



SUPERLEGGERA V4

Dreams Matter



Project concept

Superleggera V4 is a project that can only be implemented in Borgo Panigale, Bologna, at Ducati Motor Holding. It is a project where excellence, engineering and dreams come together in a direction that is as aspirational as it is performative. It is such an ethereal and yet so extremely concrete project, made of matter, sounds, futuristic technologies, speed and very strong emotions.

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Positioning

SUPERLEGGERA V4

Superleggera V4 is the most powerful, the fastest and the most technologically advanced production Ducati ever.



Limited and numbered
500 units only

SUPERLEGGERA V4
N° XXX / 500



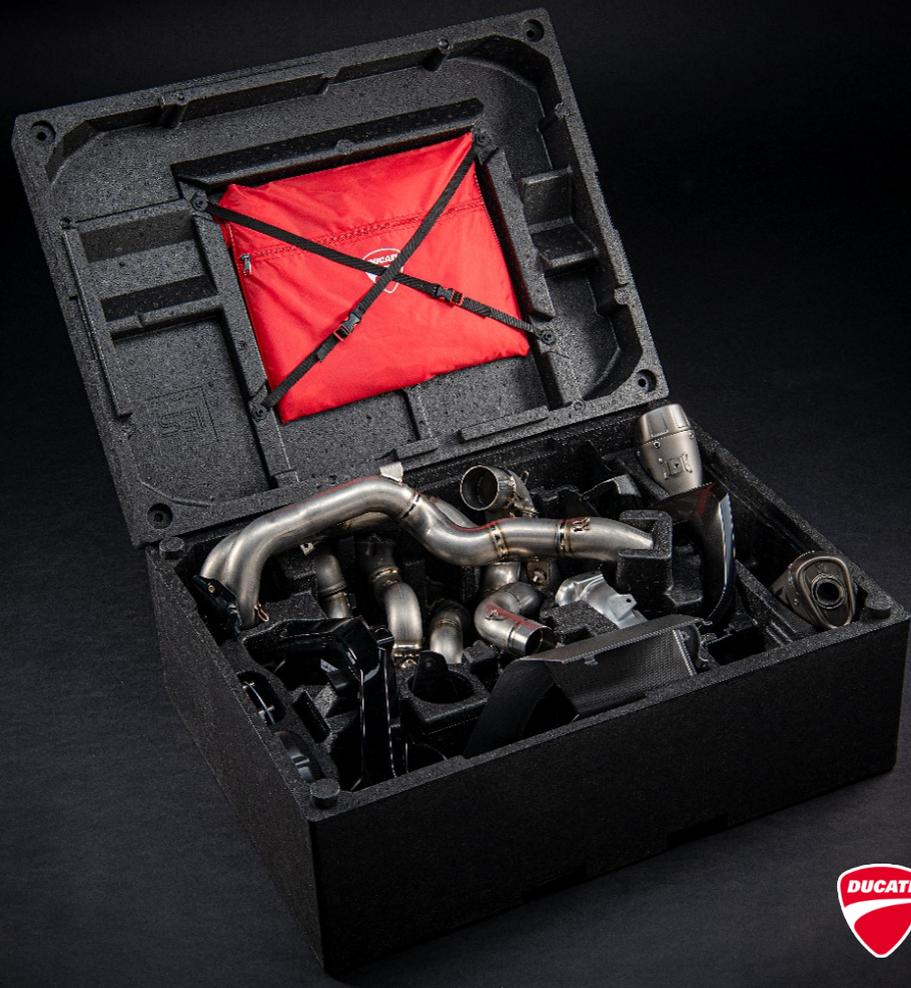
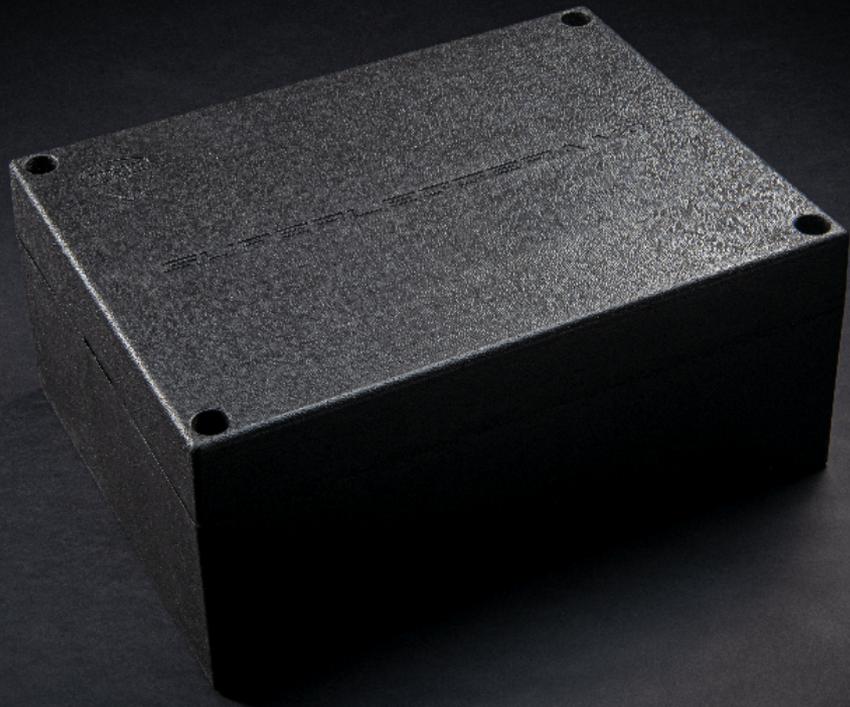
Great attention for details

Ignition key with lasered bike number on aluminum insert

SUPERLEGGERA V4
XXX/500



Great attention for details
Special racing kit box



Great attention for details
Special wooden crate



Great attention for details
Welcome gift dedicated to the owners



SUPERLEGGERA V4

Chassis

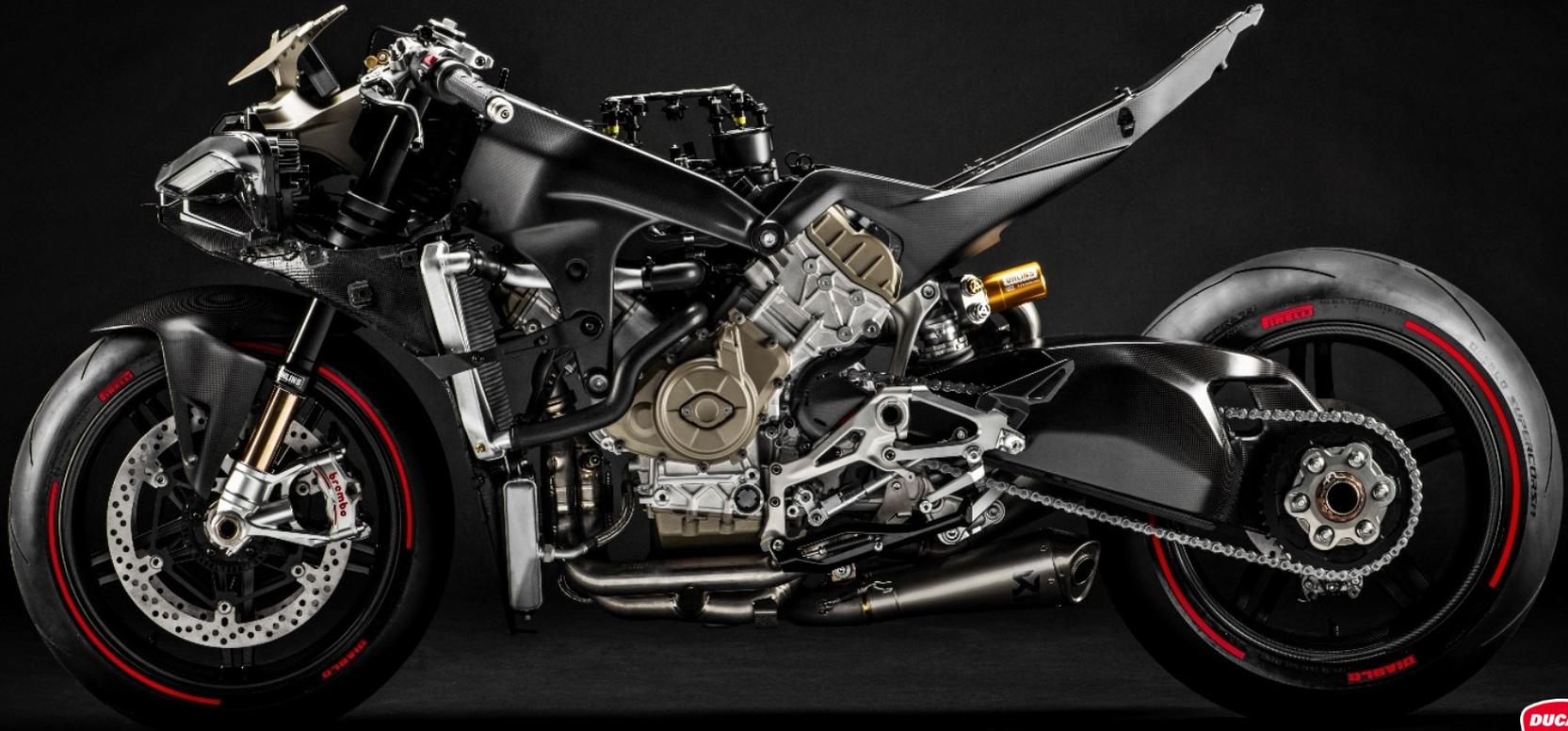
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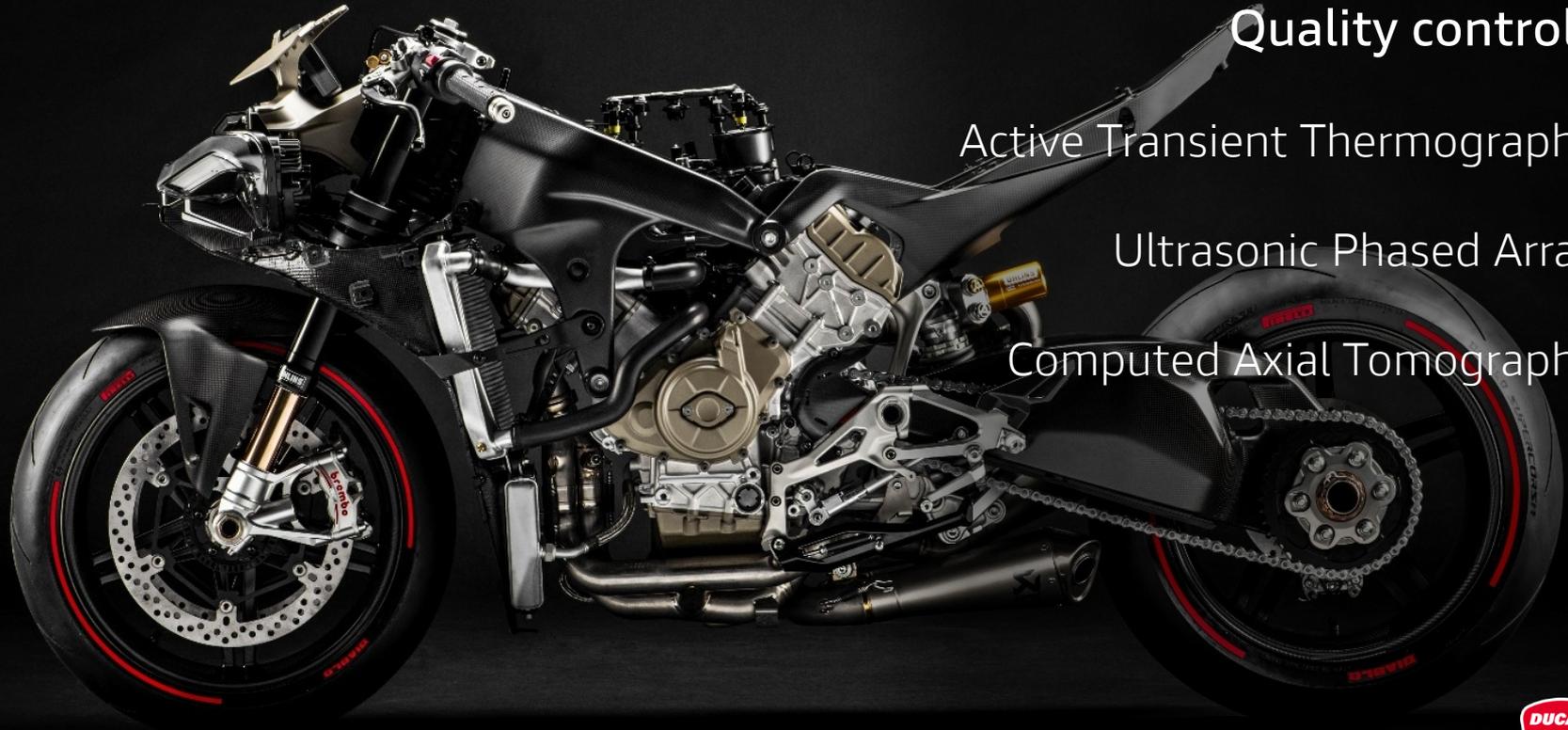
Full carbon fibre chassis

The world's only homologated bike with a carbon fibre chassis



Full carbon fibre chassis

The world's only homologated bike with a carbon fibre chassis



Quality controls

Active Transient Thermography

Ultrasonic Phased Array

Computed Axial Tomography



Full carbon fibre chassis
Carbon fibre Front Frame



- 1,2 kg (- 2.6 lb)

Vs Panigale V4



Full carbon fibre chassis
Carbon fibre wheels

- 3,4 kg (- 7.5 lb)
Vs Panigale V4



Full carbon fibre chassis
Carbon fibre swing-arm



- 0,9 kg (- 2.0 lb)

Vs Panigale V4



Full carbon fibre chassis
Carbon fibre rear sub-frame



- 1,2 kg (- 2.6 lb)

Vs Panigale V4



Chassis components
High spec brakes

Stylema R callipers

pistons with radiators and new pistons coating

Constancy of the lever stroke

during a long-run in racetrack



Chassis components
High spec brakes

MCS master cylinder
with remote adjuster

Machined levers



Chassis components
High spec Öhlins suspension

Pressurized NPX25/30

with milled bottom end



Chassis components
High spec Öhlins suspension

TTX36 shock

with titanium spring

GP valves

Reduce «gluing effect and improve bump absorption in the initial damping phase»

- 0,6 kg (- 1.3 lb)

Öhlins fork and shock Vs Panigale V4



Chassis components
High spec final transmission parts

Aluminum rear sprocket

Titanium wheel nuts

Regina ORAW2
racing chain

- 1,4 kg (- 1.3 lb)
Vs Panigale V4



Chassis components
Milled componentry



Milled
rear suspension link



Chassis components
Milled componentry

Milled footrests and levers

- 0,3 kg (- 0.7 lb)

Milled chassis components Vs Panigale V4



Chassis components

Pirelli tailored DIABLO SUPERCORSA SP COLOR EDITION

PIRELLI tailored DIABLO SUPERCORSA™ SP COLOR EDITION tyres for DUCATI SUPERLEGGERA V4 to cope the extraordinary performance of V4 engine and to exploit the winglet downforce, offering a technological breakthrough in street legal tyres:



FEATURE

BENEFIT

Redesigned Ply-line

Progressive support in corner entry to manage the winglet downforce

Broad ledge for lateral grip

Assisted lean feeling

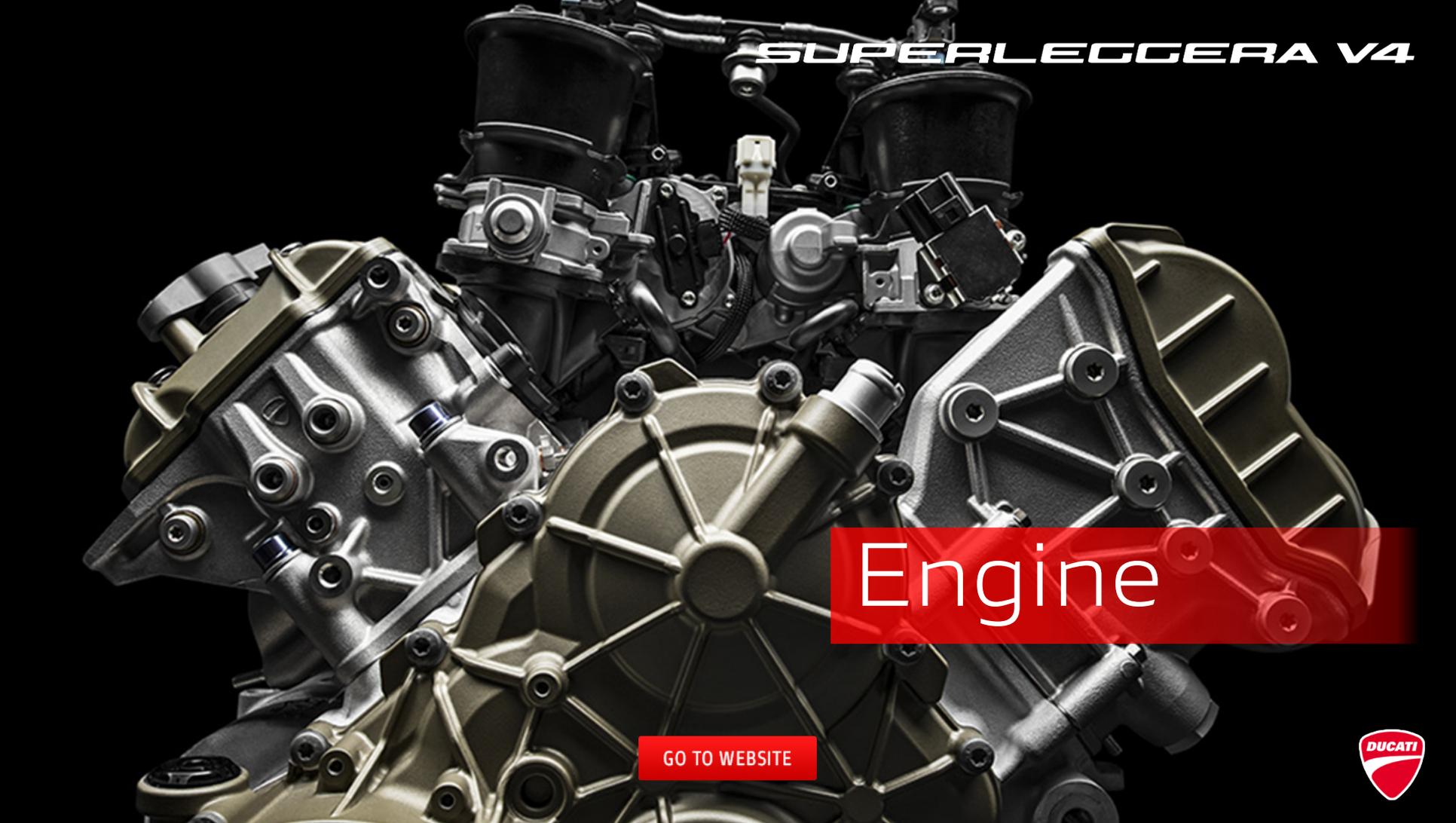
New generation profiles

Enhanced Riding easiness

Harmonious behaviour of the set

DIABLO™
SUPERCORSA SP

PIRELLI



SUPERLEGGERA V4

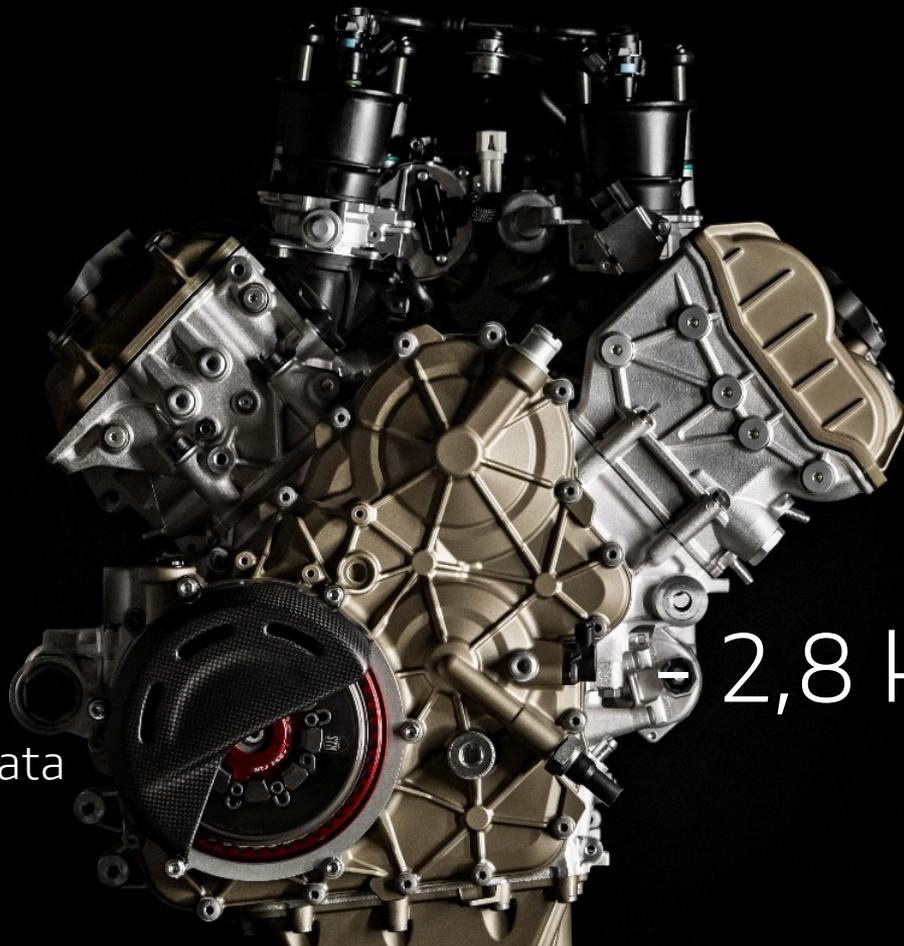
Engine

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Desmosedici Stradale R light version

The lightest and the most powerful Desmosedici Stradale



224 hp*

@15.250 rpm

116 Nm*

@11.750 rpm

- 2,8 kg (- 6.2 lb)

Vs Panigale V4

*EU homologation data



Desmosedici Stradale R light version
Road legal Akrapovič silencer

Akrapovič silencer
in titanium

Titanium manifolds



- 2,5 kg (- 5.5 lb)

Vs Panigale V4

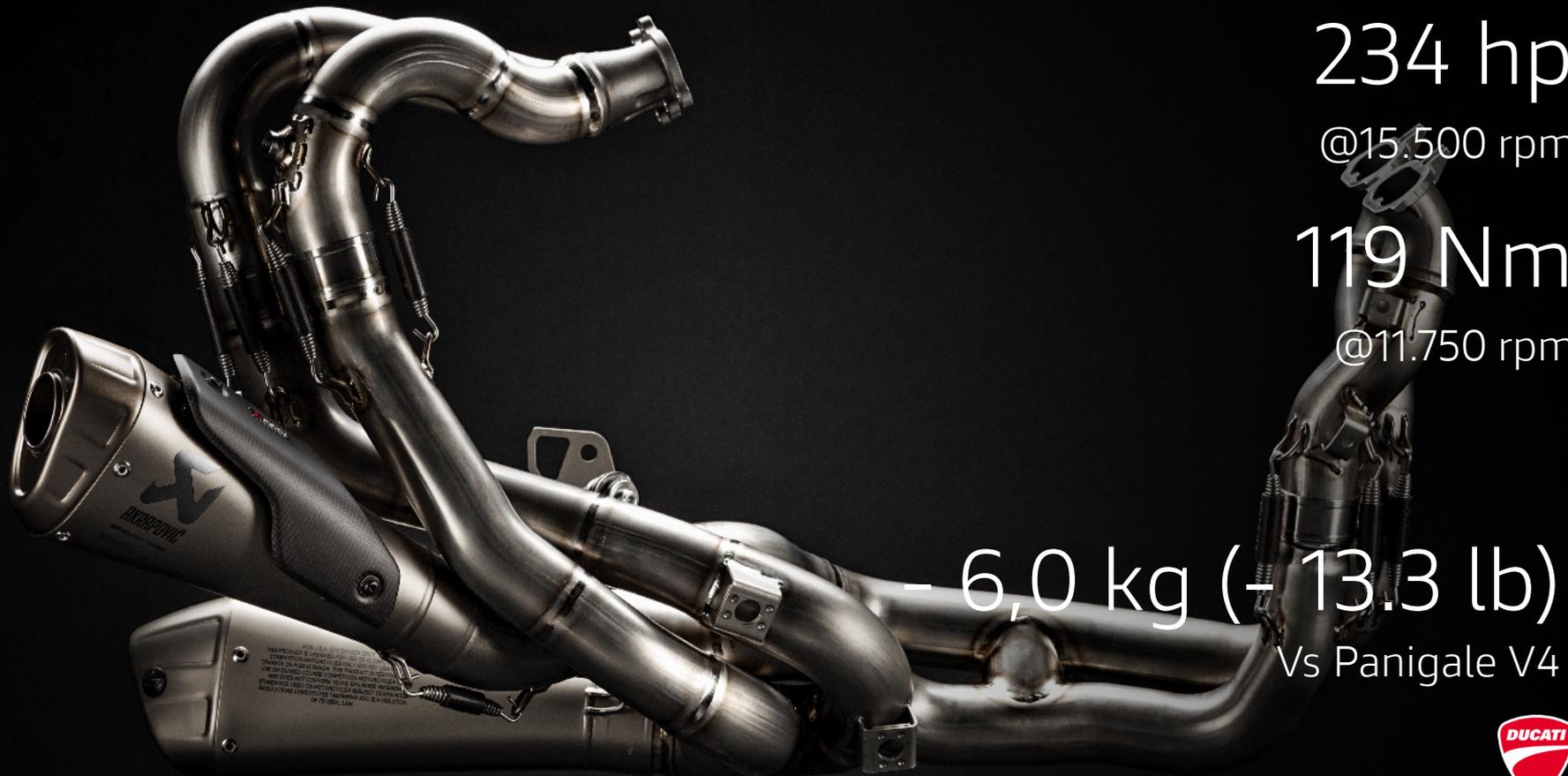


Desmosedici Stradale R light version

Lightweight components



Racing kit supplied with the bike
Akrapovič full racing exhaust



234 hp

@15.500 rpm

119 Nm

@11.750 rpm

- 6,0 kg (- 13.3 lb)

Vs Panigale V4



Desmosedici Stradale R light version

Desmodromic system manually hand-set



SUPERLEGGERA V4



Electronics

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Electronic rider aids

Latest generation riding control strategies

ABS Cornering EVO

Ducati Traction Control (DTC) EVO 2

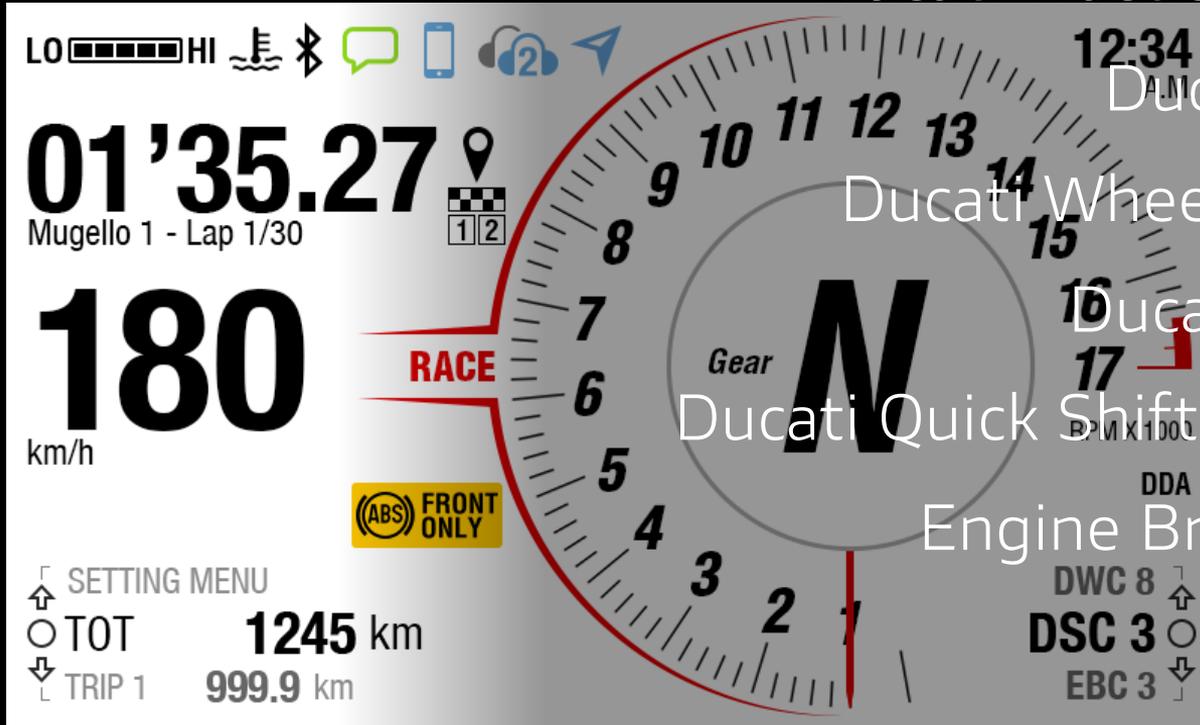
Ducati Slide Control (DSC)

Ducati Wheelie Control (DWC) EVO

Ducati Power Launch (DPL)

Ducati Quick Shift up/down (DQS) EVO 2

Engine Brake Control (EBC) EVO



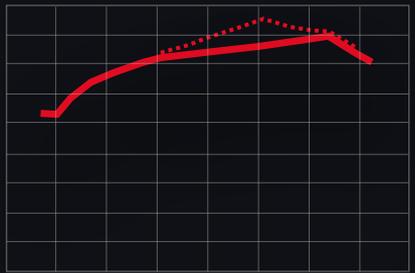
Engine mapping

Torque saturation

1st gear



2nd gear



3-4-5-6th gear

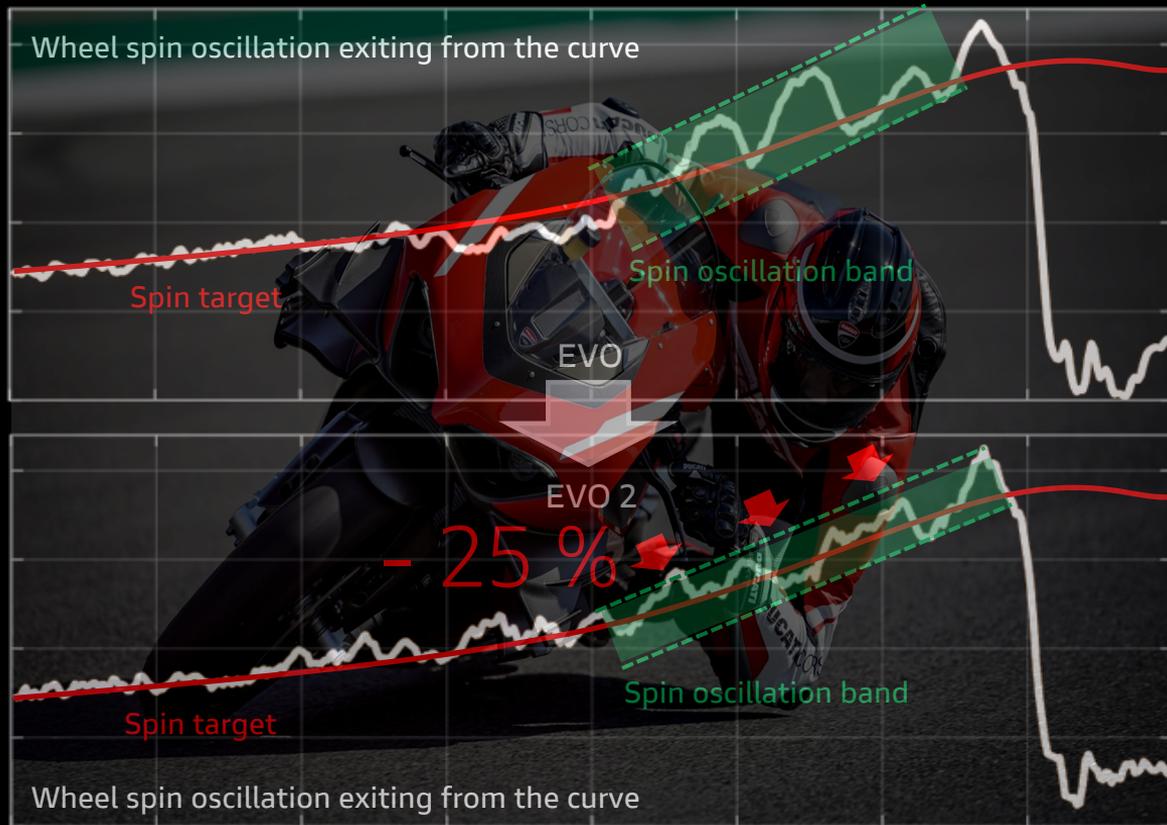


Variable torque saturation in 1st - 2nd gear
Perfect match between thrust on ground and bike wheelie limit



Riding controls

Ducati Traction Control EVO 2



DTC **EVO 2** derived from **GP18** acts in a "predictive" way

It considers the **spin intensity** variation combined with **instantaneous** spin value

DTC intervention is **faster** and **smoother**, reduces the spin oscillation improving the vehicle stability and acceleration.



New Riding Mode strategy

Reprogrammed and renamed Riding Modes

◀ Exit

RACE A

RACE B

SPORT

Engine High

DTC 2

ABS 3

DWC 6

DSC 2

EBC 3

DQS Up

DES Dynamic customize

km/h **299**

Race A

Full potential of the bike on track

Race B

Reduced torque delivery
in gears 1 and 2

Sport

Optimized performance
for the road

5 user Riding Modes

For saving rider preferred settings



RaceGP Dash Mode

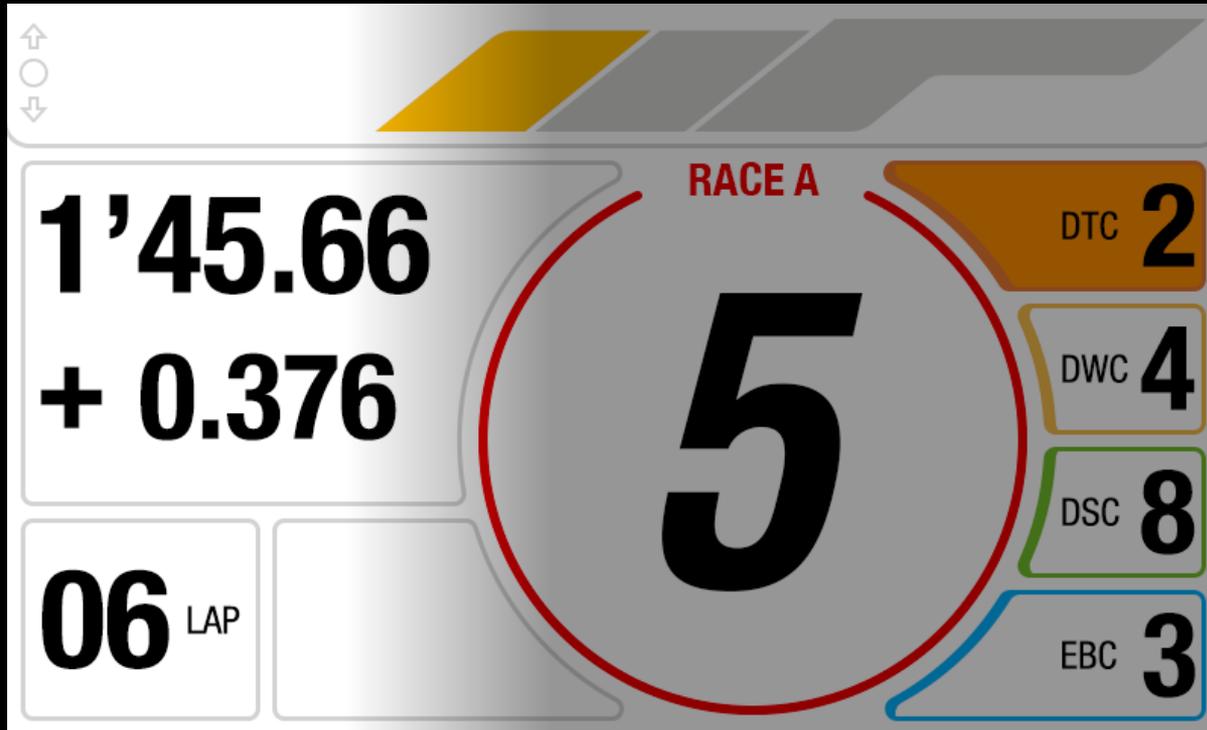
Activated by mounting racing exhaust engine map

Desmosedici GP20

dashboard derived

Immediate
track info
overview

Track only



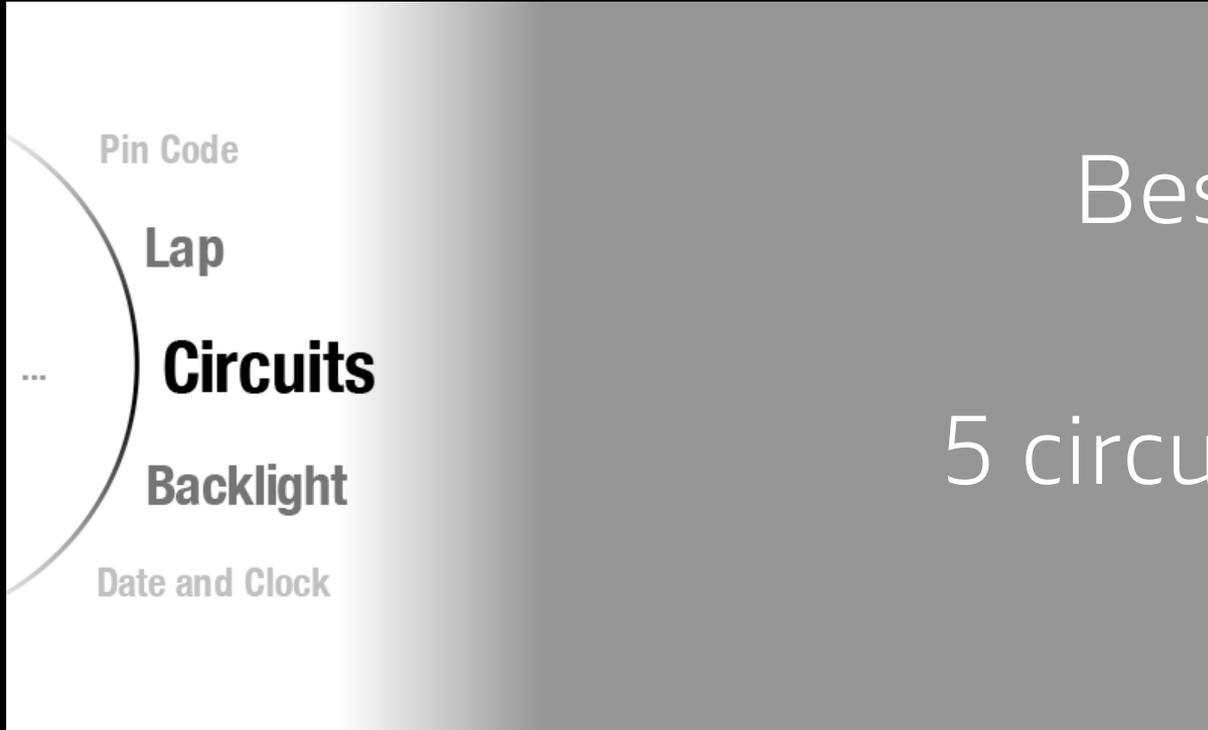
Ducati Lap Timer GPS
EVO 2 system version

60 laps and 6 sessions

recordable

Best intermediate
and best lap functionalities

5 circuits coordinates
storable



SUPERLEGGERA V4



Aerodynamics

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Aero Package

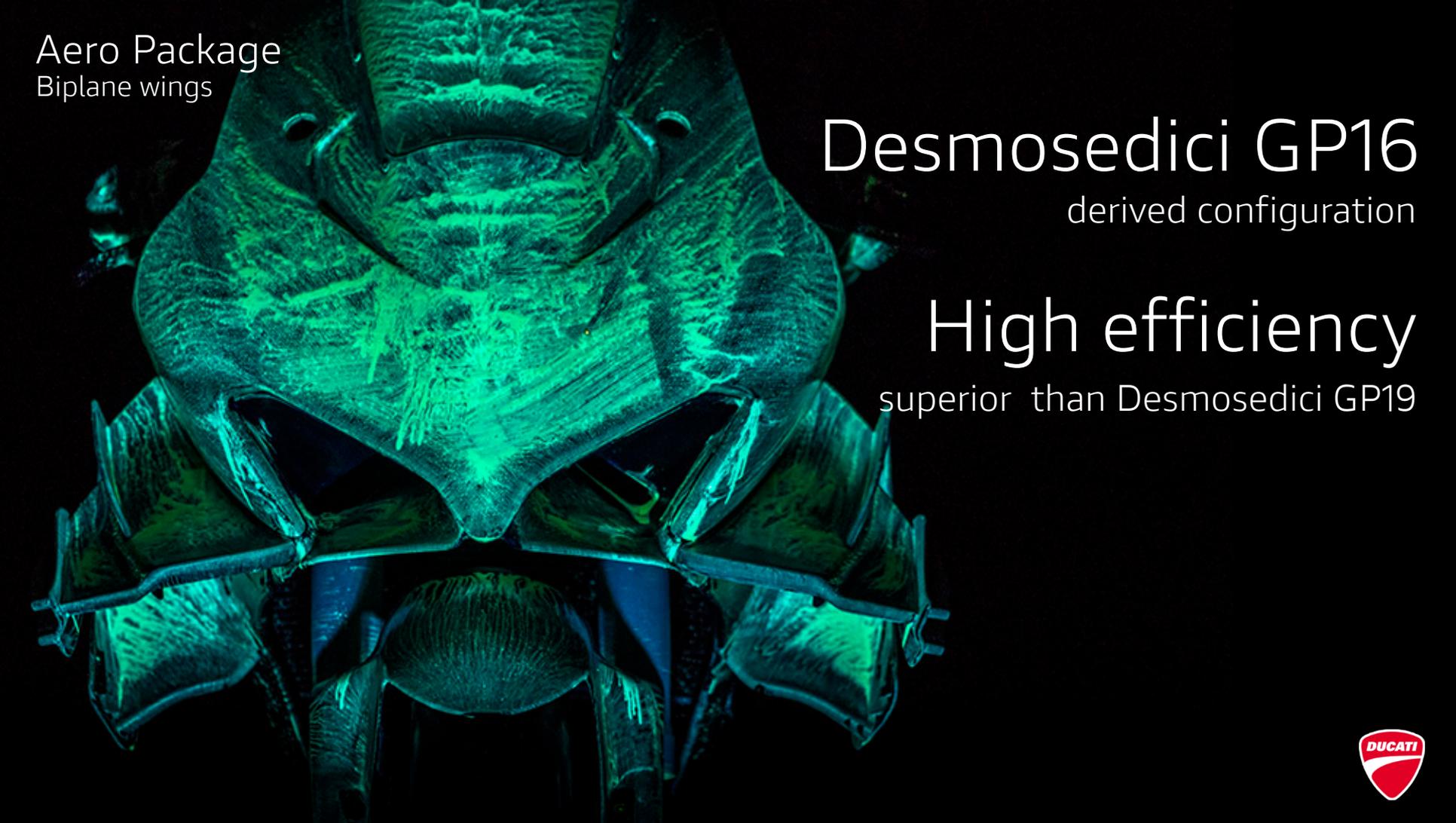
Aerodynamic fairing in carbon fibre



- 1,1 kg (- 2.4 lb)

Vs Panigale V4





Aero Package
Biplane wings

Desmosedici GP16
derived configuration

High efficiency
superior than Desmosedici GP19



Aero Package
Biplane wings in details

SUPERLEGGERA V4

Strake

Flap

Tip Winglets

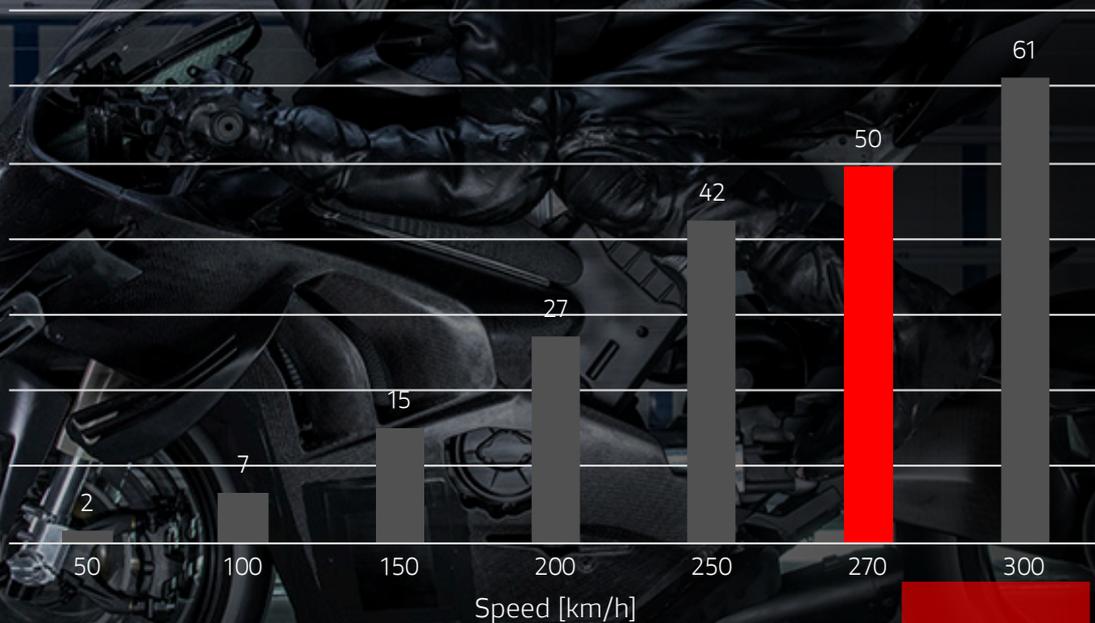
Louvers



Aerodynamics

Aero Package – vertical force by speed

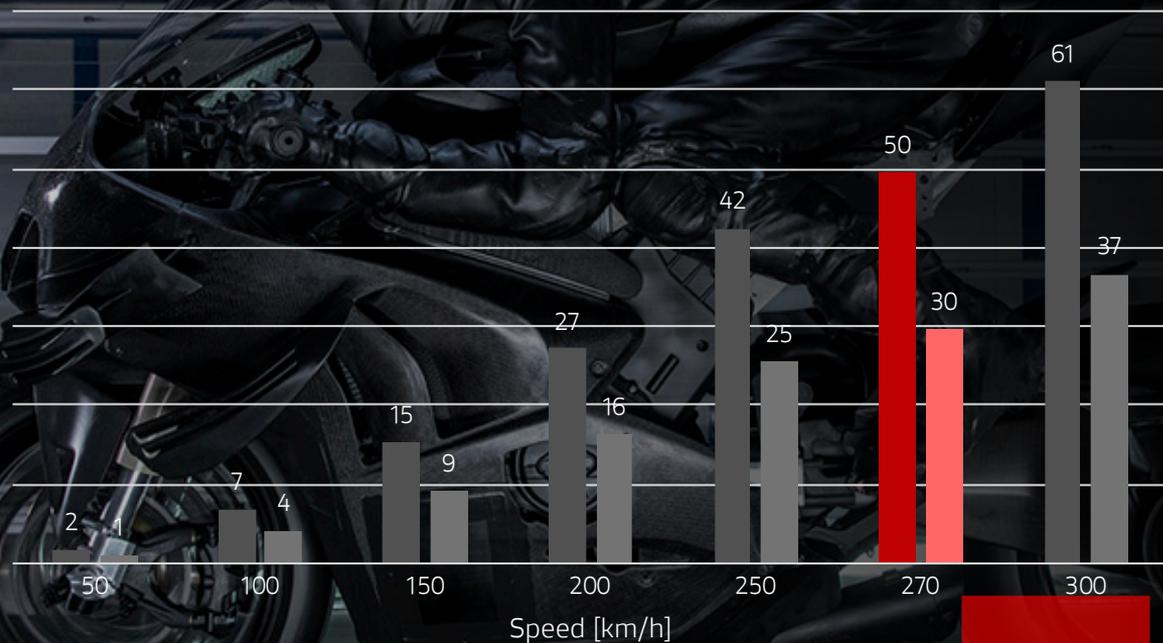
Vertical force on straight line [kg]



Aerodynamics

Aero Package – vertical force by speed

Vertical force on straight line [kg]



■ SUPERLEGGERA V4 ■ PANIGALE V4 2020



Aero Package
Rider benefits



Great stability

during braking, cornering, exit phase

Low tendency to wheelie

Low front wheel "floating"

at high speed

Lap time reduction



Aero Package

Rider benefits – gain of meters in acceleration

2019 Panigale V4

250 km/h

2020 Panigale V4

4,5 mt

251.8 km/h

2020 Panigale V4 + «SL V4» Aero Pack

6,0 mt

250.1 km/h

Superleggera V4 with racing kit

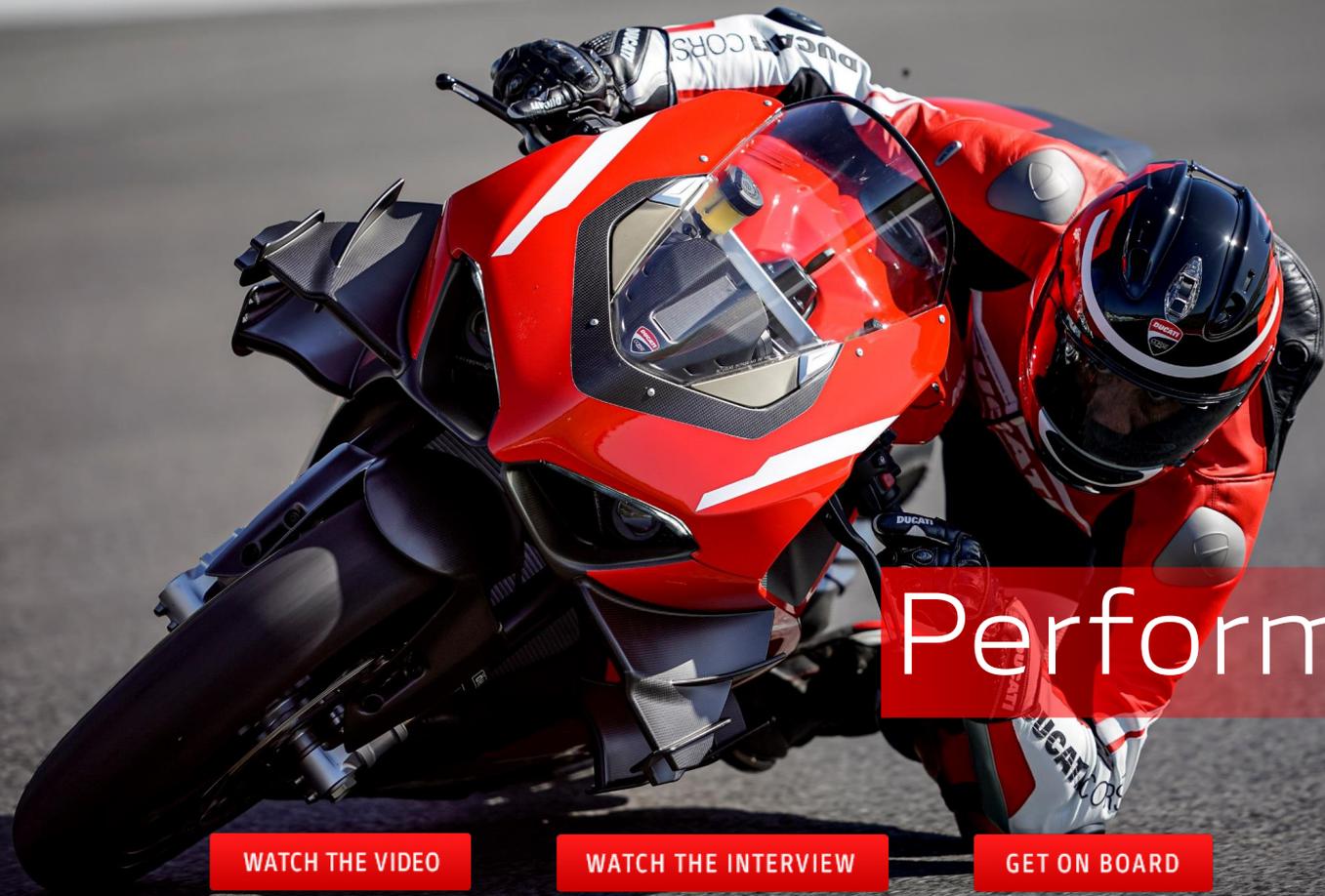
9,0 mt

255.8 km/h

straight simulation @Jerez de la Frontera circuit, 7s of acceleration from 50 Km/h



SUPERLEGGERA V4



Performance

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Power/dry weight ratio

Record-breaking figure – OEM configuration

224 hp

@15.250 rpm

159 kg (350.5 lb)

-16 kg (- 35.3 lb) vs Panigale V4

1,41 hp/kg

ratio



Racing Kit



Complete Akrapovič titanium racing exhaust

Open carbon fibre clutch cover

Carbon fibre swingarm cover

Headlight/tail light replacement kit

Plate holder removal kit

Kickstand removal kit

Billet aluminium mirror replacement plugs

Ducati Data Analyser+ GPS (DDA+ GPS)

Racing filler cap

Brake lever guard

Bike cover

Additional equipment includes also: front and rear paddock stands, battery charge maintainer



Power/dry weight ratio

Record-breaking figure – racing configuration

234 hp

@15.500 rpm

152,2 kg (335.5 lb)

1,54 hp/kg

ratio



Performance data comparison

Power/weight ratio



Weight configuration: all fluids + 5 kg of fuel + racing kit + rider



Performance data comparison

Best lap times @Mugello circuit

Panigale V4 R SBK 1'50''30

Michele Pirro best lap on race
Diablo SBK 125/70; 200/65

Superleggera V4 1'52''45

A. Valia with racing kit
Diablo SBK 125/70; 200/65

1299 Superleggera 1'54''18

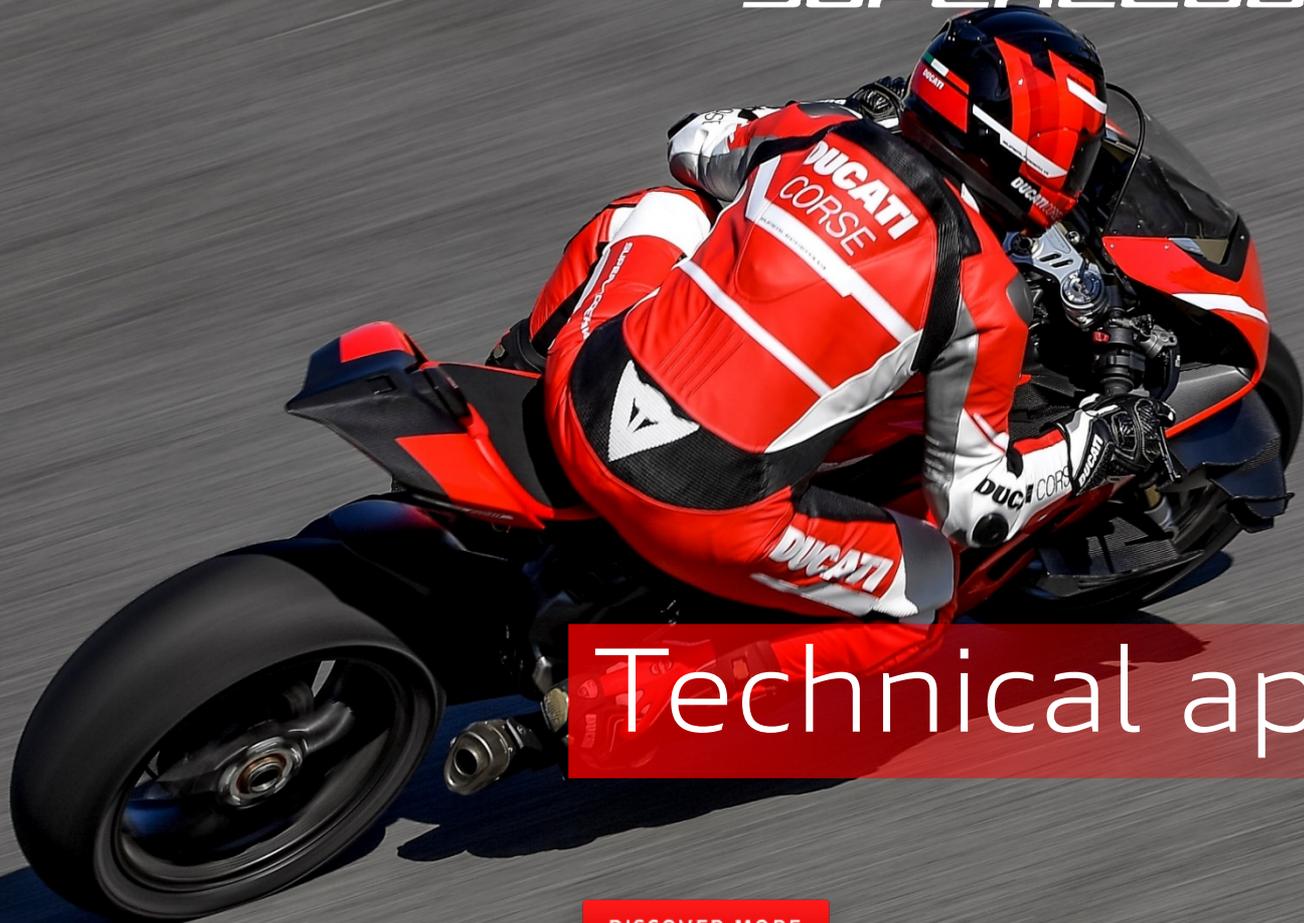
A. Valia with racing kit
Diablo SBK 120/70; 200/60

1199 Superleggera 1'54''80

A. Valia with racing kit
Diablo SBK 120/70; 200/60



SUPERLEGGERA V4



Technical apparel

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Premium leather suit by Dainese

DUCATI
CORSE

SUPERLEGGERA V4



Carbon fibre helmet by Arai



SUPERLEGGERA V4



Riding Experience

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SBK experience

Available for all Superleggera V4 customers



MotoGP experience

Available for 30 Superleggera V4 customers only



SUPERLEGGERA V4

Start of production



Crafting the Dream

Production of #001/500 Superleggera V4



[WATCH THE VIDEO](#)





EXPLORE SUPERLEGGERA V4