

Technical data sheets BMW Motorrad

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MY2021

R nineT

Engine

Type	Air/oil-cooled flat twin ('Boxer') 4-stroke engine, two camshafts and four radially aligned valves per cylinder, central counterbalancer shaft
Bore / stroke	101 mm x 73 mm
Capacity	1,170 cc
Rated output	80 kW (109 hp) at 7,250 rpm
Max. torque	116 Nm at 6.000 rpm
Compression ratio	12.0 : 1
Mixture control	Electronic intake pipe injection / digital engine management with overrrund cutoff, twin-spark ignition
Emission control	Controlled 3-way catalytic converter, exhaust emission standards EU-5

Performance / fuel consumption

Maximum speed	over 200 km/h
Fuel consumption per 100 km based on WMTC	5.1 l
CO ₂ emission based on WMTC	119 g/km
Fuel type	Unleaded super(premium), octane number 95-98 (RON) (rated output at 98 RON)

Electrical system

Alternator	three-phase alternator 720 W
Battery	12 V / 12 Ah, maintenance-free

Power transmission

Clutch	Single dry plate clutch, hydraulically operated
Gearbox	Claw-shifted six-speed transmission with helical-cut splines
Drive	Shaft drive

Chassis / brakes

Frame	four-part frame concept with front frame and three-part rear frame, load-bearing engine-gearbox unit, rear-seat frame removeable for one-up riding
Front wheel location / suspension	Upside-down telescopic forks, 46 mm fixed-fork-tube diameter
Rear wheel location / suspension	Cast aluminium single swinging arm with BMW Motorrad Paralever; central spring strut, spring preload fully adjustable by handwheel, adjustable rebound-stage damping
Suspension travel, front / rear	120 mm / 120 mm
Wheelbase	1,487 mm
Castor	107.9 mm
Steering head angle	63.2°
Wheels	spoke wheels
Rim, front	3.50 x 17"
Rim, rear	5.50 x 17"
Tyre, front	120/70 ZR 17
Tyre, rear	180/55 ZR 17
Brake, front	Twin-disc brakes, diameter 320 mm, 4-piston callipers
Brake, rear	Single disc brake, diameter 265 mm, double-piston floating caliper
ABS	BMW Motorrad ABS Pro

Dimensions / weights

Seat height	805 mm
Inner leg curve	1,785 mm
Usable tank volume	18 L
Reserve	app. 3 L
Length	2,105 mm
Height (incl. mirrors)	1,240 mm
Width (incl. hand levers)	865 mm
Unladen weight, road ready, fully fuelled 1)	221 kg
Permitted total weight	430 kg
Payload (with standard equipment)	209 kg

Equipment (in parts)

Standard equipment	LED headlight with daytime running light (where homologated), dual speed indicator and rational-speed sensor instrument with on-board computer content, ASC, riding modes rain & road, drive train and final drive black, Upside down front fork fully adjustable (spring preload, compression stage rebound)
Optional equipment (OE)	Comfort package incl. Riding modes PRO (incl. Riding mode DYNA), cruise control and heated grips, Aluminum package, Aluminum Fuel Tank, paint sets, Option 719 wheel Classic / Sport, Option 719 billet packages I & II
Optional accessories (OA)	Tail short, Tail Tracker, function integrated turning signals, cylinder head covers 2V-Style, and more well tried and tested parts known from R nineT derivatives

Technical data relate to the unladen weight (DIN)

1) According to guideline VO (EU) 168/2013 with all fluids, with standard equipment and fuelled with at least 90% of usable tank volume.
(only OE-USPs compared to competition)