars. Existing diagnostic functions include read DTC, clear DTC, read data stream, actuation test, adaptation, coding etc. Also X-431 EURO PRO 4 has more user-friendly high quality industrial design for better protection.

FEATURES

- Comprehensive diagnostic functions for all systems
- Diagnostic software covers 77 car brands worldwide
- Live Data Stream with standard value
- Powerful reset and service functions
- Diagnosis for trucks with additional HD module
- One-click update online via Wi-Fi
- Intelligent search function simplifies the daily work
- Remote diagnosis function

TECHNICAL DATA

Operating system	Android
CPU	1.4 GHz Quad-Core
Display	10.1" IPS capacitive Touchscreen
Capacity (internal/ SD card)	16 GB / 32 GB (Support microSD card up to 128 GB)
Battery	7000 mAh
Diagnosis	Bluetooth / USB cable (optional)
Camera	Rear 5 mp
Size	600 x 170 x 415 mm (L x W x H)
Weight	net. 8 kg





X-431 EURO TAB



X-431 EURO TAB, based on Android system, is a new high-end vehicle trouble diagnostic device developed by LAUNCH. It passes on LAUNCH's advantages in diagnostic technology, such as wide car model coverage, powerful test function, abundant special functions and accurate test data. X-431 EURO TAB has "Intelligent Diagnose" function, which makes the maintenance more intelligent and efficient. With the Bluetooth connector the

X-431 EURO TAB covers most of the car models from Asia, Europe and America and achieves in-depth diagnostic functions even for luxury cars. Existing diagnostic functions include read DTC, clear DTC, read data stream, actuation test, adaptation, coding etc. For professional diagnosis, X-431 EURO TAB supports Scopebox, Sensorbox and Videoscope from LAUNCH. The new docking station can help storing and charging easier.

FEATURES

- Identify the car model by photographing VIN barcode or VIN scanning and check historical maintenance and diagnostic records online
- Supports matching, coding, programming, service lamp resetting, throttle matching, steering angle resetting, brake pad resetting
- Support most of the car models from Asia, Europe and America, such as Maserati, Ferrari, Rolls-Royce, Bentley, Benz, BMW, and Audi
- Support the modules sensor and multimeter, battery detection, oscilloscope and endoscope
- Diagnosis for trucks with additional HD module

Accessories (optional)

- Scopebox
- Sensorbox
- Videoscope
- Truck module HD Box 3

TECHNICAL DATA

Operating system	Android
CPU	2.0 GHz 8 cores
Display	10.1" (1920 x 1200 pixels)
RAM	2 GB
Capacity (internal/ SD card)	64 GB / support microSD card up to 128 GB
Printer	Wi-Fi Printer (included)
Camera	Front 2.0 mp / Rear 8.0 mp
Battery	15000 mAh
Size	305 x 182 x 34 mm



Docking Station
Practical storage for the connector and printer.



X-431 EURO TAB II



X-431 Euro TAB II is a high-end comprehensive diagnostic tool with charging base newly developed on the basis of Android 7.1, with features such as wide vehicle model coverage, powerful diagnostic functions, and accurate test data. It not only inherits all the excellent functions of the previous generation, but also has the new practical features. It supports dual 5GHz Wi-Fi

communication, Protection level is IP65. Particularly worth mentioning is its new Connector Smartbox 3.0.

Smartbox 3.0 is a new generation intelligent diagnostic box with Linux system independently developed by Launch, which supports multiple communication modes (USB, BT, WIFI) and multiple diagnostic protocols (include J2534).

FEATURES

- Identify the car model by reading VIN automatically
- Supports matching, coding, programming, service lamp resetting, throttle matching, steering angle resetting, brake pad resetting
- Support most of the car models from Asia, Europe and America, such as Maserati, Ferrari, Rolls-Royce, Bentley, Benz, BMW, and Audi
- Support the modules sensor and multimeter, battery detection, oscilloscope and endoscope
- Haynes PRO Database (1 year inclusive)
- Diagnostics over Internet Protocol
- Smartbox 3.0: J2534 integrated

TECHNICAL DATA

Operating system	Android 7.1
CPU	2.0 GHz 8 Cores
Display	10.1" (1920 x 1200)
RAM	4 GB
Capacity (internal/ TF card)	64 GB / support microSD card up to 128 GB
Working Temperature	- 10° C ~ 50° C
Camera	Front 8.0 mp / Rear 13 mp
Battery	9360 mAh
Size	320 x 211 x 46 mm

TECHNICAL DATA SMARTBOX 3.0

Dual processor	Cortex – A7 + Cortex – M7
System	Linux
Storage	8 GB
Power supply	DC 9 ~ 36 V
USB	Type B USB 2.0
Bluetooth	BLE 4.0 + EDR
Wi-Fi	Support 2.4 GHz / 5 GHz dual-band
Indicator lamp	5 multifunction indicator lamps
Vehicle connection	J1962 16PIN



Smartbox 3.0
Intelligent diagnostic box with Linux system.



Scopebox

for X-431 EURO TAB, EURO TAB II

FEATURES

- Record und save waveforms, Print stored waveforms
- Extensive library of known good waveforms
- Waveform auto set up on all 4 channels
- Clean signal without interference or potentially damaging feedback
- Including ignition set-up pre-selects
- Ultra-fast capture of "glitch" occurrences with advanced triggers

TECHNICAL DATA SCOPEBOX

Four channel	up to 200 MHz
Single channel	50 MHz
Bandwidth	20 MHz
DC accuracy	± 1%



Sensorbox

for X-431 EURO TAB, EURO TAB II

FEATURES

- Possibility to substitute known good waveforms for intermittent components that cannot be verified
- Contains a library of standard reference waveforms that can be modified by the stroke of a finger
- Sensor simulations: DC Voltage, Fixed frequency, Predefined waveforms, Hand-drawn waveforms
- Integrated multimeter test function: Voltage, Resistance, Frequency

TECHNICAL DATA SENSORBOX

Precision	± 5%
Amplitude range	- 12 to + 12 V
Maximum output current	70 mA
Predefined frequency range	0 to 150 Hz
Square wave signal pulse frequency	0 to 15 kHz



TECHNICAL DATA MULTIMETER

Precision	± 5%
Voltage test	Test range: - 400 to + 400, Input resistance: 10 MΩ
Resistance test	Test range: 0 to 40 MΩ
Frequency test	Test range: 0 to 25 kHz, input resistance: 1000 GΩ, Input amplitude: 1 to 12 V

Videoscope

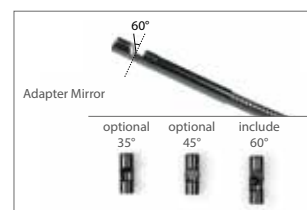
for X-431 EURO TAB, EURO TAB II

FEATURES

- View, record and save images and videos
- Take images easily with the one-click snapshot button
- 4 adjustable LED lights
- Viewable angle: 35°, 45°, 60° C
- Automatic white balance

TECHNICAL DATA VIDEOSCOPE

Flexible camera head	ø 7 mm, length 83 cm, IP67
VGA resolution	640 x 480 and 30 fps
Image sensor	1/12" CMOS
Working temperature	0 to 65° C
Cable length	2 m





HaynesPRO

Professional database for workshop on X-431 Tools



HaynesPRO is the worldwide leader in the production and sale of automotive and motorcycle repair manuals, with a 50-year history of success in automotive publishing.

Which data package is available on LAUNCH diagnostic tools.

HaynesPRO WorkshopData™ - Car Edition-Business Pack (WorkshopData CarTech + CarElectronics).



HaynesPRO WorkshopData™ - Car Edition-Ultimate Pack (WorkshopData CarTech + CarElectronics + CarSmart).



Advantage with LAUNCH tool

1. Integrated function on X-431 units*.
2. LAUNCH customer can test this database for one month free of charge before purchase.



* Available Tools: X431 PRO / X-431 PRO3 / X-431 PRO 4 / X-431 PADII / X-431 EURO TAB, X-431 Euro TAB II



Subscription Renewal Card



The Software update Renewal Card is a new method to update the software of the X-431 diagnosis products made by LAUNCH. With this cards, the customer can update his X-431 diagnosis tool easily and quickly, and the LAUNCH dealers can manage his sales of software updates with more convenience and benefit.



It includes 12 digit numbers.

Scratch or scrap the designated area to reveal the hidden information. Generally it is composed of 24 digit numbers.

Configuration	Supported devices
RENEWAL CARD Passenger Car 1 Year	PRO, PRO 3, EURO PRO 4, PAD II
RENEWAL CARD Passenger Car 2 Year	PRO, PRO 3, EURO PRO 4, PAD II
RENEWAL CARD HD / Passenger Car Plus 1 Year	EURO TAB, EURO PRO HD, HD BOX, EURO TAB II



X-431 EURO PRO HD



X-431 EURO PRO HD is a Commercial Vehicle diagnostic device developed by LAUNCH based on Android system, it makes ECU diagnosis on the vehicle via Bluetooth / Wi-Fi communication or USB connection. Thanks to the continuous software development in Italy, the software function are fast improved to a high and competitive level on the market. It is suitable for 24 V electronic control systems, in the European HD vehicles such as Scania, Man, Volvo, Iveco, DAF, Mercedes, Renault, Isuzu, Hino, Hyundai, Bonluck, etc.

FEATURES

- Fully comprehensive HD truck diagnostic software functions
- Wide diagnostic software coverage and accurate test data
- Update new software version timely to let customers enjoy latest version
- Compatible to truck and pickup with 12 V or 24 V battery system.
- Robust tablet with rugged design suitable for the workshop use.
- Including wide-range connector and cables.

TECHNICAL DATA EURO PRO 4

Operating system	Android
CPU	1.4 GHz Quad-Core
Display	10.1" IPS capacitive Touchscreen
Capacity (internal/ SD card)	16 GB / 32 GB (support microSD card up to 128 GB)
Battery	7000 mAh
Diagnosis	Bluetooth / USB cable (optional)
Camera	Rear 5 mp

TECHNICAL DATA HD BOX 3

Working Voltage	9 V DC – 36 V DC
Test Voltage	DC 12 V
Power Consumption	≤ 3 W
Diagnostic Method	Bluetooth / Wi-Fi / USB
Working Temp.	- 10 °C ~ 55 °C



HD Box 3



The New LAUNCH HD Box 3 is the perfect Add-On-Module for every X-431 PRO 4 and EURO TAB user. It covers light and heavy trucks, buses and heavy-duty vehicles of more than 25 manufacturers. The communication runs via Bluetooth or wire on 12 or 24 volts systems.

Supported Brands

- | | |
|----------------|-------------------|
| ■ COMMINS | ■ MAN |
| ■ DAF | ■ MERCEDES-BENZ |
| ■ DONGFENG | ■ MITSUBISHI FUSO |
| ■ FREIGHTLINER | ■ NEOPLAN |
| ■ HYUNDAI | ■ NISSAN |
| ■ IVECO | ■ RENAULT |
| ■ ISUZU | ■ SCANIA |
| ■ KENWORTH | ■ SETRA |
| ■ MACK | ■ VOLVO |



FEATURES

- Wide-range connector and cable set included
- Permanent online software updates available
- Communicates with ABS of Bendix, Delphi, Knorr and Wabco
- Provides Diesel functions like cylinder compression test, injector test and DPF regeneration

TECHNICAL DATA HD BOX 3

Working Voltage	9 V DC – 36 V DC
Test Voltage	DC 12 V
Power Consumption	≤ 3 W
Communication	Bluetooth / USB
Working Temp.	- 10 °C ~ 55°C



CReader Professional MOT II



CRP-MOT II is a multipurpose tool which provides full OBD II / EOBD diagnostic functions, and 55 vehicle full-system diagnostic software (read and clear DTC, live data), and 11 service functions with Bluetooth diagnostic connector. It is perfect for maintenance service, as well as for the private mechanics.

Service Functions

Brake Reset, Oil Reset, SAS Reset, Battery Reset, Bleeding, Elec. Throttle matching, TPMS Reset, DPF Regeneration, GEAR Learn, Anti-theftmatching, Injector Programming.



TECHNICAL DATA

Operating system	Android 7.0
CPU	1,3 GHz Quad-Core Processor
Display	7" Color Capacitive Touch Screen
RAM	2 GB
Memory / microSD card	16 GB expandable to 32 GB
Battery	3500 mAh
Bluetooth	BT 4.0





J-Box 2



LAUNCH J-Box 2 sets the standard for Pass-Thru Devices. It is compatible with both SAE J2534-1 and J2534-2 reprogramming standards! The J-Box 2 is also compatible with GM's GDS2 and Tech 2 WIN. The high speed (480 Mbps) USB connection is secured by two fasteners, making it a

more robust and secure connection, guaranteeing a proper download every time. Only the Launch J-Box 2 includes J2534 expert support, a 2 year warranty and BMW 20 Pin adaptor.



Robust design with aluminum casing.



Includes OBD II cable & Exclusive BMW 20 Pin connector, 2 year warranty & expert J2534 call in support.

FEATURES & BENEFITS

- | | |
|--|--|
| <ul style="list-style-type: none"> ■ Compatible with both SAE J2534-1 and J2534-2 reprogramming standards ■ Improved future compatibility for ALL makes & models ■ Support for all popular vehicles ■ High Speed USB (480 Mbps) ■ Compatible with the following Windows operating systems: XP, 7, 8 & 10 ■ Robust USB connection via screw fastened 9 Pin D-Sub (guaranteed secure connection) | <ul style="list-style-type: none"> ■ Robust design with aluminum casing ■ Support For GM's GDS2 and Tech 2 WIN ■ VW specific protocols and additional pin switching ■ Chrysler SCI (J2610) ■ Simple status LED indicators ■ 2 year Warranty ■ BMW Proprietary 20 Pin adapter included ■ J2534 expert support |
|--|--|



golo X4



golo X4 is the one who can take better care of your car. It keeps you aware of your car's health, provides you with detailed information (driving track, fuel consumption, etc.) about each itinerary, offers you 24 / 7 Vehicle location monitoring, alerts you when your car is abnormal, etc. After 5 years of development, golo has become the top OBD device in the IoV industry.

Supported Protocols:

OBD II / EOBD standard protocols (except J1850), private protocols, CANBUS protocols, control protocols; ISO 9141-2 (K-line), ISO 14230-4 (CANBUS), ISO 11898 (CANBUS), etc.

FEATURES & BENEFITS

- Multiple systems inspection
- Professional inspection report
- Real-time data collection
- Vehicle anomaly alerts
- Vehicle location monitoring
- Wi-Fi hotspot
- Itinerary management
- Driving behavior record

TECHNICAL DATA

CPU	Quad-Core
Communication Module	LTE-TDD / LTE-FDD / WCDMA
Positioning Module	GPS / LBS / AGPS / Wi-Fi / BT
BT	Support
Wi-Fi	802.11 b / g / n 2.4 G ; Connections ≤ 5
G-sensor	Support
Antenna	Built-in 25 * 25 GPS ceramic chip antenna; Built-in 4G / Wi-Fi / BT antenna
Storage Humidity	< 95 %

TECHNICAL DATA

Working Voltage	DC 9 – 18 V
Working Current	< 180 mA (@DC 12 V)
Operating Temperature	- 20°C ~ +50°C
Standby Current	< 15 mA (@DC 12 V)
Storage Temperature	- 30°C ~ +70°C
Storage Humidity	< 95%
Size	67.6 x 46.9 x 23.7 mm
Weight	< 80 g
Storage	RAM 1GB, ROM 8 GB



Flashpower 120



Flashpower 120 is a line of professional power supplies battery chargers with high performance, compact size and high quality. They are used by garages, car electrician, car dealerships mainly for charge and supply vehicles during all stages of reprogramming, flashing and car diagnosis.



FEATURES

- Charge: the device starts to charge only after battery's connection
- Flashing: It continues to supply 120 A current for 8 hours never ending
- Recovery: the device recover very discharged batteries
- Supply: the device gives current at any time, with or without battery's connection

TECHNICAL DATA

Mains Voltage 50 / 60 HZ	90 – 260 V
Power	1800 W
Output Voltage	12 V
Charge Current	10 – 120 A
Battery Selection	Wet-AGM-Lithium
Charge Capacity	10 – 1200 Ah
Maintenance Capacity	10 – 3600 Ah
Size	350 x 450 x 150 mm
Cables lenght	Standard cables 2.7 m Optional cables 6 m
Weight	8.5 kg (2.7 m cables) / 10.3 kg (6 m cables)



Trolley



New professional multifunction trolley for battery chargers, diagnosis devices and much more, ideal to be used in the workshop during the vehicle's ECU reprogramming in combination with the new Flashpower 120. It provides convenience and flexibility for the daily work of the workshop.

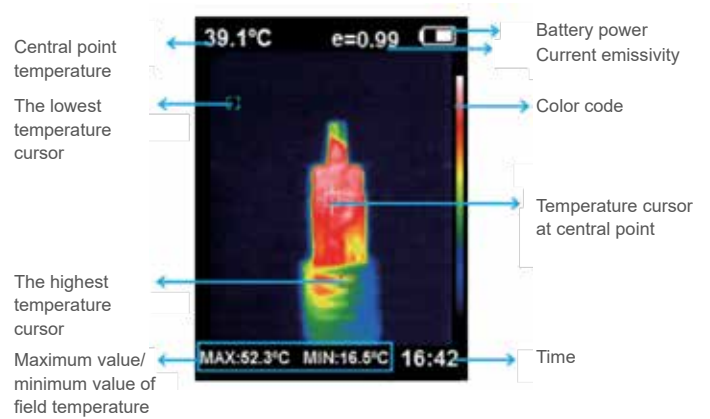


TECHNICAL DATA

Size	1120 x 560 x 540 mm
Weights	25.5 kg



TIT-201



TIT-201 is an infrared thermal imager combining surface temperature measurement and real-time thermal image.

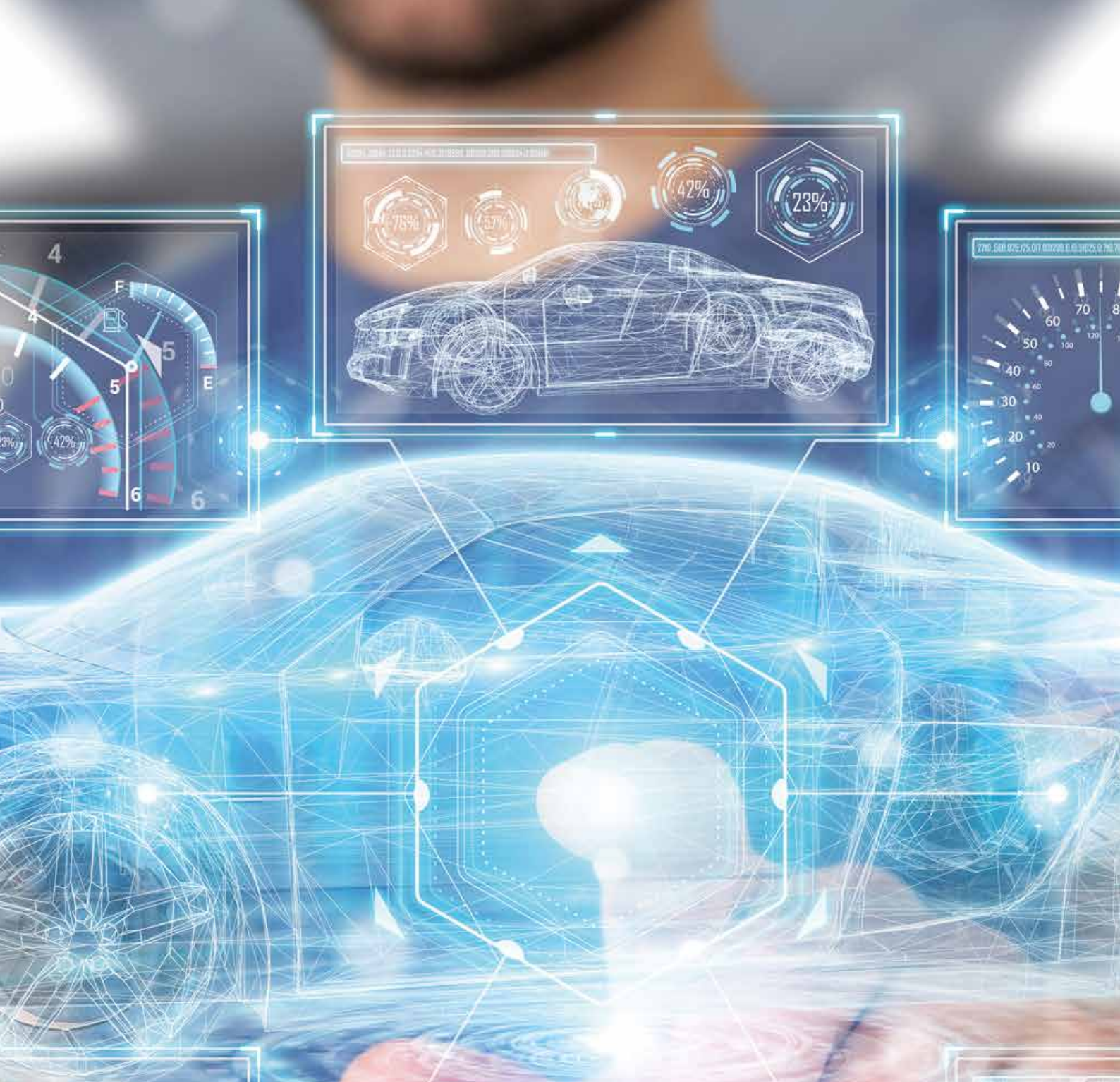
Through the infrared detectors and optical imaging lens, the thermal imager captures infrared ray and other types of rays, converts the radiation information into image, and clearly displays on the color screen, which helps users quickly and accurately locate the center point measurement cursor and measure temperature, thus locating the problem and greatly saving time.

FEATURES

- Visible light combined with infrared images
- 3.2 inch TFT high definition color screen
- Five modulated imaging modes
- Super sensitivity of 0.07 degrees
- Can store 20.000 pictures
- 0.5 m ~ 40 m imaging distance

TECHNICAL DATA

Display screen	3.2 inch TFT display, resolution 240 x 320 pixels
Image storage format	JPG
Storage	Built in 3 GB storage
Color palette	Rainbow, iron red, cool color, black and white, white and black
Visible light camera	300.000 pixels
Infrared image resolution	220 x 160 pixels
Battery	2000 mAh
USB interface	Micro USB 2.0
Temperature measurement range	- 20 to 450 °C (- 4 to 840 °F)



DIY / TESTING



CReader Professional 123 Premium



It's the perfect mix between a code scanner and a skilled mid-line scan tool. With features beyond the usual reading & clearing of fault codes, it takes you to a new level of diagnostics with added capabilities such as enhanced data stream for ABS, SRS, transmission and engine.

FEATURES	Supplied systems	Supplied functions
<ul style="list-style-type: none"> Read & clear fault codes live data engine, ABS, SRS and automatic transmission More than 40 vehicle coverage Test functions: Readiness, status MIL, lambda sensor test, EVAP system test, Freeze Frame, reading the VIN and all OBDII related data 	<ul style="list-style-type: none"> Motor AT Airbag (SRS) ABS 	<ul style="list-style-type: none"> Trouble code reading Clear Trouble code Live-Data

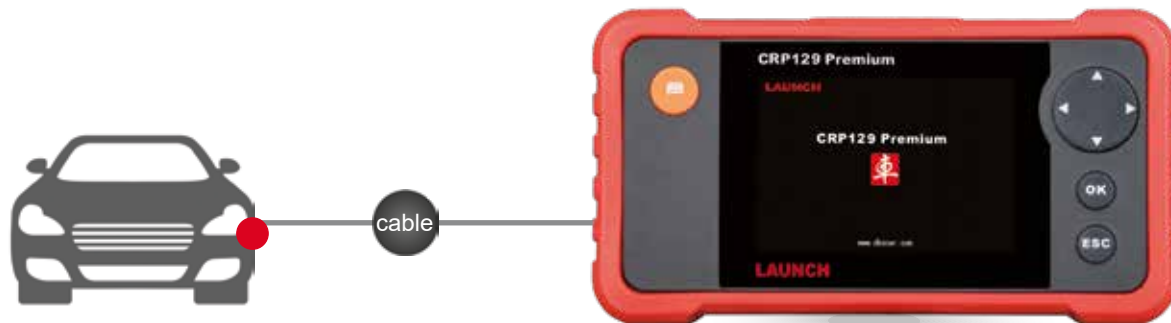
Supported Brands		
<ul style="list-style-type: none"> BMW CHRYSLER CITROËN DACIA DAEWOO FORD (EU & USA) FIAT GM HONDA HYUNDAI 	<ul style="list-style-type: none"> ISUZU (JP) JAGUAR KIA LANCIA LANDROVER LEXUS MAZDA MERCEDES-BENZ MINI MITSUBISHI 	<ul style="list-style-type: none"> NISSAN OPEL PEUGEOT PORSCHE SAAB SUBARU SUZUKI TOYOTA VAUXHALL VOLVO VW

TECHNICAL DATA	
Operating system	Windows CE 5.0
Display	4.0" color display
Connection	Standard 16 pin OBD
Input voltage	9 – 18 V

TECHNICAL DATA	
Update	via internet (USB)
Language	multilingual
Size	188 x 106 x 27 mm
Input voltage	< 350 g



CReader Professional 129 Premium



It's the perfect mix between a code scanner and a skilled mid-line scan tool. With features beyond the usual reading & clearing of fault codes, it takes you to a new level of diagnostics with added capabilities such as enhanced data stream for ABS, SRS, transmission and engine.

FEATURES	Supplied systems	Supplied functions
<p>Read & clear fault codes of engine, ABS, SRS and automatic transmission for more than 40 vehicle brands. Turn off the MIL (check engine light) and display of fault codes in written form.</p> <p>Test functions: Readiness, status MIL, lambda sensor test, EVAP system test, reading of frozen data (Freeze Frame), reading the vehicle identification number and all OBDII related data.</p>	<ul style="list-style-type: none"> Motor AT Airbag (SRS) ABS 	<ul style="list-style-type: none"> Trouble code reading Clear Trouble code Live-Data Reset Function: Oil service, Wheel steering-sensor, Electronic Parking Brake, Battery

Supported Brands			
<ul style="list-style-type: none"> ACURA ALFA ROMEO AUDI BMW CHRYSLER CITROËN DACIA DAEWOO FORD (EU & AUS) FIAT 	<ul style="list-style-type: none"> GM HONDA HOLDEN HYUNDAI INFINITY ISUZU JAGUAR KIA LANCIA LANDROVER 	<ul style="list-style-type: none"> LEXUS MAZDA MERCEDES-BENZ MINI MITSUBISHI NISSAN OPEL PEUGEOT PORSCHE RENAULT 	<ul style="list-style-type: none"> SAAB SEAT SKODA SMART SPRINTER SUBARU SUZUKI TOYOTA VAUXHALL VOLVO

TECHNICAL DATA	
Operating system	Windows CE 5.0
Display	4.0" color display
Micro SD card	4 GB, extendible to 32 GB
Connection	Standard 16 pin OBD

TECHNICAL DATA	
Input voltage	9 – 18 V
Language	multilingual
Size	188 x 106 x 27 mm
Weight	< 350 g



CReader Professional 129 EVO



The CRP 129 EVO is an intelligent and networkable diagnostic tool based on Android. It has the OBD full functions that best meets the entry-level market demand for passenger cars, as well as the basic diagnostic functions of the four basic systems: engine, automatic transmission, ABS and SRS. Besides, the CRP 129 EVO also has the most commonly used service reset functions, such as oil lamp reset, electronic brake pad reset,

battery reset, steering angle reset, throttle matching, diesel particulate filter reset and injector programming.

Compared with the previous CRP, it has more features. The software can be updated from device via Wifi directly, no need to connect to PC update tool. It supports the feedback function which helps the diagnostic problem to be solved quickly.

FEATURES

- Full OBD II functions
- Data record and replay
- DTC read and clear, Livedata of 4 systems (Engine, AT, ABS, SRS)

FUNCTIONS

- 7 service functions: Oil lamp reset, Electrical parking brake reset, Battery management system reset, Steering angle sensor reset, Diesel particulate filter reset, Injector programming, Throttle matching
- Diagnostic report
- Feedback function
- Multilingual
- Software online update

TECHNICAL DATA

Operating system	Android
CPU	1.5 GHz
Display screen	5 inch 720 P IPS touch screen
Memory	1 GB
Storage	8 GB
Battery	4000 mAh lithium battery
OBD II input voltage	9 V ~ 18 V
DC input voltage	5 V
Storage temperature	- 20 ~ 70 °C
Working temperature	- 10 ~ 50 °C
Size	228 x 125 x 34,5
Weight	565 g





CReader Professional Series

Multipurpose diagnostic tools with full system vehicle software



CRP S1 is an entry-level personal car maintenance tool. It meets all OBD II / EOBD communication agreements, provides the commonly-used diagnostic functions.



CRP S5 is a multipurpose tool which provides full OBD II / EOBD and 5 vehicle full-system diagnostic functions (read and clear DTC, live data), plus 5 always useful service functions. It is suitable for DIYers to services the cars of the whole famaly.



CRP S7 is a multipurpose tool which provides full OBD II / EOBD and 5 vehicle full-system diagnostic functions (read and clear DTC, live data), plus 7 always useful service functions. It is suitable for DIYers to make service to whole family cars.



CR 701 & 701P has a series of functions and each product provides full OBD II / EOBD diagnostic functions and one or multiple reset functions to meet different requirements.



CR 981 is a small car maintenance tool integrating OBD diagnostic functions with 11 maintenancefunctions.

FUNCTIONS	CRP S1	CRP S5	CRP S7	CR 701	CR 701P	CR 981
OBD functions	✓	✓	✓	✓	✓	✓
Full-system diagnosis		✓	✓			
Data record and replay	✓	✓	✓	✓	✓	✓
Oil reset		✓	✓	✓	✓	✓
Electric parking brake reset		✓	✓		✓	✓
Battery management system reset		✓	✓		✓	✓
Steering angle sensor reset		✓	✓		✓	✓
ABS brake beeding reset		✓	✓			✓
Diesel particular filter reset			✓		✓	✓
Injector programming			✓			✓
Vehicle diagnostic software		5	5			
Prints data via PC	✓	✓	✓	✓	✓	✓



CReader V+

The LAUNCH CReader V+ is an affordable diagnostic tool, suitable for: DIYers / hobby mechanics.

With this diagnostic tool you get access to the engine and can read and clear all (generic and manufacturer specific) OBD II codes easily.



Monitor status	
MIL Status	ON
DTCs in this ECU	1
Readiness Completed	5
Readiness Not Completed	2
Readiness Not Supported	3
Datastream Supported	26
Ignition	Spark
Protocol Type	CAN

Main Menu	
Diagnose	
DTC Lookup	
Tool Setup	
Help	

Language	
Deutsch	
Français	
English	
Italiano	

FEATURES

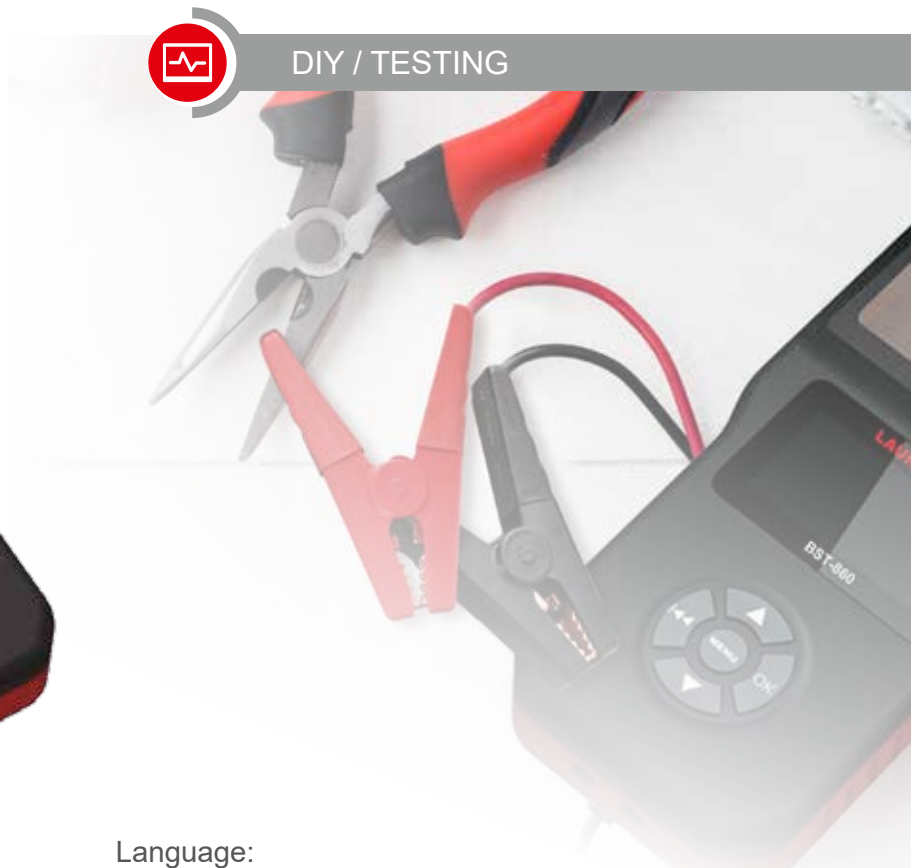
- 320 x 240 pixel 2.4" TFT QVGA LCD display
- DTC's showing as cleartext
- Comprehensive database with over 1,000 DTC's
- Intuitive interface with 6 buttons
- Stand-alone device (no laptop necessary)
- Plug & Play: power supply by OBD connector
- Firmware updates online via USB
- Languages: English, German, French
- Size: 120 x 75 x 20 mm
- Weight: 200 g

FUNCTIONS

- OBD II / EOBD diagnosis (engine): read & clear DTC's.
- Check DTC in an internal database by input the DTC manually.
- Freeze Frame Function for reading Freeze Frame Data.
- View Live Data, while driving possible as well.
- Record Live Data.
- Special Tests: I / M Readiness, MIL Status, O2 Sensor Test, EVAP System Test
- If supported by the vehicle: VIN (vehicle identification number)
- Graphing up to 2 Live Data streams simultaneously



BST-860



The new BST-860 battery tester system with integrated printer offers a complete solution for testing 6 V, 12 V and 24 V batteries and related electrical systems and giving the report to customers.

Language:

European Configuration A: English, German, Italian, French, Polish, Russian

European Configuration B: Dutch, Swedish, Finnish, Turkish, Danish, Norwegian

European Configuration C: Romanian, Bulgarian, Serbian, Slovak, Czech, Hungarian

FEATURES

- A variety of applicable vehicle types, battery types and calibration system
- The battery and circuit system can be detect simultaneously
- The battery test result is quick and accurate (with in 3 sec.)
- Results of the battery test: „Good“ or „To replace“.
- Available to the batch inspection of battery by testing continuously and repeatedly
- Support Automatic temperature compensation function
- Large screen with backlight and user-friendly interface
- Support multiple languages menu
- Built-in thermal printer
- The USB port can export service records

TECHNICAL DATA

Display	4-line graphic LCD-Display with backlight
Test Cable	80 cm standard cable
Working temperature	- 18 ~ 50 °C
Dimension	188 x 95 x 41 mm
Weight	450 g
Case material	ABS acid-proof plastic, industrial case design, suitable for repair workshops

TEST RANGE

CCA	100 ~ 2000	JIS	26A17 ~ 245H52
DIN	100 ~ 1400	CA	100 ~ 2000
EN	100 ~ 2000	MCA	100 ~ 2000
IEC	100 ~ 1400	BCI	100 ~ 2000
SAE	100 ~ 2000	GB	30 Ah ~ 200 Ah

Applicable Vehicle

Car, motorcycles, lawn mowers and other gardening machines, Group 31, commercial vehicles 4D / 8D.

Applicable battery types

6 V, 12 V and 24 V batteries (Lead-acid battery, gel battery and AGM battery).



 **ADAS SERVICE**



X-431 ADAS PRO



X-431 ADAS PRO is the latest automotive ADAS camera and radar calibration equipment developed by LAUNCH. With the LAUNCH professional diagnosis tools, you can simply do the job of calibrating of camera- and radar-based ADAS systems. The ADAS Software from LAUNCH diagnostic device allows the operator to locate the camera calibration panels

and the radar reflector panel in the correct position to ensure the system calibration to be carried out quickly and accurately. X-431 ADAS PRO is suitable for the auto body shop, glass service shop and professional workshop, to provide the professional recalibration for the ADAS camera and radar, when the sensors have been removed, replaced or repaired.

FEATURES

- The modular structure and useful accessories enables you to configure the tool in the best way to suit your workshop
- Easily and precisely adjust calibration frame to ensure vehicle is correctly centered
- Can be used even without an axial measuring system
- Multiple calibration function, wide car model coverage
- Wide range of vehicle-specific calibration panels are available
- Provide the instruction before beginning a calibration procedure
- Professional special function of ADAS system in LAUNCH diagnosis software

Compatible Diagnosis Equipment



X-431 EURO PRO 4



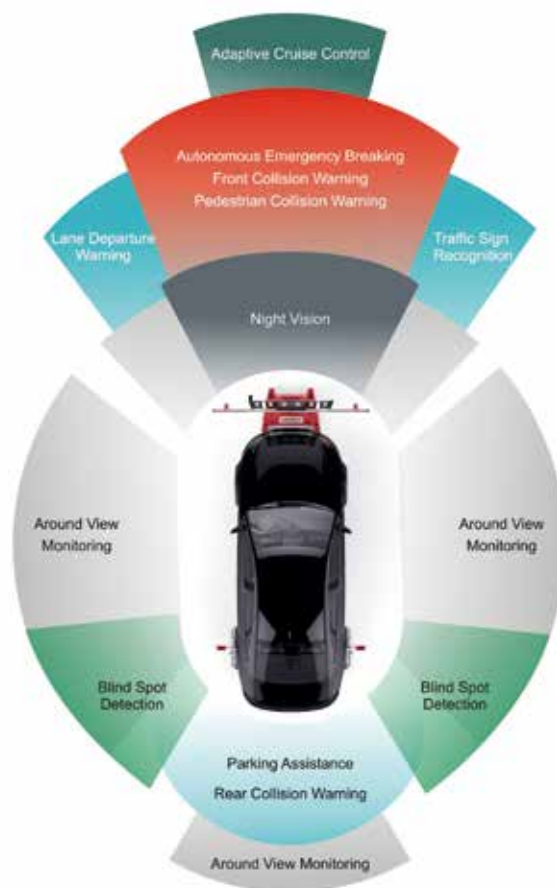
X-431 EURO TAB



X-431 EURO TAB II



ADAS Functions



Supported Brands

- | | |
|-------------|-----------------|
| ■ ACURA | ■ MAZDA |
| ■ AUDI | ■ MERCEDES-BENZ |
| ■ BMW | ■ NISSAN |
| ■ CADILLAC | ■ PEUGEOT |
| ■ FORD | ■ RENAULT |
| ■ HONDA | ■ SMART |
| ■ HYNDAI | ■ SUBARU |
| ■ INFINITI | ■ TOYOTA |
| ■ KIA | ■ VOLVO |
| ■ LANDROVER | ■ VW |
| ■ LEXUS | ■ more |

Front Panels Standard KIT (optional)

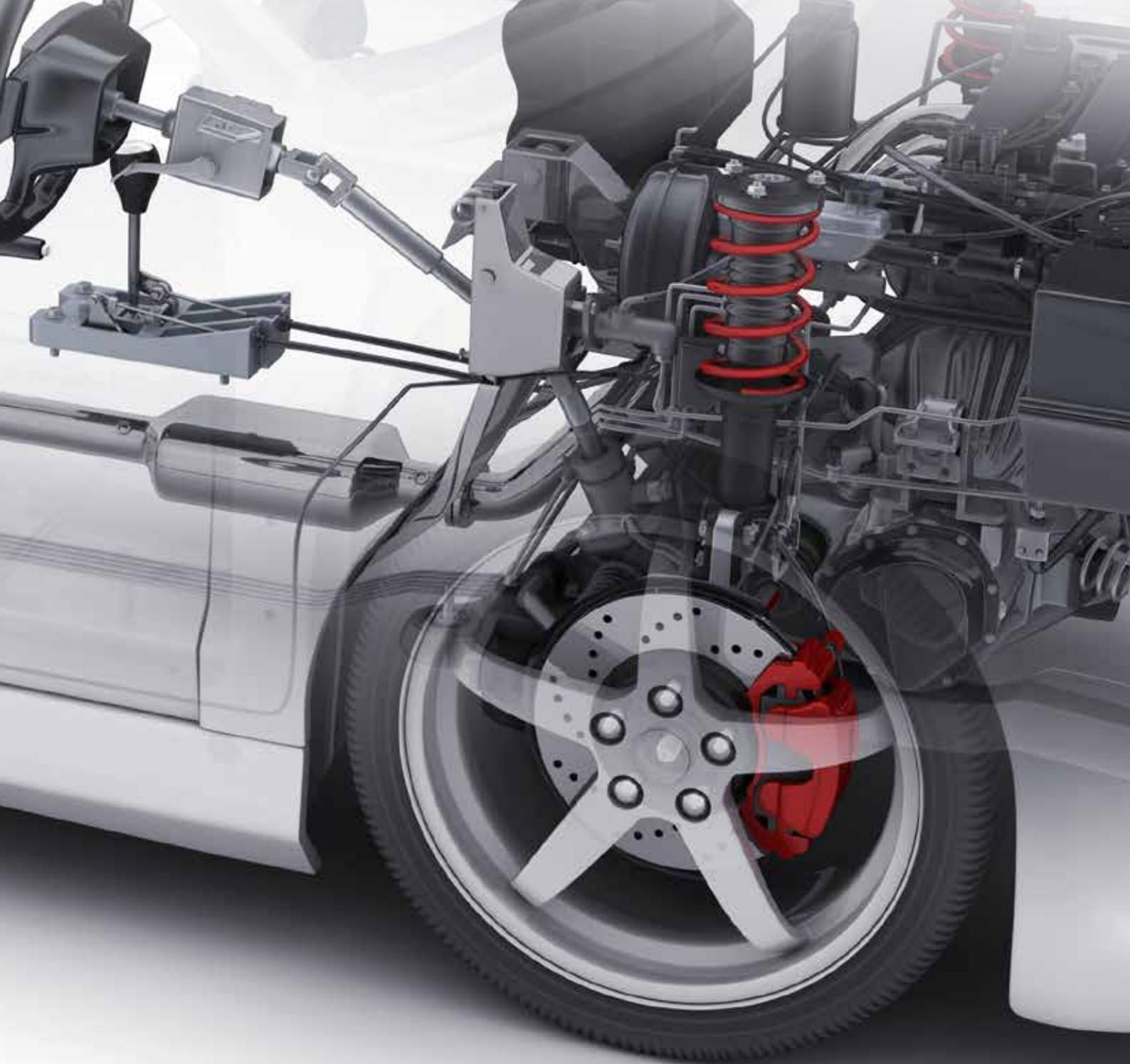
- Mercedes-Benz Front Camera Panel (LAC01-01)
- Honda Front Camera Panel-1 (LAC01-03)
- Honda Front Camera Panel-2 (LAC01-04)
- Toyota Front Camera Panel (LAC01-06)
- Nissan Front Camera Panel-1 (LAC01-07)
- Nissan Front Camera Panel-2 (LAC01-08)
- Kia / Hyundai Front Camera Panel-1 (LAC01-09)
- Mazda Front Camera Panel-1 (LAC01-10)
- Alfa Giulia Front Camera Panel (LAC01-11)
- Mazda Front Camera Panel-2 (LAC01-16)

Allaround Panels (optional) / Rear Panels (optional)

- MERCEDES-Rear Camera Panel (LAC02-02)
- VW-Rear Camera Panel (LAC02-03)
- VW-Around View Monitor Panel (LAC04-04)
- MERCEDES-Backup Camera Panel (LAC04-08-01)
- MERCEDES-Backup Camera Panel (LAC04-08-02)
- RENAULT-Around View Monitor Panel (LAC04-10-01)
- RENAULT-Around View Monitor Panel (LAC04-10-02)
- CADILLAC-Around View Monitor Panel (LAC04-06)
- FORD-Around View Monitor Panel (LAC04-07)

Front single Panels (optional)

- Volkswagen / Audi Front Camera Panel (LAC01-02)
- Renault / SMART-Front Camera Panel (LAC01-12)
- Dahaitsu Front Camera Panel (LAC01-14)
- Subaru Front Camera Panel (LAC01-15)
- Honda Front Camera Panel-3 (LAC01-17)



WHEEL SERVICE



Pilot TPMS

Pilot TPMS is a professional diagnostic tool that integrates the passenger vehicle's basic diagnostic functions, common special functions and TPMS sensor activation, reading, programming (LAUNCH RF-Sensor) and learning. It activates reading tire pressure information via low-frequency or high-frequency reception signals and resets the TPMS module by OBD interface. It can achieve full-model, full-system automotive fault diagnosis, and has 6 kinds of commonly used service and reset functions. It is a brand-new TPMS diagnostic tool with strong competitiveness.



FEATURES

- Cover more than 30 imported vehicle brands
- Full-system, basic-function diagnosis
- Automatic VIN identification
- OBD full-function diagnosis
- TPMS functions (full functions with LAUNCH RF-Sensor)
- 6 Service functions
- One-click upgrade
- Automatic creation and QR code sharing of diagnostic report
- Diagnostic Feedback

TPMS Functions

- Sensor Activation
- Sensor Programming
- Sensor learning



Position	ID#(EX)	Psi	MHz	T	Battery
FL	02018518	0.1	433	82	NA
FR	02018519	2.5	433	82	NA
RL					
RR					



Position	ID#(EX)	Psi	MHz	T	Battery
FL	02018518	0.1	433	82	NA
FR	02018519	2.5	433	82	NA
RL					
RR					

Sensor manufacturers: Germany
Sensor frequency: 433MHz
Sensor number: 50050031AC
Learning type: A/D

Learning steps

1. starting from the left front, use the TPMS tool to activate each sensor in turn according to the left front, right front, right rear, left rear and full size spare tire (if there is).
2. turn on the ignition switch (ignition switch to "ON" or "RUN" position, the engine is off).
3. link TPMS tool to OBD II interface uses sensor learning function to write sensor ID. Keep the ignition switch in "ON" position and activate each sensor in turn.

Diagnostic Functions

- Full-system: read, delete fault code, live stream

Service Functions

- ABS Bleeding
- Organic oil reset
- Brake pad reset
- Battery matching
- DPF regeneration
- Steering angle reset



RF-Sensor



LAUNCH RF-Sensor is an universal TPMS sensor that covers 95 % of OE Parts. As a radio frequency sensor it can be programmed by Pilot TPMS and used to replace the OE Sensor of the car. It's a convenient and powerful solution for the service shops that provide TPMS service.

FEATURES

- Single SKU for: Universal OE replacement (> 95 % OE coverage), multi-band protocols (315 MHz / 433 MHz), Aluminium & rubber systems
- Over-the-air programming
- Can program before or after tires' mounting
- 5+ years battery life

Sensor Activation

- Cover more than 95 % models with tire pressure system
- Activate all 315 MHz / 433 MHz sensors
- Read, copy and write sensor ID
- Read tire pressure data, including pressure, tire temperature, battery state

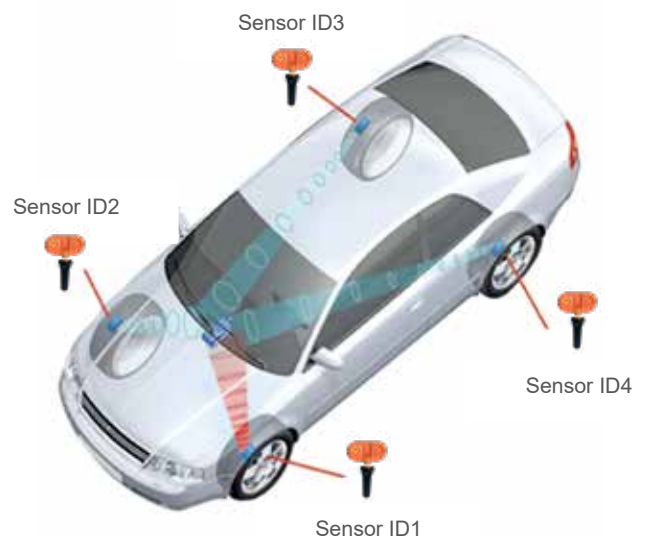
TPMS – OTA Over-the-Air Programming



RF-Sensor



Pilot TPMS



The first image shows a 3D model of a car's front end with a digital display showing 'X-ray' and '3D'.

The second image shows a close-up of a wheel with red laser lines indicating alignment.

The third image shows a diagram of a car chassis with alignment data:

- Top Left: 1.1° 0.1" 0.1" 1.1"
- Top Right: 0.1° 0.1" 0.1" 0.1"
- Bottom Left: 1.1° 0.1" 0.1" 1.1"
- Bottom Right: 0.1° 0.1" 0.1" 0.1"
- Center: 0.1° 0.1" 0.1" 0.1"
- Left Side: 1.1° 0.1" 0.1" 1.1"
- Right Side: 0.1° 0.1" 0.1" 0.1"

- Easy to measure, greatly reduce the work frequency and intensity (unnecessary to mount and demount the wheel clamps and the targets)
- Greatly increase the measurement work efficiency (unnecessary to perform the vehicle-pushing compensation operation)

- 34



X-931 Contactless structures



2 mechanical turntables



4 measurement unit assembly

Contactless Measurement Systems

- No need to fix clamps and targets
- No need to push vehicle for compensation
- No lifting height limit
- Real contactless measurement, no any injury to the wheel rim



MEASUREMENT PARAMETERS

Total Toe-in	$\pm 20^\circ$
Individual Toe-in	$\pm 10^\circ$
Camber	$\pm 10^\circ$
Caster	$\pm 20^\circ$
Kingpin inclination	$\pm 20^\circ$
Thrust Angle	$\pm 5^\circ$

TECHNICAL DATA

Wheelbase	For passenger vehicle and light commercial vehicle, from 1800 mm to 3750 mm
Input Voltage	100 ~ 220 V AC (10 A)
Input Frequency	50 ~ 60 Hz
Power	0.5 kW



X-861 3D Wheel Aligner



X-861 3D Wheel Aligner is a new advanced wheel aligner from LAUNCH. With high accuracy X-861 is easy to start wheel alignment measurement based on concise operation instruction. With its movable high-speed camera system it is very suitable to operate at different working station and makes the alignment job faster. X-861 European version uses European computer, printer and database, which can help the customer to get the fast support in Europe.



4 Targets



2 Infrared LED Cameras

FEATURES

- | | |
|---|---|
| <ul style="list-style-type: none"> ■ By using 3D measurement technology, measure is more accurate and more stable ■ Equipped with the high-speed camera system ■ Smart measurement with fully automatic tracking and moving function according to the height of the lift | <ul style="list-style-type: none"> ■ Less fault because of the non-electronic targets on wheel ■ Unnecessary to calibrate ■ Easy to operate by using user-friendly software interfaces |
|---|---|



X-861 3D Wheel Aligner

Software Interfaces



MEASUREMENT PARAMETERS

Total Toe-in	$\pm 20^\circ$
Individual Toe-in	$\pm 20^\circ$
Camber	$\pm 12^\circ$
Caster	$\pm 25^\circ$
Kingpin inclination	$\pm 25^\circ$
Flinch Angle	$\pm 10^\circ$
Thrust Angle	$\pm 10^\circ$

TECHNICAL DATA

Input Voltage	220 V AC (10 A)
Input Frequency	50 ~ 60 Hz
Power	0.5 kW

Software Language

- | | |
|--|---|
| <ul style="list-style-type: none"> ■ English ■ German ■ French ■ Italian ■ Spanish ■ Russian | <ul style="list-style-type: none"> ■ Polish ■ Portuguese ■ Traditional Chinese ■ Simplified Chinese ■ Japanese ■ Korean |
|--|---|

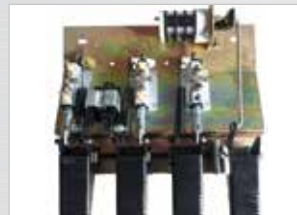


TWC-521



TWC-521 has very strong structure, flexible operating mechanism, and high-quality electrical and pneumatic parts, which achieve the high reliability. With the Multi-joint help arm, it makes the tire changing process very simple and safe.

FEATURES



Metal pedal system is more stable and stronger.



Single way bead breaking cylinder save 30 % air and electric energy.



The air guider inside adopt 3 level rubber ring, with better designed sealing system.



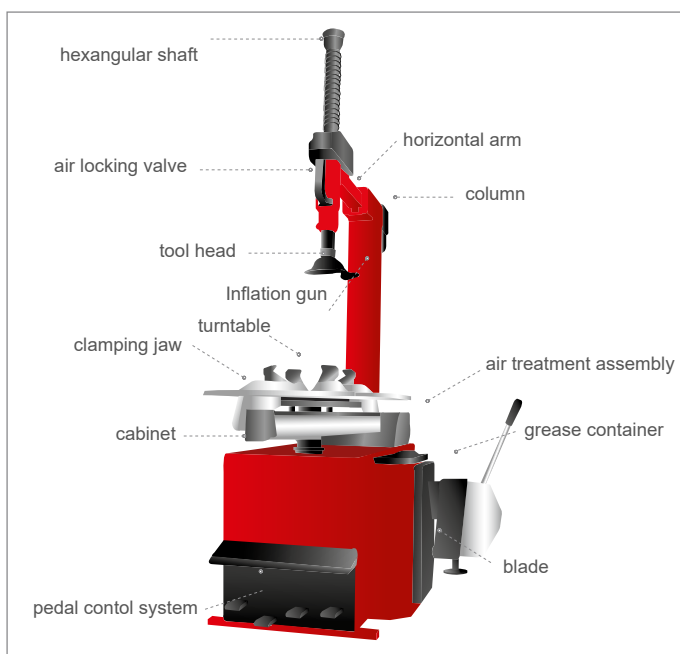
Inside gear system using the rare oil to protect the whole system and to avoid infuse the oil frequently.



Turntable Cylinder 360 kg maximum clamping power



Bead breaking system (6 mm plastic protector) with new structure better for big size tire.





Assistant Arm

for TWC-521

This special assistant arm can effectively make the assembly of the tire more convenient, greatly save the working time.

- Strong structure
- Multi-joint
- Multiple fixing tool
- Flexible position movement
- Pneumatic control



TECHNICAL DATA

Input Voltage Options	380 V
Working Pressure	0.8 – 1 MPa
Inner clamping range	12 – 24"
Outer clamping range	10 – 22"
Wheel Width	4 – 13"
Working Table Size	9 – 24"

TECHNICAL DATA

Max. Wheel Diameter	1050 mm
Bead breaker force	2500 kg
Mounting speeds	6 – 13 rpm
Compressed air connection	8 – 10 bar
Noise level	70 dB (A)





KWB-521



KWB-521 has the high measurement accuracy, a user-friendly operation process, and many advanced functions specially for alloy rim. It can make the semi automatic 3 parameter measurement and indicate the fix position by laser. The "Hide weight" special function can place the lead weights invisibly on the rim.

FEATURES

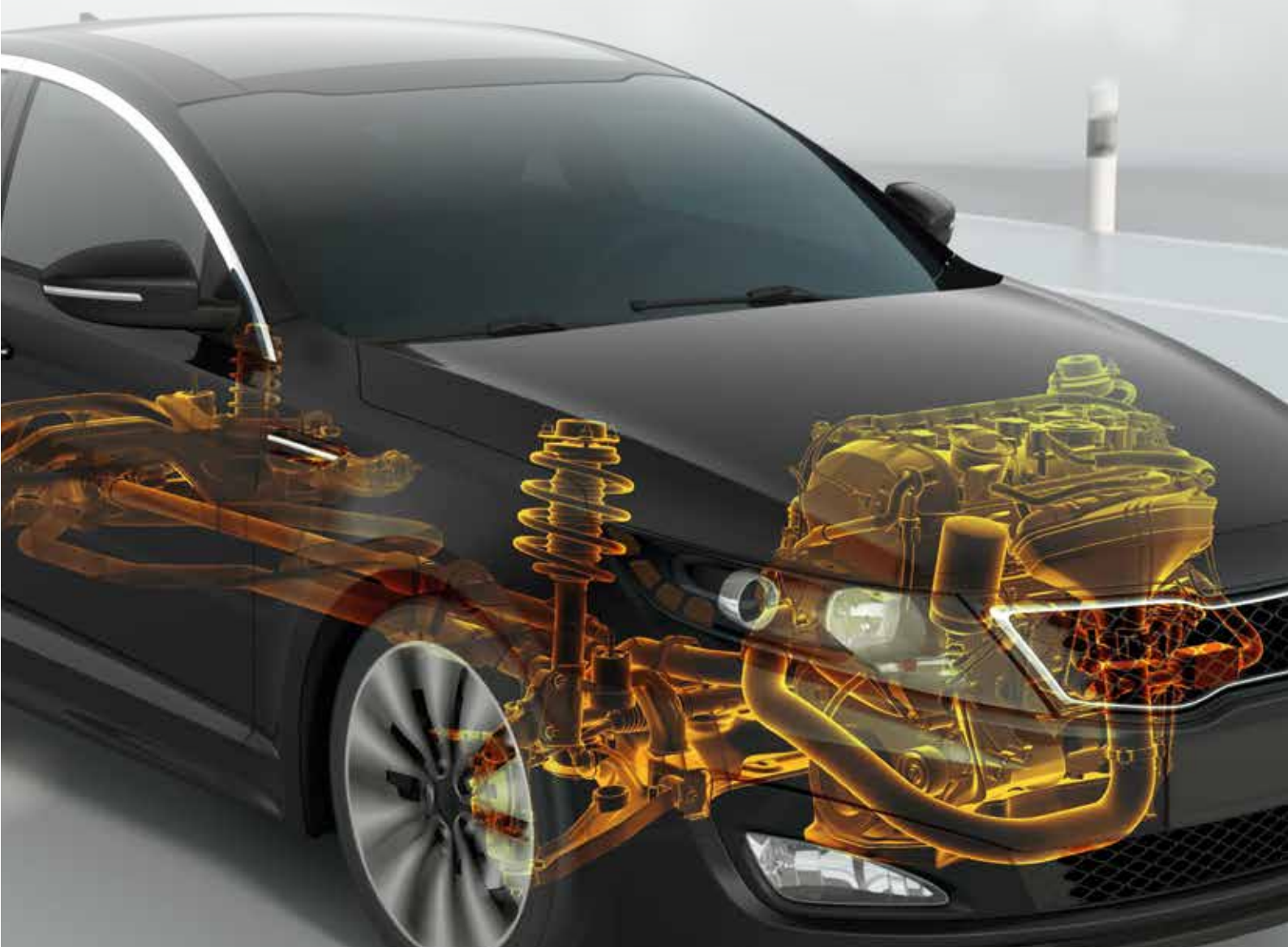
- Automatic measuring of the distance, rim diameter and rim width
- High accuracy and sensibility ± 1 gr
- Dynamic, static, aluminium programs, aluminium weight optimizing and hidden weight
- Weight position indicated by Laser
- Automatic start-stop
- Simple process for exact calibration

TECHNICAL DATA

Working Voltage	220 V
Rim Diameter Range	12 – 24"
Max. Wheel Diameter	650 mm
Wheel Width	1.5 – 22"
Max. Wheel Weight	75 kg
Tolerance of measure	± 1.0 g
Measuring time	7 s
Measuring speed	180 rpm
Motor Power	0.75 kW

User-friendly Interfaces





ATF / INJECTOR SERVICE



CAT-501S



Cleaning and maintenance of the entire transmission system: easily and quickly with just one device.

The CAT-501S offers a range of automatic functions that supply the transmission expert with a simple tool to exchange the transmission fluid. The CAT-501S may be used in a manual operation as well.

FEATURES

- Directly filling of detergent
- Type of transmission fluid can be chosen by viscosity
- Including a printer and illuminated sight indicator of used and new fluid

FUNCTIONS

- Oil exchange and level adjustment
- Print out the procedure and more vehicle data
- Monitoring of oil temperature
- Monitoring of oil pressure
- Empty fluid tank without taking it out

TECHNICAL DATA

Power supply	AC 220 V / 50 Hz
Max. power	150 W
Pressure gauge	0 – 200 psi
Fluid outlet hose / fluid return hose	2500 mm
Fluid draining hose	Standard: 3000 mm Optional: 5000 mm

TECHNICAL DATA

Fluid tank	2 x 20 l
Equivalent exchange error	± 100 ml
Mean exchange speed	2 l / min
Noise	< 70 db
Size	590 x 700 x 1037 mm
Weight	78 kg



Adapter Kit I, II, III

for CAT-501S



This optional set of connectors includes some connectors especially for the European market. Buy all three kits and get a box storage for free!

- The Kit can be fastened on a wall.
- Incl. connectors for Audi Q5 and Q7, BMW, Chrysler, Fiat, Ford, GM, Honda, Hummer, Lexus, Mercedes-Benz, Mitsubishi, Opel, Toyota, Volkswagen, Volvo

ATF Database



Adaptation-Database for
ATF-change with the CAT-501S.

ATF Adapter European Pack

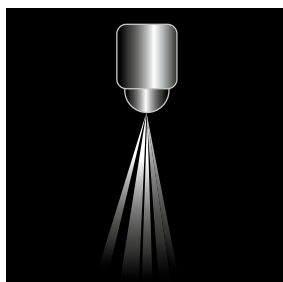


This ATF Service Adapter European Pack is designed for easily to connect the ATF Exchange equipment with the Automatic Transmission of cars. The adapters are designed and selected by the experienced AT service mechanics and cover most AT in European cars, including DSG, AISIN, CVT, etc. In addition, it includes more hoses in different size and also some spare O-ring for replacement. All adapters are sorted in the slot of plastic box with the using instruction. It is easy to carry, use, and store.

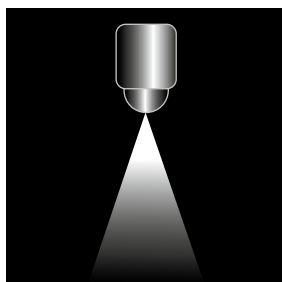




CNC-602 A



before cleaning



after cleaning



Injector cleaner and tester makes full use of both ultrasonic cleaning and micro-computer controlling technology.

+ Accessories

- Pulse signal connection cable (two sizes: 0.5 & 0.8 m)
- Ultrasonic cleaner assembly
- Reverse flush adaptor

FEATURES

- Perform simultaneous cleaning on several injectors and remove the carbon deposits on the injector completely
- Test the uniformity of injecting amount of each injector and monitor the spraying status of each injector with the help of backlight; this test is also for reverse flush
- Test the sealing and dribbling conditions of injectors under system pressure
- Check the injecting amount of the injector in 15 seconds of constant injection
- Test injectors by simulating different working conditions.
- Equipped with various adaptors and couplers

TECHNICAL DATA

Power supply	AC 220 V / 50 Hz
Input power	250 W
Range of pressure adjustment	0 ~ 0.65 MPa
Length of pressure adjustment	0.004 MPa
Range of simulating test:	10 ~ 9999 rpm

TECHNICAL DATA

Step length of simulating test	10 rpm
Timing range	1 ~ 9999 s
Volume	2500 ml
Size	385 × 410 × 500 mm
Weight	35 kg



GS4



Low-pressure GDI solution

The proven workshop solution for GDI fuel injector service. It is efficient and cost-effective for normal workshop.

FEATURES

- | | |
|--|---|
| <ul style="list-style-type: none"> ■ G-DI Capable ■ Spray test ■ Volume test ■ Automatic function ■ Fully customizable ■ Engine Simulation Tests ■ Automatic Drain of tubes ■ Injector Protection circuit ■ Fast mounting | <ul style="list-style-type: none"> ■ Ease of use ■ Test plans ■ Repeatability ■ Reverse flush ■ Adaptability ■ On-display guide ■ Quality and robust ■ Language Localization ■ Upgradeable |
|--|---|

+ Application

- G-DI / FSI / HPI / DISI / SIDI (Direct injection)
- MPFI / SPFI / L-JETRONIC (Multi-port fuel injection)
- CSFI / CPFI (Central port injection)
- TBI / CFI (Throttle body injection)
- K-JETRONIC (Continuous Injection)
- MARINES / E-TEC / FICHT
- Other: Motorcycles, LPG, Alternative fuels

Ultrasonic Device UB-15s

Ultrasound waves interact through a special fluid to provide safe & detailed cleaning of fuel injector components.

- Automatic function
- 42 kHz frequency range
- Electronic Heat control





GD1R



High-pressure GDI solution

Gasoline direct injection requires high pressure testing to truly diagnose operation faults. Launch provides the complete testing solution in the market today, with the Revolutionary GD1R Test bench.

High-pressure GDI solution

- Test bench for 1 Direct Injector up to 300 bar HP @ 6.0 bar Compressed air
- Test bench for 1 Conventional MPFi or 1 Racing application Injector 0 – 10 bar
- Electronic Static Mass Measurement (DFAP)
Resolution: 0.1 mm³, Acc: 0.6 % FS
- Manual or Automatic Operation
- Workshop and Expert level of Diagnosis
- 7 min testing phase
- 8" Touchscreen HMI

FEATURES

- All Makes CZ and User Database
- Piezo Programmable profiles and Solenoid actuation (HV: 0 – 300 Volts / 0 – 35 A)
- Fully programmable charging and discharging piezo signal profiles
- Injector and PCB protection circuit (StG, StB, SC, OC, IC) Multiple Injections capability
- User friendly, ergonomic, dynamic & robust design
- Spill-free hose quick connectors
- Set of GDi adapters, fittings and connectors for all makes and types
- Clear protective test bench cover with dual cut-off switch

Test Performed

R2LC	Electrical test for kΩ / μF, Ω / μH
CFL	Check for leaks test (injector internal or external)
LKT	Static high nozzle leak test
iVM (FL, PL, EM, LL, PI)	Injector volume measuring test (min 15-steps) (full-load, part-load, emissions, low-load, pre / post-injection tests and more)
RSP	Injector nozzle response-time test
SPR	Dynamic spray test performed in all testing conditions



DS1R



CRDi Solutions

Revolutionary testing bench for BOSCH, DELPHI, DENSO and CONTI / VDO Common Rail Diesel Injectors (piezo, solenoid and Dual-Solenoid). It is unique, compact, economic and professional solutions for every workshop to test and service diesel injection systems.

CRDi Solutions

- Test bench for 1 CRDi
- Up to 2000 bar HP @ 6 bar LP
- Electronic static mass measurement (DFAP)
- Resolution: 0.1 mm³, acc: 0.6 %FS
- Manual or automatic operation
- Workshop level of diagnosis
- 10 – 15 min testing phase
- 8" Touchscreen HMI

FEATURES

- All makes OE manufacturer and User database
- Piezo programmable profiles and solenoid actuation (HV: 0 – 300 Volts / 0 – 35 A)
- Injector and PCB protection circuit (StG, StB, SC, OC, IC)
- Multiple injections capability
- User friendly, ergonomic, dynamic and robust design.
- Spill-free hose quick connectors
- Complementary set of CRDi adapters, fittings and connectors for all makes and types

Test Performed

R2LC	Electrical actuator test for k Ω / μ F, Ω / μ H
CFL	Check for leaks test (injector internal or external)
NLT	Nozzle leakage test
LKT	Static back leak test
aNOP	Automatic nozzle opening pressure test
iVM (FL, PL, EM, LL, PI)	Injector volume measuring test (min 15-steps) (full-load, part-load, emissions, low-load, pre / post-injection tests and more)
iVM-MTS	Injector volume measuring test (multiple test-points slope)
RSP	Injector nozzle response-time test
SPR	Dynamic spray test performed in all testing conditions



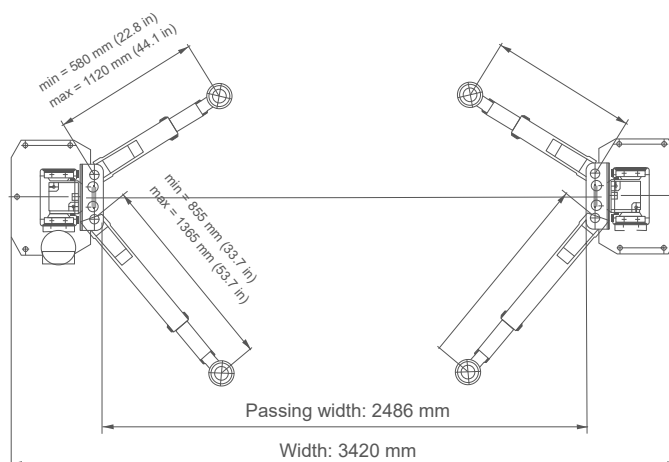
 **LIFTS**



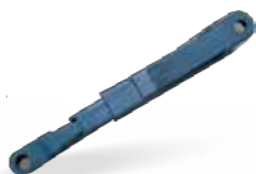
TLT-235 SBA



Design based on international standard and is conform to the CE certification Hydraulic two post lift with floor plate and a capacity of 3.5 t.



Arm length: 855 – 1365 mm (2-stage);
580 – 1120 mm (3-stage)



Arms (optional)
2-stage: 800 – 1200 mm
2-stage: 980 – 1570 mm



Electronic control box:
Emergency switch, up- /
down-button, unlock-button



Extensions (optional):
90 / 125 / 140 mm
(3 size available)

FEATURES

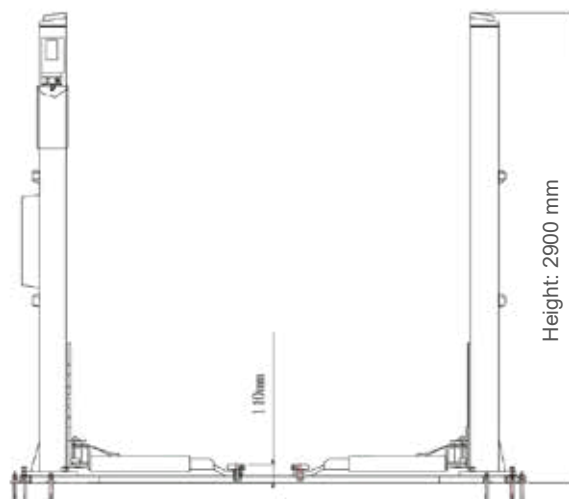
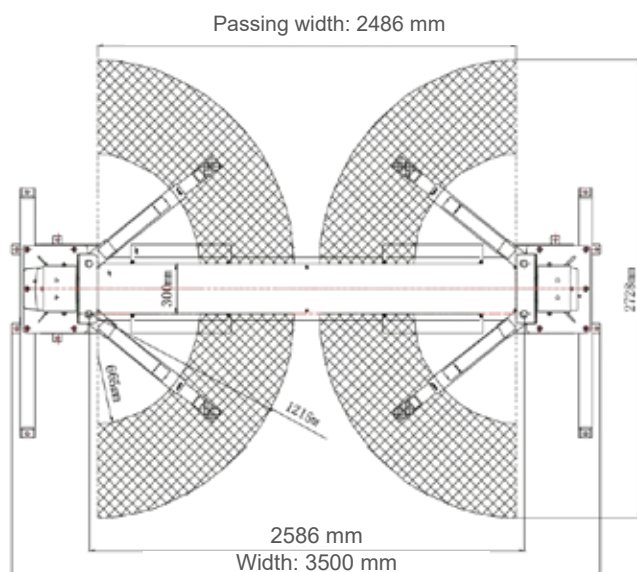
- Equipped with anti-burst valve for safely lower-down when hose break out
- Electromechanical top limit switch: effectively protecting the vehicle from overhead collision
- 2 steel cables for equalization force
- CE-Stop lowering function for more safety
- Electromagnetic full trip locking system

TECHNICAL DATA

Capacity	3500 kg
Height	2860 mm
Width	3420 mm
Lifting height	1920 mm
Lowest height	110 mm
Length of the arm	855 – 1365 mm (2-stage); 580 – 1120 mm (3-stage)
Lifting time	50 s
Motor power	2.2 kW
Voltage	380 V
Amount of oil	10 l
Weight	620 kg



TLT-235 SBA(E)



TLT-235 SBA(E) is a solid-base-plate hydraulic 2-post lift. With its solid H-form base, it is suitable for installation on the weak ground. With its new electrical control system and electromagnetic unlock, it operates easily to lift the various small and medium-sized vehicles with total weight below 3.5 t in workshop.

FEATURES

- Double hydraulic cylinder and high strength chain drive makes stable and smooth lifting and lowering
- Emergency lowering valve can be manually operated to make lift lower safely in case power is off
- Adopt two steel cables for equalization, force two carriages to move synchronously, and effectively prevent the vehicle from tilting
- Lowest height of lifting pad is 110 mm, good for repairing low chassis or low profile car
- CE-STOP function with safety alarm beep would automatically warn operators to keep safe distance from lift when it lowers to about 250 mm high from ground
- Electromagnetic full-scope high-safety lock

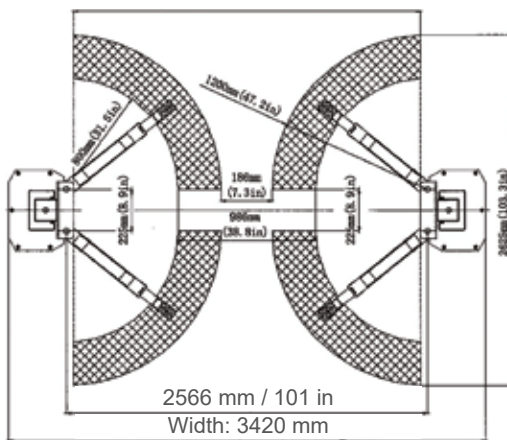
TECHNICAL DATA

Capacity	3500 kg
Height	2900 mm
Width	3500 mm
Lifting height	1920 mm
Lowest height	110 mm
Length of the arm	665 – 1215 mm
Lifting time	50 s
Motor power	2.2 kW
Voltage	380 V
Amount of oil	10 l
Weight	735 kg

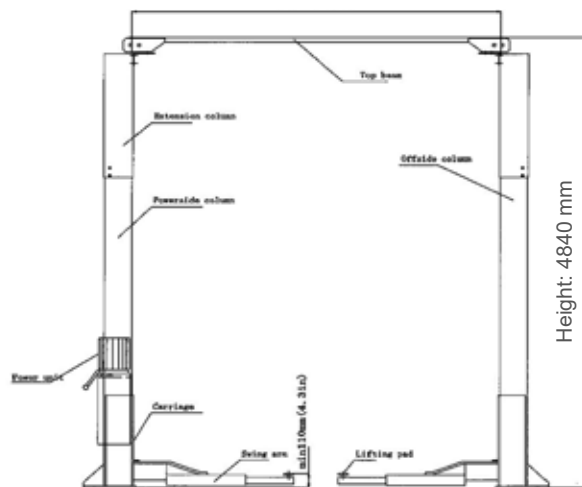


TLTE-40 SCA

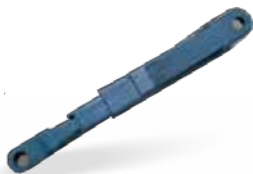
Passing width: 2466 mm



Passing width: 2466 mm



TLTE-40 SCA is a high version hydraulic clear floor 2-post lift. With its height of 4.8 m and 4 t capacity it is suitable for lifting SUVs, vans and other high vehicles. Its electrical control system and electromagnetic unlock assures a user-friendly operation.



Arms (optional)
2-stage: 855 – 1365 mm
3-stage: 580 – 1120 mm
2-stage: 980 – 1570 mm



Electronic control box:
Emergency switch, up- /
down-button, unlock-button



Extensions (optional):
90 / 125 / 140 mm
(3 size available)

FEATURES

- Equipped with anti-burst valve for safely lower-down when hose break out
- Electromechanical top limit switch: effectively protecting the vehicle from overhead collision
- 2 steel cables for equalization force
- CE-Stop lowering function for more safety according the CE
- Electromagnetic full trip locking system

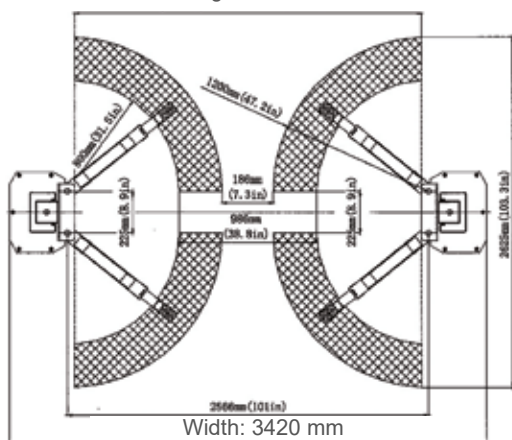
TECHNICAL DATA

Capacity	4000 kg
Height	4840 mm
Width	3420 mm
Lifting height	1920 mm
Lowest height	110 mm
Length of the arm	800 – 1200 mm (2-stage)
Lifting time	50 s
Motor power	2.2 kW
Voltage	380 V / 50 Hz
Amount of oil	10 l
Weight	960 kg

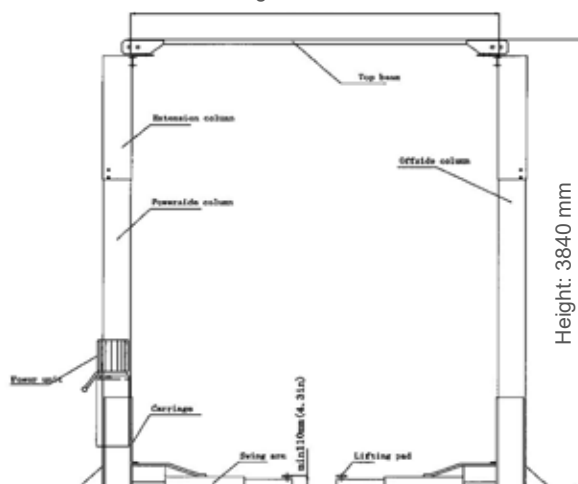


TLT-240 SCA

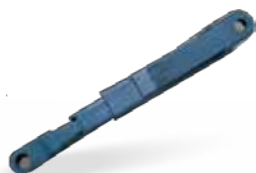
Passing width: 2486 mm



Passing width: 2486 mm



The hydraulic clear floor two post lift with a capacity of 4 t and electromagnetic unlock is applicable for the lifting of SUVs, vans and other vehicles up to 4 t weight.



Arms (optional)
2-stage: 855 – 1365 mm
3-stage: 580 – 1120 mm
2-stage: 980 – 1570 mm



Electronic control box:
Emergency switch, up- /
down-button, unlock-button



Extensions (optional):
90 / 125 / 140 mm
(3 size available)

FEATURES

- Equipped with anti-burst valve for safely lower-down when hose break out
- Electromechanical top limit switch: effectively protecting the vehicle from overhead collision
- 2 steel cables for equalization force
- CE-Stop lowering function for more safety according the CE
- Electromagnetic full trip locking system

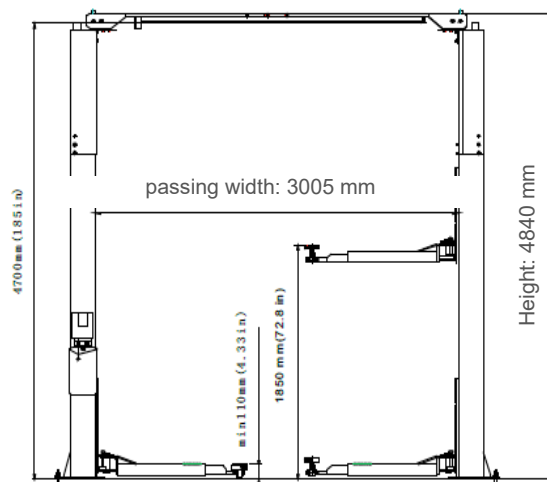
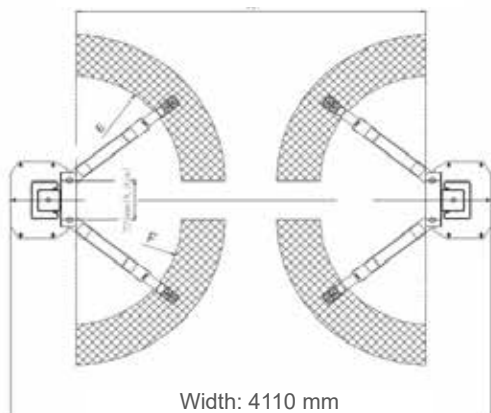
TECHNICAL DATA

Capacity	4000 kg
Height	4840 mm
Width	3420 mm
Lifting height	1920 mm
Lowest height	110 mm
Length of the arm	800 – 1200 mm (2-stage)
Lifting time	50 s
Motor power	2.2 kW
Voltage	380 V / 50 Hz
Amount of oil	10 l
Weight	700 kg



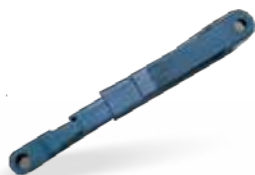
TLT-250 AT(C)

Passing width: 3005 mm



The hydraulic clear floor two post lift with a capacity of 5 t and triple telescoping arms is applicable for the lifting of various large SUVs, vans and also super wide vehicles.

- Design based on international standard and is conform to the CE certification.



Arms (optional)
3-stage: 950 – 1800 mm



Door protection rubber
and chain protection cover



Extensions (optional):
90 / 125 / 140 mm
(3 size available)

FEATURES

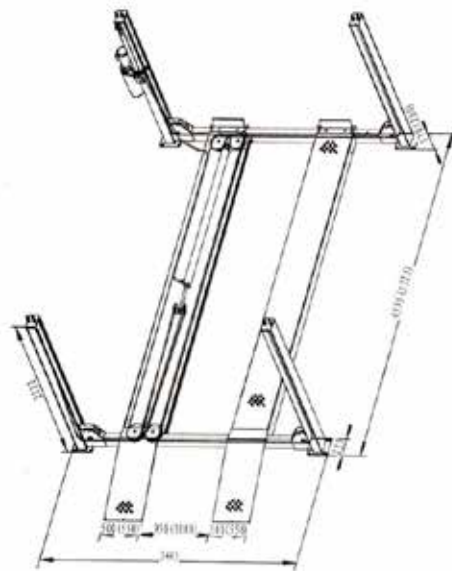
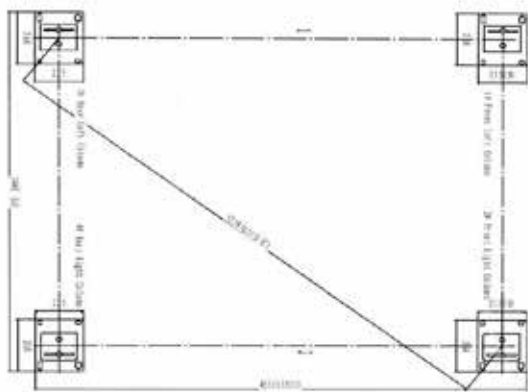
- Equipped with anti-burst valve for safely lower-down when hose break out & foot protection
- Electromechanical top limit switch: effectively protecting the vehicle from overhead collision
- 2 steel cables for equalization force
- Manual unlocking

TECHNICAL DATA

Capacity	5000 kg
Height	4810 mm
Width	4110 mm
Lifting height	1920 mm
Lowest height	110 mm
Length of the arm	950 – 1800 mm
Lifting time	50 s
Motor power	3 kW
Voltage	380 V / 50 Hz
Amount of oil	10 l
Weight	960 kg



TLT-440 W



The hydraulic four post lift with a capacity of 4 t is applicable for the lifting of various vehicles sizes in garages and workshops. This lift is equipped with scissor lifting jack (lifting capacity: 2 t), sideslip plates and turntables for wheel alignment.

- Design based on international standard and is conform to the CE certification.
- Applicable for the professional wheel alignment.



Scissor lifting jack



Sideslip plates



Turntables for wheel alignments

FEATURES

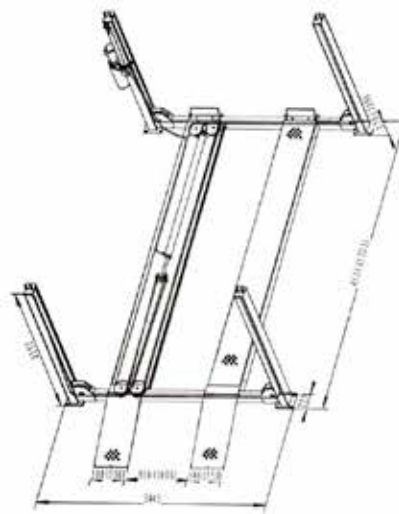
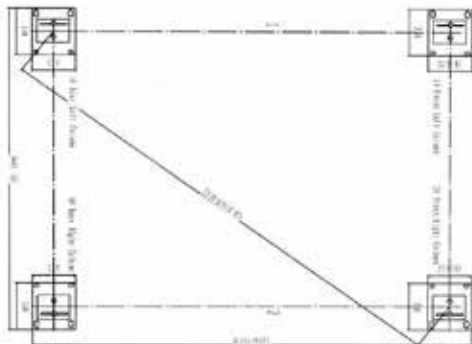
- Distance between rails adjustable in 3 positions: 1445 – 1595 mm
- Overloading protection, overvoltage protection and protection against cable breakage
- Safety lock in full traveling span and pipe burst protection
- Equipped with anti-burst valve for safely lower-down when hose break out & foot protection
- Electromechanical top limit switch: effectively protecting the vehicle from overhead collision
- 4 steel cables for equalization force
- Slackline protection

TECHNICAL DATA

Capacity	4000 kg
Height	2172 mm
Width	3440 mm
Lifting height	1900 mm
Lowest height	170 mm
Length of the arm	4555 mm
Lifting time	60 s
Motor power	2.2 kW
Voltage	380 V / 50 Hz
Amount of oil	12 l
Weight	1550 kg



TLT-455 W



The hydraulic four post lift with a capacity of 5.5 t is applicable for the lifting of various vehicles sizes in garages and workshops. This lift is equipped with scissor lifting jack (lifting capacity: 2 t), sideslip plates and turntables for wheel alignment.

- Design based on international standard and is conform to the CE certification.
- Applicable for the professional wheel alignment.



Scissor lifting jack



Sideslip plates



Turntables for wheel alignments

FEATURES

- Distance between rails adjustable in 3 positions: 1445 – 1595 mm
- Overloading protection, overvoltage protection and protection against cable breakage
- Safety lock in full traveling span and pipe burst protection
- Equipped with anti-burst valve for safely lower-down when hose break out & foot protection
- Electromechanical top limit switch: effectively protecting the vehicle from overhead collision
- 4 steel cables for equalization force
- Slackline protection

TECHNICAL DATA

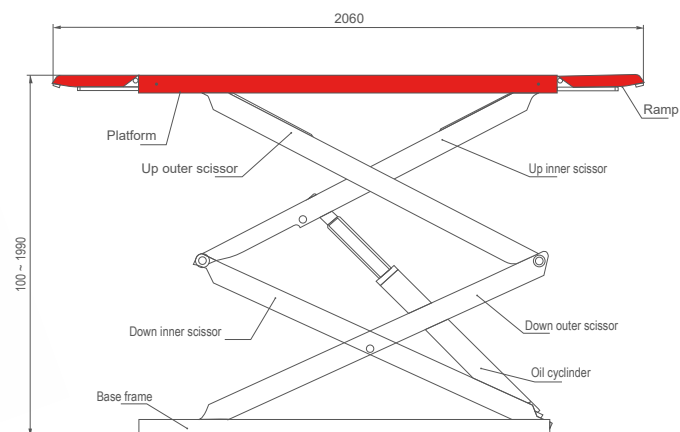
Capacity	5500 kg
Height	2172 mm
Width	3445 mm
Lifting height	1900 mm
Lowest height	245 mm
Length of the arm	5600 mm
Lifting time	75 s
Motor power	2.2 kW
Voltage	380 V / 50 Hz
Amount of oil	12 l
Weight	1800 kg



TLT-632 AF



Equipped with electrical control box for easy operation of lifting and lowering; including emergency switch.



The twin scissor lift with a capacity of 3.2 t was especially designed for over-ground installation and can handle almost all heavy-weight passenger cars and vans. The ultra-flat construction allows lifting of sport cars and very low-built vehicles.

- Design based on international requirement and safety standards.
- CE certification for quality.
- ISO 9001: 2000 quality assurance.

FEATURES

- No underfloor-installation is needed
- Hydraulic system safely lifting vehicle weight up to 3200 kg
- Minimum pick-up height as low as 110 mm, no problem for low-build vehicles
- Automatic activated safety lock through all lifting travel, easy pneumatic release
- Top limit switch: effectively protecting the vehicle from overhead collision
- Maintenance free bearing with auto lubrication offers a long lifespan
- Including electrical control box (see figure)

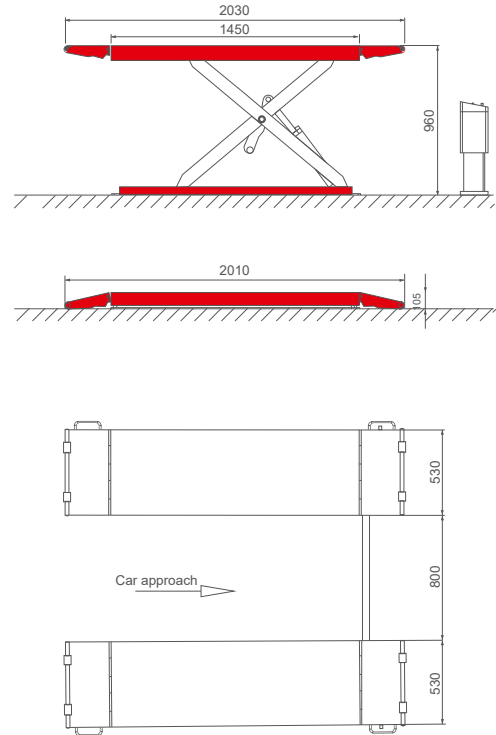
TECHNICAL DATA

Capacity	3200 kg
Lifting height	1990 mm
Lowest lifting height	110 mm
Lifting time	60 s
Motor power	2.2 kW
Voltage	380 V / 50 Hz
Weight	820 kg



TLT-330 A

Mid-rise scissor lift



Fully hydraulic Locking system



Super-thin



Equipped with electrical control box for easy operation of lifting and lowering; including emergency switch.

FEATURES

- Low profile structure for on ground installation. Special for tyre service
- Perform stable and reliable with the high quality Italy-made pump
- With antiknock valve and safety valve to ensure the safety of lift
- Low voltage control (24 V) Safety
- Dual hydraulic circuits with solenoid valve protect against pressure drop at hose breakage

TECHNICAL DATA

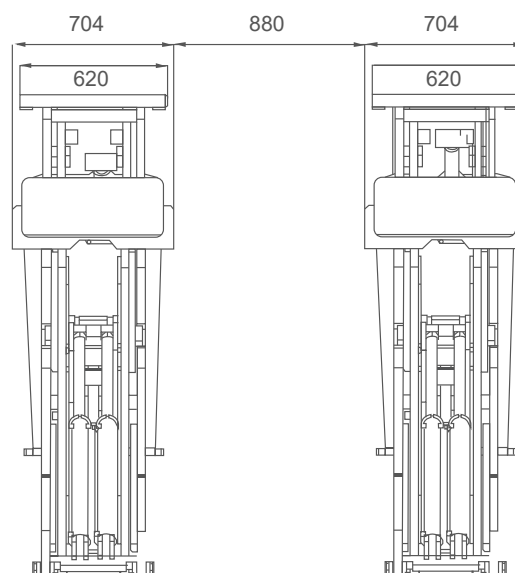
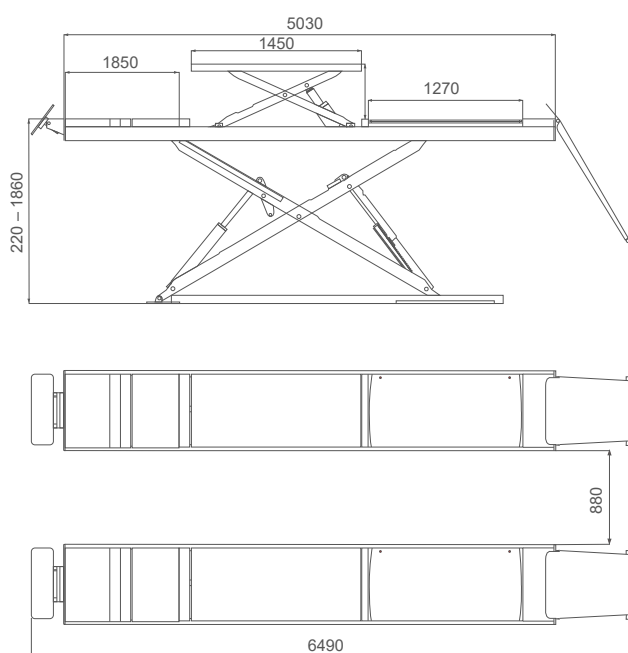
Power supply	380 V / 3PH or 220 V / 1 PH
Power	2.2 kW
Lifting Capacity	3000 kg
Min / Max. Lifting height	105 – 960 mm
Package	steel frame, 0.5 CBM, 600 kg



TLT-855 A



Equipped with electrical control box for easy operation of lifting and lowering; including emergency switch.



FEATURES

- Low profile structure with wheel free lift for on ground installation
- Safely low voltage control (24 V)
- Good synchronization and precise leveling for alignment
- Position of turntable can be adjusted to suit for various types of vehicles
- Perform stable and reliable
- With the slide plate for alignment
- Central scissor platform has the double extension, with more flexibility

TECHNICAL DATA

Capacity	5500 kg
Lifting height	220 – 1860 mm
Second Lifting	450 mm
Motor power	3.0 kW
Voltage	380 V / 50 Hz
Air supply	4 – 6 bar



Maintenance and monitoring of workshop equipment



IoT terminal can be installed invisibly into a desired equipment. It will then send all the important data like serial number, location, last use, service status etc. to a database. Through the IOT online platform or APP the user can observe the information and react to it as needed.

+ Advantage

- Brand / manufacturer independent applicable
- Online controlling from everywhere
- Activity and status visible through online platform
- Blockchain based technology
- Workload remote monitoring

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