

## Technical data sheets BMW Motorrad

Date: 09.09.2020  
Status: approved

MY 2021 (0E71)

### M 1000 RR

#### Engine

Type	Water/oil-cooled 4-cylinder 4-stroke in-line engine, four titanium valves per cylinder, BMW ShiftCam
Bore / stroke	80 mm x 49.7 mm
Capacity	999 ccm
Rated output	156 kW (212 hp) at 14,500 rpm
Max. torque	113 Nm at 11,000 rpm
Compression ratio	13.5 : 1
Mixture control	Electronic injection, variable intake pipe
Emission control	Closed-loop 3-way catalytic converters, EU-5 norm

#### Performance / fuel consumption

Maximum speed	306 km/h
Fuel consumption per 100 km based on WMTC cycle	6.5 l
CO <sub>2</sub> emission based on WMTC	151 g/km
Fuel type	Unleaded super(premium), octane number 95 - 98 (RON) (knock control; rated output at 98 RON)

#### Electrical system

Alternator	450 W
M Lightweight Battery	12 V / 5 Ah, Lithium-ion

#### Power transmission

Clutch	Multiplate clutch in oil bath, anti-hopping clutch, with self-reinforcement
Gearbox	Constant-mesh 6-speed gearbox with straight cut gears
Drive	Chain 525 17/46
Tractioncontrol	DTC

#### Chassis / brakes

Frame	Bridge-type frame, cast aluminium, load-bearing engine
Front wheel location / suspension	Upside-down telescopic fork Ø 45 mm, compression and rebound stage adjustable, adjustable preload
Rear wheel location / suspension	"WSBK" Aluminium swing arm, full floater pro, compression and rebound damping adjustable, adjustable preload
Suspension travel, front / rear	120 mm / 118 mm
Wheelbase	1,457 mm
Castor	99.8 mm
Steering head angle	66.4°
Wheels	M Carbon Wheels
Rim, front	3.50" x 17"
Rim, rear	6.00" x 17"
Tyre, front	120/70 ZR 17
Tyre, rear	200/55 ZR 17
M Brake, front	Twin disc brake, M Brake 4-piston fixed caliper, 5 mm diameter 320 mm
Brake, rear	Single disc brake, 2-piston fixed caliper, diameter 220 mm
ABS	BMW Motorrad Race ABS Pro (part-integral), modes to select
ABS Pro	ABS Pro settings for RAIN, ROAD, DYNAMIC mode, no ABS Pro in RACE and Race Pro 1-3 mode

#### Dimensions / weights

Seat height	832 mm
Inner leg curve	1,845 mm
Usable tank volume	16.5 l
Reserve	approx. 4 l
Length	2,073 mm
Height (excl. mirrors)	1,197 mm
Width (incl. mirrors)	848 mm
Dry weight	170 kg (M Competition Package 169.8 kg) without battery
Unladen weight, road ready, fully fuelled 1)	192 kg (M Competition Package 191.8 kg)
Permitted total weight	407 kg
Payload (with standard equipment)	212 kg

#### Equipment (in parts)

Standard equipment	BMW Motorrad Race ABS,, ABS Pro, 7 riding modes (Rain, Road, Dynamic, Race, Race Pro 1-3), launchcontrol, DTC +/- Shift, wheelie control- slide control, HSC Pro, DBC (Dynamic Brake Control), Engine Break, Heated Grips, Cruise Control, Shift Assist Pro, M Lightweight Battery, M Chassis Kit with rear height adjustment and swingarm pivot, 6.5" TFT-Display, LED-Turn Signal, LED-Headlight and Rearlight, Passenger Cover.
Optional equipment (OE)	M Competition Package with: M Brake Lever, M Clutch Lever, M Brake Lever Guard M Rider Footrest, M Engine Protector, M Carbonparts (8): Front Wheel Cover, Rear Wheel Cover, Sprocket Cover, Chain Guard, Side and Tank Cover on left, right, Swinging arm in anodised aluminium -220 g, M GPS-Laptrigger (activation code), M Endurance chain, Passenger Package, Passenger Cover. Single option: Anti Theft Alarm
Optional accessories (OA)	Windshields tinted, Windshield bubble, Windshield bubble tinted, M Datalogger und M GPS Laptrigger, M Cover Kit, M tyre warmer.

#### 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)