



Press release  
18 May 2012

## **Innovations designed to provide extreme driving fun and even greater efficiency.** **MINI presents the new John Cooper Works models.**

**Munich.** In keeping with the times, MINI will inject the ultra-sporty performance characteristics of its John Cooper Works models with even greater efficiency from July 2012 with the introduction of a new-generation engine and other far-reaching powertrain innovations. Fresh from an intensive course of further development, the twin-scroll turbo engine develops the same levels of output and torque as its predecessor, but will make drivers' hearts beat faster with its even quicker responses and stoke their admiration with substantially reduced fuel consumption and emissions. A much broader spread of MINIMALISM technology helps to enhance the efficiency of the John Cooper Works models, and all members of the sub-brand's line-up can now be fitted as an option with a six-speed automatic gearbox. Added to which, the MINI John Cooper Works Countryman comes with the MINI ALL4 all-wheel-drive system as standard.

### **New-generation engine for the John Cooper Works models offers instantaneous power delivery and a restrained appetite for fuel.**

An outstanding baseline concept and a constant flow of innovations provide the basis for sustained success in race competition and beyond. Indeed, a rigorously applied strategy of further development has also given the road-spec John Cooper Works models a decisive edge in their respective segments. Expertise refined over years of motor sport involvement has ensured ultra-sporty driving fun by perfecting the interplay of a powerful engine, advanced chassis technology, and bespoke exterior and interior design elements. And so the John Cooper Works models are poised to embark on the new season stronger than ever and with fresh power under the bonnet.

The family of elite athletes in the MINI ranks welcomes another new member in the shape of the MINI John Cooper Works Countryman. The five-door model is fitted with a particularly powerful variant of

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the new-generation engine. Its 160 kW/218 hp is channelled through an all-wheel-drive system to deliver a new take on outstanding performance that can be enjoyed not only on the road but also over rough terrain. Peak torque of 280 Newton metres (207 lb-ft) is available between 1,900 and 5,600 rpm, and the MINI John Cooper Works Countryman dashes from 0 to 100 km/h (62 mph) in just 7.0 seconds – regardless of whether the power flows through the standard six-speed manual gearbox or the optional six-speed automatic. Top speed is 225 km/h / 140 mph (automatic: 223 km/h / 139 mph). Equally impressive is average fuel consumption in the EU test cycle of 7.4 litres per 100 kilometres / 38.2 mpg (automatic: 7.9 l/100 km / 35.8 mpg) and CO<sub>2</sub> emissions of 172 grams (184 g) per kilometre.

The new-generation engine can also be found in the MINI John Cooper Works, MINI John Cooper Works Clubman, MINI John Cooper Works Convertible, MINI John Cooper Works Coupe and MINI John Cooper Works Roadster. The further developed powerplant is based on the unit in the MINI Cooper S and likewise uses a twin-scroll turbocharger, petrol direct injection and variable valve control based on the BMW Group's VALVETRONIC system. This throttle-free load control technology optimises both the responsiveness of the engine and its efficiency; lightning-fast reactions to the driver's requests for power go hand-in-hand with a restrained appetite for fuel.

The technical make-up of the 1.6-litre four-cylinder engine – which sports a John Cooper Works logo on its cover – has a direct link to the development of race-trim engines and has been honed exclusively for the John Cooper Works models. Its cylinder block and bearing mounts are made from aluminium and join forces with reinforced pistons, a particularly high-strength cylinder head and low-weight crankshafts. The exhaust valves are sodium-filled to help provide the extra cooling required by a turbocharged engine, and the intake camshaft features infinite phase adjustment.



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The turbocharger, meanwhile, develops even greater charge pressure than the engine in the MINI Cooper S Coupe. The likewise bespoke exhaust system can be identified from the outside by its polished stainless steel twin tailpipes.

The engine produces its maximum output of 155 kW/211 hp at 6,000 rpm, while peak torque of 260 Newton metres (192 lb-ft) is on tap between 1,850 and 5,600 rpm. The overboost function allows this figure to be raised to 280 Newton metres (207 lb-ft) for a short time between 2,000 and 5,200 rpm.

The new engine links up as standard with a six-speed manual gearbox tuned to suit its performance characteristics. However, the John Cooper Works models can now also be ordered as an option with a six-speed automatic gearbox with Steptronic function. The automatic also allows the driver to change gear manually using either the selector lever or the shift paddles on the steering wheel.

### **MINIMALISM technology delivers top performance and increased range.**

In addition to the improvements made to the engine's efficiency, the more extensive use of fuel consumption and emissions-reducing technology makes the John Cooper Works models more credible ambassadors than ever for the principle of MINIMALISM. Only rarely will the unparalleled driving fun need to be interrupted to refuel, thanks to technology such as Brake Energy Regeneration, which concentrates power generation for the in-vehicle network during periods under braking and on the overrun. Working in tandem with the manual gearbox, the Auto Start/Stop function switches the engine off automatically when the car stops at junctions and in traffic tailbacks, while the Shift Point Display advises the driver of the most efficiency-enhancing moment to change gear. The electric power steering also does its bit to reduce fuel consumption, its electric motor only using energy when power assistance is actually needed.



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This array of innovations has helped optimise the balance between driving fun and fuel consumption displayed by all the John Cooper Works models. Indeed, fuel consumption in the EU test cycle has been cut by up to 0.5 litres per 100 kilometres, depending on the model. The MINI John Cooper Works races from 0 to 100 km/h (62 mph) in 6.5 seconds (automatic: 6.7 sec) on the way to a top speed of 238 km/h / 148 mph (236 km/h / 147 mph). Average fuel consumption stands at 6.6 litres per 100 kilometres / 42.8 mpg (automatic: 7.1 l/100 km / 39.8 mpg) and CO<sub>2</sub> emissions come in at 153 grams (165 g) per kilometre.

The MINI John Cooper Works Clubman also blends imposing acceleration – 0 to 100 km/h (62 mph) in 6.8 seconds (automatic: 7.0 sec) – and a top speed of 238 km/h / 148 mph (236 km/h / 147 mph) with exemplary fuel economy of 6.7 litres per 100 kilometres / 42.2 mpg (automatic: 7.2 l/100 km / 39.2 mpg) and CO<sub>2</sub> emissions of 155 grams (167 g) per kilometre.

The MINI John Cooper Works Convertible sprints from rest to 100 km/h (62 mph) in 6.9 seconds (automatic: 7.1 sec) and reaches a top speed of 235 km/h / 146 mph (233 km/h / 145 mph). Yet its fuel consumption is just 6.8 litres per 100 kilometres / 41.5 mpg (automatic: 7.3 l/100 km / 38.7 mpg) and CO<sub>2</sub> emissions are limited to 157 grams (169 g) per kilometre.

A 0 to 100 km/h (62 mph) time of 6.4 seconds (automatic: 6.6 sec) makes the MINI John Cooper Works Coupe the fastest-accelerating of these elite athletes, and it also boasts a top speed of 240 km/h / 149 mph (238 km/h / 148 mph). This outstanding sporting potency belies average fuel consumption of 6.6 litres per 100 kilometres / 42.8 mpg (automatic: 7.1 l/100 km / 39.8 mpg) and CO<sub>2</sub> emissions of 153 grams (165 g) per kilometre. The MINI John Cooper Works Roadster reaches 100 km/h (62 mph) from rest in 6.5 seconds (automatic: 6.7 sec) and continues on to a top speed of 237 km/h / 147 mph (235 km/h / 146 mph). Its average fuel consumption comes in at 6.8 litres per 100 kilometres / 41.5 mpg



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(automatic: 7.3 l/100 km / 38.7 mpg), with CO<sub>2</sub> emissions recorded as 157 grams (169 g) per kilometre.

### **Racing feeling and unmistakable style.**

All John Cooper Works models combine their stand-out sporting potential with unmistakable looks and special equipment features which accentuate the feeling of race competition both inside the car and out. Standard specification includes the Sport Button (which allows the driver to tweak the car's accelerator responses and steering characteristics), particularly powerful brakes, the DSC (Dynamic Stability Control) system including DTC (Dynamic Traction Control) and EDLC (Electronic Differential Lock Control) for the driven axle, plus bespoke 17-inch light-alloy wheels (MINI John Cooper Works Countryman: 18-inch) and runflat tyres. The likewise standard John Cooper Works aerodynamic kit optimises both the airflow over and around the cars, and their visual impact. Exclusive paint finishes and roof colours, plus an ultra-sporty interior ambience with special seat upholstery variants and interior trim elements, add further bespoke touches. Customers can now order Striped Alloy and Pepper White interior trim elements, for example. And the standard-fitted sports steering wheel now features a John Cooper Works logo in the lower section of the centre spoke.

The John Cooper name has embodied the successful relationship between the British small car and sporting competition for several decades. It was back in the 1960s that the legendary sports car designer hit upon the idea of injecting a fresh dose of enjoyment into everyday road driving, and extra-potent variants of the classic MINI soon carried his name. Today, the MINI sub-brand John Cooper Works represents the epitome of race-track feeling and stand-out performance. The six elite athletes that make up the John Cooper Works range, along with options and accessories designed to enhance the agility of any MINI and lend all variants of the car a more defined sporting character, create a powerful advertisement for the brand's motor sport genes.



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### **The BMW Group**

The BMW Group is one of the most successful manufacturers of automobiles and motorcycles in the world with its BMW, MINI, Husqvarna Motorcycles and Rolls-Royce brands. As a global company, the BMW Group operates 25 production and assembly facilities in 14 countries and has a global sales network in more than 140 countries.

In 2011, the BMW Group sold about 1.67 million cars and more than 113,000 motorcycles worldwide. The profit before tax for the financial year 2011 was euro 7.38 billion on revenues amounting to euro 68.82 billion. At 31 December 2011, the BMW Group had a workforce of approximately 100,000 employees.

The success of the BMW Group has always been built on long-term thinking and responsible action. The company has therefore established ecological and social sustainability throughout the value chain, comprehensive product responsibility and a clear commitment to conserving resources as an integral part of its strategy. As a result of its efforts, the BMW Group has been ranked industry leader in the Dow Jones Sustainability Indexes for the last seven years.

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# Specifications.

## MINI John Cooper Works, MINI John Cooper Works Automatic.



(Status: May 2012)

Body	MINI John Cooper Works		MINI John Cooper Works Automatic	
No of doors/seats		3 / 4		3 / 4
Length/width/height	mm	3758 / 1683 / 1407		3758 / 1683 / 1407
Wheelbase	mm	2467		2467
Track, front/rear	mm	1453 / 1461		1453 / 1461
Turning circle	m	10.7		10.7
Tank capacity	approx l	50		50
Cooling system incl heater	l	7.5		7.5
Engine oil	l	4.2		4.2
Transmission oil incl drive	l	Lifetime		Lifetime
Weight, unladen to DIN/EU <sup>1</sup>	kg	1160 / 1235		1185 / 1260
Max load to DIN	kg	450		450
Max permissible weight	kg	1700		1725
Max axle load, front/rear	kg	875 / 755		900 / 755
Max trailer load braked (12%) / unbraked	kg	- / -		- / -
Max roofload/max	kg	75 / -		75 / -
Luggage compartment	l	160 - 680		160 - 680
Air drag $c_d$ / A / $c_d \times A$	- / m <sup>2</sup> / m <sup>2</sup>	0.36 / 1.99 / 0.72		0.36 / 1.99 / 0.72
<b>Engine</b>				
Config/No of cyls/valves		In-line / 4 / 4		In-line / 4 / 4
Engine management		MEVD 1727		MEVD 1727
Capacity	cm <sup>3</sup>	1598		1598
Bore/stroke	mm	77.0 / 85.8		77.0 / 85.8
Compression ratio	:1	10.5		10.5
Fuel grade	RON	91-98		91-98
Max output	kW / hp	155 / 211		155 / 211
at	rpm	6000		6000
Max torque (with	Nm	260 (280)		260 (280)
at	rpm	1850-5600 (2000-5200)		1850-5600 (2000-5200)
<b>Electrical system</b>				
Battery/installation	Ah / -	70 / Engine compartment		70 / Engine compartment
Alternator	A	120		120
<b>Chassis</b>				
Suspension, front		Single-joint MacPherson spring strut axle with anti-dive control		
Suspension, rear		Multi-link axle with aluminium longitudinal struts and centrally-pivoted control arms		
Front brakes		Vented disc		Vented disc
Diameter	mm	316 × 22		316 × 22
Rear brakes		Disc		Disc
Diameter	mm	280 × 10		280 × 10
Driving stability systems		Hydraulic two-circuit brake system with anti-lock brakes (ABS), Electronic Brake Force Distribution (EBD) and Cornering Brake Control (CBC), Dynamic Stability Control (DSC) with Brake Assist, Hill Start Assistant, Dynamic Traction Control (DTC) and Electronic Differential Lock Control (EDLC). Parking brake acts mechanically on rear wheels		
Steering		Electric power steering (EPS); 2.4 rotations in total		
Steering transmission,	:1	14.1		14.1
Tyres		205/45 R17 84W RSC		205/45 R17 84W RSC
Wheels		7J × 17 light-alloy		7J × 17 light-alloy
<b>Transmission</b>				
Type of gearbox		6-gear manual transmission		6-speed automatic transmission
Gear ratios	:1	3.308		4.044
II	:1	2.130		2.371
III	:1	1.483		1.556
IV	:1	1.139		1.159
V	:1	0.949		0.852
VI	:1	0.816		0.672
Reverse gear	:1	3.231		3.193
Final drive ratio	:1	3.706		3.683
<b>Performance</b>				
Power-to-weight ratio to	kg/kW	7.5		7.6
Output per litre	kW/l	97.0		97.0
Acceleration 0-100 km/h	s	6.5		6.7
0-1000 m	s	26.3		26.5
in 4th/5th gear 80-120	s	5.2 / 6.2		- / -
Top speed	km/h	238		236



<b>Fuel consumption in EU cycle</b>			
Urban	l/100 km	8.8	10.1
Extra-urban	l/100 km	5.3	5.3
Composite	l/100 km	6.6	7.1
CO <sub>2</sub>	g/km	153	165
<b>Miscellaneous</b>			
Emission rating		EU5	EU5
Insurance ratings Germany	HPF/VK/TK	<sup>2)</sup>	<sup>2)</sup>
Ground clearance (empty)	mm	130	130

Specifications apply to ACEA markets / data relevant to homologation applicable in part only to Germany (weight)

<sup>1</sup> Weight of the car in road trim (DIN) plus 75 kg for driver and luggage

<sup>2</sup> Data not yet available



# MINI John Cooper Works Clubman, MINI John Cooper Works Clubman Automatic.

(Status: May 2012)

Body		MINI John Cooper Works Clubman	MINI John Cooper Works Clubman Automatic
No of doors/seats		5 / 5	5 / 5
Length/width/height (unladen)	mm	3961 / 1683 / 1432	3961 / 1683 / 1432
Wheelbase	mm	2547	2547
Track, front/rear	mm	1453 / 1461	1453 / 1461
Turning circle	m	11.0	11.0
Tank capacity	approx l	50	50
Cooling system incl heater	l	7.5	7.5
Engine oil	l	4.2	4.2
Transmission oil incl drive train	l	Lifetime	Lifetime
Weight, unladen to DIN/EU <sup>1</sup>	kg	1215 / 1290	1240 / 1315
Max load to DIN	kg	485	485
Max permissible weight	kg	1700	1725
Max axle load, front/rear	kg	880 / 855	905 / 855
Max trailer load braked (12%) / unbraked	kg	- / -	- / -
Max roofload/max download	kg	75 / -	75 / -
Luggage compartment	l	260 - 930	260 - 930
Air drag $c_d$ / A / $c_d \times A$	- / m <sup>2</sup> / m <sup>2</sup>	0.34 / 2.02 / 0.69	0.34 / 2.02 / 0.69
<b>Engine</b>			
Config/No of cyls/valves		In-line / 4 / 4	In-line / 4 / 4
Engine management		MEVD 1727	MEVD 1727
Capacity	cm <sup>3</sup>	1598	1598
Bore/stroke	mm	77.0 / 85.8	77.0 / 85.8
Compression ratio	:1	10.5	10.5
Fuel grade	RON	91-98	91-98
Max output	kW / hp	155 / 211	155 / 211
at	rpm	6000	6000
Max torque (with overboost)	Nm	260 (280)	260 (280)
at	rpm	1850-5600 (2000-5200)	1850-5600 (2000-5200)
<b>Electrical system</b>			
Battery/installation	Ah / -	70 / Engine compartment	70 / Engine compartment
Alternator	A	120	120
<b>Chassis</b>			
Suspension, front		Single-joint MacPherson spring strut axle with anti-dive control	
Suspension, rear		Multi-link axle with aluminium longitudinal struts and centrally-pivoted control arms	
Front brakes		Vented disc	Vented disc
Diameter	mm	316 × 22	316 × 22
Rear brakes		Disc	Disc
Diameter	mm	280 × 10	280 × 10
Driving stability systems		Hydraulic two-circuit brake system with anti-lock brakes (ABS), Electronic Brake Force Distribution (EBD) and Cornering Brake Control (CBC), Dynamic Stability Control (DSC) with Brake Assist, Hill Start Assistant, Dynamic Traction Control (DTC) and Electronic Differential Lock Control (EDLC). Parking brake acts mechanically on rear wheels	
Steering		Electric power steering (EPS); 2.4 rotations in total	
Steering transmission, overall	:1	14.1	14.1
Tyres		205/45 R17 84W RSC	205/45 R17 84W RSC
Wheels		7J × 17 light-alloy	7J × 17 light-alloy
<b>Transmission</b>			
Type of gearbox		6-gear manual transmission	6-speed automatic transmission
Gear ratios	I	:1	3.308
	II	:1	2.130
	III	:1	1.483
	IV	:1	1.139
	V	:1	0.949
	VI	:1	0.816
Reverse gear	:1	3.231	3.193
Final drive ratio	:1	3.706	3.683
<b>Performance</b>			
Power-to-weight ratio to DIN	kg/kW	7.8	8.0
Output per litre	kW/l	97.0	97.0
Acceleration	0-100 km/h	s	6.8
	0-1000 m	s	26.7
in 4th/5th gear	80-120 km/h	s	5.4 / 6.6
Top speed	km/h	238	236



<b>Fuel consumption in EU cycle</b>			
Urban	l/100 km	8.9	10.3
Extra-urban	l/100 km	5.4	5.4
Composite	l/100 km	6.7	7.2
CO <sub>2</sub>	g/km	155	167
<b>Miscellaneous</b>			
Emission rating		EU5	EU5
Insurance ratings Germany	HPF/VK/TK	<sup>2)</sup>	<sup>2)</sup>
Ground clearance (empty)	mm	135	135

Specifications apply to ACEA markets / data relevant to homologation applicable in part only to Germany (weight)

<sup>1</sup> Weight of the car in road trim (DIN) plus 75 kg for driver and luggage

<sup>2</sup> Data not yet available



# MINI John Cooper Works Convertible, MINI John Cooper Works Convertible Automatic.

(Status: May 2012)

Body		MINI John Cooper Works Convertible	MINI John Cooper Works Convertible Automatic
No of doors/seats		2 / 4	2 / 4
Length/width/height (unladen)	mm	3758 / 1683 / 1414	3758 / 1683 / 1414
Wheelbase	mm	2467	2467
Track, front/rear	mm	1453 / 1461	1453 / 1461
Turning circle	m	10.7	10.7
Tank capacity	approx l	50	50
Cooling system incl heater	l	7.5	7.5
Engine oil	l	4.2	4.2
Transmission oil incl drive train	l	Lifetime	Lifetime
Weight, unladen to DIN/EU <sup>1</sup>	kg	1240 / 1315	1265 / 1340
Max load to DIN	kg	430	430
Max permissible weight	kg	1670	1695
Max axle load, front/rear	kg	885 / 800	910 / 800
Max trailer load braked (12%) / unbraked	kg	- / -	- / -
Max roofload/max download	kg	- / -	- / -
Luggage compartment	l	125 - 660	125 - 660
Air drag $c_d$ / A / $c_d \times A$	- / m <sup>2</sup> / m <sup>2</sup>	0.37 / 2.00 / 0.74	0.37 / 2.00 / 0.74
<b>Engine</b>			
Config/No of cyls/valves		In-line / 4 / 4	In-line / 4 / 4
Engine management		MEVD 1727	MEVD 1727
Capacity	cm <sup>3</sup>	1598	1598
Bore/stroke	mm	77.0 / 85.8	77.0 / 85.8
Compression ratio	:1	10.5	10.5
Fuel grade	RON	91-98	91-98
Max output	kW / hp	155 / 211	155 / 211
at	rpm	6000	6000
Max torque (with overboost)	Nm	260 (280)	260 (280)
at	rpm	1850-5600 (2000-5200)	1850-5600 (2000-5200)
<b>Electrical system</b>			
Battery/installation	Ah / -	70 / Engine compartment	70 / Engine compartment
Alternator	A	120	120
<b>Chassis</b>			
Suspension, front		Single-joint MacPherson spring strut axle with anti-dive control	
Suspension, rear		Multi-link axle with aluminium longitudinal struts and centrally-pivoted control arms	
Front brakes		Vented disc	Vented disc
Diameter	mm	316 × 22	316 × 22
Rear brakes		Disc	Disc
Diameter	mm	280 × 10	280 × 10
Driving stability systems		Hydraulic two-circuit brake system with anti-lock brakes (ABS), Electronic Brake Force Distribution (EBD) and Cornering Brake Control (CBC), Dynamic Stability Control (DSC) with Brake Assist, Hill Start Assist, Dynamic Traction Control (DTC) and Electronic Differential Lock Control (EDLC). Parking brake acts mechanically on rear wheels	
Steering		Electric power steering (EPS); 2.4 rotations in total	
Steering transmission, overall	:1	14.1	14.1
Tyres		205/45 R17 84W RSC	205/45 R17 84W RSC
Wheels		7J × 17 light-alloy	7J × 17 light-alloy
<b>Transmission</b>			
Type of gearbox		6-gear manual transmission	6-speed automatic transmission
Gear ratios	I	:1	3.308
	II	:1	2.130
	III	:1	1.483
	IV	:1	1.139
	V	:1	0.949
	VI	:1	0.816
Reverse gear	:1	3.231	3.193
Final drive ratio	:1	3.706	3.683
<b>Performance</b>			
Power-to-weight ratio to DIN	kg/kW	8.0	8.2
Output per litre	kW/l	97.0	97.0
Acceleration	0-100 km/h	s	7.1
	0-1000 m	s	26.8
in 4th/5th gear	80-120 km/h	s	5.7 / 6.8
Top speed	km/h	235	233



<b>Fuel consumption in EU cycle</b>			
Urban	l/100 km	9.0	10.4
Extra-urban	l/100 km	5.5	5.5
Composite	l/100 km	6.8	7.3
CO <sub>2</sub>	g/km	157	169
<b>Miscellaneous</b>			
Emission rating		EU5	EU5
Insurance ratings Germany	HPF/VK/TK	<sup>2)</sup>	<sup>2)</sup>
Ground clearance (empty)	mm	130	130

Specifications apply to ACEA markets / data relevant to homologation applicable in part only to Germany (weight)

<sup>1</sup> Weight of the car in road trim (DIN) plus 75 kg for driver and luggage

<sup>2</sup> Data not yet available



# MINI John Cooper Works Coupe, MINI John Cooper Works Coupe Automatic.

(Status: May 2012)

Body		MINI John Cooper Works Coupe	MINI John Cooper Works Coupe Automatic
No of doors/seats		2 / 2	2 / 2
Length/width/height (unladen)	mm	3758 / 1683 / 1385	3758 / 1683 / 1385
Wheelbase	mm	2467	2467
Track, front/rear	mm	1453 / 1461	1453 / 1461
Turning circle	m	10.7	10.7
Tank capacity	approx l	50	50
Cooling system incl heater	l	7.5	7.5
Engine oil	l	4.2	4.2
Transmission oil incl drive train	l	Lifetime	Lifetime
Weight, unladen to DIN/EU <sup>1</sup>	kg	1175 / 1250	1200 / 1275
Max load to DIN	kg	290	290
Max permissible weight	kg	1465	1490
Max axle load, front/rear	kg	875 / 610	900 / 610
Max trailer load braked (12%) / unbraked	kg	- / -	- / -
Max roofload/max download	kg	- / -	- / -
Luggage compartment	l	280	280
Air drag $c_d$ / A / $c_d \times A$	- / m <sup>2</sup> / m <sup>2</sup>	0.35 / 1.97 / 0.69	0.35 / 1.97 / 0.69
<b>Engine</b>			
Config/No of cyls/valves		In-line / 4 / 4	In-line / 4 / 4
Engine management		MEVD 1727	MEVD 1727
Capacity	cm <sup>3</sup>	1598	1598
Bore/stroke	mm	77.0 / 85.8	77.0 / 85.8
Compression ratio	:1	10.5	10.5
Fuel grade	RON	91-98	91-98
Max output	kW / hp	155 / 211	155 / 211
at	rpm	6000	6000
Max torque (with overboost)	Nm	260 (280)	260 (280)
at	rpm	1850-5600 (2000-5200)	1850-5600 (2000-5200)
<b>Electrical system</b>			
Battery/installation	Ah / -	70 / Engine compartment	70 / Engine compartment
Alternator	A	120	120
<b>Chassis</b>			
Suspension, front		Single-joint MacPherson spring strut axle with anti-dive control	
Suspension, rear		Multi-link axle with aluminium longitudinal struts and centrally-pivoted control arms	
Front brakes		Vented disc	Vented disc
Diameter	mm	316 × 22	316 × 22
Rear brakes		Disc	Disc
Diameter	mm	280 × 10	280 × 10
Driving stability systems		Hydraulic two-circuit brake system with anti-lock brakes (ABS), Electronic Brake Force Distribution (EBD) and Cornering Brake Control (CBC), Dynamic Stability Control (DSC) with Brake Assist, Hill Start Assistant, Dynamic Traction Control (DTC) and Electronic Differential Lock Control (EDLC). Parking brake acts mechanically on rear wheels	
Steering		Electric power steering (EPS); 2.4 rotations in total	
Steering transmission, overall	:1	14.1	14.1
Tyres		205/45 R17 84W RSC	205/45 R17 84W RSC
Wheels		7J × 17 light-alloy	7J × 17 light-alloy
<b>Transmission</b>			
Type of gearbox		6-gear manual transmission	6-speed automatic transmission
Gear ratios	I	:1	3.308
	II	:1	2.130
	III	:1	1.483
	IV	:1	1.139
	V	:1	0.949
	VI	:1	0.816
Reverse gear	:1	3.231	3.193
Final drive ratio	:1	3.706	3.683
<b>Performance</b>			
Power-to-weight ratio to DIN	kg/kW	7.6	7.7
Output per litre	kW/l	97.0	97.0
Acceleration	0-100 km/h	s	6.4
	0-1000 m	s	26.1
in 4th/5th gear	80-120 km/h	s	5.1 / 6.1
Top speed	km/h	240	238



<b>Fuel consumption in EU cycle</b>			
Urban	l/100 km	8.8	10.1
Extra-urban	l/100 km	5.3	5.3
Composite	l/100 km	6.6	7.1
CO <sub>2</sub>	g/km	153	165
<b>Miscellaneous</b>			
Emission rating		EU5	EU5
Insurance ratings Germany	HPF/VK/TK	<sup>2)</sup>	<sup>2)</sup>
Ground clearance (empty)	mm	139	139

Specifications apply to ACEA markets / data relevant to homologation applicable in part only to Germany (weight)

<sup>1</sup> Weight of the car in road trim (DIN) plus 75 kg for driver and luggage

<sup>2</sup> Data not yet available



# MINI John Cooper Works Roadster, MINI John Cooper Works Roadster Automatic.

(Status: May 2012)

Body		MINI John Cooper Works Roadster	MINI John Cooper Works Roadster Automatic
No of doors/seats		2 / 2	2 / 2
Length/width/height (unladen)	mm	3758 / 1683 / 1391	3758 / 1683 / 1391
Wheelbase	mm	2467	2467
Track, front/rear	mm	1453 / 1461	1453 / 1461
Turning circle	m	10.7	10.7
Tank capacity	approx l	50	50
Cooling system incl heater	l	7.5	7.5
Engine oil	l	4.2	4.2
Transmission oil incl drive train	l	Lifetime	Lifetime
Weight, unladen to DIN/EU <sup>1</sup>	kg	1195 / 1270	1215 / 1290
Max load to DIN	kg	290	290
Max permissible weight	kg	1485	1505
Max axle load, front/rear	kg	875 / 630	895 / 630
Max trailer load braked (12%) / unbraked	kg	- / -	- / -
Max roofload/max download	kg	- / -	- / -
Luggage compartment	l	240	240
Air drag $c_d$ / A / $c_d \times A$	- / m <sup>2</sup> / m <sup>2</sup>	0.36 / 1.99 / 0.72	0.36 / 1.99 / 0.72
<b>Engine</b>			
Config/No of cyls/valves		In-line / 4 / 4	In-line / 4 / 4
Engine management		MEVD 1727	MEVD 1727
Capacity	cm <sup>3</sup>	1598	1598
Bore/stroke	mm	77.0 / 85.8	77.0 / 85.8
Compression ratio	:1	10.5	10.5
Fuel grade	RON	91-98	91-98
Max output	kW / hp	155 / 211	155 / 211
at	rpm	6000	6000
Max torque (with overboost)	Nm	260 (280)	260 (280)
at	rpm	1850-5600 (2000-5200)	1850-5600 (2000-5200)
<b>Electrical system</b>			
Battery/installation	Ah / -	70 / Engine compartment	70 / Engine compartment
Alternator	A	120	120
<b>Chassis</b>			
Suspension, front		Single-joint MacPherson spring strut axle with anti-dive control	
Suspension, rear		Multi-link axle with aluminium longitudinal struts and centrally-pivoted control arms	
Front brakes		Vented disc	Vented disc
Diameter	mm	316 × 22	316 × 22
Rear brakes		Disc	Disc
Diameter	mm	280 × 10	280 × 10
Driving stability systems		Hydraulic two-circuit brake system with anti-lock brakes (ABS), Electronic Brake Force Distribution (EBD) and Cornering Brake Control (CBC), Dynamic Stability Control (DSC) with Brake Assist, Hill Start Assist, Dynamic Traction Control (DTC) and Electronic Differential Lock Control (EDLC). Parking brake acts mechanically on rear wheels	
Steering		Electric power steering (EPS); 2.4 rotations in total	
Steering transmission, overall	:1	14.1	14.1
Tyres		205/45 R17 84W RSC	205/45 R17 84W RSC
Wheels		7J × 17 light-alloy	7J × 17 light-alloy
<b>Transmission</b>			
Type of gearbox		6-gear manual transmission	6-speed automatic transmission
Gear ratios	I	:1 3.308	:1 4.044
	II	:1 2.130	:1 2.371
	III	:1 1.483	:1 1.556
	IV	:1 1.139	:1 1.159
	V	:1 0.949	:1 0.852
	VI	:1 0.816	:1 0.672
Reverse gear	:1	3.231	3.193
Final drive ratio	:1	3.706	3.683
<b>Performance</b>			
Power-to-weight ratio to DIN	kg/kW	7.7	7.8
Output per litre	kW/l	97.0	97.0
Acceleration	0-100 km/h	s 6.5	s 6.7
	0-1000 m	s 26.3	s 26.5
in 4th/5th gear	80-120 km/h	s 5.3 / 6.3	- / -
Top speed	km/h	237	235



<b>Fuel consumption in EU cycle</b>			
Urban	l/100 km	9.0	10.4
Extra-urban	l/100 km	5.5	5.5
Composite	l/100 km	6.8	7.3
CO <sub>2</sub>	g/km	157	169
<b>Miscellaneous</b>			
Emission rating		EU5	EU5
Insurance ratings Germany	HPF/VK/TK	<sup>2)</sup>	<sup>2)</sup>
Ground clearance (empty)	mm	134	134

Specifications apply to ACEA markets / data relevant to homologation applicable in part only to Germany (weight)

<sup>1</sup> Weight of the car in road trim (DIN) plus 75 kg for driver and luggage

<sup>2</sup> Data not yet available



# MINI John Cooper Works Countryman, MINI John Cooper Works Countryman Automatic.

(Status: May 2012)

Body		MINI John Cooper Works Countryman	MINI John Cooper Works Countryman Automatic
No of doors/seats		5 / 4 (5)	5 / 4 (5)
Length/width/height (unladen)	mm	4133 / 1789 / 1549	4133 / 1789 / 1549
Wheelbase	mm	2596	2596
Track, front/rear	mm	1527 / 1554	1527 / 1554
Turning circle	m	11.6	11.6
Tank capacity	approx l	47	47
Cooling system incl heater	l	6.0	6.5
Engine oil	l	4.2	4.2
Transmission oil incl drive train	l	Lifetime	Lifetime
Weight, unladen to DIN/EU <sup>1</sup>	kg	1405 / 1480	1430 / 1505
Max load to DIN	kg	510	510
Max permissible weight	kg	1915	1940
Max axle load, front/rear	kg	990 / 940	1015 / 940
Max trailer load braked (12%) / unbraked	kg	- / -	- / -
Max roofload/max download	kg	75 / -	75 / -
Luggage compartment	l	350 - 1170	350 - 1170
Air drag $c_d$ / A / $c_d \times A$	- / m <sup>2</sup> / m <sup>2</sup>	0.36 / 2.36 / 0.85	0.36 / 2.36 / 0.85
<b>Engine</b>			
Config/No of cyls/valves		In-line / 4 / 4	In-line / 4 / 4
Engine management		MEVD 1727	MEVD 1727
Capacity	cm <sup>3</sup>	1598	1598
Bore/stroke	mm	77.0 / 85.8	77.0 / 85.8
Compression ratio	:1	10.5	10.5
Fuel grade	RON	91-98	91-98
Max output	kW / hp	160 / 218	160 / 218
at	rpm	6000	6000
Max torque (with overboost)	Nm	280	280
at	rpm	1900-5600	1900-5600
<b>Electrical system</b>			
Battery/installation	Ah / -	70 / Engine compartment	70 / Engine compartment
Alternator	A	120	120
<b>Chassis</b>			
Suspension, front		Single-joint MacPherson spring strut axle with anti-dive control	
Suspension, rear		Multi-link axle with aluminium longitudinal struts and centrally-pivoted control arms	
Front brakes		Vented disc	Vented disc
Diameter	mm	307 × 24	307 × 24
Rear brakes		Disc	Disc
Diameter	mm	296 × 10	296 × 10
Driving stability systems		Hydraulic two-circuit brake system with anti-lock brakes (ABS), Electronic Brake Force Distribution (EBD) and Cornering Brake Control (CBC), Dynamic Stability Control (DSC) with Brake Assist, Hill Start Assistant, Dynamic Traction Control (DTC) and Electronic Differential Lock Control (EDLC), DSC control unit with integrated control electronics for the MINI ALL4 all-wheel-drive system. Parking brake acts mechanically on rear wheels	
Steering		Electric power steering (EPS); 2.4 rotations in total	
Steering transmission, overall	:1	14.1	14.1
Tyres		225/45 R18 91V	225/45 R18 91V
Wheels		7.5J × 18 light-alloy	7.5J × 18 light-alloy
<b>Transmission</b>			
Type of gearbox		6-gear manual transmission	6-speed automatic transmission
Gear ratios	I	3.308	4.044
	II	2.130	2.371
	III	1.483	1.556
	IV	1.139	1.159
	V	0.949	0.852
	VI	0.816	0.672
Reverse gear	:1	3.231	3.193
Final drive ratio	:1	3.706	3.683
<b>Performance</b>			
Power-to-weight ratio to DIN	kg/kW	8.8	8.9
Output per litre	kWh/l	100.1	100.1
Acceleration	0-100 km/h	s	7.0
	0-1000 m	s	27.5
in 4th/5th gear	80-120 km/h	s	6.5 / 7.9
Top speed	km/h	225	223



<b>Fuel consumption in EU cycle</b>			
Urban	l/100 km	9.4	10.7
Extra-urban	l/100 km	6.2	6.3
Composite	l/100 km	7.4	7.9
CO <sub>2</sub>	g/km	172	184
<b>Miscellaneous</b>			
Emission rating		EU5	EU5
Insurance ratings Germany	HPF/VK/TK	<sup>2)</sup>	<sup>2)</sup>
Ground clearance (empty)	mm	137	137

Specifications apply to ACEA markets / data relevant to homologation applicable in part only to Germany (weight)

<sup>1</sup> Weight of the car in road trim (DIN) plus 75 kg for driver and luggage

<sup>2</sup> Data not yet available