

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 2,550 Bosch order numbers

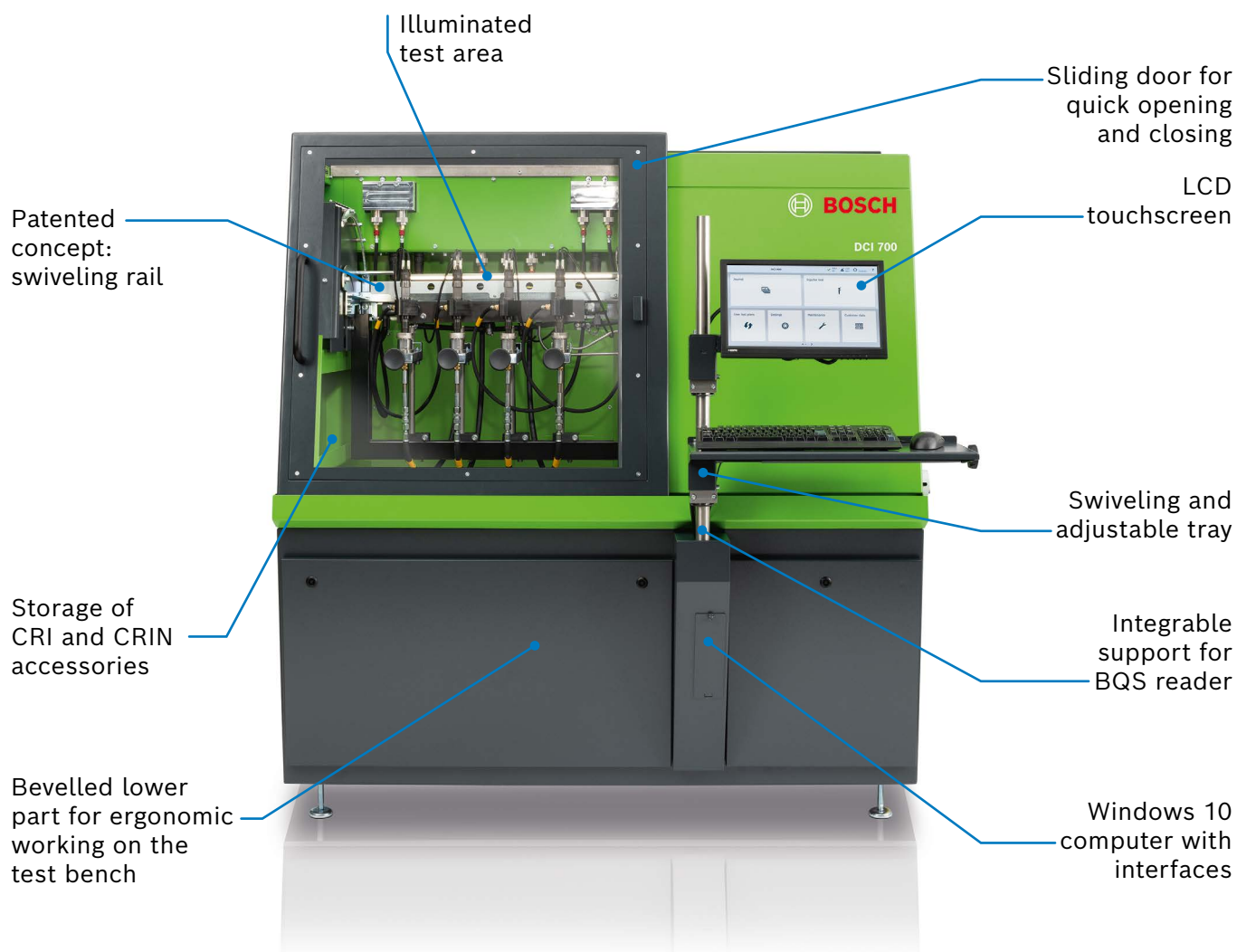
# 930 million

Bosch CRI/CRIN injectors are on the road worldwide.

(As of: 12/2023)

# DCI 700

## Product details



 **Workshop tips**



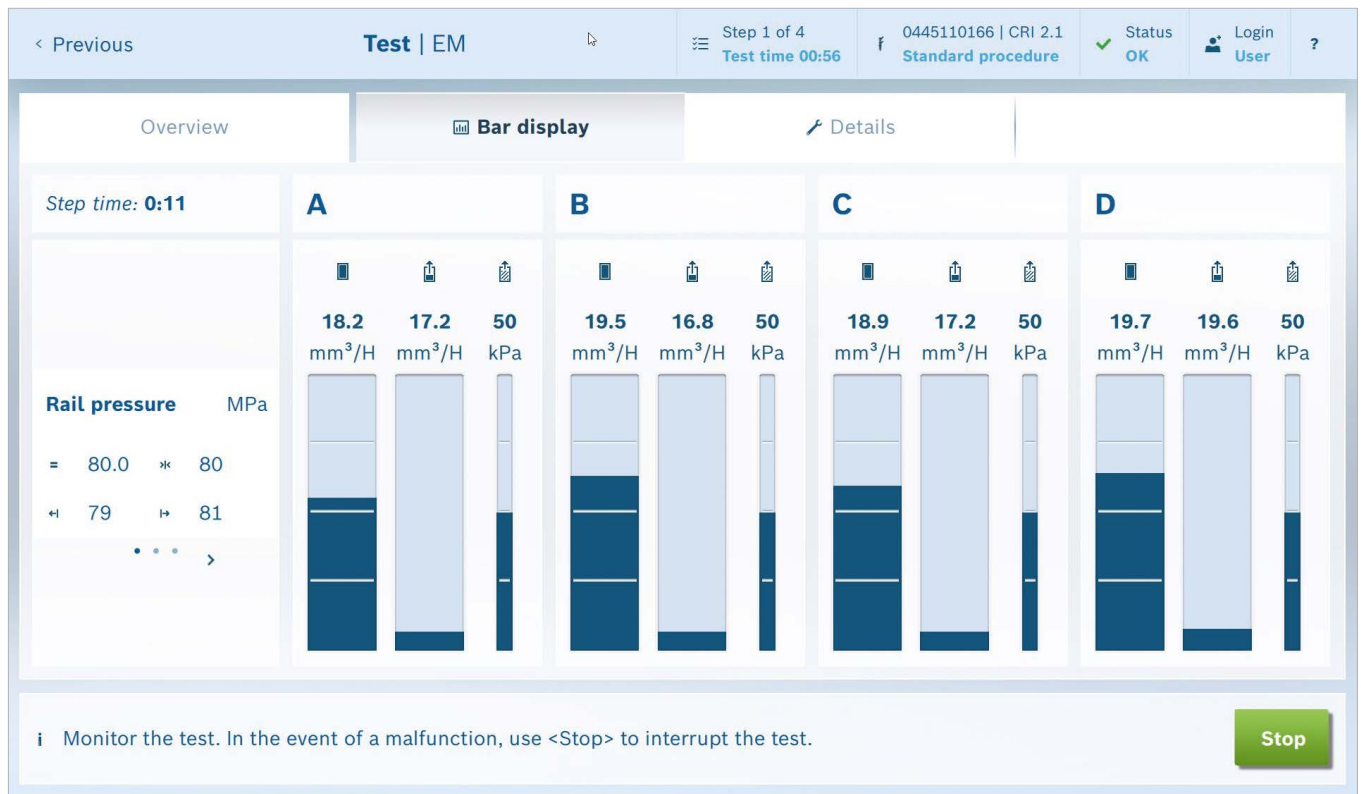
Learn more about the DCI 700 in the product video  
<https://www.youtube.com/watch?v=9Z9vXmkfVd8>





# 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 and shot-to-shot measurement: 1 687 P15 100

#### Advantages at a glance:

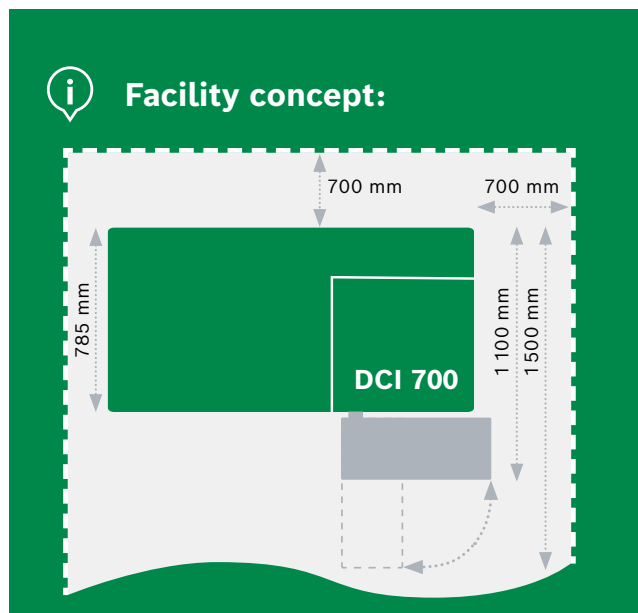
- Saving time through the fast setup and an average testing time of 15 minutes
- Higher quality, reliability and transparency for Bosch injectors thanks to fast and precise testing – including IMA/IQA coding
- High effectiveness through patented rotating rail concept – no vulnerable high pressure hoses 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
<b>Test pressure</b>	30 MPa ... 250 MPa
<b>Automatic injector backflow pressure control</b>	50 kPa ... 1,200 kPa
<b>Capacity of test oil tank:</b> at the max. marking at the min. marking	45 l 35 l
<b>Dimensions w/o swiveling arm (W/H/D in mm)</b>	1,616 x 1,736 x 786
<b>Dimensions with swiveling arm and keyboard tray (W/H/D in mm)</b>	1,616 x 1,736 x 1,082
<b>Weight w/o test oil</b>	590 kg
<b>Operating system</b>	Windows 10
<b>AC voltage supply</b>	380 VAC – 480 VAC (0 683 725 001) 200 VAC – 240 VAC (0 683 725 002)
<b>Rated current</b>	16 A (0 683 725 001) 32 A (0 683 725 002)
<b>Fuse</b>	16 A (0 683 725 001) 32 A (0 683 725 002)
<b>Phases</b>	3P - PE
<b>Input frequency</b>	50/60 Hz
<b>Protection class entire test bench</b>	IP 20
<b>Installation altitude</b>	max. 2,000 m
<b>Workplace-related emission sound pressure level according to DIN EN ISO 11201</b>	<69,2 dB(A) +/- 2,5 dB
<b>Operating temperature/function</b>	5 °C ... 40 °C
<b>Max. permissible relative humidity</b>	≤ 90 % (at 25 °C and 24 hours duration)
<b>Storage temperature</b>	-20 °C ... 60 °C
<b>Software and database updates</b>	via DDM (Diagnostics Download Manager, internet connection prerequisite)



*i*
**Scope of delivery**

- CRI accessory kit for solenoid and piezo common-rail injectors
- 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 3rd party kit\*

for testing CR injectors made by 3rd party manufacturers


 1 687 010 609

\*In combination with licenses of an external data provider



### Delphi Euro 6 connecting cable\*\*

for testing Delphi Euro 6 injectors

 1 684 465 896

\*\*In combination with CRI 3rd party kit and licenses of an external data provider

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

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