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Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
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Владивосток (423)249-28-31
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Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
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Москва (495)268-04-70
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Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13

Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47

Россия (495)268-04-70

Казахстан (772)734-952-31

<https://leitenberger.nt-rt.ru/> || bge@nt-rt.ru

INJECTOR TEST STANDS



- Unique, compact, economical and professional solutions for every workshop, development and quality department for testing and maintenance of diesel CR or petrol DI injectors.
- Functions for all DISU/GISU test benches
- Short setup and measurement times
- Automatic test run
- Ergonomic design
- Robust test bench with high quality
- Easy operation via touch screen
- Android-based software
- Simple and user-friendly menu navigation with language selection
- Test liquid is cleaned with a 2 µm filter
- Database with over 2000 test plans for almost all CR injectors
- Free unlimited updates for software and database
- Closed test system without spray filtering etc.
- Maximum occupational safety thanks to additional plexiglass test chamber cover.
- Almost maintenance-free standalone device
- Low operating costs, no licence fees, free support
- Up to 2800 bar test pressure, EU6 injectors, VDO authorized (depending on model)

TEST BENCH FOR 4 CR DIESEL-INJECTORS - 2800 BAR HIGH-END VERSION



item number :

DISU 4000_2800bar (041320_1)

DESCRIPTION

- Professional, automated test bench for maintenance and testing of up to 4 common rail injectors
- Suitable for all common injectors of common rail diesel systems (Bosch, Delphi, Denso, Siemens / VDO / Continental, HTC, Piezo; CDI, TDI, HDI...)
- Future-proof, also suitable for NCC and VCC technology, e.g. for the EU6 injector generation; CRI3-25, CRI3-27, Denso I-Art (6-pin)
- VDO authorised test, repair and coding system
- High efficiency due to fast and fully automatic operation and test run as well as lifetime updates for software and database
- Over 2000 injector reference/test values, including free update function
- Simple operation through Android operating system with intuitive user interface and touch screen operation as well as one clamping for all injectors
- Wi-Fi-enabled; e.g. for updates, printing and sending of test reports and support
- Archiving of test reports in Dropbox or via USB
- The special design of the illuminated pressure injection chamber ensures a clear view of the spray pattern – even multiple injections can be checked and diagnosed with optical precision; an incorrect spray pattern or a leaking or clogged injector can be detected quickly and easily
- Environmentally friendly and safe, as no spray mist is produced during the entire injector test
- Uniquely fast and simple clamping system for injectors
- Test duration less than 25 minutes for 4 injectors
- Dynamic electronic mass measurement system
- Injector coding function VDO IIC, Delphi C2i and C3i, Bosch IMA and ISA and Denso QR (optional)
- Regeneration function for piezo injectors
- 10" touch screen
- Test pressure up to 2800 bar
- Inspection/test scope:
 - Dynamic spray pattern test
 - Check of the injector reaction time
 - Injection quantity measurement
 - Full load
 - Half load
 - Emission
 - Low load
 - Pre- and post-injection
 - Injection quantity measurement with rising test curve
 - Test of the nozzle opening pressure
 - Test for leakage / tightness test
 - Static leakage quantity test
 - Electrical test of Ω , F, H

- The injector test and service test bench,
- without moving parts
- without filtration
- without temperature calibration
- with software and database updates via Wi-Fi free of charge and "for life"
- with free* support via TeamViewer (* two years from purchase)
- with user-friendly operation (touch screen, Android, injector clamping)
- compact stand-alone unit
- Maintenance-free
- with connection to workshop's compressed air supply for test pressure generation (2500 bar test pressure with only 6.5 bar compressed air)
- Complete sets of adapters, fittings and plugs for cars, commercial vehicles, buses and industrial engines available
- Technical data:
 - Mains connection 100–240 V~ / 1 Ph / 50 - 60 Hz (+/-10%)
 - Compressed air 6.5–10.0 bar / 400 l/min
 - Compressed air hose length < 10 m / inner diameter > 10 mm
 - Rated current / fuse 5 A
 - Rated power 300 W
 - Storage temperature -25°C ... +60°C
 - Operating temperature +5 °C - +45 °C
 - Standard operating temperature +10 °C - +40 °C
 - Max. pressure (bar) (2x): 1850 / (3x): 2450
 - Tightening torque for high pressure connections 25–30 Nm
 - Clamping diameter 17–32 mm
 - Test oil type / filling quantity ISO 4113 / 3.5 l
 - Test oil filter 2 µm
 - Filling quantity MACC liquid 6.5 l
 - Filter MACC liquid 8 µm
 - Noise emissions < 71.5 dB(A)
 - Dimensions (L x W x H) / weight: 66 x 77 x 79 mm / 70 kg

SCOPE OF DELIVERY

- 1 DISU 4000 test bench including connection and adapter set for all common injectors
- 1 DISU_Z_PIST (041293_1) Illuminated pressure injection chamber, for 7–9 mm nozzles

EQUIPMENT

- DISU_Z_PIST (041293_1) Illuminated pressure injection chamber, for 7–9 mm nozzles
- DISU_Z_RSP (041284_1) Nozzle response time sensor, for all brands, for 7–9 mm nozzles, pressure approx. 2 bar, measurement range 50 ... 4000 µs
- DISU_Z_PIRV.CB (041301_1) Piezo injector return valve set, Continental / Bosch (2/10 bar)
- DISU_Z01 (041285_1) Test liquid, content 5 l
- USB 01_EU (130603_2) Ultrasonic cleaning basin

Injector adapter:

- CRS.01 > Iveco / Cummis / Dodge / Duramax (Bosch 120- 184/ 018/ 114/ 032/ 007/ 161)
- CRS.02 > Iveco / Cummis (Bosch 120- 125/ 070)
- CRS.03 > KHD / Deutz (Bosch 120-067)
- CRS.04 > Renault (Bosch 120-003)
- CRS.05 > Fuso Trucks (Denso 6M60)
- CRS.06 > Fuso Trucks (Bosch 6M70)
- CRS.07 > Cummis (Cummins 4954927)
- CRS.08 > Duramax (Denso 5730)
- CRS.09 > John Deere (Denso 0540)
- CRS.10 > Ford 6.4 l Power Stroke (Siemens 8C3Z-9E527-A)
- CRS.11 > MAN (Bosch 120- 030/ 218/ 100/ 217/ 063)
- CRS.12 > KHD / Deutz (Bosch 120-065)
- CRS.13 > MTU (Bosch 920189903 [3894783, Y431K05210])
- CRS.14 > Denso (Denso 0800 05C0064)
- CRS.15 > MTU-L'Orange (L'ORANZ 934759 [VTO-G266W48B])
- CRS.16 > Iveco (Bosch 120-054)

- CRS.17 > MAN (Bosch 120- 044/ 053/ 045/ 162/ 098)
- CRS.18 > Iveco (Bosch 120-157)
- additional adapters on request.

TEST BENCH FOR 4 CR DIESEL-INJECTORS - 2500 BAR HIGH-END VERSION



item number :

DISU 4000_2500bar (041295_1)

DESCRIPTION

- Professional, automated test bench for maintenance and testing of up to 4 common rail injectors
- Suitable for all common injectors of common rail diesel systems (Bosch, Delphi, Denso, Siemens / VDO / Continental, HTC, Piezo; CDI, TDI, HDI...)
- Future-proof, also suitable for NCC and VCC technology, e.g. for the EU6 injector generation; CRI3-25, CRI3-27, Denso I-Art (6-pin)
- High efficiency due to fast and fully automatic operation and test run as well as lifetime updates for software and database
- Over 2000 injector reference/test values, including free update function
- Simple operation through Android operating system with intuitive user interface and touch screen operation as well as one clamping for all injectors
- Wi-Fi-enabled; e.g. for updates, printing and sending of test reports and support
- Archiving of test reports in Dropbox or via USB
- The special design of the illuminated pressure spray chamber ensures a clear view of the spray pattern – even multiple injections can be checked and diagnosed with optical precision; an incorrect spray pattern or a leaking or clogged injector can be detected quickly and easily
- Environmentally friendly and safe, as no spray mist is produced during the entire injector test
- Uniquely fast and simple clamping system for injectors
- Test duration less than 25 minutes for 4 injectors
- Dynamic electronic mass measurement system
- Injector coding function VDO IIC, Delphi C2i and C3i, Bosch IMA and ISA and Denso QR (optional)
- Regeneration function for piezo injectors
- 10" touch screen
- Test pressure up to 2500 bar
- Inspection/test scope:
 - Dynamic spray pattern test
 - Check of the injector reaction time
 - Injection quantity measurement
 - Full load
 - Half load
 - Emission
 - Low load
 - Pre- and post-injection
 - Injection quantity measurement with rising test curve
 - Test of the nozzle opening pressure
 - Test for leakage / tightness test
 - Static leakage quantity test

- Electrical test of Ω , F, H
- The injector test and service test bench,
 - without moving parts
 - without filtering
 - without temperature calibration
 - with software and database updates via Wi-Fi free of charge and "for life"
 - with free* support via TeamViewer (*two years from purchase)
 - with user-friendly operation (touch screen, Android, injector clamping)
 - compact stand-alone unit
 - Maintenance-free
 - with connection to workshop's compressed air supply for test pressure generation (2500 bar test pressure with only 6.5 bar compressed air)
- Complete sets of adapters, fittings and plugs for cars, commercial vehicles, buses and industrial engines available.
- Technical data:
 - Mains connection 100–240 V~ / 1 Ph / 50 - 60 Hz (+/-10%)
 - Compressed air 6.5–10.0 bar / 400 l/min
 - Compressed air hose length 10 m / inner diameter > 10 mm
 - Rated current / fuse 5 A
 - Rated power 300 W
 - Storage temperature -25°C ... +60°C
 - Operating temperature +5 °C - +45 °C
 - Standard operating temperature +10 °C - +40 °C
 - Max. pressure (bar) (2x): 1850 / (3x): 2450
 - Tightening torque for high pressure connections 25–30 Nm
 - Clamping diameter 17–32 mm
 - Test oil type / filling quantity ISO 4113 / 3.5 l
 - Test oil filter 2 μ m
 - Filling quantity MACC liquid 6.5 l
 - Filter MACC liquid 8 μ m
 - Noise emissions < 71.5 dB(A)
 - Dimensions (L x W x H) / weight: 66 x 77 x 79 mm / 70 kg

SCOPE OF DELIVERY

- 1 DISU 6000 test bench including connection and adapter set for all common injectors
- 1 DISU_Z_PIST (041293_1) Illuminated pressure injection chamber, for 7–9 mm nozzles

EQUIPMENT

- DISU_Z_PIST (041293_1) Illuminated pressure injection chamber, for 7–9 mm nozzles
- DISU_Z_RSP (041284_1) Nozzle response time sensor, for all brands, for 7–9 mm nozzles, pressure approx. 2 bar, measurement range 50 ... 4000 μ s
- DISU_Z_PIRV.CB (041301_1) Piezo injector return valve set, Continental / Bosch (2/10 bar)
- DISU_Z01 (041285_1) Test liquid, content 5 l; USB 01_EU (130603_2) Ultrasonic cleaning basin
- Adapters for injectors:
 - 161) CRS.01 > Iveco / Cummis / Dodge / Duramax (Bosch 120- 184/ 018/ 114/ 032/ 007/
 - CRS.02 > Iveco / Cummis (Bosch 120- 125/ 070)
 - CRS.03 > KHD / Deutz (Bosch 120-067)
 - CRS.04 > Renault (Bosch 120-003)
 - CRS.05 > Fuso Trucks (Denso 6M60)
 - CRS.06 > Fuso Trucks (Bosch 6M70)
 - CRS.07 > Cummis (Cummins 4954927)
 - CRS.08 > Duramax (Denso 5730)
 - CRS.09 > John Deere (Denso 0540)
 - CRS.10 > Ford 6.4 l Power Stroke (Siemens 8C3Z-9E527-A)
 - CRS.11 > MAN (Bosch 120- 030/ 218/ 100/ 217/ 063)
 - CRS.12 > KHD / Deutz (Bosch 120-065)
 - CRS.13 > MTU (Bosch 920189903 [3894783, Y431K05210])
 - CRS.14 > Denso (Denso 0800 05C0064)

- CRS.15 > MTU-L'Orange (L'ORANZ 934759 [VTO-G266W48B])
- CRS.16 > Iveco (Bosch 120-054)
- CRS.17 > MAN (Bosch 120- 044/ 053/ 045/ 162/ 098)
- CRS.18 > Iveco (Bosch 120-157)
- further adapters on request.

TEST BENCH FOR 4 CR DIESEL-INJECTORS - 2200 BAR HIGH-END VERSION (TESTING & CLEANING)



item number :

DISU 4000_2200bar_C (041350_1)

DESCRIPTION

- Professional, automated test bench for maintenance, testing and cleaning of up to 4 common rail injectors
- Suitable for all common injectors of common rail diesel systems (Bosch, Delphi, Denso, Siemens / VDO / Continental, HTC, Piezo; CDI, TDI, HDI...)
- Future-proof, also suitable for NCC and VCC technology, e.g. for the EU6 injector generation; CRI3-25, CRI3-27, Denso I-Art (6-pin)
- High efficiency due to fast and fully automatic operation and test run as well as lifetime updates for software and database
- Over 2000 injector reference/test values, including free update function
- Simple operation through Android operating system with intuitive user interface and touch screen operation as well as one clamping for all injectors
- Wi-Fi-enabled; e.g. for updates, printing and sending of test reports and support
- Archiving of test reports in Dropbox or via USB
- The special design of the illuminated pressure spray chamber ensures a clear view of the spray pattern – even multiple injections can be checked and diagnosed with optical precision; an incorrect spray pattern or a leaking or clogged injector can be detected quickly and easily
- Environmentally friendly and safe, as no spray mist is produced during the entire injector test.
- Uniquely fast and simple clamping system for injectors
- Test duration less than 25 minutes for 4 injectors
- Dynamic electronic mass measurement system
- Injector coding function VDO IIC, Delphi C2i and C3i, Bosch IMA and ISA and Denso QR (optional)
- Regeneration function for piezo injectors
- 10" touch screen
- Test pressure up to 2200 bar
- Inspection/test scope:
- Dynamic spray pattern test
- Check of the injector reaction time
- Injection quantity measurement
- Full load
- Half load
- Emission
- Low load
- Pre- and post-injection

- Injection quantity measurement with rising test curve
- Test of the nozzle opening pressure
- Test for leakage / tightness test
- Static leakage quantity test
- Electrical test of Ω , F, H
- The injector test and service test bench,
 - without moving parts
 - without filtration
 - without temperature calibration
 - with software and database updates via Wi-Fi free of charge and "for life"
 - with free support* via TeamViewer (*two years from purchase)
 - with user-friendly operation (touch screen, Android, injector clamping)
 - compact stand-alone unit
 - Maintenance-free
 - with connection to workshop's compressed air supply for test pressure generation (2200 bar test pressure with only 6.5 bar compressed air)
- Complete sets of adapters, fittings and plugs for cars, commercial vehicles, buses and industrial engines available.
- Technical data:
 - Mains connection 100–240 V~ / 1 Ph / 50 - 60 Hz (+/-10%)
 - Compressed air 6.5–10.0 bar / 400 l/min
 - Compressed air hose length < 10 m / inner diameter > 10 mm
 - Rated current / fuse 5 A
 - Rated power 300 W
 - Storage temperature -25°C ... +60°C
 - Operating temperature +5 °C - +45 °C
 - Standard operating temperature +10 °C - +40 °C
 - Max. pressure (bar) (2x): 1850 / (3x): 2450
 - Tightening torque for high pressure connections 25–30 Nm
 - Clamping diameter 17–32 mm
 - Test oil type / filling quantity ISO 4113 / 3.5 l
 - Test oil filter 2 μ m
 - Filling quantity MACC liquid 6.5 l
 - Filter MACC liquid 8 μ m
 - Noise emissions < 71.5 dB(A)
 - Dimensions (L x W x H) / weight: 66 x 77 x 79 mm / 70 kg

SCOPE OF DELIVERY

- 1 DISU 6000 test bench including connection and adapter set for all common injectors
- 1 DISU_Z_PIST (041293_1) Illuminated pressure injection chamber, for 7–9 mm nozzles

EQUIPMENT

- DISU_Z_PIST (041293_1) Illuminated pressure injection chamber, for 7–9 mm nozzles
- DISU_Z_RSP (041284_1) Nozzle response time sensor, for all brands, for 7–9 mm nozzles, pressure approx. 2 bar, measurement range 50 ... 4000 μ s
- DISU_Z_PIRV.CB (041301_1) Piezo injector return valve set, Continental / Bosch (2/10 bar)
- DISU_Z01 (041285_1) Test liquid, content 5 l
- USB 01_EU (130603_2) Ultrasonic cleaning basin

Injector adapter:

- CRS.01 > Iveco / Cummins / Dodge / Duramax (Bosch 120- 184/ 018/ 114/ 032/ 007/ 161)
- CRS.02 > Iveco / Cummins (Bosch 120- 125/ 070)
- CRS.03 > KHD / Deutz (Bosch 120-067)
- CRS.04 > Renault (Bosch 120-003)
- CRS.05 > Fuso Trucks (Denso 6M60)
- CRS.06 > Fuso Trucks (Bosch 6M70)
- CRS.07 > Cummins (Cummins 4954927)
- CRS.08 > Duramax (Denso 5730)
- CRS.09 > John Deere (Denso 0540)
- CRS.10 > Ford 6.4 l Power Stroke (Siemens 8C3Z-9E527-A)
- CRS.11 > MAN (Bosch 120- 030/ 218/ 100/ 217/ 063)

- CRS.12 > KHD / Deutz (Bosch 120-065)
- CRS.13 > MTU (Bosch 920189903 [3894783, Y431K05210])
- CRS.14 > Denso (Denso 0800 05C0064)
- CRS.15 > MTU-L'Orange (L'ORANZ 934759 [VTO-G266W48B])
- CRS.16 > Iveco (Bosch 120-054)
- CRS.17 > MAN (Bosch 120- 044/ 053/ 045/ 162/ 098)
- CRS.18 > Iveco (Bosch 120-157)
- additional adapters on request.

TEST BENCH FOR 4 CR DIESEL-INJECTORS - 2200 BAR HIGH-END VERSION



item number :

DISU 4000_2200bar_T (041349_1)

DESCRIPTION

- Professional, automated test bench for maintenance and testing of up to 4 common rail injectors
- Suitable for all common injectors of common rail diesel systems (Bosch, Delphi, Denso, Siemens / VDO / Continental, HTC, Piezo; CDI, TDI, HDI...)
- Future-proof, also suitable for NCC and VCC technology, e.g. for the EU6 injector generation; CRI3-25, CRI3-27, Denso I-Art (6-pin)
- High efficiency due to fast and fully automatic operation and test run as well as lifetime updates for software and database
- Over 2000 injector reference/test values, including free update function
- Simple operation through Android operating system with intuitive user interface and touch screen operation as well as one clamping for all injectors
- Wi-Fi-enabled; e.g. for updates, printing and sending of test reports and support
- Archiving of test reports in Dropbox or via USB
- The special design of the illuminated pressure spray chamber ensures a clear view of the spray pattern – even multiple injections can be checked and diagnosed with optical precision; an incorrect spray pattern or a leaking or clogged injector can be detected quickly and easily
- Environmentally friendly and safe, as no spray mist is produced during the entire injector test.
- Uniquely fast and simple clamping system for injectors
- Test duration less than 25 minutes for 4 injectors
- Dynamic electronic mass measurement system
- Injector coding function VDO IIC, Delphi C2i and C3i, Bosch IMA and ISA and Denso QR (optional)
- Regeneration function for piezo injectors
- 10" touch screen
- Test pressure up to 2200 bar
- Inspection/test scope:
 - Dynamic spray pattern test
 - Check of the injector reaction time
 - Injection quantity measurement
 - Full load
 - Half load

- Emission
- Low load
- Pre- and post-injection
- Injection quantity measurement with rising test curve
- Test of the nozzle opening pressure
- Test for leakage / tightness test
- Static leakage quantity test
- Electrical test of Ω , F, H
- The injector test and service test bench,
 - without moving parts
 - without filtration
 - without temperature calibration
 - with software and database updates via Wi-Fi free of charge and "for life"
 - with free* support via TeamViewer (*two years from purchase)
 - with user-friendly operation (touch screen, Android, injector clamping)
 - compact stand-alone unit
 - Maintenance-free
 - with connection to workshop's compressed air supply for test pressure generation (2200 bar test pressure with only 6.5 bar compressed air)
- Complete sets of adapters, fittings and plugs for cars, commercial vehicles, buses and industrial engines available.
- Technical data:
 - Mains connection 100–240 V~ / 1 Ph / 50 - 60 Hz (+/-10%)
 - Compressed air 6.5–10.0 bar / 400 l/min
 - Compressed air hose length < 10 m / inner diameter > 10 mm
 - Rated current / fuse 5 A
 - Rated power 300 W
 - Storage temperature -25°C ... +60°C
 - Operating temperature +5 °C - +45 °C
 - Standard operating temperature +10 °C - +40 °C
 - Max. pressure (bar) (2x): 1850 / (3x): 2450
 - Tightening torque for high pressure connections 25–30 Nm
 - Clamping diameter 17–32 mm
 - Test oil type / filling quantity ISO 4113 / 3.5 l
 - Test oil filter 2 μ m
 - Filling quantity MACC liquid 6.5 l
 - Filter MACC liquid 8 μ m
 - Noise emissions < 71.5 dB(A)
 - Dimensions (L x W x H) / weight: 66 x 77 x 79 mm / 70 kg

SCOPE OF DELIVERY

- 1 DISU 6000 test bench including connection and adapter set for all common injectors
- 1 DISU_Z_PIST (041293_1) Illuminated pressure injection chamber, for 7–9 mm nozzles

EQUIPMENT

- DISU_Z_PIST (041293_1) Illuminated pressure injection chamber, for 7–9 mm nozzles
- DISU_Z_RSP (041284_1) Nozzle response time sensor, for all brands, for 7–9 mm nozzles, pressure approx. 2 bar, measurement range 50 ... 4000 μ s
- DISU_Z_PIRV.CB (041301_1) Piezo injector return valve set, Continental / Bosch (2/10 bar)
- DISU_Z01 (041285_1) Test liquid, content 5 l
- USB 01_EU (130603_2) Ultrasonic cleaning basin

Injector adapter:

- CRS.01 > Iveco / Cummis / Dodge / Duramax (Bosch 120- 184/ 018/ 114/ 032/ 007/ 161)
- CRS.02 > Iveco / Cummis (Bosch 120- 125/ 070)
- CRS.03 > KHD / Deutz (Bosch 120-067)
- CRS.04 > Renault (Bosch 120-003)
- CRS.05 > Fuso Trucks (Denso 6M60)
- CRS.06 > Fuso Trucks (Bosch 6M70)
- CRS.07 > Cummis (Cummins 4954927)
- CRS.08 > Duramax (Denso 5730)

- CRS.09 > John Deere (Denso 0540)
- CRS.10 > Ford 6.4 I Power Stroke (Siemens 8C3Z-9E527-A)
- CRS.11 > MAN (Bosch 120- 030/ 218/ 100/ 217/ 063)
- CRS.12 > KHD / Deutz (Bosch 120-065)
- CRS.13 > MTU (Bosch 920189903 [3894783, Y431K05210])
- CRS.14 > Denso (Denso 0800 05C0064)
- CRS.15 > MTU-L'Orange (L'ORANZ 934759 [VTO-G266W48B])
- CRS.16 > Iveco (Bosch 120-054)
- CRS.17 > MAN (Bosch 120- 044/ 053/ 045/ 162/ 098)
- CRS.18 > Iveco (Bosch 120-157)
- additional adapters on request.

TEST BENCH FOR 1 CR DIESEL-INJECTOR - 2200 BAR BASIC VERSION



item number :

DISU 1200_2200bar (041324_2)

DESCRIPTION

- Professional, automated test bench for maintenance and testing of injectors
- Suitable for all common injectors of common rail diesel systems (Bosch, Delphi, Denso, Siemens / VDO / Continental, HTC, Piezo; CDI, TDI, HDI...)
- High efficiency due to fast and fully automatic operation and test run as well as lifetime updates for software and database
- Over 2000 injector reference/test values, including free update function
- Simple operation through Android operating system with intuitive user interface and touch screen operation as well as one clamping for all injectors
- Wi-Fi-enabled e.g. for updates, printing and sending of test reports and support
- Archiving of test reports in Dropbox or via USB.
- The unique design of the illuminated pressure spray chamber ensures a clear view of the spray pattern. Even multiple injections can be checked and diagnosed with optical precision. An incorrect spray pattern or a leaking or clogged injector can thus be detected quickly and easily
- Environmentally friendly and safe, as no spray mist is produced during the entire injector test
- Uniquely fast and simple clamping system for injectors
- Test duration approx. 12 minutes
- Static, electronic mass measurement system
- Regeneration function for piezo injectors
- 8" touch screen
- Test pressure up to 2200 bar
- Inspection/test scope:
 - Dynamic spray pattern test
 - Check of the injector reaction time
 - Injection quantity measurement
 - Full load
 - Half load
 - Emission

- Low load
- Pre- and post-injection
- Injection quantity measurement with rising test curve
- Test of the nozzle opening pressure
- Test for leakage / tightness test
- Static leakage quantity test
- Electrical test of Ω , F, H
- The injector test and service test bench
 - without moving parts
 - without filtration
 - without temperature calibration
 - with software and database updates via Wi-Fi free of charge and "for life"
 - with free* support via TeamViewer (*two years from purchase)
 - with user-friendly operation (touch screen, Android, injector clamping)
 - compact stand-alone unit
 - Maintenance-free
 - with connection to workshop's compressed air supply for test pressure generation (2500 bar test pressure with only 6.5 bar compressed air)
- Complete sets of adapters, fittings and plugs for cars, commercial vehicles, buses and industrial engines available
- Professional, automated test bench for maintenance and testing of injectors.
- Suitable for all common injectors and systems (Bosch, Delphi, Denso, Conti, HTC, Piezo, G-DI, FSI...)
- Fully automatic operation
- High performance quality product made in Germany

SCOPE OF DELIVERY

- 1 DISU 1200 test bench including connection and adapter set for all common injectors
- 1 DISU_Z_PIST (041293_1) Illuminated pressure injection chamber, for 7–9 mm nozzles

EQUIPMENT

- DISU_Z_RSP (041284_1) Nozzle response time sensor, for all brands, for 7–9 mm nozzles, pressure approx. 2 bar, measurement range 50 ... 4000 μ s
- DISU_Z_PIRV.CB (041301_1) Piezo injector return valve set, Continental / Bosch (2/10 bar)
- DISU_Z01 (041285_1) Test liquid, content 5 l
- USB 01_EU (130603_2) Ultrasonic cleaning basin

Injector adapter:

- CRS.01 > Iveco / Cummis / Dodge / Duramax (Bosch 120- 184/ 018/ 114/ 032/ 007/ 161)
- CRS.02 > Iveco / Cummis (Bosch 120- 125/ 070)
- CRS.03 > KHD / Deutz (Bosch 120-067)
- CRS.04 > Renault (Bosch 120-003)
- CRS.05 > Fuso Trucks (Denso 6M60)
- CRS.06 > Fuso Trucks (Bosch 6M70)
- CRS.07 > Cummis (Cummins 4954927)
- CRS.08 > Duramax (Denso 5730)
- CRS.09 > John Deere (Denso 0540)
- CRS.10 > Ford 6.4 l Power Stroke (Siemens 8C3Z-9E527-A)
- CRS.11 > MAN (Bosch 120- 030/ 218/ 100/ 217/ 063)
- CRS.12 > KHD / Deutz (Bosch 120-065)
- CRS.13 > MTU (Bosch 920189903 [3894783, Y431K05210])
- CRS.14 > Denso (Denso 0800 05C0064)
- CRS.15 > MTU-L'Orange (L'ORANZ 934759 [VTO-G266W48B])
- CRS.16 > Iveco (Bosch 120-054)
- CRS.17 > MAN (Bosch 120- 044/ 053/ 045/ 162/ 098)
- CRS.18 > Iveco (Bosch 120-157)
- additional adapters on request.

TEST BENCH FOR 1 GASOLINE DIRECT INJECTOR - 850 BAR HIGH END VERSION



item number :

GISU 6000_850bar_C (041299_1)

DESCRIPTION

- Professional, automated test bench for maintenance, testing and cleaning of injectors
- Suitable for all common injectors of gasoline direct injection systems (electromagnetic / piezo injectors; CGI, G-DI, FSI, TSI...)
- High efficiency due to fast and fully automatic operation and test run as well as lifetime updates for software and database
- Over 2000 injector reference/test values, including free update function
- Simple operation through Android operating system with intuitive user interface and touch screen operation as well as one clamping for all injectors
- Wi-Fi/WLAN; e.g. for updates, printing and sending of test reports and support
- Archiving of test reports in Dropbox or via USB
- The unique design of the illuminated pressure spray chamber ensures a clear view of the spray pattern. Even multiple injections can be checked and diagnosed with optical precision. An incorrect spray pattern or a leaking or clogged injector can thus be detected quickly and easily
- Environmentally friendly and safe, as no spray mist is produced during the entire injector test
- Uniquely fast and simple clamping system for injectors
- Test duration only about 5 minutes
- Dynamic electronic mass measurement system
- Regeneration function for piezo injectors
- Automatic chemical cleaning and rinsing
- 10" touch screen
- Test pressure up to 850 bar
- Inspection/test scope:
 - dynamic spray pattern test
 - Check of the injector reaction time
 - Injection quantity measurement
 - Full load
 - Half load
 - Emission
 - Low load
 - Pre- and post-injection
- Injection quantity measurement with rising test curve
- Test of the nozzle opening pressure
- Test for leakage / tightness test
- Static leakage quantity test
- Electrical test of Ω , F, H
- The injector test and service test bench,
 - without moving parts
 - without filtering
 - without temperature calibration
 - with software and database updates via Wi-Fi free of charge and "for life"

- with free* support via TeamViewer (* two years from purchase)
- with user-friendly operation (touch screen, Android, injector clamping)
- compact stand-alone unit
- Maintenance-free
- with connection to workshop's compressed air supply for test pressure generation (850 bar test pressure with only 6.5 bar compressed air)
- Complete sets of adapters, fittings and plugs for cars, commercial vehicles, buses and industrial engines available.
- Technical data:
 - Mains connection 100–240 V~ / 1 Ph / 50 - 60 Hz (+/-10%)
 - Compressed air 6.5–10.0 bar / 400 l/min
 - Compressed air hose length 10 m / inner diameter > 10 mm
 - Rated current / fuse 5 A
 - Rated power 300 W
 - Storage temperature -25°C ... +60°C
 - Operating temperature +5 °C - +45 °C
 - Standard operating temperature +10 °C - +40 °C
 - Tightening torque for high pressure connections 25–30 Nm
 - Clamping diameter 17–32 mm
 - Test oil type / filling quantity ISO 4113 / 3.5 l
 - Test oil filter 2 µm
 - Filling quantity MACC liquid 6.5 l
 - Filter MACC liquid 8 µm
 - Noise emissions < 71.5 dB(A)
 - Dimensions (L x W x H) / weight: 66 x 77 x 79 mm / 70 kg

SCOPE OF DELIVERY

- 1 GISU 6000 test bench including connection and adapter set for all common petrol direct injection injectors
- 1 GISU_Z_PIST (041314_1) Illuminated pressure injection chamber, for 8 mm nozzles

EQUIPMENT

- GISU_Z_RSP (041297_1) Nozzle response time sensor, for all brands, for 8 mm nozzles
- GISU_Z01 (041286_1) Test liquid, content 4 l
- GISU_Z02 (041296_1) Cleaning liquid (aMACC), content 2 l
- USB 01_EU (130603_2) Ultrasonic cleaning basin

TEST AND SERVICE TEST BENCH 850 BAR "HIGH END" FOR 1 INJECTOR PETROL DIRECT INJECTION



item number :

GISU 6000_850bar_T (041323_1)

DESCRIPTION

- Professional, automated test bench for maintenance and testing of injectors
- Suitable for all common injectors of gasoline direct injection systems (electromagnetic / piezo injectors; CGI, G-DI, FSI, TSI...)
- High efficiency due to fast and fully automatic operation and test run as well as lifetime updates for software and database
- Over 2000 injector reference/test values, including free update function
- Simple operation through Android operating system with intuitive user interface and touch screen operation as well as one clamping for all injectors
- Wi-Fi/WLAN; e.g. for updates, printing and sending of test reports and support

- Archiving of test reports in Dropbox or via USB
- The unique design of the illuminated pressure spray chamber ensures a clear view of the spray pattern. Even multiple injections can be checked and diagnosed with optical precision. An incorrect spray pattern or a leaking or clogged injector can thus be detected quickly and easily
- Environmentally friendly and safe, as no spray mist is produced during the entire injector test
- Uniquely fast and simple clamping system for injectors
- Test duration only about 5 minutes
- Dynamic electronic mass measurement system
- Regeneration function for piezo injectors
- 10" touch screen
- Test pressure up to 850 bar
- Inspection/test scope:
 - Dynamic spray pattern test
 - Check of the injector reaction time
 - Injection quantity measurement
 - Full load
 - Half load
 - Emission
 - Low load
 - Pre- and post-injection
 - Injection quantity measurement with rising test curve
 - Test of the nozzle opening pressure
 - Test for leakage / tightness test
 - Static leakage quantity test
 - Electrical test of Ω , F, H
- The injector test and service test bench,
 - without moving parts
 - without filtering
 - without temperature calibration
 - with software and database updates via Wi-Fi free of charge and "for life"
 - with free* support via TeamViewer (* two years from purchase)
 - with user-friendly operation (touch screen, Android, injector clamping)
 - compact stand-alone unit
 - Maintenance-free
 - with connection to workshop's compressed air supply for test pressure generation (850 bar test pressure with only 6.5 bar compressed air)
- Complete sets of adapters, fittings and plugs for cars, commercial vehicles, buses and industrial engines available.
- Technical data:
 - Mains connection 100–240 V~ / 1 Ph / 50 - 60 Hz (+/-10%)
 - Compressed air 6.5–10.0 bar / 400 l/min
 - Compressed air hose length 10 m / inner diameter > 10 mm
 - Rated current / fuse 5 A; Rated power 300 W
 - Storage temperature -25°C ... +60°C; Operating temperature +5 °C - +45 °C
 - Standard operating temperature +10 °C - +40 °C
 - Tightening torque for high pressure connections 25–30 Nm
 - Clamping diameter 17–32 mm
 - Test oil type / filling quantity ISO 4113 / 3.5 l
 - Test oil filter 2 μ m
 - Filling quantity MACC liquid 6.5 l
 - Filter MACC liquid 8 μ m
 - Noise emissions < 71.5 dB(A)
 - Dimensions (L x W x H) / weight: 66 x 77 x 79 mm / 70 kg

SCOPE OF DELIVERY

- 1 GISU 6000 test bench including connection and adapter set for all common petrol direct injection injectors

- 1 GISU_Z_PIST (041314_1) Illuminated pressure injection chamber, for 8 mm nozzles
- EQUIPMENT**
- GISU_Z_RSP (041297_1) Düsenreaktionszeitsensor für alle Marken für 8-mm-Düsen
 - GISU_Z01 (041286_1) Testflüssigkeit, Inhalt 4 l
 - GISU_Z02 (041296_1) Reinigungsflüssigkeit (aMACC), Inhalt 2 l
 - USB 01_EU (130603_2) Ultraschallreinigungsbecken

TEST BENCH FOR 1 GASOLINE DIRECT INJECTOR - 450 BAR HIGH END VERSION (TESTING & CLEANING)



item number :

GISU 6000_450bar_C (041357_1)

DESCRIPTION

- Professional, automated test bench for maintenance, testing and cleaning of injectors.
- Suitable for all common injectors of gasoline direct injection systems (electromagnetic / piezo injectors; CGI, G-DI, FSI, TSI...).
- High efficiency due to fast and fully automatic operation and test run as well as lifetime updates for software and database.
- Over 2000 injector reference/test values, including free update function.
- Simple operation through Android operating system with intuitive user interface and touch screen operation as well as one clamping for all injectors.
- Wi-Fi/WLAN; e.g. for updates, printing and sending of test reports and support.
- Archiving of test reports in Dropbox or via USB.
- The unique design of the illuminated pressure spray chamber ensures a clear view of the spray pattern. Even multiple injections can be checked and diagnosed with optical precision. An incorrect spray pattern or a leaking or clogged injector can thus be detected quickly and easily.
- Environmentally friendly and safe, as no spray mist is produced during the entire injector test.
- Uniquely fast and simple clamping system for injectors.
- Test duration only about 5 minutes.
- Dynamic electronic mass measurement system.
- Regeneration function for piezo injectors.
- Automatic chemical cleaning and rinsing.
- 10" touch screen
- Test pressure up to 450 bar
- Inspection/test scope:
 - Dynamic spray pattern test
 - Check of the injector reaction time
 - Injection quantity measurement
 - Full load
 - Half load
 - Emission
 - Low load
 - Pre- and post-injection
 - Injection quantity measurement with rising test curve
 - Test of the nozzle opening pressure
 - Test for leakage / tightness test

- Static leakage quantity test
- Electrical test of Ω , F, H
- The injector test and service test bench,
 - without moving parts
 - without filtration,
 - without temperature calibration
 - with software and database updates via Wi-Fi free of charge and "for life"
 - with free support via TeamViewer
 - with user-friendly operation (touch screen, Android, injector clamping)
 - compact stand-alone unit
 - Maintenance-free
 - with connection to workshop's compressed air supply for test pressure generation (450 bar test pressure with only 6.5 bar compressed air)
- Complete sets of adapters, fittings and plugs for cars, commercial vehicles, buses and industrial engines available.
- Technical data:
 - Mains connection 100–240 V~ / 1 Ph / 50 - 60 Hz (+/-10%)
 - Compressed air 6.5–10.0 bar / 400 l/min
 - Compressed air hose length < 10 m / inner diameter > 10 mm
 - Rated current / fuse 5 A
 - Rated power 300 W
 - Storage temperature -25°C ... +60°C
 - Operating temperature +5 °C - +45 °C
 - Standard operating temperature +10 °C - +40 °C
 - Tightening torque for high pressure connections 25–30 Nm
 - Clamping diameter 17–32 mm
 - Test oil type / filling quantity ISO 4113 / 3.5 l
 - Test oil filter 2 μ m
 - Filling quantity MACC liquid 6.5 l
 - Filter MACC liquid 8 μ m
 - Noise emissions < 71.5 dB(A)
 - Dimensions (L x W x H) / weight: 66 x 77 x 79 mm / 70 kg

SCOPE OF DELIVERY

- 1 GISU 6000 test bench including connection and adapter set for all common petrol direct injection injectors
- 1 GISU_Z_PIST (041314_1) Illuminated pressure injection chamber, for 8 mm nozzles

EQUIPMENT

- GISU_Z_RSP (041297_1) Nozzle response time sensor, for all brands, for 8 mm nozzles
- GISU_Z01 (041286_1) Test liquid, content 4 l
- DGISU_Z02.1 (041296_2) Cleaning liquid (aMACC), content 2,5 l
- USB 01_EU (130603_2) Ultrasonic cleaning basin

TEST BENCH FOR 1 GASOLINE DIRECT INJECTOR - 450 BAR HIGH END VERSION



item number :

GISU 6000_450bar_T (041358_1)

DESCRIPTION

- Professional, automated test bench for maintenance and testing of injectors.

- Suitable for all common injectors of gasoline direct injection systems (electromagnetic / piezo injectors; CGI, G-DI, FSI, TSI...).
- High efficiency due to fast and fully automatic operation and test run as well as lifetime updates for software and database.
- Over 2000 injector reference/test values, including free update function.
- Simple operation through Android operating system with intuitive user interface and touch screen operation as well as one clamping for all injectors.
- Wi-Fi/WLAN; e.g. for updates, printing and sending of test reports and support.
- Archiving of test reports in Dropbox or via USB.
- The unique design of the illuminated pressure spray chamber ensures a clear view of the spray pattern. Even multiple injections can be checked and diagnosed with optical precision. An incorrect spray pattern or a leaking or clogged injector can thus be detected quickly and easily.
- Environmentally friendly and safe, as no spray mist is produced during the entire injector test.
- Uniquely fast and simple clamping system for injectors.
- Test duration only about 5 minutes.
- Dynamic electronic mass measurement system.
- Regeneration function for piezo injectors.
- 10" touch screen
- Test pressure up to 450 bar
- Inspection/test scope:
 - Dynamic spray pattern test
 - Check of the injector reaction time
 - Injection quantity measurement
 - Full load
 - Half load
 - Emission
 - Low load
 - Pre- and post-injection
 - Injection quantity measurement with rising test curve
 - Test of the nozzle opening pressure
 - Test for leakage / tightness test
 - Static leakage quantity test
 - Electrical test of Ω , F, H
- The injector test and service test bench,
 - without moving parts
 - without filtration,
 - without temperature calibration
 - with software and database updates via Wi-Fi free of charge and "for life"
 - with free support via TeamViewer
 - with user-friendly operation (touch screen, Android, injector clamping)
 - compact stand-alone unit
 - Maintenance-free
 - with connection to workshop's compressed air supply for test pressure generation (450 bar test pressure with only 6.5 bar compressed air)
- Complete sets of adapters, fittings and plugs for cars, commercial vehicles, buses and industrial engines available.
- Technical data:
 - Mains connection 100–240 V~ / 1 Ph / 50 - 60 Hz (+/-10%)
 - Compressed air 6.5–10.0 bar / 400 l/min
 - Compressed air hose length < 10 m / inner diameter > 10 mm
 - Rated current / fuse 5 A
 - Rated power 300 W
 - Storage temperature -25°C ... +60°C
 - Operating temperature +5 °C - +45 °C
 - Standard operating temperature +10 °C - +40 °C
 - Tightening torque for high pressure connections 25–30 Nm

- Clamping diameter 17–32 mm
- Test oil type / filling quantity ISO 4113 / 3.5 l
- Test oil filter 2 µm
- Filling quantity MACC liquid 6.5 l
- Filter MACC liquid 8 µm
- Noise emissions < 71.5 dB(A)
- Dimensions (L x W x H) / weight: 66 x 77 x 79 mm / 70 kg

SCOPE OF DELIVERY

- 1 GISU 6000 test bench including connection and adapter set for all common petrol direct injection injectors
- 1 GISU_Z_PIST (041314_1) Illuminated pressure injection chamber, for 8 mm nozzles

EQUIPMENT

- GISU_Z_RSP (041297_1) Nozzle response time sensor, for all brands, for 8 mm nozzles
- GISU_Z01 (041286_1) Test liquid, content 4 l
- GISU_Z02 (041296_1) Cleaning liquid (aMACC), content 2 l
- USB 01_EU (130603_2) Ultrasonic cleaning basin

TEST BENCH FOR 4 GASOLINE DIRECT INJECTORS - 850 BAR HIGH END VERSION (TESTING & CLEANING)



item number :

GISU 4000_850bar_C (041355_1)

DESCRIPTION

- Professional, automated test bench for maintenance, testing and cleaning of up to 4 injectors.
- Suitable for all common injectors of gasoline direct injection systems (electromagnetic / piezo injectors; CGI, G-DI, FSI, TSI...).
- High efficiency due to fast and fully automatic operation and test run as well as lifetime updates for software and database.
- Over 2000 injector reference/test values, including free update function.
- Simple operation through Android operating system with intuitive user interface and touch screen operation as well as one clamping for all injectors.
- Wi-Fi/WLAN; e.g. for updates, printing and sending of test reports and support.
- Archiving of test reports in Dropbox or via USB.
- The unique design of the illuminated pressure spray chamber ensures a clear view of the spray pattern. Even multiple injections can be checked and diagnosed with optical precision. An incorrect spray pattern or a leaking or clogged injector can thus be detected quickly and easily.
- Environmentally friendly and safe, as no spray mist is produced during the entire injector test.
- Uniquely fast and simple clamping system for injectors.
- Test duration only about 15 minutes.
- Dynamic electronic mass measurement system.
- Regeneration function for piezo injectors.
- Automatic chemical cleaning and rinsing.
- 10" touch screen

- Test pressure up to 850 bar
- Inspection/test scope:
 - Dynamic spray pattern test
 - Check of the injector reaction time
 - Injection quantity measurement
 - Full load
 - Half load
 - Emission
 - Low load
 - Pre- and post-injection
 - Injection quantity measurement with rising test curve
 - Test of the nozzle opening pressure
 - Test for leakage / tightness test
 - Static leakage quantity test
 - Electrical test of Ω , F, H
 - The injector test and service test bench,
 - without moving parts
 - without filtration,
 - without temperature calibration
 - with software and database updates via Wi-Fi free of charge and "for life"
 - with free* support via TeamViewer (* two years from purchase)
 - with user-friendly operation (touch screen, Android, injector clamping)
 - compact stand-alone unit
 - Maintenance-free
 - with connection to workshop's compressed air supply for test pressure generation (850 bar test pressure with only 6.5 bar compressed air)
 - Complete sets of adapters, fittings and plugs for cars, commercial vehicles, buses and industrial engines available.
 - Technical data:
 - Mains connection 100–240 V~ / 1 Ph / 50 - 60 Hz (+/-10%)
 - Compressed air 6.5–10.0 bar / 400 l/min
 - Compressed air hose length < 10 m / inner diameter > 10 mm
 - Rated current / fuse 5 A
 - Rated power 300 W
 - Storage temperature -25°C ... +60°C
 - Operating temperature +5 °C - +45 °C
 - Standard operating temperature +10 °C - +40 °C
 - Tightening torque for high pressure connections 25–30 Nm
 - Clamping diameter 17–32 mm
 - Test oil type / filling quantity ISO 4113 / 3.5 l
 - Test oil filter 2 μ m
 - Filling quantity MACC liquid 6.5 l
 - Filter MACC liquid 8 μ m
 - Noise emissions < 71.5 dB(A)
 - Dimensions (L x W x H) / weight: 66 x 77 x 79 mm / 70 kg

SCOPE OF DELIVERY

- 1 GISU 4000 test bench including connection and adapter set for all common petrol direct injection injectors
- 1 GISU_Z_PIST (041314_1) Illuminated pressure injection chamber, for 8 mm nozzles

EQUIPMENT

- GISU_Z_RSP (041297_1) Nozzle response time sensor, for all brands, for 8 mm nozzles
- GISU_Z_PIST (041314_1) Illuminated pressure injection chamber, for 8 mm nozzles
- GISU_Z01 (041286_1) Test liquid, content 4 l
- GISU_Z02 (041296_1) Cleaning liquid (aMACC), content 2 l
- USB 01_EU (130603_2) Ultrasonic cleaning basin

TEST BENCH FOR 4 GASOLINE DIRECT INJECTORS - 850 BAR HIGH END VERSION



item number :

GISU 4000_850bar_T (041356_1)

TEST BENCH FOR 4 GASOLINE DIRECT INJECTORS - 450 BAR HIGH END VERSION



item number :

GISU 4000_450bar_T (041354_1)

DESCRIPTION

- Professional, automated test bench for maintenance and testing of up to 4 injectors.
- Suitable for all common injectors of gasoline direct injection systems (electromagnetic / piezo injectors; CGI, G-DI, FSI, TSI...).
- High efficiency due to fast and fully automatic operation and test run as well as lifetime updates for software and database.
- Over 2000 injector reference/test values, including free update function.
- Simple operation through Android operating system with intuitive user interface and touch screen operation as well as one clamping for all injectors.
- Wi-Fi/WLAN; e.g. for updates, printing and sending of test reports and support.
- Archiving of test reports in Dropbox or via USB.
- The unique design of the illuminated pressure spray chamber ensures a clear view of the spray pattern. Even multiple injections can be checked and diagnosed with optical precision. An incorrect spray pattern or a leaking or clogged injector can thus be detected quickly and easily.
- Environmentally friendly and safe, as no spray mist is produced during the entire injector test.
- Uniquely fast and simple clamping system for injectors.
- Test duration only about 15 minutes.
- Dynamic electronic mass measurement system.
- Regeneration function for piezo injectors.
- 10" touch screen
- Test pressure up to 450 bar
- Inspection/test scope:
 - Dynamic spray pattern test
 - Check of the injector reaction time

- Injection quantity measurement
- Full load
- Half load
- Emission
- Low load
- Pre- and post-injection
- Injection quantity measurement with rising test curve
- Test of the nozzle opening pressure
- Test for leakage / tightness test
- Static leakage quantity test
- Electrical test of Ω , F, H
- The injector test and service test bench,
- without moving parts
- without filtration,
- without temperature calibration
- with software and database updates via Wi-Fi free of charge and "for life"
- with free* support via TeamViewer (* two years from purchase)
- with user-friendly operation (touch screen, Android, injector clamping)
- compact stand-alone unit
- Maintenance-free
- with connection to workshop's compressed air supply for test pressure generation (450 bar test pressure with only 6.5 bar compressed air)
- Complete sets of adapters, fittings and plugs for cars, commercial vehicles, buses and industrial engines available.
- Technical data:
 - Mains connection 100–240 V~ / 1 Ph / 50 - 60 Hz (+/-10%)
 - Compressed air 6.5–10.0 bar / 400 l/min
 - Compressed air hose length < 10 m / inner diameter > 10 mm
 - Rated current / fuse 5 A
 - Rated power 300 W
 - Storage temperature -25°C ... +60°C
 - Operating temperature +5 °C - +45 °C
 - Standard operating temperature +10 °C - +40 °C
 - Tightening torque for high pressure connections 25–30 Nm
 - Clamping diameter 17–32 mm
 - Test oil type / filling quantity ISO 4113 / 3.5 l
 - Test oil filter 2 μ m
 - Filling quantity MACC liquid 6.5 l
 - Filter MACC liquid 8 μ m
 - Noise emissions < 71.5 dB(A)
 - Dimensions (L x W x H) / weight: 66 x 77 x 79 mm / 70 kg

SCOPE OF DELIVERY

- 1 GISU 4000 test bench including connection and adapter set for all common petrol direct injection injectors
- 1 GISU_Z_PIST (041314_1) Illuminated pressure injection chamber, for 8 mm nozzles

EQUIPMENT

- GISU_Z_RSP (041297_1) Nozzle response time sensor, for all brands, for 8 mm nozzles
- GISU_Z_PIST (041314_1) Illuminated pressure injection chamber, for 8 mm nozzles
- GISU_Z01 (041286_1) Test liquid, content 4 l
- GISU_Z02 (041296_1) Cleaning liquid (aMACC), content 2 l
- USB 01_EU (130603_2) Ultrasonic cleaning basin

TEST BENCH FOR 4 GASOLINE DIRECT INJECTORS - 450 BAR HIGH END VERSION (TESTING & CLEANING)



item number :

GISU 4000_450bar_C (041353_1)

DESCRIPTION

- Professional, automated test bench for maintenance, testing and cleaning of up to 4 injectors.
- Suitable for all common injectors of gasoline direct injection systems (electromagnetic / piezo injectors; CGI, G-DI, FSI, TSI...).
- High efficiency due to fast and fully automatic operation and test run as well as lifetime updates for software and database.
- Over 2000 injector reference/test values, including free update function.
- Simple operation through Android operating system with intuitive user interface and touch screen operation as well as one clamping for all injectors.
- Wi-Fi/WLAN; e.g. for updates, printing and sending of test reports and support.
- Archiving of test reports in Dropbox or via USB.
- The unique design of the illuminated pressure spray chamber ensures a clear view of the spray pattern. Even multiple injections can be checked and diagnosed with optical precision. An incorrect spray pattern or a leaking or clogged injector can thus be detected quickly and easily.
- Environmentally friendly and safe, as no spray mist is produced during the entire injector test.
- Uniquely fast and simple clamping system for injectors.
- Test duration only about 15 minutes.
- Dynamic electronic mass measurement system.
- Regeneration function for piezo injectors.
- Automatic chemical cleaning and rinsing.
- 12" touch screen
- Test pressure up to 450 bar
- Inspection/test scope:
 - Dynamic spray pattern test
 - Check of the injector reaction time
 - Injection quantity measurement
 - Full load
 - Half load
 - Emission
 - Low load
 - Pre- and post-injection
 - Injection quantity measurement with rising test curve
 - Test of the nozzle opening pressure
 - Test for leakage / tightness test
 - Static leakage quantity test
 - Electrical test of Ω , F, H
- The injector test and service test bench,
 - without moving parts
 - without filtration,
 - without temperature calibration

- with software and database updates via Wi-Fi free of charge and "for life"
- with free* support via TeamViewer (* two years from purchase)
- with user-friendly operation (touch screen, Android, injector clamping)
- compact stand-alone unit
- Maintenance-free
- with connection to workshop's compressed air supply for test pressure generation (850 bar test pressure with only 6.5 bar compressed air)
- Complete sets of adapters, fittings and plugs for cars, commercial vehicles, buses and industrial engines available.
- Technical data:
 - Mains connection 100–240 V~ / 1 Ph / 50 - 60 Hz (+/-10%)
 - Compressed air 6.5–10.0 bar / 400 l/min
 - Compressed air hose length < 10 m / inner diameter > 10 mm
 - Rated current / fuse 5 A
 - Rated power 300 W
 - Storage temperature -25°C ... +60°C
 - Operating temperature +5 °C - +45 °C
 - Standard operating temperature +10 °C - +40 °C
 - Tightening torque for high pressure connections 25–30 Nm
 - Clamping diameter 17–32 mm
 - Test oil type / filling quantity ISO 4113 / 3.5 l
 - Test oil filter 2 µm
 - Filling quantity MACC liquid 6.5 l
 - Filter MACC liquid 8 µm
 - Noise emissions < 71.5 dB(A)
 - Dimensions (L x W x H) / weight: 66 x 77 x 79 mm / 70 kg

SCOPE OF DELIVERY

- 1 GISU 4000 test bench including connection and adapter set for all common petrol direct injection injectors
- 1 GISU_Z_PIST (041314_1) Illuminated pressure injection chamber, for 8 mm nozzles

EQUIPMENT

- GISU_Z_RSP (041297_1) Nozzle response time sensor, for all brands, for 8 mm nozzles
- GISU_Z_PIST (041314_1) Illuminated pressure injection chamber, for 8 mm nozzles
- GISU_Z01 (041286_1) Test liquid, content 4 l
- GISU_Z02 (041296_1) Cleaning liquid (aMACC), content 2 l
- USB 01_EU (130603_2) Ultrasonic cleaning basin

TEST AND SERVICE TEST BENCH 450 BAR "BASIC" FOR 1 INJECTOR PETROL DIRECT INJECTION



item number :

GISU 1200_450bar (041327_2)

DESCRIPTION

- Professional, automated test bench for maintenance and testing of injectors
- Suitable for all common injectors of gasoline direct injection systems (electromagnetic / piezo injectors; CGI, G-DI, FSI, TSI...)
- High efficiency due to fast and fully automatic operation and test run as well as lifetime updates for software and database
- Over 2000 injector reference/test values, including free update function

- Simple operation through Android operating system with intuitive user interface and touch screen operation as well as one clamping for all injectors
- Wi-Fi/WLAN; e.g. for updates, printing and sending of test reports and support
- Archiving of test reports in Dropbox or via USB
- The unique design of the illuminated pressure spray chamber ensures a clear view of the spray pattern. Even multiple injections can be checked and diagnosed with optical precision. An incorrect spray pattern or a leaking or clogged injector can thus be detected quickly and easily
- Environmentally friendly and safe, as no spray mist is produced during the entire injector test
- Uniquely fast and simple clamping system for injectors
- Test duration only about 8 minutes
- Static, electronic mass measurement system
- Regeneration function for piezo injectors
- 8" touch screen
- Test pressure up to 450 bar
- Inspection/test scope:
 - Dynamic spray pattern test
 - Check of the injector reaction time
 - Injection quantity measurement
 - Full load
 - Half load
 - Emission
 - Low load
 - Pre- and post-injection
 - Injection quantity measurement with rising test curve
 - Test of the nozzle opening pressure
 - Test for leakage / tightness test
 - Static leakage quantity test
 - Electrical test of Ω , F, H
- The injector test and service test bench,
 - without moving parts
 - without filtering
 - without temperature calibration
 - with software and database updates via Wi-Fi free of charge and "for life"
 - with free* support via TeamViewer (* two years from purchase)
 - with user-friendly operation (touch screen, Android, injector clamping)
 - compact stand-alone unit
 - Maintenance-free
 - with connection to workshop's compressed air supply for test pressure generation (850 bar test pressure with only 6.5 bar compressed air)
- Complete sets of adapters, fittings and plugs for cars, commercial vehicles, buses and industrial engines available.

SCOPE OF DELIVERY

- 1 GISU 1200 test bench including connection and adapter set for all common petrol direct injection injectors
- 1 GISU_Z_PIST (041314_1) Illuminated pressure injection chamber, for 8 mm nozzles

EQUIPMENT

- GISU_Z_RSP (041297_1) Nozzle response time sensor, for all brands, for 8 mm nozzles
- GISU_Z01 (041286_1) Test liquid, content 4 l
- GISU_Z02 (041296_1) Cleaning liquid (aMACC), content 2 l
- USB 01_EU (130603_2) Ultrasonic cleaning basin

ACCESSORIES FOR TEST BENCHES

item number :

Accessories DISU/GISU

DESCRIPTION

Model	Description	Ref-No
DISU_Z01	Test fluid, 4l	041285_1
GISU_Z01	Test fluid, 4l	041286_1
DGISU_Z02.1	Cleaner, 2l	041296_2
Adapter Sets	A wide range of adapters for commercial vehicles, trucks, busses and industrial engines is available	on request
DGISU_Z_RSP ^[1] _{SEP}	Nozzle response time sensor, for all makes, for 7 - 9 mm nozzles, pressure ca. 2 bar, measurement range 50...4000 µs	041284_1
DISU_Z_PIST	LED lighted, pressurized injection chamber	041293_1
GISU_Z_PIST		041314_1

ULTRASONIC BATH



item number :
USB 01_EU (130603_1)

DESCRIPTION

- Top-class stainless steel ultrasound device with heating, timer and drain tap
- Ultrasound frequency of 44 kHz; Timer (1–30 min.), continuous operation and auto start when cleaning with heating and set temperature of 30 °C – 80 °C
- Sweep function for optimum sound field distribution in the cleaning liquid, e.g. for large-volume cleaning parts
- Degas function for rapid degassing of (newly prepared) cleaning fluids
- For simple and professional cleaning of injectors, injector parts and small mechanical parts.
- Technical data
- Ultrasound frequency: 37 kHz
- Filling volume max.: 2.75 l
- Working volume: 1.9 l
- External device dimensions W/D/H: 301/189/218 mm
- Internal dimensions of tray W/D/H: 222/122/99 mm
- Internal dimensions of basket W/D/H: 198/106/49 mm
- Weight: 3.3 kg;

EQUIPMENT

Model	Description	Ref-No
USB_Z1	Rack for gasoline direct injectors for USB 01_EU	130611_1
USB_Z2	Rack for diesel common rail injectors for USB 01_EU	130612_1
USB_Z3	Cage for small parts and cover plate for USB 01_EU	130613_1
USB_Z4	Cage for small parts for USB 01_EU	130614_1
USB_Z5	Cover plate for USB 01_EU	130615_1
USB_Z6	Cleanser, concentrate ,1 liter for USB 01_EU	130616_1

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