BMW Media Information

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6. Technical specifications.



		HP4 RACE	
Engine			
Capacity	CC	999	
Bore/stroke	mm	80/49.7	
Output	kW/hp	158/21	
at engine speed	rpm	13 900	
Torque	Nm	120	
at engine speed	rpm	10 000	
Туре		Water-cooled in-line 4-cylinder engine	
Compression/fuel		13.7-13.9:1/min Super Unleaded, min. octane number 98 (RON	
Valve/accelerator actuation		DOHC (double overhead camshaft Valve activation via individual rocker arms	
Valves per cylinder			
Ø intake/outlet	mm	33.5/27.2	
Throttle valve diameter	mm	48	
Electrical system			
Alternator	W	406	
Battery	V/Ah	12/5, Li-ion maintenance-free	
Headlight	W		
Starter	kW	0.8	
Power transmission - gearbox			
Clutch		Multi-plate anti-hopping wet clutch mechanically activated	
Gearbox	Constant-mesh 6-speed racing gearbox (EVO) with spur toothin (gear 1, 2, 4, 5, 6 optimised		
Primary ratio		1.652	
Transmission ratios I		2.388	
II		2.000	
III		1.72	
IV		1.54	
V		1.400	
VI		1.29	
Rear wheel drive		Chair	
Transmission ratio		2.64	
Traction control		DTC 15-level adjustmen	
Engine brake		EBR 15-level adjustmen	
Suspension			
Frame construction type		Carbon fibre monocoque RTM frame with adjustable steering hea angle and swingarm centre of rotation, load-bearing engin	
Front wheel control		Öhlins FGR 300 Superbike World Cup fork, adjustable rebound and compression damping, adjustable spring preload, adjustable Öhlin SD052 steering damper, quick front wheel changing system by mean of rotating forklegs with mounted front wheel cover (brake calipers do not have to be dismounted to change wheels	
Rear wheel control	le fo	Aluminium underslung double-sided swingarm, Öhlins TTX 36 GF central spring strut, adjustable rebound and compression damping adjustable spring preload, spring strut attachment point adjustable a the top (0/3 mm), adjustable spring strut deflection (tension struength), support surfaces for wheel spacer sleeve on chain tensioners r simple/hands-free wheel mounting, titanium chain tensioner on the utside, aluminium on the inside, CFRP assembly stand mountings of	

		the swingarm	
Spring travel, front/rear	mm	130/120	
Wheel castor	mm 102.5 (adjust	table from 95-112)	
Wheelbase	mm	1 440	
Steering head angle	° 65.5° (adjustable by	0.0°, +-0.5°, +-1°)	
Tension strut	113 mm (variably adjustable +- 5mm)		
Swingarm centre of rotation	-3 mm as compared to K46MR3 (adjustable by +-4 mm,+-3 mm,+-2 mm,+-1.0 mm) -> (HP4R designation "-2" corresponds to K46MR3 ". 3" = standard		
Swingarm length		604mm	
Fork bridge offset	30 mm (adjustable to 26 mm, 28 mm, 32 mm)		
Wheels	Carbon fibre wheels incl. firmly fitted wheel spacer sleeves for simple wheel mounting		
Wheel size, front/rear	3.50 x 17" / 6.00 x 17"		
Tyre, front	120/70 ZR 17 Pirelli Diabolo Superbike Slick SC2		
Tyre, rear	200/60 ZR 17 Pirelli Diabolo Superbike Slick SC2		
Brake, front	Brembo Racing twin disc brake , T-floated diameter 320 x 6.75 mm, 4-piston monoblock Su fixed caliper GP4-PR with titanium pistons, Brembo pump RCS19x18 incl. adjustable Brembo Racing bi Racing clutch lever (wit	perbike World Cup Racing handbrake rake lever, Brembo	
Brake, rear	Brembo Racing single disc brake, 4-piston Superbil caliper with titanium pistons, brake disc diam		
Footrest system	Rigid footrest system in milled aluminium, adjustable	to eight positions	
Dimensions and weights			
Seat height at unladen weight	816 mm (lowest position), 831 mm (delivery state), 846 mm (highest position)		
Usable fuel tank volume	17.51		
incl. reserve	approx. 4 l		
Dry weight		146 kg	
Unladen weight, road ready, fully fuelled 1)		171.4 kg	
Equipment (selection)			
Standard equipment	BMW Motorrad Race DTC (Dynamic Traction (Engine Brake Regulation) +/-7, 4 riding mode: Dry2), 2D data recording/stick logger/lap timing/Gl	s (WET, INT, Dry1,	
	2D data recording prepared for spring travel senso	rs / brake pressure	
	(Up/ Down), shift pattern reversed as delivered, Subutton unit, HP Race Brake lever guard, secondary	k bridge with offset height adjustment, sing accessory kit), sing accessory kit), lace Shift Assistant perbike World Cup ratio variable using accessory kit	
	(pinion 15, 16, 17 / chain ring	41, 42, 43, 44, 45)	

Relevant figures refer to DIN unladen weight

 $^{^{\}rm 1)}$ According to Directive 93/93/EEC with all operating fluids, fuelled with at least 90 % of usable fuel tank volume