

**CRAFTED  
BY CHAMPIONS.  
CRAFTED  
TO CONQUER.**



**Apache**  
**RTR**  
**310**  
RACING DNA UNLEASHED

#PureRaceCraft

## THE ULTIMATE TRACK WEAPON

The TVS Apache RR310 takes Racecraft to the next level. It features a 312 cc reverse inclined DOHC engine with throttle-by-wire that is now tuned to produce even more power. The SmartXonnect enabled Multi-Information Race Computer displays essential notifications and race telemetry. Packed with every technology that a racer needs on the track, the Apache RR310 is crafted not only to outperform, but to conquer the competition.



**CRAFTED**  
FOR **POWER**

## COMPACT ENGINE DESIGN

The horizontally-split crankcase keeps the engine compact while providing blistering performance.

- Best-in-class power-to-weight ratio
- 0-60 kph in 2.82 seconds
- 0-100 kph in 6.74 seconds
- Top speed of 160 kph



**TVS**

*Racing*

**RT**  
SLIPPER CLUTCH

### **RACE TUNED SLIPPER CLUTCH**

Allows for rapid downshifts while preventing rear wheel hop. The assist function tightly binds the clutch plates during acceleration, allowing for increased torque carrying capacity with reduced clutch engagement force.



### **UNIQUE REVERSE INCLINED DOHC ENGINE**

The BS6 compliant, race-derived 312 cc reverse inclined DOHC engine peaks at 9,800 RPM, producing an unprecedented 38 PS of power. The Lite KS cast piston with Nanofriks coating reduces friction for greater performance.



### **BI-DIRECTIONAL QUICKSHIFTER**

The track-tuned 6-speed gearbox has negative back rack gears for precision shifts and quick launches. It is mated to a Bi-Directional Quickshifter enabling precise and effortless gearshifts that save milliseconds every time.



**CRAFTED**  
**FOR AGILITY**

A close-up photograph of the front wheel and suspension of a red motorcycle. The image shows the front fork with a gold-colored upper tube, a silver lower tube, and a black triple clamp. A gold-colored Brembo brake caliper is mounted on the front disc brake. The front wheel is a black alloy wheel with a multi-spoke design. The tire is a Michelin Road 5, with the text 'MICHELIN ROAD 5' and '2CT 0822' visible on the sidewall. The motorcycle's bodywork is a vibrant red color. The background is a dark, neutral color.

## DUAL CHANNEL ABS

The Dual Channel ABS prevents wheel lock, while the Rear Wheel Lift-off Protection technology keeps the racer's wheels on the track, even when braking late into corners.



### **RACE-TUNED KYB SUSPENSION**

- Honed and tuned by experts from KYB
- Monoshock with Monotube floating piston technology
- Hydraulic stopper with check valves for better damping
- Adjustable Front and Rear Suspension\*

\*Available only in BTO



### **RACE ORIGIN TRELIS FRAME**

The lightweight trellis frame provides high dynamic stiffness while the forged aluminium die-cast swingarm offers greater stability and confidence.



### **SUPERIOR MICHELIN ROAD 5 TYRES**

Engineered with next-gen compounds and featuring Michelin's patented ACT technology, these tyres provide maximum grip for cornering and a superior ride feel. The patented siped tyre treads expel maximum water, delivering best-in-class wet grip. The rigidity of the tyres offers superior road feedback, allowing the rider to respond to any road condition.

## **AGGRESSIVE STANCE**

*Inspired by the deadliest predator, the shark, the Apache RR310 is designed with a raked-high tail and a forward weight bias to make it more streamlined.*



**CRAFTED**  
**TO IMPOSE**



### **TRANSPARENT ANTI-FOG CLUTCH COVER**

*The Apache RR310 gets a unique first-in-segment aesthetic upgrade with a Transparent Anti-Fog Clutch Cover. It gives the track machine an extra shot of racing aggression and the racer, bragging rights.*



### **SEQUENTIAL TURN SIGNAL LAMPS**

*The all-new 5-LED Sequential Turn Signal Lamps create a striking impression with its bionic effect, while enhancing visibility and improving rider safety.*



## **BI-LED TWIN PROJECTOR HEADLAMPS**

*A first in its class, the headlamps provide clear visibility even in harsh racing conditions.*



## **RACING ERGONOMICS**

- Honed using static and dynamic ergonomic testing
- Gives the racer ultimate control on the track

## **ADVANCED AERODYNAMICS**

Extensive designing and testing in a state-of-the-art wind tunnel has yielded the best-in-class Coefficient of Drag. This ensures minimum wind blast and a higher top speed, while achieving maximum downforce. The shape and contours of the bike, including the aerodynamically designed windshield make it slice through the air.



**CRAFTED**  
BY THE **WIND**

A close-up photograph of a red motorcycle's bodywork, focusing on the aerodynamic winglets. The winglets are black and have a curved, airfoil-like shape. They are mounted on the red plastic fairing. In the background, a gold-colored fork tube and a black handlebar are visible. The lighting is bright, highlighting the smooth surfaces and the sharp edges of the winglets.

## **FIRST-IN-CLASS AERODYNAMIC WINGLETS**

*Harnessing the power of aerodynamics to the fullest, the Apache RR310 comes with first-in-segment race-tuned winglets, delivering superior control in high speeds by generating up to 3 kgs of downforce.*



### **RAM-AIR INTAKE**

*Provides thermal management by channelling air towards the engine.*



### **GILL VENTS**

*The patented Deflector Cowl along with gill vents channel hot air away from the engine, giving the racer greater ride comfort even when the racing gets heated.*

## **MULTI-INFORMATION RACE COMPUTER**

The state-of-the-art 5-inch TFT Display is the intelligent interface that connects the racer to the array of cutting-edge technology features on the Apache RR310. Gain access to essential information and functions such as realtime tyre pressure, overspeed indication, DigiDocs, Race Telemetry, Dynamic Rev Limit Indication and more. The new gen-2 Race Computer features a more intuitive UI/UX with multi-language options, and impressive ride analytics like Lean Angle Statistics.



**CRAFTED**  
**TO OVERCOME**

### **THROTTLE-BY-WIRE**

The Electronic Throttle Control with multiple sensors is tuned for each ride mode to keep the track weapon ahead in any race condition.

### **LEAN ANGLE STATISTIC**

In Track Mode, the advanced telemetry system calculates your lean angle. Review and analyse your maximum lean angle after your ride as you cool down at the paddock.

### **DRAG TORQUE CONTROL**

Race more aggressively without the worry of losing traction, when you abruptly close the throttle or execute quick downshifts. In such conditions, the Drag Torque Control prevents rear wheel lock-up by adjusting the engine torque or engaging the clutch system, ensuring controlled deceleration.





## URBAN MODE

Delivers linear acceleration and deceleration along with smooth and controlled movement. View information that's essential to your commute such as navigation, cellular notifications etc. The ABS is optimised for quick response with minimal lever pulsation.

\*Available only in BTO.



## TRACK MODE

Unleashes full power and optimises ABS response for late braking into corners. The display clears up to show only vital information such as Race Telemetry. A detailed post-race analysis is sent to your smartphone via the SmartXonnect App.



## RAIN MODE

Optimises ABS for maximum response with a strong level pulsation feel. The enhanced Rear Wheel Lift-off Protection improves safety and stability on wet roads, providing ultimate control of the race machine.



## SPORT MODE

Allows for maximum acceleration and optimised deceleration, engine braking and ABS response. View relevant touring data including navigation, distance and estimated time of arrival.

## SMART XCONNECT

The SmartXconnect App links the racer's smartphone to your race machine. The cutting-edge Bluetooth connected app offers a range of race analytics and data that allows any racer to review their racing style and constantly improve it on the track. The app displays a detailed post-ride/race analysis which includes data such as distance covered, gear shifting points, best lap record, G-Force, interactive tour map plot, ride pattern analysis, and much more.



## CRUISE CONTROL

The cutting edge Cruise Control system allows you to maintain a set speed without using the clutch or throttle. The toggle button can be used to increase or decrease the speed without applying the throttle.



## GLIDE THROUGH TECHNOLOGY+

Tuned for Urban and Rain Modes, GTT+ sets the bike in motion with a slow release of the clutch, without throttle application, or the engine stalling – enabling an extremely smooth and controlled ride.

**TVS**  
**BUILT TO**  
**ORDER**

*With TVS Built To Order (BTO), the TVS Apache RR310 is the first race machine that can be crafted-to-order. To suit your unique needs, The Apache RR310 with TVS Built To Order comes with two predefined customisable performance kits. Choose between these kits or choose the best of both worlds to craft your ultimate track weapon, your way.*



**CRAFTED**  
**FOR YOU**



## **ALL-NEW SEPANG BLUE COLOUR**

Inspired by the record-shattering machine that dominated the Asia Road Racing Championship (ARRC) with a best lap time of 1:49:742 seconds and a blazing top speed of 215.9 kph.





## ***DYNAMIC KIT***

### **BRASS COATED CHAIN**

Styled to stand out, make heads turn with the unique brass coated chain. The rustproof design also aids in performance.

### **TYRE PRESSURE MONITORING SYSTEM**

The tyre pressure sensors constantly monitor the front and rear tyre pressures, displaying real-time updates on the cluster and the SmartXonnect App. If the tyre pressure is above or beyond the recommended limit, it provides a warning to the racer.



## **FULLY ADJUSTABLE FRONT AND REAR SUSPENSION**

The Apache RR310 allows you to set-up the machine to suit your riding style. The front suspension features fully adjustable preload, compression and rebound damping, while the rear suspension has fully adjustable preload and rebound damping. This allows the Apache RR310 to be tuned to perform on any riding surface.





## DYNAMIC PRO KIT



### RACE-TUNED DYNAMIC STABILITY CONTROL

Uses a 6D Inertial Measurement Unit to continuously monitor key data points like lean angle, cornering speed, traction to adapt power and brake inputs, enabling the racer to push harder with confidence, regardless of the race conditions.

# SPECIFICATIONS

## Engine

Type	SI, 4 Stroke, 4 Valve, Single Cylinder, Liquid Cooled, Reverse Inclined
Engine Capacity	312.2 cc
Maximum Power	Sport and Track Mode - 28 kW@9800 Engine rpm (38 PS@9800 engine rpm) Urban and Rain Mode - 22 kW@7600 Engine rpm (30 PS@7600 Engine rpm)
Maximum Torque	Sport and Track Mode - 29 Nm@7900 Engine rpm Urban and Rain Mode - 26.5 Nm@6700 Engine rpm
Bore	80 mm
Stroke	62.1 mm
Fuel Injection	Bosch - Closed Loop RT-FI
Bore to Stroke Ratio	1.29
Starting	Electric Start
Idle Speed	1700 ± 200 rpm
Ignition	Dynamically Controlled Integrated High Energy Ignition System
Power to Weight Ratio	0.144 kW/kg
Compression Ratio	12.17 :1
Air Filter	Dry Paper Filter
Cooling System	Liquid Cooled
Muffler	Single Pipe and Single Body Design
Clutch	Wet Multi Plate - 7 Plate Design, RT Slipper Clutch
Gear Box	6 Speed

## Chassis and Suspension

Frame	Trellis Frame, Split Chassis
Front Suspension	Inverted Cartridge Telescopic Fork
Rear Suspension	Two Arm Aluminium Die-Cast Swingarm

## Fuel Tank Capacity

Full	11 L
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## Dimension

Height	1135 mm
Length	2001 mm
Wheelbase	1365 mm
Ground Clearance	180 mm
Saddle Height	810 mm

## Electrical

Battery	12V, 8Ah
Headlamp	Bi-LED Projector, 30W @ 13 V
Tail Lamp	LED 4 W
Instrument Cluster	5" TFT Screen Connected Cluster

## Wheel and Tyre

Rim Size (front)	MT 3.0 x 17
Rim Size (rear)	MT 4.0 x 17
Tyre Size (front)	110/70-ZR17 M/C 54W Tubeless - Michelin ROAD 5
Tyre Size (rear)	150/60-ZR17 M/C 66W Tubeless - Michelin ROAD 5

## Brakes

Front	Disc 300 mm Petal type with ABS
Rear	Disc 240 mm Petal type with ABS
ABS	With 3 Ride Modes
Brake Fluid	DOT 4

## Weights

Kerb Weight	174 kg
Max Payload	130 kg

## Performance

Max Speed	164 km/h - Sport and Track Mode
Acceleration 0-2sec (speed in km/h)	49 km/h
0-60km/h (time in sec)	2.82 s
0-100km/h (time in sec)	6.74 s





Every Apachean can register and be a part of the Apache Owners Group, a motorcycling community consisting of over 3,00,000 members. With chapters across the globe, the group embarks on motorcycling adventures of all kinds.



Wheelies pop, and jaws drop. The Apache Pro Performance is a series of stunt shows like no other. Featuring the best precision riders in the country who put on thrilling performances that get your adrenaline pumping.



Participate in the Ultimate Racing Championship. Spread across 4 countries and 20 cities, participants will be mentored by the best from TVS Racing. 60 of the top racers will participate in the national finals to be crowned the Ultimate World Champion.

# Apache **RTR** 310

**RACING DNA UNLEASHED**

