

FANTIC
RACING

ENDURO RANGE 2024





PURE ENDURO,
REAL FACTORY
FEELING.

Constant improvement.

This is the key for the
flagship of our **NEW RACING
ERA** range, which this year
undergoes a considerable
upgrade and boasts the title.

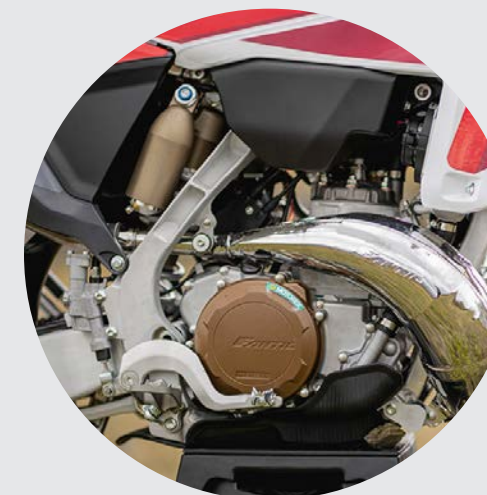
XE 300

THE ITALIAN HEART BEATS AGAIN: HERE IS THE XE 300 2T

The long awaited XE300 2T powered by the **new powerful Minarelli Euro5**, with injection and electric start, has been launched on the market. A bike that ensures victories, but which has already won with its new version ridden perfectly by the young Swedish rider **Albin Norrbin**, all out to win the **Enduro Junior2 world title in this magical 2023 for Fantic's enduro (5 World titles)**. Today, the XE300 is finally ready in the standard version, and will already be on the market by the end of 2023.



XE 300



THE MOST PERFORMING 300 cc ON THE MARKET

XE300 is a motorbike dedicated to uncompromising performance thanks to the best-performing 300cc engine on the market. **The first engine in Fantic's Racing range was developed**, tested and produced in **Italy by Motori Minarelli**, the latter acquired by Fantic in 2020 from Yamaha Motor Europe. A compact, technological and extremely high-performing engine, which guarantees great power, but a regular and full torque curve at all speeds.



TECHNOLOGY

The technology stored inside this jewel guarantees its brilliant performance, first and foremost due to a **double injector electronic injection system** which ensures excellent regularity of operation and E5 Plus compliance. The exhaust valve is electronic, allowing a full and vigorous torque curve at every speed. The electric starter designed by Minarelli ensures immediate starts in all conditions. Finally, the hydraulic clutch ensures precision and minimal effort on the lever.



THE ONLY 300 WITH AN ALUMINIUM FRAME

The cycling sector is top class and differs from all the competitors on the market. It is the **only 300 2T** that has been developed around a fine aluminum frame with a semi-dual cradle which ensures the best possible rigidity/lightness ratio. Like the other siblings in the enduro range, it confirms the **Kayaba suspension with 48mm SSS fork**, for years a point of reference in the off-road world. It is thus an extremely agile motorbike, with unrivaled handling qualities in its category.



ELECTRONICS, MAPPINGS AND TRACTION CONTROL

The explosiveness of the 2-stroke is also managed by the first-rate electronic component, **primarily the multilevel traction control**, perfect for tackling different conditions and a cutting-edge double handlebar mapping switch. Deep study was also reserved for the handlebar positions of the switches and buttons, allowing great functionality, with reduced spaces and minimal design. **Configuration LEDs, multilevel Traction control setting** and double map switch are positioned on the left, with only the classic kill switch on the right.



ERGONOMICS AND FUNCTIONALITY

Great functionality is also guaranteed from a maintenance point of view with direct access to the air filter. Last but not least, is the **ergonomic aspect studied by the Fantic test team**, which boasts minimal dimensions and maximum centralization of masses. The oil and petrol tank are integrated, the conveyors are narrow and ergonomic; the rear axle has been completely redesigned compared to Fantic's other 2-stroke offroad models, ensuring room for many more components, but maintaining the same overall dimensions.



XE 125

AGILE, SIMPLE, LIGHT.

That's the ideal enduro bike, and that's **the new XE125**.
a lighter rear axle,
Easier maintenance and
a robust and completely
new **125 2-stroke engine**
only underline the concept.



XE 125



BLACK EDITION



POWER AND RESPONSIVENESS

The small but **high-performance 125 cc 2-stroke engine** is totally refurbished, drawing on the Youth 2021 world champion cross engine.

Obviously, it retains E5 homologation, a very rare achievement in a small 2-stroke.

Thanks to the redesign of the cylinder, piston and connecting rod, and a new **Keihin PowerJet 38 mm carburettor**, our 125 has never been so gutsy, calibrated and rideable at low revs.



SIMPLY HIGH PERFORMANCE

15 seconds. No tools. That's all you need to change the TwinAir air filter with the new rear axle. The important thing is to ride, not to spend time on maintenance. In addition to an extremely simple filter change, the **Fantic** engineers have also improved lightness and performance: 10% less weight overall for the new components, while the size of the filter case has been meticulously studied and tested by our Factory team to maximise performance at high revs. Our 125 2-stroke engine pairs perfectly with a 100% aluminium chassis, a combination that's practically unique on the market. High-tech, lightweight but also extremely rigid, it provides the utmost precision and responsiveness, for maximum power in any conditions.



NOT ONLY COOL

Our **Arrow** exhaust system is so beautiful you could keep it in your living room.

But that would be a pity, because thanks to superb quality materials and processes it's also incredibly high-performance, giving your XE125 plenty of punch at high revs without sacrificing smooth progression throughout the curve.



LANDMARK QUALITY

High quality suspension should guarantee ultra-precise handling, using every millimetre of the stroke to filter the terrain and keep only what the rider needs.

This is why we chose KYB and a 48 mm pressurised closed-cartridge **SSS (Speed Sensitive System)** fork, with 300 mm of travel and super-adjustable for preload, extension and compression.

The mono shock absorber is also Kayaba, with 315mm wheel travel.



CONSISTENCY IS THE KEY

A rider is a winner if he remains constant from beginning to end of the heat.

This is why we've worked hard with the **Enduro Factory Team** to develop an ergonomic design that's sleek, clean and contoured to give you maximum riding freedom.



MAGIC BUTTON

Wet or hazardous terrain?
Tired at the end of a long day?

No worries, we've thought of that too.

The **XE** comes with two mapping modes as standard: Hard delivers for maximum performance, while Soft delays ignition for **smoother** and easier-to-handle response, without sacrificing the adrenaline of full power.



XEF 250

INTELLIGENCE AND PERFORMANCE.

These are the two key words for our quarter-litre, the **perfect engine size for enduro.**

It's so intelligent all you need is your smartphone to set it up; so high-performance that it **won the six days 2021 with team italy.**



XEF 250



BLACK EDITION



THE ENGINE FOR ALL

Great performance, but easy to manage, to avoid needlessly tiring professional **riders** and **hampering amateurs**.

Our 250 cc always knows how to behave: **high-performance**, light and **reliable**.

Characteristics that arise from a series of solid solutions like the double **camshaft** and drive shaft, and a touch of **craziness**.

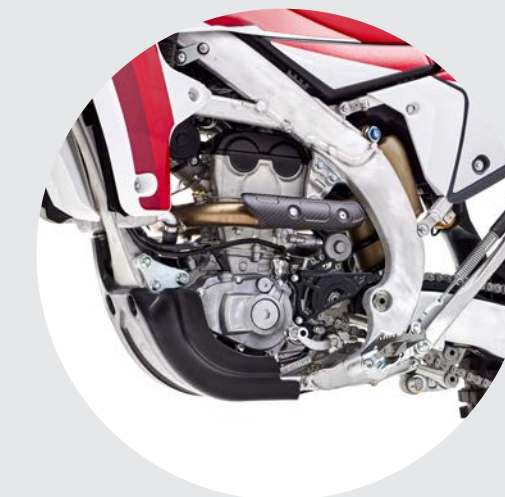
The inverted head, combined with a **backwards-sloping cylinder**, **centralises** the weight and **guarantees exceptional** agility and impressive handling.



PRECIOUS METAL

The exhaust system is an essential component to get the best from our 4-stroke.

Developed in collaboration with **Arrow**, the manifold closely hugs the cylinder to centralise weight, while the aluminium terminal releases all the power and thrilling sound of a 250.



ADVANCED TECHNOLOGY

Want to turn on a sixpence? Want to correct your course at the last moment to avoid an obstacle? Our superb aluminium frame was designed for this. Moulded, extruded and die-cast components join forces to guarantee the ideal balance of lightness and **rigidity, agility and precision**. High quality suspension should guarantee ultra-precise handling, using every millimetre of the stroke to filter the terrain and keep only what the rider needs. This is why we chose KYB and a 48 mm pressurised closed-cartridge SSS (Speed Sensitive System) fork, with 300 mm of travel and super-adjustable for preload, extension and compression. The mono shock absorber is also Kayaba, with 315mm wheel travel.



CONSISTENCY IS THE KEY

A rider becomes a winner if his performance is consistent from start to finish.

The 8-litre central tank allowed us to work with the **Enduro Factory Team** on an ergonomic design that's sleek, clean and contoured.

The seat design is also key, comfortable and with great grip. And all to offer you maximum comfort and freedom, from a **Sunday ride to a 6-day event**.



READY FOR ANYTHING

Is there a discipline with more obstacles and pit-falls than **Enduro**?

We want you to tackle any course without worries, and that's why the **XEF250** comes with guard as standard and robust engine

XEF 310

THE PERFECT BALANCE: THE XEF 310 4T ALSO MAKES ITS DEBUT

There are unending novelties in Fantic's enduro panorama. The **XEF310 makes its debut, a 4T model** which is positioned in an intermediate position between 250 and 450 and boasts a perfect balance between the best characteristics of these models. In fact, the extreme agility, user-friendliness and consequent fun driving of the **250 4T is guaranteed**, but with a power output and powerful torque that is close to its bigger 450 sibling. Many hours were dedicated to the pursuit of the best balance between performance and user-friendliness even for amateurs.



XEF 310



ENGINE

This translated into a **compression ratio (12.8)**, not too high, but much **more suitable for the large 360 enduro**. Lots of torque in the low range, with a full and enjoyable power delivery at all revs without losing power in the highs and without the sometimes excessive nastiness and explosiveness of many 450s.



MAPS AND TRACTION

The character of the engine can also be customized by choosing one of the 3 dedicated maps (hard/soft/standard), which can be selected directly with the new map switches on the handlebars that also **govern the traction control on 9 levels**.



CHASSIS

Like its 250 and 450 siblings, boasts a cycling division that is unrivalled on the enduro scene. Moulded, extruded and die-cast components join forces to guarantee the ideal balance of lightness and rigidity, agility and precision. High quality suspension should guarantee ultra-precise handling, using every millimetre of the stroke to filter the terrain and keep only what the rider needs. **This is why we chose KYB and a 48 mm pressurised closed-cartridge SSS** (Speed Sensitive System) fork, with 300 mm of travel and super-adjustable for preload, extension and compression. The mono shock absorber is also Kayaba, with 315mm wheel travel.



WIFICOM AND WIGET APP

WIFI COM is also standard, thus creating a complete electronic package to custom-fit the bike. In addition, with the dedicated WiGET app, it's like having several bikes in one. With a simple click from your smartphone, the bike's ECU adjusts to one of the mapping **setups developed by Fantic Racing**, or you can create your own engine set-up, for any terrain and weather conditions. It's also possible to read the bike's meter, add service notes, get diagnostics and view engine data in real-time.



XEF 450

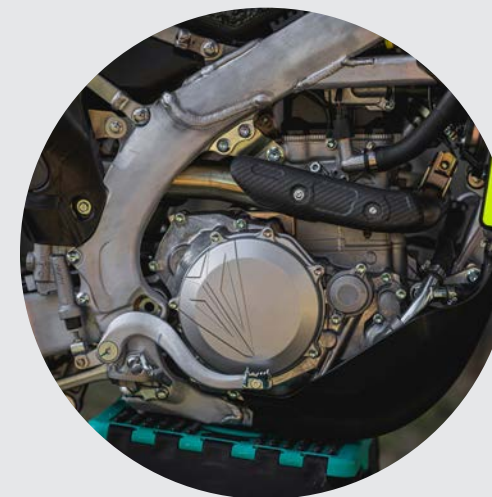
A bike for the most ambitious:
450 is the queen of enduro,
the very limit between balance,
control and overkill.
But don't worry: the XEF450
is a master of the art, with the
55-Plus hp of the 4-stroke engine
kept under control by **100%**
Fantic-made engine management.
If you're looking for maximum
adrenaline and performance,
this is **the bike for you.**



XEF 450



BLACK EDITION

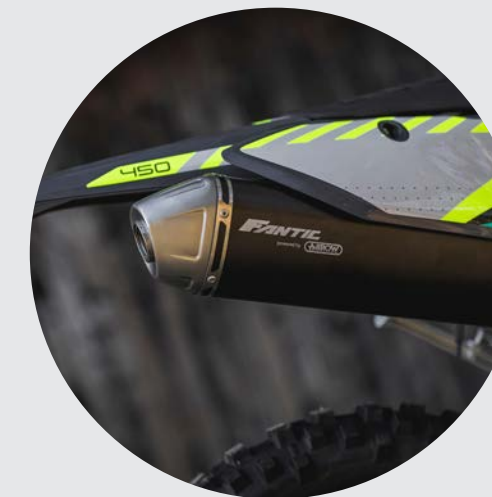


THOROUGHBREDS

Our fabulous 4-stroke requires no introduction: an engine with great power and everything it takes to enjoy it - badass when needed, but always manageable.

Characteristics that arise from a series of solid solutions like the double cam shaft and drive shaft, and a touch of **craziness**.

The inverted head, combined with a backwards-sloping cylinder, centralises the weight and guarantees exceptional agility and impressive handling.



PRECIOUS METAL

The exhaust system is an essential component to get the best **from our 4-stroke**.

Developed in collaboration with **Arrow**, the manifold closely hugs the cylinder to centralise weight, while the aluminium terminal releases all the power and thrilling sound of a 450.

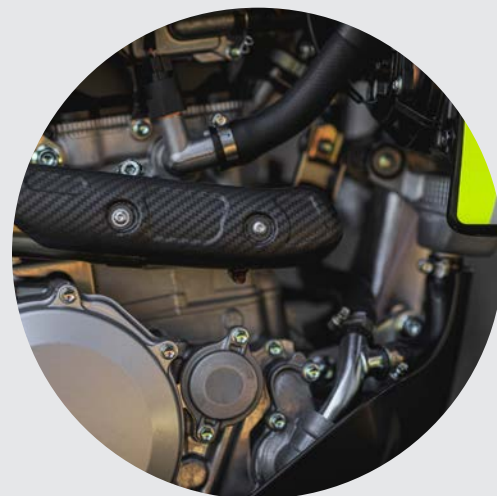


CONSISTENCY IS THE KEY

A rider becomes a winner if his performance is consistent from start to finish.

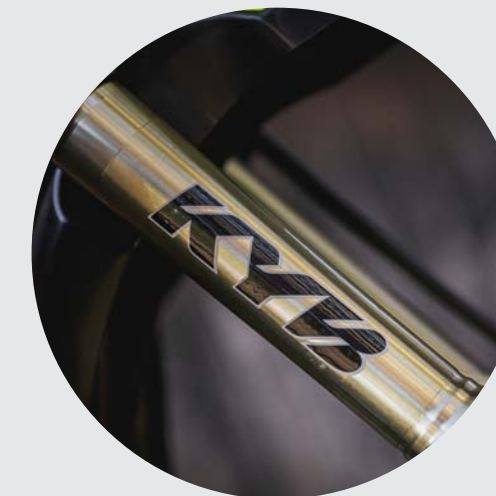
The 8-litre central tanks allowed us to work with the Enduro Factory Team on an ergonomic design that's sleek, clean and contoured.

The **seat design is also key**, comfortable and with great grip. And all to offer you maximum comfort and freedom, from a Sunday ride to a 6-day event.



ADVANCED TECHNOLOGY

Want to turn on a sixpence? Want to correct your course at the last moment to avoid an obstacle? Our superb aluminium frame was designed for this. Moulded, extruded and die-cast components join forces to guarantee the ideal balance of lightness and rigidity, agility and precision. High quality suspension should guarantee ultra-precise handling, using every millimetre of the stroke to filter the terrain and keep only what the rider needs. This is why we chose **KYB** and a **48 mm pressurised closed-cartridge SSS (Speed Sensitive System)** fork, with 300 mm of travel and super-adjustable for preload, extension and compression. The mono shock absorber is also **Kayaba**, with 315mm wheel travel.



READY FOR ANYTHING

Is there a discipline with more obstacles and pitfalls than **Enduro**?

We want you to tackle any course without worries, and that's why the **XEF250** comes with guard as standard and robust engine



TECHNICAL SPECIFICATIONS

XE 125



CHASSIS

FRAME TYPE Aluminium semi double cradle

CASTER ANGLE 26.8°

TRAIL 116 mm

REAR FRAME: Aluminium

SWINGARM Aluminium with variable section and progressive link

RIMS 21x1.60 - 18x2.15

TYRES 90/90x21 - 120/90x18

BRAKES Hydraulic disc ø270mm - Hydraulic disc ø240mm

FRONT SUSPENSION KYB ø48 mm, fully adjustable, wheel travel 300 mm

REAR SUSPENSION: KYB, fully adjustable, wheel travel 315 mm

ENGINE

TYPE Single-cylinder 2-strokes with intake reed valve and exhaust YPVS

DISPLACEMENT 125 cc

CARBURETOR Keihin PWK38S/1

BORE 54 mm

STROKE 54.5 mm

COMPRESSION RATIO 7.8 - 10.2 : 1

IGNITION SYSTEM CDI

STARTING SYSTEM Kickstarter

LUBRICATION SYSTEM Premix

TRANSMISSION 6-speed

CLUTCH Wet, multiple-disc

HOMOLOGATION Euro5

CO2 EMISSION 63 g/km

OVERALL DIMENSIONS

LENGTH 2140 mm

WIDTH 825 mm

HEIGHT 1285 mm

SEAT HEIGHT 955 mm

WHEELBASE 1455 mm

WET WEIGHT 94 kg

FUEL TANK CAPACITY 9.0 l

ENGINE OIL QUANTITY 0.7 l



XE 300



CHASSIS

FRAME TYPE Aluminum semi double cradle

CASTER ANGLE 27.7°

TRAIL 122 mm

REAR FRAME: Alluminum

SWINGARM Aluminum with variable section and progressive link

RIMS 21x1.60 - 18x2.15

TYRES 90/90x21 - 140/80x18

BRAKES Hydraulic disc ø270mm Hydraulic disc ø240mm

FRONT SUSPENSION KYB ø48 mm, fully adjustable, wheel travel 300 mm

REAR SUSPENSION: KYB, fully adjustable, wheel travel 315 mm

ENGINE

TYPE Liquid-cooled single-cylinder 2-stroke with reed valve intake and electronically controlled exhaust valve

DISPLACEMENT 292,9 cc

INJECTION Indirect with double injector

BORE 72.0 mm

STROKE 72.0 mm

COMPRESSION RATIO 11.5:1

IGNITION SYSTEM CDI

STARTING SYSTEM Electric starter

LUBRICATION SYSTEM Separate mixer

TRANSMISSION 5-speed

CLUTCH Wet multi-disc with hydraulic control (STM actuator - BREMBO PUMP)

OVERALL DIMENSIONS

LENGTH 2140 mm

WIDTH 825 mm

SEAT HEIGHT 970 mm

WHEELBASE 1485 mm

WET WEIGHT 107 kg

FUEL TANK CAPACITY 9.0 l

ENGINE OIL QUANTITY 0.8 l



XEF 250



ENGINE	
TYPE	Single-cylinder 4-strokes, liquid cooled, 4 valves, DOHC
DISPLACEMENT	249 cc
INDUCTION	Fuel Injection
BORE	77.0 mm
STROKE	53.6 mm
COMPRESSION RATIO	13.8 :1
IGNITION SYSTEM	TCI
STARTING SYSTEM	Electric starter
LUBRICATION SYSTEM	Wet sump
TRANSMISSION	6-speed
CLUTCH	Wet, multiple-disc
HOMOLOGATION	Exempt
CO2 EMISSION	83 g/km

CHASSIS

FRAME TYPE	Aluminium perimeter frame
CASTER ANGLE	27.2°
TRAIL	116 mm
REAR FRAME:	Aluminium
SWINGARM	Aluminium with variable section and progressive link
RIMS	21x1.60 - 18x2.15
TYRES	90/90x21 - 130/90x18
BRAKES	Hydraulic disc ø270mm Hydraulic disc ø245mm
FRONT SUSPENSION	KYB ø48 mm, fully adjustable, wheel travel 310 mm
REAR SUSPENSION:	KYB, fully adjustable, wheel travel 317 mm

OVERALL DIMENSIONS

LENGTH	2175 mm
WIDTH	825 mm
HEIGHT	1270 mm
SEAT HEIGHT	955 mm
WHEELBASE	1480 mm
WET WEIGHT	115 kg
FUEL TANK CAPACITY	7.9 l
ENGINE OIL QUANTITY	0.95 l



XEF 310



ENGINE	
TYPE	Single-cylinder 4-strokes, liquid cooled, 4 valves, DOHC
DISPLACEMENT	304 cc
INDUCTION	Fuel Injection
BORE	85.0 mm
STROKE	53.6 mm
COMPRESSION RATIO	12.8 :1
IGNITION SYSTEM	TCI
STARTING SYSTEM	Electric starter
LUBRICATION SYSTEM	Wet sump
TRANSMISSION	6-speed
CLUTCH	Wet, multiple-disc
HOMOLOGATION	Euro5
CO2 EMISSION	83 g/km

CHASSIS

FRAME TYPE	Aluminium perimeter frame
CASTER ANGLE	27.2°
TRAIL	116 mm
REAR FRAME:	Aluminium
SWINGARM	Aluminium with variable section and progressive link
RIMS	21x1.60 - 18x2.15
TYRES	90/90x21 - 140/90x18
BRAKES	Hydraulic disc ø270mm Hydraulic disc ø245mm
FRONT SUSPENSION	KYB ø48 mm, fully adjustable, wheel travel 310 mm
REAR SUSPENSION:	KYB, fully adjustable, wheel travel 315 mm

OVERALL DIMENSIONS

LENGTH	2175 mm
WIDTH	825 mm
HEIGHT	1270 mm
SEAT HEIGHT	955 mm
WHEELBASE	1480 mm
WET WEIGHT	106 kg
FUEL TANK CAPACITY	7.9 l
ENGINE OIL QUANTITY	0.95 l



XEF 450



ENGINE

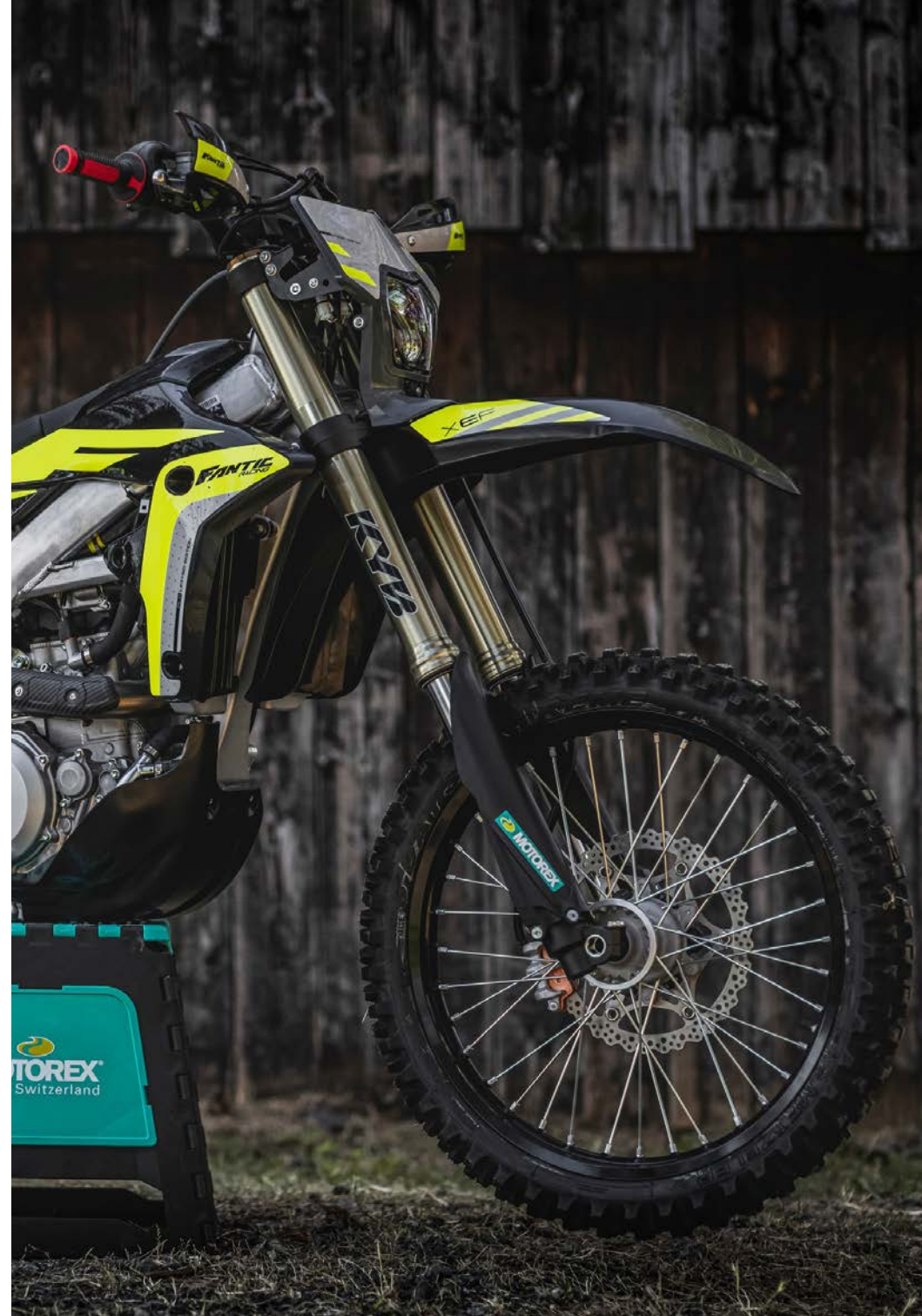
TYPE	Single-cylinder 4-strokes, liquid cooled, 4 valves, DOHC
DISPLACEMENT	450 cc
INDUCTION	Fuel Injection
BORE	97.0 mm
STROKE	60.8 mm
COMPRESSION RATIO	13.0: 1
IGNITION SYSTEM	TCI
STARTING SYSTEM	Electric starter
LUBRICATION SYSTEM	Wet sump
TRANSMISSION	5-speed
CLUTCH	Wet, multiple-disc
HOMOLOGATION	Euro5
CO2 EMISSION	93 g/km

OVERALL DIMENSIONS

LENGTH	2175 mm
WIDTH	825 mm
HEIGHT	1270 mm
SEAT HEIGHT	955 mm
WHEELBASE	1480 mm
WET WEIGHT	113 kg
FUEL TANK CAPACITY	7.9 l
ENGINE OIL QUANTITY	0.95 l

CHASSIS

FRAME TYPE	Aluminium perimeter frame
CASTER ANGLE	27.2°
TRAIL	116 mm
REAR FRAME:	Aluminium
SWINGARM	Aluminium with variable section and progressive link
RIMS	21x1.60 - 18x2.15
TYRES	90/90x21 - 140/90x18
BRAKES	Hydraulic disc ø270mm - Hydraulic disc ø245mm
FRONT SUSPENSION	KYB ø48 mm, fully adjustable, wheel travel 310 mm
REAR SUSPENSION:	KYB, fully adjustable, wheel travel 317 mm



EXPERIENCE
THE PURE
ESSENCE
OF RIDING.



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CONCEPT / REALITY



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