



Safe and economic testing of commercial vehicle **brake systems**



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Brake tester for commercial vehicle:

Top technology from Bosch for the highest precision

- ▶ BSA 5315 – brake tester for 13 t test load
- ▶ BSA 5615 – brake tester for 16 t test load
- ▶ BSA 5715 – brake tester for 16 t test load for installation in existing pits
- ▶ BSA 5717 – brake tester for 16 t test load with integrated lifting device
- ▶ SDL 9000 – brake tester extension with versatile PC visualization
- ▶ Data Exchange Platform DXP – the efficient workshop software from Bosch
- ▶ DCU 130 – mobile PC with wireless connection as Diagnostic Control Unit for all diagnostic systems
- ▶ Special accessories – comprehensive extension options
- ▶ Order overview – everything at a glance



Fully automatic and expandable: Brake testing for heavyweights



Brake System Analysis for commercial vehicle

The brake testers from Bosch for commercial vehicles combine solid, durable base components with the latest PC technology.

The rapid input of all measurement data with display on the analog display (or digitally on the monitor) and the possibility for gradual extension to create a test line guarantee excellent economy for the workshop. Furthermore, you have the choice between 13 t and 16 t test load and many options for an efficient "one-man operation".

Comfortable testing from the driver's seat per remote control

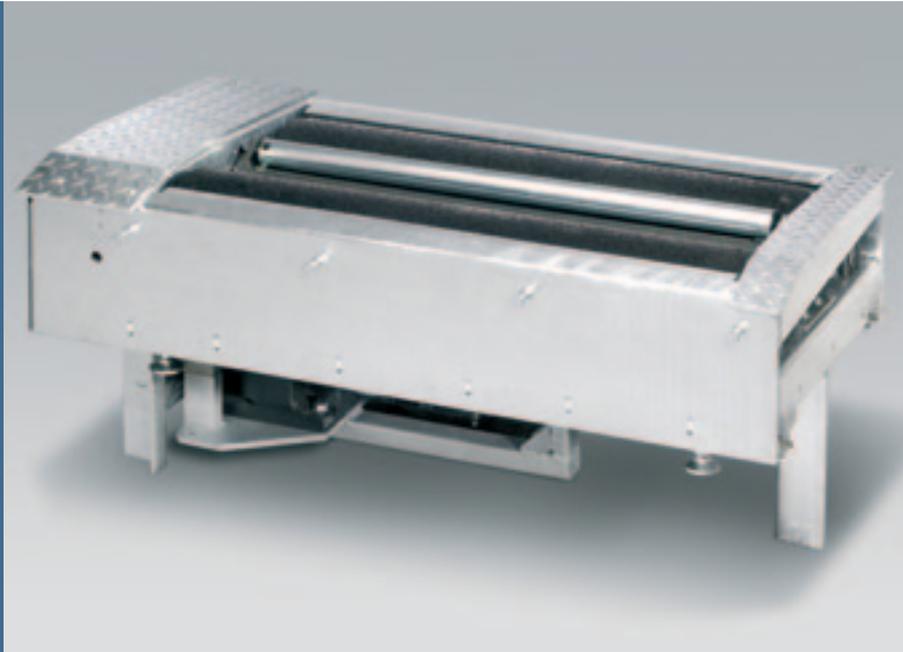
The remote control makes the test sequence possible also from the driver's seat. You command the fully automatic test sequence with a few buttons on the remote control. The collected data are checked and stored via symbol keys. The entire head/trailer synchronization takes place via the remote control. This makes performing the test sequence and commercial vehicle brake diagnosis efficient, rational and convenient from the driver's seat.

Advantages for the workshop at a glance

- ▶ Fully automatic test sequence without any inputs before the test
- ▶ Unit is conceived for "one-man operation", i.e. from the driver's seat per remote control
- ▶ Test and drive rollers with plastic corundum coating¹ ensure good coefficients of friction
- ▶ Rear drive roller super-elevated for testing 3-axle vehicles
- ▶ Automatic recording of the internal brake system pressure, wireless or cable
- ▶ Special air pressure program with graphical display of the actual ALB setting during the brake test and static test independently of brake test operation
- ▶ Special program for head/trailer synchronization and correction of the SP projection (safety test). Test lane database can be integrated
- ▶ Printout with graphics according legal specifications for the test book and head/trailer synchronization
- ▶ Tachograph or driven distance check can be integrated in the test sequence
- ▶ Can be networked with existing workshop organization systems via ASA network

¹ except for BSA 5315 (quartz coating)

Outstandingly economical and efficient: **BSA 5315** for 13 t test load



BSA 5315: brake tester for 13 t test load

The ideal entry into the Brake System Analysis of commercial vehicle.

- ▶ Combined roller set with underfloor motors, conceived for a test load of 13 t
- ▶ Analog display with 2 scales for the brake forces, braking factor in % and track +/- 12 mm/m
- ▶ Preparation for 4-digit LCD display to show pressures, differences, axle or total weight
- ▶ Infrared remote control to control the brake dynamometer from the driver's seat
- ▶ Can be optionally upgraded to PC visualization with 19" monitor

Dynamometer extension with PC visualization SDL 9000

The convenient PC technology with everything that involves. With PC visualization, you exploit all the advantages of modern data processing, even during the test operation. The brake tester can be economically and efficiently networked with your present PC system.

Benefits to the workshop

- ▶ Swivel-mounted analog display 2 x 40 kN
- ▶ Electromagnetic brake
- ▶ Optional:
 - with 4 x 4 roller set
 - Wireless air pressure sensors
 - 8-point-weight-scale
 - 19" monitor (with PC visualization)

Technical data	BSA 5315
Roller set	separated
Dimensions	1,325 x 680 x 590 mm
Overdrive load	15 t
Test load	13 t ≈ 30 kN braking force/wheel
Brake rollers	diameter 205 mm (plastic-quartz coating)
Roller length	1,000 mm
Roller elevation	35 mm
Spur-gear drive motor	2 x 6.5 kW
Test speed	2.2 km/h
Weight	approx. 550 kg (per roller set)

Advantages of PC visualization in focus

- ▶ Comprehensive database for customer vehicles and test results
- ▶ Rapid comparison test with earlier test results is possible
- ▶ Additional measured value display for completion of the entire test sequence
- ▶ Check and setting of the ALB function, purely static before the brake tester (air pressure program)
- ▶ Call-up of all stored measured values



Absolutely reliable and resilient: **BSA 5615** for 16 t test load



The brake testers of the BSA series feature solid quality and sustained durability of the hot-dip galvanized components.

BSA 5615: brake tester for 16 t test load

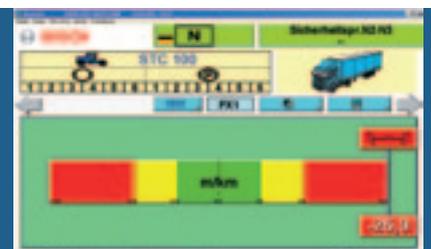
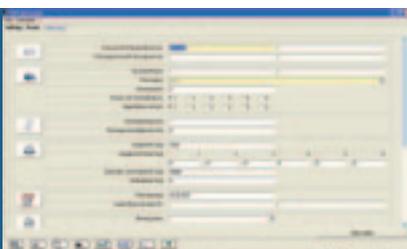
Comprehensively configured for higher vehicle weights.

- ▶ Combined roller set with underfloor motors, conceived for a test load of 16 t
- ▶ Analog display with 2 scales for the brake forces, braking factor in % and track +/- 12 mm/m
- ▶ Preparation for 4-digit LCD display to show pressures, differences, axle or total weight
- ▶ Infrared remote control to control the brake dynamometer from the driver's seat
- ▶ Can be optionally upgraded to PC visualization with 19" monitor

Benefits to the workshop

- ▶ Swivel-mounted analog display 2 x 40 kN
- ▶ Electromagnetic brake
- ▶ 2-speed at 2.4 / 4.8 km/h
- ▶ Optional:
 - with 4 x 4 roller set
 - Wireless air pressure sensors
 - 8-point-weight-scale
 - 19" monitor (with PC visualization)

Technical data	BSA 5615
Roller set	separated
Dimensions	1,300 x 1,160 x 666 mm (1,000 mm roller)
Overdrive load	18 t
Test load	16 t ≈ 40 kN braking force/wheel
Brake rollers	diameter 280 mm (plastic-corundum coating)
Roller length	1,000 mm
Roller elevation	50 mm
Spur-gear drive motor	2 x 12.5 kW
Test speed	2.4 km/h or 4.8 km/h
Weight	approx. 600 kg (per roller set)



Best quality for the toughest use: **BSA 5715** for 16 t test load



BSA 5715: brake tester for 16 t test load and installation in existing pits

Optimized for expansion of an existing workshop infrastructure.

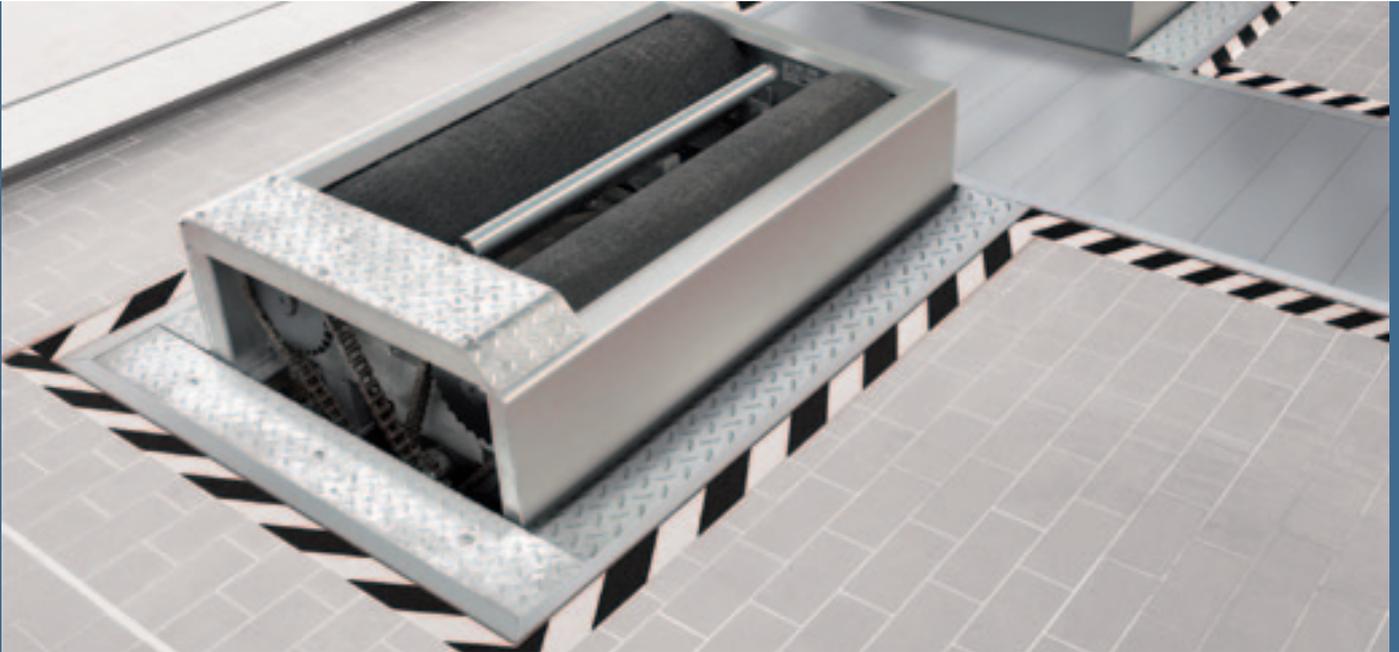
- ▶ Combined roller set with underfloor motors, conceived for a test load of 16 t
- ▶ Analog display with 2 scales for the brake forces, braking factor in % and track +/- 12 mm/m
- ▶ Preparation for 4-digit LCD display to show pressures, differences, axle or total weight
- ▶ Infrared remote control to control the brake dynamometer from the driver's seat
- ▶ Can be optionally upgraded to PC visualization with 19" monitor

Benefits to the workshop

- ▶ Conceived for installation in existing pits. (Observe minimum dimensions in the planning folder)
- ▶ Swivel-mounted analog display 2 x 40 kN
- ▶ Electromagnetic brake
- ▶ 2-speed at 2.4 / 4.8 km/h
- ▶ 8-point-weight-scale
- ▶ Optional:
 - with 4 x 4 roller set
 - Wireless air pressure sensors
 - 19" monitor (with PC visualization)

Technical data	BSA 5715
Roller set	separated
Dimensions	1,400 x 858 x 666 mm (1,100 mm roller)
Overdrive load	18 t
Test load	16 t ≈ 40 kN braking force/wheel
Brake rollers	diameter 280 mm (plastic-corundum coating)
Roller length	1,100 mm
Roller elevation	50 mm
Spur-gear drive motor	2 x 12.5 kW
Test speed	2.4 km/h or 4.8 km/h
Weight	approx. 600 kg (per roller set)

Comprehensively equipped for all cases: **BSA 5717** for 16 t test load



BSA 5717: brake tester with integrated lifting device for 16 t test load

The maximum equipment for diverse conditions of use.

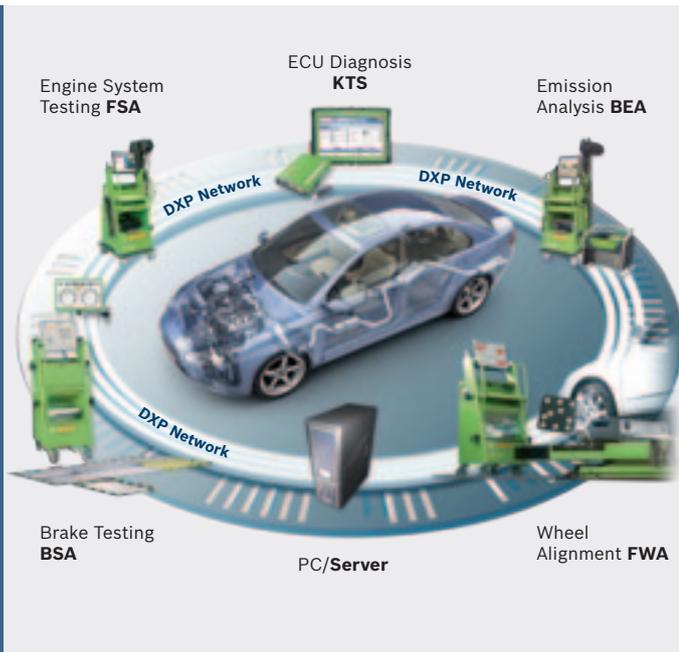
- ▶ Combined roller set with underfloor motors, conceived for a test load of 16 t with integrated lifting device for weight simulation
- ▶ Analog display with 2 scales for the brake forces, braking factor in % and track +/- 12 mm/m
- ▶ Preparation for 4-digit LCD display to show pressures, differences, axle or total weight
- ▶ Infrared remote control to control the brake dynamometer from the driver's seat
- ▶ Can be optionally upgraded to PC visualization with 19" monitor
- ▶ The hydraulic lifting device has an adjustable lifting height of 0 - 250 mm
- ▶ The roller set in the lifting device is equipped with 8-point-weight-scale
- ▶ Bosch-Rexroth hydraulic unit combined with only one lifting cylinder on each side
- ▶ A complete unit with installation frame
- ▶ Additional use of lashing straps for holding down is possible
- ▶ External operating unit (upwards / downwards buttons) and operation via the wireless remote control of the brake dynamometer are possible

Benefits to the workshop

- ▶ Hydraulic lifting device for weight simulation 10 t
 - ▶ Swivel-mounted analog display 2 x 40 kN
 - ▶ Electromagnetic brake
 - ▶ 2-speed at 2.4 / 4.8 km/h
 - ▶ 8-point-weight-scale
- Optional:
- with 4 x 4 roller set
 - Wireless air pressure sensors
 - 19" monitor (with PC visualization)

Technical data	BSA 5717
Roller set	separated
Dimensions	1,600 x 1,210 x 1,450 mm (1,100 mm roller)
Overdrive load	18 t
Test load	16 t ≈ 40 kN braking force / wheel
Max. weight simulation	12.5 t
Maximum lift	250 mm
Brake rollers	diameter 280 mm (plastic-corundum coating)
Roller length	1,100 mm
Roller elevation	50 mm
Spur-gear drive motor	2 x 12.5 kW
Test speed	2.4 km/h or 4.8 km/h
Weight	approx. 600 kg (per roller set)

Data Exchange Platform DXP for even more economical processes in the workshop



New! Data Exchange Platform DXP – the efficient workshop software from Bosch

- ▶ Networking of all diagnostic devices
- ▶ Fast, simple, reliable data exchange between all PC-based testers in the workshop
- ▶ Direct activation of the ECU diagnosis (KTS) from every DXP-networked test system
- ▶ Central storage of identification data and result records and exchange with the Workshop Management System (WMS)

Once recorded – accessible at any time, and everywhere

DXP from Bosch transfers all vehicle data recorded by a system to all other diagnostic systems integrated in the DXP network. Once identified, input of the license plate number or VIN (Vehicle Identification Number) is sufficient to call up the vehicle data at all workstations. This saves time. All testers from Bosch, Beissbarth and Sicam have networking-capability.

The software can be installed on every workshop PC with at least 2 GB main memory, a 150 GB hard disk, and Dual Core processor.

New! DCU 130 – mobile tablet PC from Bosch as universal Diagnostic Control Unit for all diagnostics systems

DCU 130 provides the workshop with a complete mobile solution for the control of all diagnostic systems from Bosch as well as access to advanced technical information for vans, commercial vehicles and buses.

The connection to the test system via a class 1 wireless Bluetooth connection enables non-disruptive data transmission over up to 100 meters. All cable connections usual for today's PCs are available.

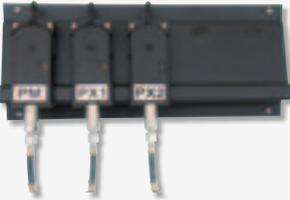
Flexible and versatile in use

The DCU 130 with its 13.3" touchscreen monitor is fitted in a particularly robust housing. Two separate lithiumion batteries enable mobile deployment everywhere in the workshop or even during a test drive. The DCU 130 can be operated with one battery while the other is being charged.

Additional advantages for the workshop

- ▶ Operation and visualization from the driver's seat
- ▶ Replacement of a workshop PC

Special accessories BSA for commercial vehicles

Illustration	Description of special accessories	Order number
	<p>Assembling frame set for BSA 5315 (installation with pit)</p>	1 691 882 004
	<p>Assembling frame set for BSA 5615 (without pit) Assembling frame set for BSA 5615 (with pit)</p>	1 691 881 081 1 691 881 082
	<p>LCD display set, 6-digit</p> <p>The large LCD display shows the precise value in %, the braking factor in % or the control pressures Pm/Px. This also enables a check of the ALB functions (automatic load-dependent load-sensing valve).</p>	1 691 801 001
	<p>Pit safety device</p> <p>Pit safety device, light-barrier-controlled, for shutting off the "automatic function" of the brake dynamometer if the danger zone in the pit is entered, safeguard up to 15 m, transmitter and recipient firmly mounted. Onsite provision of cable ducts from the roller set to the control cabinet.</p>	1 692 100 002
	<p>Air pressure sensor set</p> <p>The radio-controlled air pressure sensor set enables you to record the control pressure PM and axle braking pressure PX from the axle during a brake test. The housing of the sensors is watertight and shock-resistant, configured for long-term value retention. Replaceable batteries and a charging station for each sensor guarantee efficient deployment.</p>	1 691 430 002
	<p>8-point axle load weight scales</p> <p>With assembly set for roller set, important for axle braking factor, dynamic weight measurement and tractor/trailer synchronization.</p>	1 691 801 012
	<p>Play detector AST 8508</p> <p>As standard, the play detector AST 8508 is part of the equipment of any brake repair service. You use it to diagnose and localize damage and wear on kingpins, bushings, links, spring bolts, track-rod ends, steering components etc. The movements of the two test plates, each in eight directions, are executed by means of a hydraulic unit that you control using a cable remote control or let run in the automatic mode.</p>	1 691 850 100

Special accessories BSA for commercial vehicles

Illustration	Description of special accessories	Order number
	<p>Clamping device</p> <p>The clamping device is used for easy simulation of axle loads up to 10 t to prevent preliminary time slip override during the brake testing. This can occur above all on the rear axle of a tractor vehicle without semitrailers or on trailers with double or triple axles.</p> <p>The simulation is controlled by means of a unit that applies the tractive force to the belts via the hydraulic cylinder.</p>	1 692 102 000

Other special accessories can be used for all configurations	Order number
Printer extension cable, 2 m	1 693 770 104
Printer extension cable, 10 m	1 691 811 087
RS 232 connecting cable, 50 m	1 691 811 085
RS 232 connecting cable, 30 m	1 691 811 086
Printer set for control cabinet	1 691 800 001
8-point axle load weight scales add-on cabinet	1 691 601 038
Control cabinet heating	1 691 811 088
Roller set heating (including control cabinet wiring)	1 691 801 035
30 m extension cable, sensor connection and 2 motor cables	1 691 811 089
Sensor connection box with cable 30 m	1 691 801 103
PC cabinet 19", with printer, with IR remote control	1 691 701 300
PC visualization set BSA 53xx/56xx/57xx	1 691 801 017
Assembly set for roller set without scales (BSA 5315/BSA 5615)	1 691 811 048
DCU 130	1 690 570 010
RS232-Bluetooth Converter	1 691 801 141
Dongle #3 (is required for visualization, with connectivity to SP Manager)	1 691 708 006
LCD display set (6-digit)	1 691 801 001
SDL 515 Fast track measurement (waterproof)	1 691 841 007

Part numbers and equipment supply

BSA 5315

BSA 5315 S40	Order number
Roller set, left	1 691 880 400
Roller set, right	1 691 880 401
Display	1 691 810 430
Control cabinet	1 691 880 405

BSA 5315 S41	Order number
Roller set, left	1 691 880 402
Roller set, right	1 691 880 403
Display	1 691 810 431
Control cabinet	1 691 880 406
Air pressure sensors MRS 433	1 691 430 002

BSA 5615

BSA 5615 S40	Order number
Roller set, left	1 691 810 432
Roller set, right	1 691 810 433
Display	1 691 810 430
Control cabinet	1 691 810 438

BSA 5615 S41	Order number
Roller set, left	1 691 810 434
Roller set, right	1 691 810 435
Display	1 691 810 431
Control cabinet	1 691 810 439
Air pressure sensors MRS 433	1 691 430 002

BSA 5715

BSA 5715 S40	Order number
Roller set, left	1 691 810 440
Roller set, right	1 691 810 441
Display	1 691 810 430
Control cabinet	1 691 810 438

BSA 5715 S41	Order number
Roller set, left	1 691 810 400
Roller set, right	1 691 810 441
Display	1 691 810 431
Control cabinet	1 691 810 439
Air pressure sensors MRS 433	1 691 430 002

BSA 5717

BSA 5717 S40	Order number
Roller set, left	1 691 810 436
Roller set, right	1 691 810 437
Display	1 691 810 430
Control cabinet	1 691 810 438
Lifting device, left	1 691 830 010
Lifting device, right	1 691 830 011

BSA 5717 S41	Order number
Roller set, left	1 691 810 436
Roller set, right	1 691 810 437
Display	1 691 810 431
Control cabinet	1 691 810 439
Air pressure sensors MRS 433	1 691 430 002
Lifting device, left	1 691 830 010
Lifting device, right	1 691 830 011

Overview: Technical data and equipment supply

Technical data		BSA 5315 S40	BSA 5315 S41
Overdrive load [t]		15	15
Test load [t]		13	13
Test speed [km/h]		2.2	2.2
Motor power [kW]		2 x 6.5	2 x 6.5
Roller coefficient of friction wet/dry		0.8 - 0.6	0.8 - 0.6
Min. test width [mm]		800	800
Max. test width [mm]		3,000	3,000
Roller diameter [mm]		205	205
Roller elevation [mm]		1,000	1,000
Roller camber [mm]		35	35
Display range commercial vehicles/passenger cars [kN]		2 x 0-8 / 0-40	2 x 0-8 / 0-40
Lifting device test load (vehicle down) [t]		–	–
Lifting device test load (vehicle raised) [t]		–	–
Lifting device overdrive load [t]		–	–
Lifting device max. weight simulation [t]		–	–
Lifting device maximum lift [mm]		–	–
Dimensions & specifications			
Width [mm]		1,340	1,340
Length [mm]		730	730
Depth [mm]		590	590
Floor unit, fully galvanized		●	●
Roller plastic corundum coating		●	●
Roller expanded metal for spike tires		–	–
Roller set installation for two travel directions		○	○
Electromagnetic brake		●	●
Accessories / options	Order number	BSA 5315 S40	BSA 5315 S41
Wall mounting, complete, for display and TFT monitor	1 691 801 099	●	●
IR remote control	1 691 801 004	●	●
Assembling frame BSA 5315	1 691 881 204	○	○
Assembling frame BSA 5315 Bid (with drive-on ramp)	1 691 881 205	○	○
Assembling frame BSA 5615 / 1,000 mm, without pit	1 691 811 081	–	–
Assembling frame BSA 5615 / 1,100 mm, without pit	1 691 811 083	–	–
Assembling frame BSA 5615 / 1,000 mm, with pit	1 691 811 082	–	–
Assembling frame BSA 5615 / 1,100 mm, with pit	1 691 811 084	–	–
Roller cover plates BSA 5315	1 691 881 309	○	○
Roller cover plates BSA 5615 1,100 mm	1 691 811 032	–	–
Roller cover plates BSA 5715 1,100 mm	1 691 811 037	–	–
8-point-weight-scale BSA 5315	1 691 881 101	○	●
8-point-weight-scale BSA 5615/5715	1 691 801 012	–	–
Assembly set for roller set assembly without set of scales	1 691 811 048	●	●
Package for reversal of direction of rotation (4 x 4)	1 691 801 003	–	–
Roller set heating BSA 5615	1 691 801 035	–	–
LCD display set (6-digit)	1 691 801 001	○	●
Pit safety device, complete, adjustable	1 692 100 002	○	○
Additional swiveling bracket for pit safety device	1 692 100 101	○	○
BSZ 433 wireless air pressure sensors (PM/PX1/PX2)	1 691 430 002	○	●
Play detector AST 8508	1 691 850 100	○	○
Assembling frame for AST 8508	1 691 851 101	○	○
Spun down device for simulation up to 10 t axle load	1 692 102 000	○	○

– unavailable ○ optional ● standard

BSA 5615 S40	BSA 5615 S41	BSA 5715 S40	BSA 5715 S41	BSA 5717 S40	BSA 5717 S41
18	18	18	18	18	18
16	16	16	16	16	16
2.4 / 4.8	2.4 / 4.8	2.4 / 4.8	2.4 / 4.8	2.4 / 4.8	2.4 / 4.8
2 x 12.5					
0.8 - 0.6	0.8 - 0.6	0.8 - 0.6	0.8 - 0.6	0.8 - 0.6	0.8 - 0.6
800	800	800	800	800	800
3,000	3,000	3,000	3,000	3,000	3,000
280	280	280	280	280	280
1,000	1,000	1,100	1,100	1,100	1,100
50	50	50	50	50	50
2 x 0-8 / 0-40					
-	-	-	-	16	16
-	-	-	-	10	10
-	-	-	-	16	16
-	-	-	-	12.5	12.5
-	-	-	-	250	250
1,150	1,150	860	860	1,210	1,210
1,300	1,300	1,400	1,400	1,600	1,600
660	660	660	660	1,450	1,450
●	●	●	●	●	●
●	●	●	●	●	●
○	○	○	○	-	-
○	○	○	○	○	○
●	●	●	●	●	●
BSA 5615 S40	BSA 5615 S41	BSA 5715 S40	BSA 5715 S41	BSA 5717 S40	BSA 5717 S41
●	●	●	●	●	●
●	●	●	●	●	●
-	-	-	-	-	-
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○	●	●	●	●	●
●	●	●	●	●	●
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Bosch: Bringing you the workshop of the future

For over 125 years, Bosch innovations have been keeping vehicles on the road and getting people to and from their destinations while improving safety and peace of mind along the way.

Bosch Automotive Aftermarket offers workshops and retailers a comprehensive portfolio of products that is unmatched worldwide:

- ▶ Efficient diagnostics
- ▶ Innovative workshop equipment
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From parts to scheduling, organization and results, our solutions are combined with additional services to ensure your needs will be perfectly met, helping you to maximize your potential.

Workshop tip:

With its expertise from original equipment, Bosch offers the workshop a holistic range of workshop test equipment, software, training and know-how. For reliable vehicle service, today and in the future.

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- ▶ Technical hotline
- ▶ Knowledge database
- ▶ Service Training
- ▶ Workshop concepts

Technical changes and program modifications are reserved

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