BODY WORK

FENDER New design consistent with the style of front & rear fender

New rear fender profile to improve mud evacuation.

HEAD LIGHT Front headlight with preservation of the SCORPA brand identity

Homogenization of trial & enduro light appearance.

REAR LIGHT integrated in the rear of the air filter box Hidden electrical harness.





COCKPIT & TRIPLE CLAMPS

- MAP switch and front and rear switch grouped behind the headlight shell.
- CLAMPS Optimized design for weight reduction of 4% or 29 grams

Front face clean up by screws integrated into the rear surface Steering stops positioned on the lower fork clamps.

Map switch map & Front/rear switch





BRAKE PEDAL & GEAR SELECTOR

Integration of an anti-mud hinge system

MIM technology tip
Integrated bearings to avoid lateral play.



Integration of an anti-mud hinge system. MIM technology tip Complete selector group weight reduction of 118% or 57 grams.



FRAME

Geometry allowing a center of gravity lowering and easy turns 6% or 365 grams weight reduction Improved rigidity and increased traction.

Chrome-molybdenum tubes and micro-fusion parts Robot-weldec 1 000 000 test cycles
Removable forged aluminum side plates that provide better access
Integrated polymer frame protectors.



SWINGRAM & SUSPENSION LINKS

New settings that improve comfort, and provide better weight distribution

Significant weight reduction in the control links

Improved traction in dry and slick conditions.





FUEL TANK & FUEL POMP

- 2.2 liters capacity Integrated fuel pump Blown technology for optimized weight.
- Ultra-compact fuel pump developed by SCORPA Bypass recovery tank to prevent fuel loss.



RADIATOR & FOOTRESTS

Radiator cores increased by 58% from 12 to 19: improved cooling with same size

Radiator fill spout tilted **30°** to the front quick removable grill with clips.

Steel micro-fusion footrest group Improved central stability & increased grip

Better mud evacuation & Improved riding position Axle fixing without nut & Antisag stopper.







EXHAUST

Internal volume of silencer increased by **35%**: strength, torque, stability, durability

Thermoformed compressed fiber for better longevity

Silencer is now easy to disassemble for fiber change.





AIR FILTER

Air filter box Volume increased by **7%.**

Air filter surface INCREASED by 11%.

Provides an increase in power at low revs, increased torque and engine response.

The hatch can be opened with a finger

Filter replacement is easier.







CONCEPT

MY 2022 engine weighed 20.5 kg.

MY 2023 engine weighs **16 kg.**

Reduction in weight **28%** or **4.5 kg.**



CRANKCASES & CEANKSHAF

New pre-compression system in lower engine to improve performance

Possibility to modify the compression in the lower part of the engine.

Lighter crankshaft by 13%_or 500 grams larger diameter 110 MM > 116 mm in order to increase inertia Significant reduction in weight at the axis.



GEARBOX & GEAR SELECTION SYSTEM

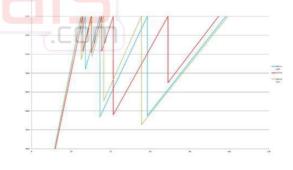
The most compact 5-speed gearbox and the lightest by 500 grams

Regular specific gearing 1>2>3 for sections, 4 mid sections and inter section and 5 for travel between sections.

Aluminum selector forks directly articulated on the selection drum the 2 axes eliminated which saves weight.

Shifting is provided by a ratchet system: compact and lighter. the total weight reduction is 28% or 145 grams.







OIL & CLUTCH

- The oil capacity is now **450 ml**Magnesium clutch cover with oil
 level inspection window
 filling method has been
 simplified.
- Diaphragm clutch system with 3 positions allowing MODULATION

Revised pressure plate and spring for improved comfort and precise control.







WATER PUMP & CYLINDER

The water pump is located internally in an inverted position

NO contact between the coolant and the magnesium case.

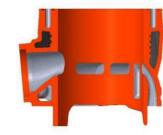
New foundry cylinder with a faceted design.

New improved thermodynamics, FROM **5 to 7 intake transfers** Improved cylinder cooling circuit utilizing redesigned contact surfaces.

+24% cooling surface.







REED CASE & INJECTION BODY

- New reed valve box system to optimize gas flows (fuel/air) in the intake and gain increased power at low revs
- New specific throttle body with triple sensors integrated in 1 Atmospheric pressure

TPS Throttle position
Temperature
32mm diameter to optimize
efficiency
and provide proper flow
response

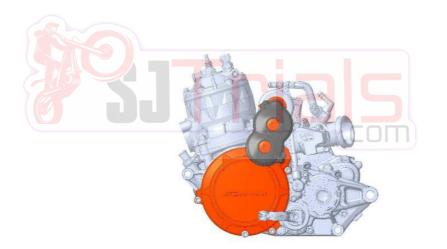
Reduced fuel consumption through optimized gas exchange





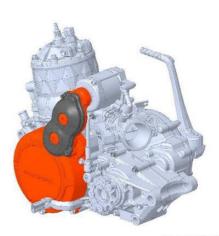


ELECTRIC START







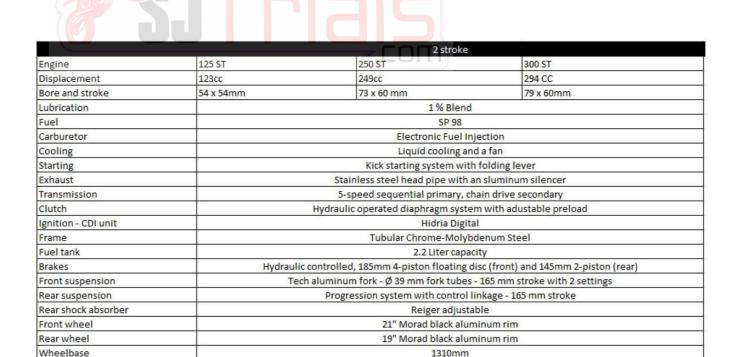




Ground clearance

Seat Height

DATASHEET



350mm

704mm