

# Specifications.

## MINI John Cooper Works Roadster.



(Status: October 2011)

<b>Body</b>		<b>MINI John Cooper Works Roadster</b>
No of doors/seats		2 / 2
Length/width/height (unladen)	mm	3758 / 1683 / 1391
Wheelbase	mm	2467
Track, front/rear	mm	1453 / 1461
Turning circle	m	10.7
Tank capacity	approx. l	50
Cooling system incl. heater	l	7.5
Engine oil	l	4.2
Transmission oil incl. drive train	l	Lifetime
Weight, unladen to DIN/EU <sup>1</sup>	kg	1185 / 1260
Max load to DIN	kg	290
Max permissible load	kg	1475
Max axle load, front/rear	kg	865 / 630
Max trailer load		
braked (12%) / unbraked	kg	- / -
Max roofload/max download	kg	- / -
Luggage compartment	l	240
Air drag $c_x$ / A / $c_x \times A$	- / m <sup>2</sup> / m <sup>2</sup>	0.36 / 1.99 / 0.72
<b>Engine</b>		
Config/No of cyls/valves		Inline / 4 / 4
Engine management		MED 17.2.2
Capacity	cm <sup>3</sup>	1598
Bore/stroke	mm	77.0 / 85.8
Compression ratio	:1	10.0
Fuel grade	RON	91-98
Max output	kW / hp	155 / 211
at	min <sup>-1</sup>	6000
Max torque (with overboost)	Nm	260 (280)
at	min <sup>-1</sup>	1850-5600 (2000-5100)
<b>Electrical system</b>		
Battery/installation	Ah / -	55 / Engine compartment
Alternator	A	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
Diameter	mm	316 x 22
Rear brakes		Disc
Diameter	mm	280 x 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 and Hill Start Assistant, optional: 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
Tyres		205/45 R17 84W RSC
Wheels		7J x 17 light-alloy
<b>Transmission</b>		
Type of gearbox		6-gear manual 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
Final drive ratio	:1	3.706
<b>Performance</b>		
Power-to-weight ratio to DIN	kg/kW	7.6
Output per litre	kW/l	97.0
Acceleration	0-100 km/h	s 6.5
	0-1000 m	s 26.3
in 4th/5th gear	80-120 km/h	s 5.3 / 6.3
Top speed	km/h	237

<b>Fuel consumption in EU cycle</b>		
Urban	l/100 km	9.6
Extra-urban	l/100 km	5.9
Composite	l/100 km	7.3
CO <sub>2</sub>	g/km	169
<b>Miscellaneous</b>		
Emission rating		EU5
Insurance ratings Germany	HPF/VK/TK	<sup>2</sup>
Ground clearance (empty)	mm	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.