

Invented for life



BOSCH

DCI 700

The diesel test bench
for common-rail injectors



DCI 700

Test a set of standard injectors within 15 minutes



The latest exhaust emission standards and future directives increase the significance of testing common-rail injectors in modern diesel engines. Therefore, the more precise the measurement is, the more accurately the injector can be adapted.

The Bosch solution: The DCI 700 common-rail injector test bench has advantages for the workshop. Workshops benefit equally from the short setup and testing times as well as from the user-friendly operation during daily work. The DCI 700 is suitable for workshops with a large daily volume of injector tests.



Did you know?

Out of 1,979 Bosch order numbers

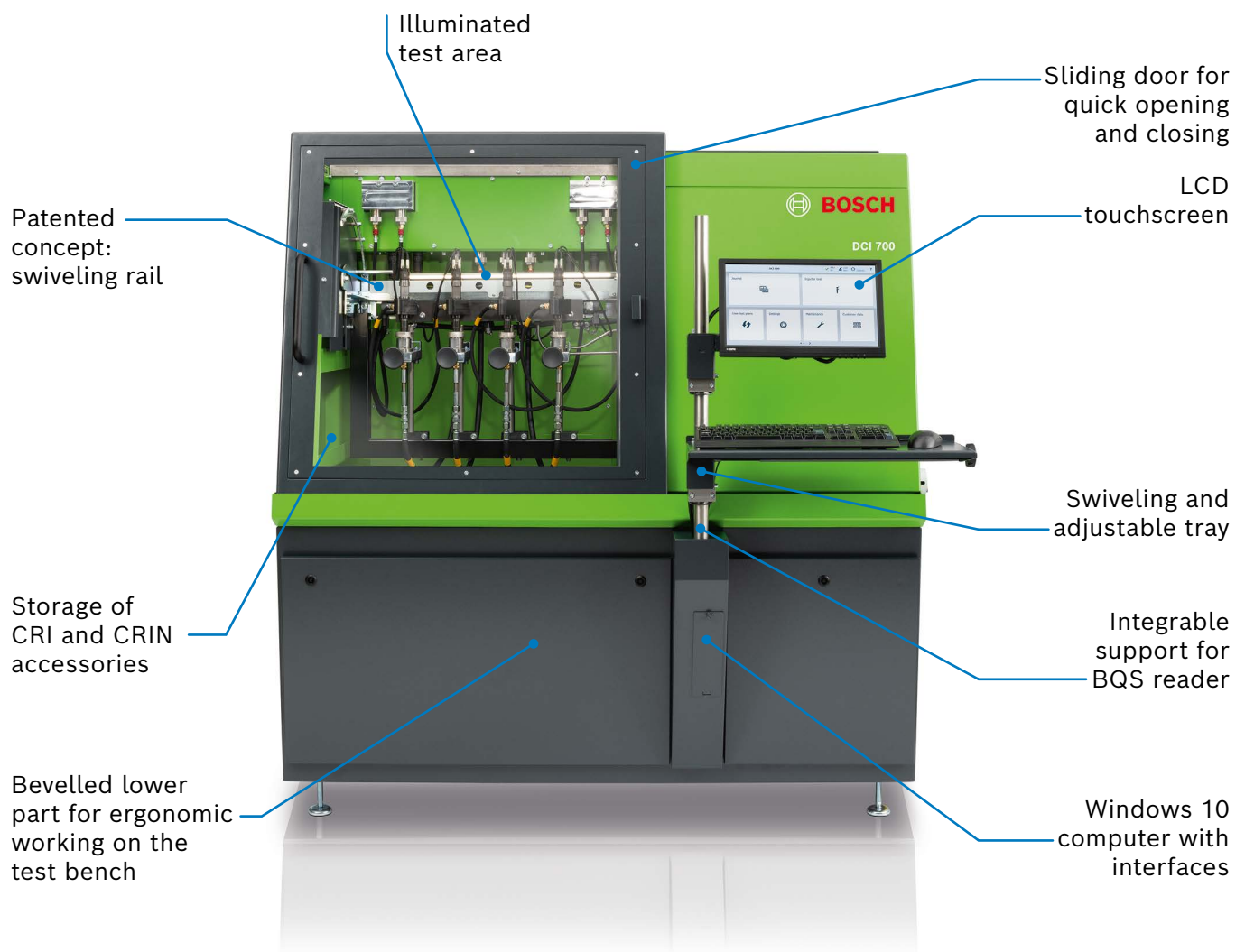
830 million

Bosch CRI/CRIN injectors are on the road worldwide.

(As of: 05/2022)

DCI 700

Product details



Workshop tips

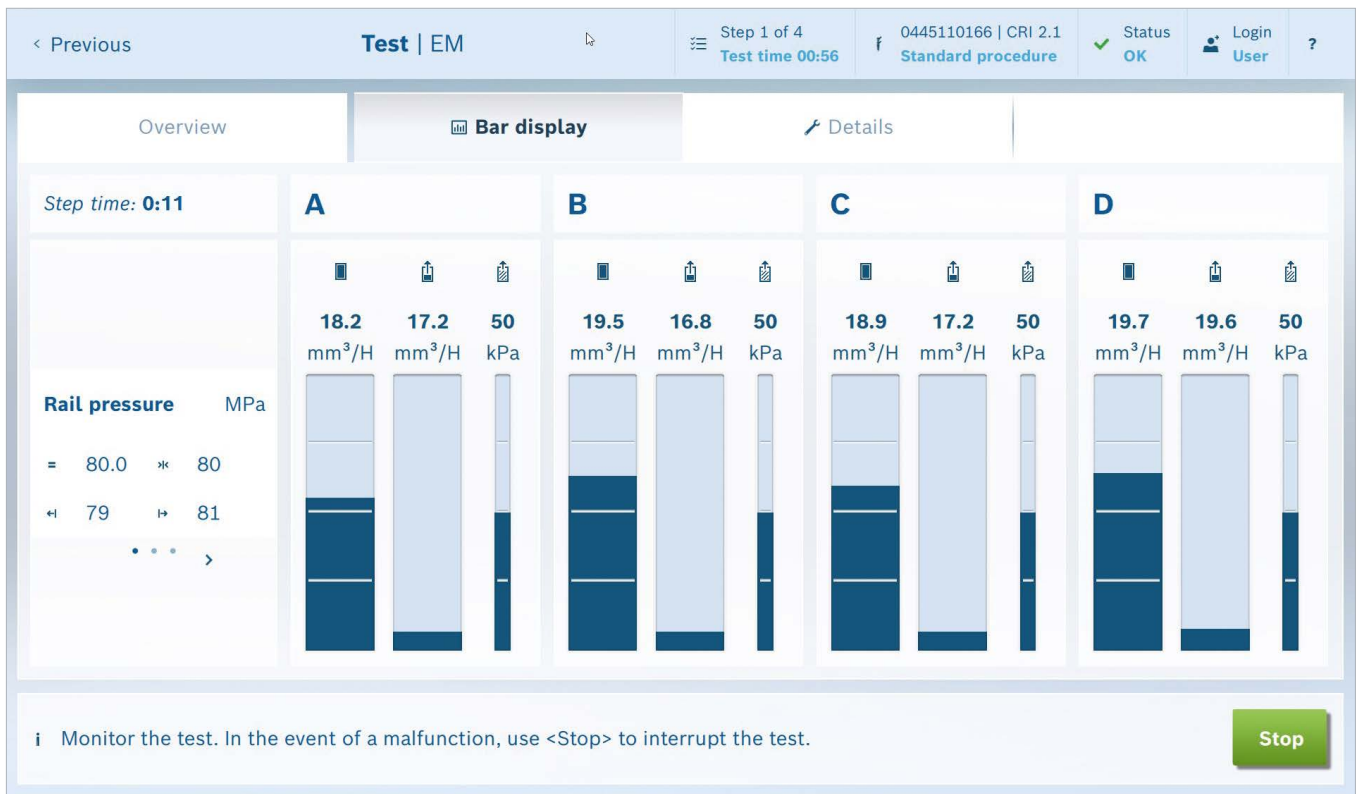


Learn more about the DCI 700 in the product video
<https://www.youtube.com/watch?v=9Z9vXmkfVd8>



DCI 700

Well prepared for the examination of common-rail injectors



Software subscriptions keep the workshop updated

A software subscription is necessary for the initial operation of the DCI 700. In addition to the activation, it enables regular online updates for flawless operation. An internet connection is a prerequisite for the operation of the test bench and the smooth download of the current test data.

Choose your subscription:

- CRI: 1 687 P15 090
- CRIN incl. CRIN 4.2: 1 687 P15 100

Advantages at a glance:

- Saving time through the fast setup and an average testing time of 15 minutes
- Higher quality, reliability and transparency for Bosch injectors thanks to fast and precise testing – including IMA/IQA coding
- High effectiveness through patented rotating rail concept – no vulnerable high pressure hoses required, lower maintenance cost and easier setup
- Always current through regular online updates
- Ergonomic design with the slanted lower part, allowing closer standing proximity and therefore improved working comfort at the test bench
- Can test common-rail injectors with latest technology such as VCC (Valve Closing Control) and NCC (Needle Closing Control) of EURO 5 and EURO 6 engines
- Modular retrofit kits for Bosch common-rail injectors for commercial and off-highway vehicles
- With automatic back pressure control functionality no additional control items are necessary

DCI 700

Technology

Technical data	DCI 700
Test pressure	30 MPa ... 250 MPa
Automatic injector backflow pressure control	50 kPa ... 1,200 kPa
Capacity of test oil tank: at the max. marking at the min. marking	45 l 35 l
Dimensions w/o swiveling arm (W/H/D in mm)	1,616 x 1,736 x 786
Dimensions with swiveling arm and keyboard tray (W/H/D in mm)	1,616 x 1,736 x 1,082
Weight w/o test oil	590 kg
Operating system	Windows 10
AC voltage supply	380 VAC – 480 VAC (0 683 725 001) 200 VAC – 240 VAC (0 683 725 002)
Rated current	16 A (0 683 725 001) 32 A (0 683 725 002)
Fuse	16 A (0 683 725 001) 32 A (0 683 725 002)
Phases	3P - PE
Input frequency	50/60 Hz
Protection class entire test bench	IP 20
Installation altitude	max. 2,000 m
Workplace-related emission sound pressure level according to DIN EN ISO 11201	<69,2 dB(A) +/- 2,5 dB
Operating temperature/function	5 °C ... 40 °C
Max. permissible relative humidity	≤90 % (at 25 °C and 24 hours duration)
Storage temperature	-20 °C ... 60 °C
Software and database updates	via DDM (Diagnostics download manager, internet connection prerequisite)



Scope of delivery

- CRI accessory kit for solenoid and piezo common-rail injectors
- High pressure pump CP4.1
- LCD touchscreen
- Swiveling tray for keyboard and mouse

Order numbers:

0 683 725 001	380 VAC – 480 VAC
0 683 725 002	200 VAC – 240 VAC


DCI 700

Special accessories



CRIN Bosch


for testing CRIN commercial vehicle injectors made by Bosch

 1 687 010 607



CRIN Bosch 4.2


for testing CRIN 4.2 commercial vehicle injectors made by Bosch

 1 687 010 608



CRIN Expert kit

for additional shot-to-shot measurement of CRIN injectors

 1 687 010 611

CRI Bosch

for testing CR injectors made by Bosch

 **Included in scope of delivery**



CRIN Expert kit

The new expert kit for DCI 700 expands the measurement options of the test bench, making it able to carry out a shot-to-shot measurement of Bosch common-rail injectors.

During an additional test run the measured injection values are compared and evaluated. Larger deviations during the shot-to-shot measurement might show excessive scattering during some injections can be an indication for faulty injectors. The shot-to-shot measurement is an automatic test and will report only a pass or a fail.

A new licensing is not required for this functionality.

DCI 700

Adapters* for CRIN injectors

Description	Vehicle-/engine manufacturer	Order number
Adapter A1i	Cummins, Dongfeng	1 685 720 297
Adapter A2i	AGCO Group, Valtra, Fendt, Massey Ferguson Tractors, SISU Power, Deutz, Kirloskar	1 685 720 314
Adapter A3i	Fiat Group, Iveco, CASE New Holland, Cummins, Dongfeng, Tata, GCIC, Yunnei, Quanchai, DCEC, Xinchai	1 685 720 296
Adapter A4i	Renault-Truck, Dongfeng, YamZ, Cummins	1 685 720 316
Adapter A5i	MAN, Liebherr, KamaZ, Kirloskar	1 685 720 300
Adapter A6i	MAN, CNHTC	1 685 720 318
Adapter A7i	Ford Otosan, JMC Otosan	1 685 720 320
Adapter A8i	DHIM, Doosan, Daewoo, Yuchai Machine	1 685 720 322
Adapter A9i	Deutz	1 685 720 324
Adapter A10i	FAW, Yuchai Machine	1 685 720 326
Adapter A11i	Dongfeng, DCD	1 685 720 328
Adapter A12i	MAZ, YamZ, PAZ, AMZ, Ashok Leyland	1 685 720 330
Adapter A13i	CAMC, Renault-Truck, Volvo-Truck, Fendt, Deutz, FAW, Yuchai-Machine, Foton, Weichai-Power, SDEC, TAFE	1 685 720 332
Adapter A14i	MAN, Liebherr, Mahindra, Sany Group, CNHTC, JMC Otosan, Weichai Power, Dongfeng, NAVISTAR, International, MWM, JMCH Long Haul Tractor, AGCO, Doosan, Ford Otosan, Renault Truck	1 685 720 334
Adapter A15i	Weichai Power, Yuchai Machine	1 685 720 336
Adapter A16i	DHIM, Doosan, Yuchai, CAMC	1 685 720 338
Adapter A17i	MAN, NAVISTAR	1 685 720 371
Adapter A18i	FAW	1 685 720 373
Adapter A19i	Scania	1 685 720 377
Adapter A20i	Caterpillar	1 685 720 392
Adapter A21i	VE CV Ltd BS6	1 685 720 395
Adapter A22i	John Deere	1 685 720 415
Adapter A23i	AGCO, Deutz-Allis	1 685 720 423
Adapter A24i	FAW DA	1 685 720 426
Adapter A1e	Deutz, FAW	1 685 720 340
Adapter A2e	Hino, Toyota	1 685 720 342
Adapter A3e	FIAT Group, Iveco, CASE New Holland, International	1 685 720 344
Adapter A4e	Mitsubishi Fuso	1 685 720 346
Adapter A6e	Cummins, Mahindra, Yuchai Power, Yunnei, Yuchai Machine	1 685 720 358
Adapter A7e	FIAT Group, Iveco, CASE New Holland	1 685 720 360
Adapter A8e	Mitsubishi Hino	1 685 720 362
Adapter A9e	MTU	1 685 720 364
Adapter A10e	Catapillar, Perkins, Yuchai Machine, BFCEC, CNHTC, Yunnei, Weichai Power, SFH PT	1 685 720 366

*Adapters are offered as single pieces. Four adapters are required to equip all measurement channels of the DCI 700.

What drives you, drives us

Bosch technologies are used in most vehicles worldwide.
People, and assuring their mobility, is what we are focused on.

Therefore, we have dedicated over 130 years of pioneering spirit
and expertise in research and manufacturing to achieving this.

We provide the aftermarket and workshops worldwide with modern diagnostic and workshop
equipment and a wide range of spare parts for passenger cars and commercial vehicles:

- solutions for efficient vehicle repairs
- innovative workshop equipment and software
- one of the world's most comprehensive ranges of new and exchange parts
- large network of wholesale customers, for quick and reliable parts supply
- competent hotline support
- comprehensive educational and training offers
- targeted sales and marketing support

Find out more at:
boschaftermarket.com

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