



R World only.

Based on one of the most successful WorldSSP bikes of all time, the R6 RACE is the ultimate track machine - from everyday racing enthusiasts to national supersport racers.

After a record-breaking 2020 season with the R6, Andrea Locatelli joined the list of WorldSSP champions aboard this legendary bike – which continues to prove itself as a leading-choice in supersport racing, as well as amongst track day enthusiasts and national racers.

The R6 is now dedicated for the race circuit only: R6 RACE. It boasts instant power, precision handling and razor-sharp cornering for a truly thrilling experience! It's powered by a lightweight 599cc DOHC liquid-cooled, four-cylinder engine, and features a Deltabox aluminium frame, a magnesium subframe, high-spec front forks and KYB rear shock suspension – maximizing performance both on the straights and through those corners.



- Radical R-Series design
- 599cc inline 4-cylinder 4-valve DOHC engine
- High tech electronic control systems
- R1 type front forks
- R1 specification front brakes
- Slim magnesium subframe
- Lightweight aluminium fuel tank
- Aerodynamically efficient bodywork
- Ergonomic riding position

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Radical R-Series design

Developed using latest R-series design, the R6 RACE features an aggressive face that reinforce the radical R-Series family look. With its sharp bodywork and flowing horizontal lines, Yamaha's ultimate 600 supersport has pure race-bred DNA running through its veins.



599cc inline 4-cylinder 4-valve DOHC engine

The 599cc liquid-cooled DOHC inline, four cylinder engine with titanium valves provide a perfect balance of power and performance. The 13.1:1 compression ratio and lightweight forged piston allows for smooth and high-revving power, greatly enhancing the overall riding experience – while even more weight is saved with the beautifully designed Magnesium engine cover.



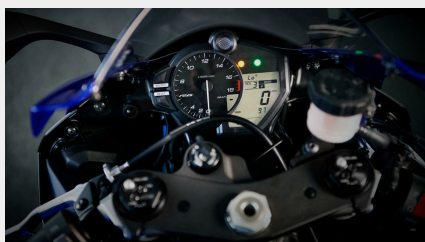
R1 specification front brakes

To match the high specification 43mm front forks the R6 RACE runs with dual 320mm discs that are gripped by radial mount 4-pot opposed piston callipers. Built to the same specification as the system on the R1, this advanced class leading design gives outstanding stopping power.



R1 type front forks

From the day that the first R6 was launched, this extreme supersport has continued to set the standards for handling agility and lightweight controllability. To ensure that this winning 600 continues to lead the field the R6 RACE is equipped with fully adjustable R1 type 43mm forks with R6-specific settings that deliver excellent handling performance.



High tech electronic control systems

Featuring a wide range of high-tech electronic systems, the R6 RACE is the most sophisticated 600 supersport bike ever created by Yamaha. Equipped with a 6-position Traction Control System (TCS) as well as a Quick Shifter System (QSS) for clutchless upshifting, and D-Mode adjustable engine power, the R6 RACE gives you ultimate control.



Slim magnesium subframe

Manufactured from CF die-cast magnesium, the rear subframe contributes towards the bike's light weight and enhances mass centralization – while its narrow dimensions ensure excellent ergonomics. By allowing you to mould your body closely to the chassis, this design gives high levels of controllability and contributes towards aerodynamic efficiency.

Engine

| | |
|---------------------|---|
| Engine type | Liquid-cooled; EURO4; 4-stroke; 4-valves; DOHC; Forward-inclined parallel 4-cylinder |
| Displacement | 599cc |
| Bore x stroke | 67.0 mm x 42.5 mm |
| Compression ratio | 13.1 : 1 |
| Lubrication system | Wet sump |
| Clutch Type | Wet; Multiple Disc |
| Ignition system | TCI |
| Starter system | Electric |
| Transmission system | Constant Mesh; 6-speed |
| Final transmission | Chain |
| Carburettor | Electronic Fuel Injection |
| Maximum power | 87.1kW (118.4PS) @ 14,500 rpm |
| Maximum Torque | 61.7Nm (6.3kg-m) @ 10,500 rpm |
| Fuel consumption | 6.6l/100km |
| CO2 emission | 154 g/km |

Chassis

| | |
|-------------------------|--------------------------------|
| Frame | Diamond |
| Front suspension system | Telescopic forks, Ø43 mm |
| Front travel | 120 mm |
| Rear suspension system | Swingarm; link suspension |
| Rear Travel | 120 mm |
| Front brake | Hydraulic dual disc, Ø320 mm |
| Rear brake | Hydraulic single disc, Ø220 mm |
| Front tyre | 120/70 ZR17M/C (58W) Tubeless |
| Rear tyre | 180/55 ZR17M/C (73W) Tubeless |
| Caster Angle | 24° |
| Trail | 97mm |

Dimensions

| | |
|---|-----------|
| Overall length | 2,040 mm |
| Overall width | 695 mm |
| Overall height | 1,150 mm |
| Seat height | 850 mm |
| Wheel base | 1,375 mm |
| Minimum ground clearance | 130 mm |
| Wet weight (including full oil and fuel tank) | 190 kg |
| Fuel tank capacity | 17litres |
| Oil tank capacity | 3.4litres |

The R6 RACE will only be available in race specification, for usage on closed circuits, private areas and specific events where participation with non-registered vehicles is allowed. Always wear a helmet, eye protection and protective clothing. Yamaha encourages you to ride safely and respect fellow riders, local laws and the environment. Images displayed may depict a professional rider performing under controlled conditions or on closed circuit. The unit displayed on the images may be equipped with genuine Yamaha accessories and/or non-Yamaha branded accessories which may be for closed-circuit use only. All information is given for general guidance and is not binding for Yamaha. Specifications and appearance of Yamaha products, Yamaha accessories and non-Yamaha branded accessories are subject to change without prior notice. Non Yamaha branded accessories are fully developed and produced by respected third parties. Yamaha does not guarantee the availability of the displayed products and accessories in local markets. The product and accessories range may be limited in some countries. Yamaha has the right to discontinue products and accessories without prior notice. Where applicable, Yamaha products and accessories availability, specifications and prices may vary according to local laws, requirements and conditions. No rights can be obtained from this information. All product and technical data are provided on an 'as is' basis without any express or implied warranties. As an option, customers can indicate at their local dealer to deliver the R6 RACE model either with or without the mirrors, license plate holder, reflectors and blinkers. For further details and availability, please contact your local Yamaha dealer.