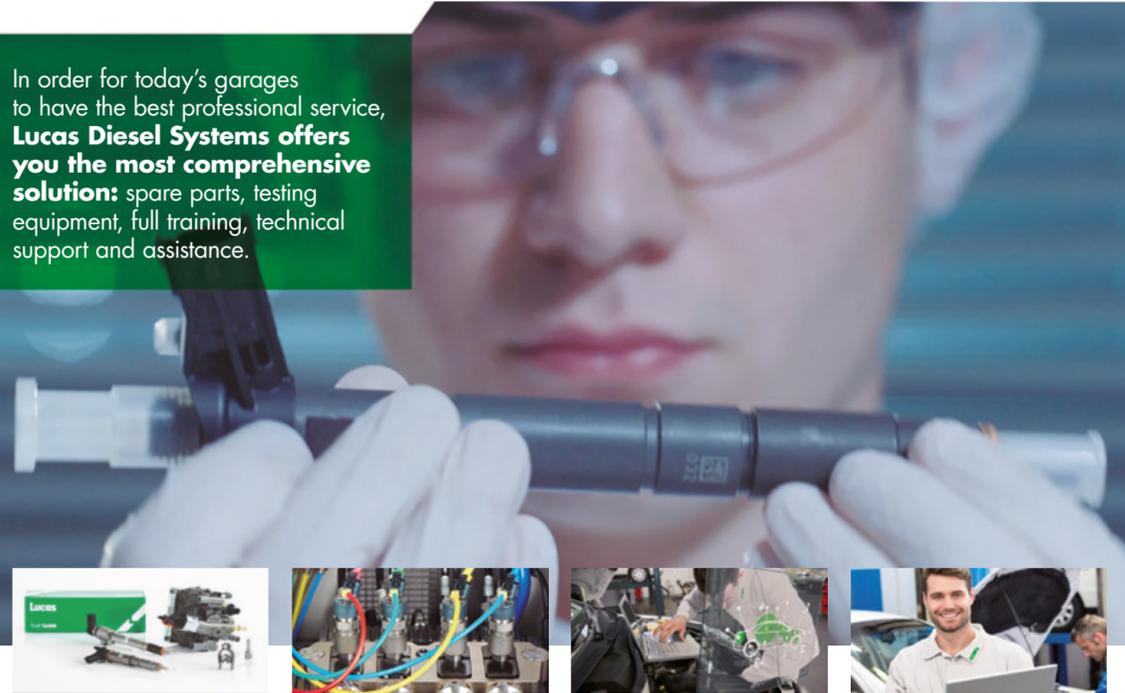


LUCAS DIESEL SYSTEMS, THE FOUNDATION OF YOUR SUCCESS.

In order for today's garages to have the best professional service, **Lucas Diesel Systems offers you the most comprehensive solution:** spare parts, testing equipment, full training, technical support and assistance.



SPARE PARTS

- Wide range of multibrand products
- The largest catalogue in the market, with over 10,000 spare parts and 2,000 reman products
- Spare parts available exclusively for the new products that form part of the latest diesel systems on the market
- Over 145 years of history guarantee our Lucas brand, offering products featuring exceptional technology and innovation throughout the world

TESTING EQUIPMENT

- For all brands
- Suitable for each type of garage
- Plug & Play
- Easy use
- Automatic, semi-automatic and/or manual work programme
- Maximum quality and precision
- Approved tests
- Permanent updating online

COMPREHENSIVE TRAINING

- Training experience at the highest level, tailored to each garage
- Extensive programme of courses on the latest diesel technology
- Theoretical and practical training in small groups
- E-learning
- Professional technical, expert and qualified teachers

TECHNICAL HELPLINE

- E-Lucas Troubleshooting
- Direct technical support and assistance
- Fast and professional analyses, diagnoses and solutions
- Technical experts on hand
- Coverage of all brands and manufacturers
- Greater output for your business

Trust **Lucas**

EUROPE

UK - Chichester Road - Ponswood Ind. Estate
TN38 9BG - ST Leonards-On-Sea - East Sussex

SPAIN - Pol. Ind. Morea Sur, 59 - 31191 Beriain - Navarre

ITALY - Via F. Filzi, 15 - 20032 Cormano - Milan

NORTH AMERICA

USA - Southfield Town Center - 1000 Town Center - 7th floor
48075 Southfield - Detroit - Michigan

CENTRAL AMERICA

PANAMA - Boulevard Costa del Este
Financial Park Tower - Planta 20 - Costa del Este - Panama City

SOUTH AMERICA

BRAZIL - R. Augusta, 1939 - 2nd floor - Room 22 - Cerqueira Cesar
01413-000 - São Paulo - SP



lucasdiesel.com

MULTIBRAND TEST

COMMON RAIL INJECTORS
COMMON RAIL PIEZO INJECTORS



EDT 311+

SPECIALIZED TEST BENCH FOR COMMON RAIL INJECTORS

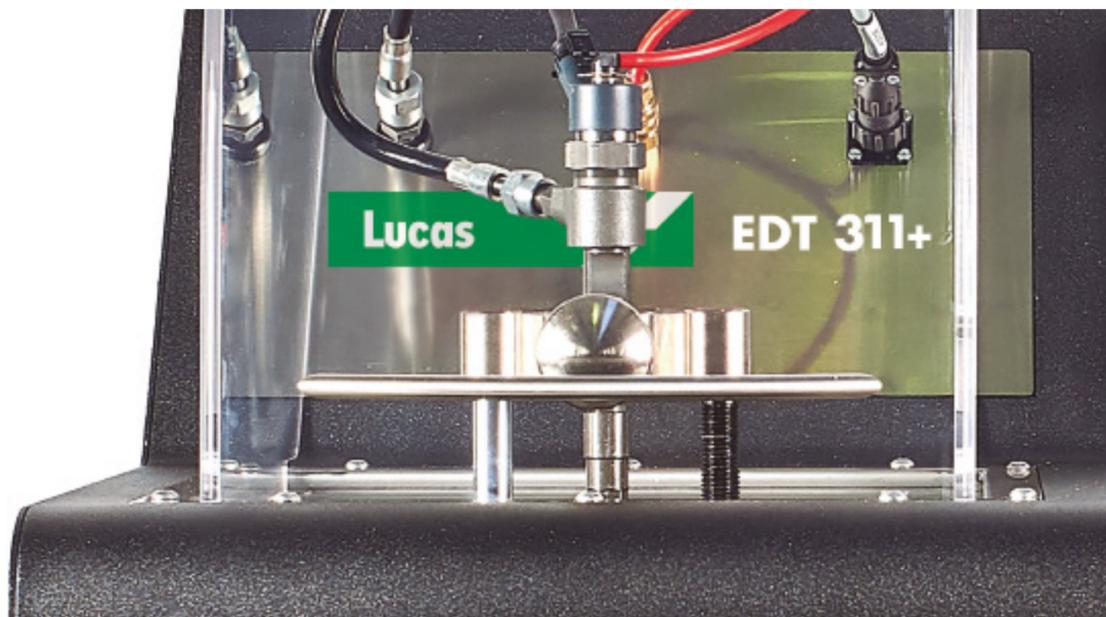
- Pressure up to **2,700 Bar**
- **Multibrand tests** for Electromagnetic and Piezoelectric Common Rail Injectors
- **Delphi, Denso and Bosch coding**
- **Detroit DD15 – 4 Pin dual coil Injectors test**
- High precision **digital flow meter system**
- **Cooling system** builtin

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Trust **Lucas**

EDT 311+ SPECIALIZED TEST BENCH FOR ALL BRANDS OF COMMON RAIL INJECTORS



The modern design of the test bench enables the diesel systems specialist to efficiently check any brand of Common Rail injector, including piezoelectric systems.

The tests are performed within a **programme of automatic unitary operation tests**, in which the functions as well as the performance of the product are tested, always in accordance with the original specifications of the manufacturer. **All of the test records are approved by the Lucas Diesel Systems Quality Department**, additionally guaranteeing the **fulfilment of the applicable regulations on pollution**.

Once the tests have been completed, and in the event that the results were not satisfactory, **Lucas software will offer you technical support and assistance** to repair the injector and correct the values submitted.

Thanks to the ongoing development of **test records for all of the systems** and the generation of **new accessories**, the **EDT 311+** is equipped to meet any market requirements, and the new records

can be directly **downloaded onto the test bench, over the internet**.

The high **precision of the measurement system** guarantees **extraordinary repeatability**, which ensures the **excellent quality of the tests**.

In addition, with an easy to **use, intuitive, interactive and dynamic system**, the diesel specialist can perform tests on the components **quickly and efficiently**, therefore gaining a **lot of profitability for your business**.

The **EDT 311+** offers great advantages, which make it possible to enjoy **silent operation at the highest level of performance, with a low level of maintenance and excellent durability**.

All of the **Lucas Diesel Systems** testing equipment is designed with a strong commitment to **environmental care and to guarantee the minimum risk for the diesel specialist professional**.

EQUIPMENT COMPOSITION

EDT 311+ - LDFT1854



EQUIPMENT

REF.	
	CRI BOSCH CR INJECTORS KIT
	DELPHI CR INJECTORS KIT
	CRI DENSO CR INJECTORS KIT

REF.	
	SIEMENS CR INJECTORS KIT
	BOSCH PIEZO CR INJECTORS KIT

ACCESSORIES

REF.	
LDFT1135	PRINTER FOR CODES
LDFT1136	CARTRIDGE FOR CODES PRINTER
LDFT1146	CABLE - 4 PIN DENSO INJECTORS TEST
LDFT1147	CABLE - DF1.5 DELPHI INJECTORS TEST
LDFT1107	CODING - DELPHI C2I
LDFT1139	CODING - DELPHI C3I
LDFT1105	CODING - DENSO
LDFT1104	CODING - BOSCH
LDFT0014	MACK RENAULT Ø 24 mm INJECTORS TEST KIT
LDFT0019	ACTROS Ø 26 mm INJECTORS TEST KIT
LDFT0022	MAN Ø 29 mm INJECTORS TEST KIT
LDFT0016	MAN Ø 29 mm H. 53.50 INJECTORS TEST KIT
LDFT0025	MACK 2 RENAULT 480 CV Ø 27.5 mm INJECTORS TEST KIT
LDFT0026	RENAULT PREMIUM 420 CV Ø 32 mm INJECTORS TEST KIT
LDFT0015	CUMMINS Ø 26 mm INJECTORS TEST KIT

REF.	
LDFT0028	DENSO Ø 27 mm INJECTORS TEST KIT
LDFT0029	DENSO Ø 23.5 mm INJECTORS TEST KIT
LDFT0032	MAN Ø 26 mm INJECTORS TEST KIT
LDFT0027	FIAT TECTOR Ø 26 mm INJECTORS TEST KIT
LDFT0033	VOLVO-DEUTZ Ø 24.5 mm INJECTORS TEST KIT
LDFT0023	DENSO Ø 32.5 mm INJECTORS TEST KIT
LDFT0017	DENSO Ø 27.0-28.5 mm INJECTORS TEST KIT
LDFT0018	PERKINS Ø 19.5 mm POLV.7 INJECTORS TEST KIT
LDFT0020	SIEMENS FORD PIEZO Ø 27 mm INJECTORS TEST KIT
LDFT0030	CR DEUTZ Ø 21 mm INJECTORS TEST KIT
LDFT0021	SCANIA/CUMMINS XPI-ISX INJECTORS TEST KIT
LDFT0031	DAEWOO Ø 26 mm INJECTORS TEST KIT
LDFT0024	BOSCH 4 PIN MERCEDES Ø 35 mm INJECTORS TEST KIT
LDFT1148	MERCEDES - MITSUBISHI FUSO INJECTORS TEST KIT

TECHNICAL SPECIFICATIONS

DRIVE SYSTEM	
MOTOR	3 PHASE 400 VAC or 220 VAC (3 phases + 1 ground + 1 neutral)
POWER	4 kW - 5 Hp

MEASUREMENT SYSTEM	
REPEATABILITY PRECISION	0.2% tolerance
INJECTION TIME MEASUREMENT	Incorporated nozzle response time sensors
UNIT OF MEASUREMENT	<ul style="list-style-type: none"> Electronic measurement of mass in mg/hit or mm³/hit Resolution of 0.2 mg and precision of 0.2% Temperature not sensitive and not affected No mobile parts that will fail

FEED SYSTEM	
OIL TANK	22 l
REFRIGERATION	Integrated refrigeration system: without water – without air
MAXIMUM PRESSURE	2700 Bar
FILTRATION	Capacity up to 3µ

COMPUTING SYSTEM	
OPERATING SYSTEM	Microsoft XP Windows
SOFTWARE	HAWK
SCREEN	8.4" touchscreen
CONNECTIONS	Ethernet and USB

APPLICATIONS	
CARS	
LIGHT COMMERCIAL	
HEAVY COMMERCIAL	
AGRICULTURAL	

OPERATION SYSTEM	
<ul style="list-style-type: none"> Minimum opening pressure detection Minimum opening time detection Nozzle and return leak tests Measurement of injection amount at: <ul style="list-style-type: none"> Pre-injection (VE) Idle speed (LI) Emissions (EM) Full load (VL) Detection of response time (sensors on board) Detection of lack of spray (sensors on board) Diagnosis of coil electrical conditions (graph on monitor) 	

DIMENSIONS	
HEIGHT	1,550 mm
WIDTH	870 mm
DEPTH	890 mm
VOLUME	1.2 m ³
WEIGHT	325 kg
BODY CONSTRUCTION	Nickel-plated iron
SAFETY DOOR	<ul style="list-style-type: none"> Transparent plexiglas protector Immediate stoppage of the motor if opened

INFORMATION SYSTEMS	
MULTIBRAND	All brands
TEST RECORDS	<ul style="list-style-type: none"> Generation and storage of test records Printing of reports with reference values
SETTINGS	Personalised data tables
UPDATING	Via the internet
SOURCES	Original specifications from the manufacturers