PURE FIGHTING SPIRIT
COMBAT 2017
EXPERIENCE & PASSION define the basis of the Vertigo brand. Vertigo grew from the idea of creating a bike to match the passion that existed within the team. The project was born with no restrictions or limits, nothing was beyond reach to ensure that the absolute goal was achieved. To get the best, you must have the best resources. Vertigo combined the best technical team, the best designers, the best riders, the most enthusiastic end users and the best professionals in each and every department. Although their skills were diverse, they shared the same experience and passion.

Vertigo sought the best in design, technology, innovation and research in pursuit of excellence. Equally important, the Vertigo dream is to deliver a different experience, building a community of customers and friends where, together, we can share and enjoy the common passion that exists. The Vertigo Club will offer the unique opportunity for customers to ride and train in an exclusive members only private practice area, reserved for you and other Vertigo riders. The Vertigo dream, passion and experience have been at the heart of our inspiration, initially, now and always.

The First Year of Competition
We can’t really ask for anything more

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
<th>Rider</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015 / 16</td>
<td>Winner of the SSDT Scottish Six Days Trial</td>
<td>Doug Lampkin</td>
</tr>
<tr>
<td>2015</td>
<td>Winner of the British Championship</td>
<td>James Dabill</td>
</tr>
<tr>
<td>2015</td>
<td>2nd position Italian Championship</td>
<td>Francesc Moret</td>
</tr>
<tr>
<td>2015</td>
<td>2nd position European Championship</td>
<td>Francesc Moret</td>
</tr>
<tr>
<td>2015</td>
<td>4th position World Indoor Championship</td>
<td>Jeroni Fajardo</td>
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</tbody>
</table>

Thanks to our official riders and all the Vertigo team that makes it possible.
All of our two-stroke models have been designed to create a global and balanced unit with an ultra-compact engine which offers an astonishing motor torque through its electronic management system.

1. **Electronic Fuel Injection EFI / New ECU Mapping**
   - For improved performance, increased torque, smoother power delivery, more inertia, easier starting and improved fuel consumption.

2. **New Air Filter Element Cage**

3. **New Radiator with Improved Water Flow / Cooling**

4. **New Exhaust Modified Design for Improved Performance**

5. **New Transparent Fuel Tank with Increased Capacity**

6. **Modified Frame and Sub-Frame to Allow Easier Exhaust Access**

7. **New Racing Light Kit**

8. **New Rear Mudguard Increased Flexibility**

9. **New Crankcase Configuration for Increased Compression**

10. **New Electric Water Pump with Increased Flow**

11. **New Aluminium Swinging Arm Pivot Points**
AT THE HEART OF THE PROGRESS

WHAT'S NEW

1. New triple clamp with 4 adjustable handlebar positions.
2. New front suspension Tech forks with aluminium sliders.
4. New colours / design / graphics.
5. New Michelin X11 tyres front and rear.
6. Aluminium side stand.

ATTACK WITH INTELLIGENCE

CAMO IS A SAFE BET. A 100% ACCESSIBLE BIKE, IT WILL PROVIDE YOU WITH ENOUGH CONFIDENCE TO FACE NEW CHALLENGES. ITS GREAT EFFICIENCY MAKES IT THE MOST YIELDING AMONGST ITS SUCCESSORS, CAPABLE OF EVERYTHING, BOTH POSSIBLE AND IMPOSSIBLE.

For technical specifications, please refer to page 17.
LET YOURSELF BE THRILLED FROM MINUTE ONE WITH THE ICE HELL. IT WILL DELIGHT YOU WITH ITS UNIQUE COMPLEMENTS. A BIKE WHICH WILL TAKE YOU TO THE LIMIT, READY TO COMPETE AND STIMULATE EVEN THE MOST REBELLIOUS SPIRIT.

**WHAT'S NEW**

1. Renthal handlebar and grips.
2. Lighter mechanised triple clamp and major advance for more stability.
3. Redesigned front frame and lesser weight.
5. Monoshock / swing arm, Vertigo special swing arm combined with multiregulation REIGER monoshock with compression and rebound adjustment.
7. New Michelin X11 tyres front and rear.
8. Lighter MORAD rear rim with new decoration.
9. 10/42 ratio.
10. Single sided adjustable eccentric.
11. Aluminium side stand.
12. Titanium front pipe exhaust.

For technical specifications, please refer to page 17.
WE DON'T HAVE THE PERFECT FORMULA. WE CAN ONLY ASSURE YOU WE KNOW WHAT WE ARE DOING, FOR WHOM WE DO IT AND ALL THE PASSION WE PUT IN IT. COMBAT TITANIUM R SHOWS OUR SPIRIT IN ITS PUREST FORM. WHAT YOU SEE IS WHAT YOU GET.
**WHAT'S NEW**

1. Renthal handlebar and grips.
2. Lighter mechanised triple clamp and major advance for more stability.
3. Titanium frame.
4. New magnesium swingarm.
5. Front Tech suspension with aluminium bar.
7. Exclusive decoration.
8. Michelin XLight tyre.
9. Lighter MORAD rear rim with new decoration.
10. New magnesium crankcase with more compression.
12. Titanium side stand.
13. Titanium front pipe exhaust.

For technical specifications, please refer to page 17.

**THE ULTIMATE WEAPON**

Top of the range, it is designed as a lethal and infallible weapon. This bike shows the same character as its sisters but it stands out for its excellence, uniqueness and technology. It is born to compete and satisfy even the most demanding riders.
THE BATTLE FOR WEIGHT CONTROL

The battle for weight control has been a constant in the trial world. And just like any jewel, it needs relentless work in order to control it and reduce it as much as possible. One of the main targets when developing Combat Titanium R – it being almost an obsession - was to lighten the bike as whole so as to achieve more control and agility in the bike itself. Using ultra-light materials, such as titanium, when building the frame has been the key to achieve our target.

The ultimate light weight titanium frame
### TECHNICAL DATA

#### Engine
- 2 stroke engine

<table>
<thead>
<tr>
<th>Model</th>
<th>Engine Size</th>
<th>Power</th>
<th>Torque</th>
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<tbody>
<tr>
<td>Camo Works</td>
<td>250 cc EFI</td>
<td>25 HP</td>
<td>4.0 Kg.m</td>
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<tr>
<td>Ice Hell</td>
<td>300 cc EFI</td>
<td>31 HP</td>
<td>4.9 Kg.m</td>
</tr>
<tr>
<td>Titanium</td>
<td>250 cc EFI</td>
<td>25 HP</td>
<td>4.0 Kg.m</td>
</tr>
<tr>
<td></td>
<td>300 cc EFI</td>
<td>31 HP</td>
<td>4.9 Kg.m</td>
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</tbody>
</table>

#### Gearbox
- 6 speed gear, 4 gear trials developed, each one ECU controlled

#### Clutch
- Oil wet multidisc

#### Radiator
- V special design, adapted to frame shape

#### Ecu engine control unit
- Vertigo design, controlling: gear position, engine temp, pressure, fuel/pump, water/pump, electric/trimming

#### Engine control sensors
- Integrated injection driver
- Integrated starter driver
- Barrel gear sensor can control each engaged gear
- Protocol con 2.0 B
- Crankshaft position sensor
- PWM pump/water control
- Engine fan control sensor

#### Battery
- Small battery ultracapacitors

#### Powerbox ECU
- Vertigo design, control all the electrical power, save all the components from short circuit

#### Manifold
- Stainless steel

#### Weight
- 69 kg
- 68 kg
- 65 kg

#### Frame
- 25CRMO4 steel + aluminum 6082
- 52CDV steel + aluminum 6082
- Titanium 6082 + aluminum 6082

#### Swing Arm
- Cast aluminum pivoting points arm, 2 pivot swivel points swing arm
- Magnesium 2 pivot swivel points swing arm

#### Front Suspension
- Tech-Av black

#### Rear Suspension
- Monoshock / swing arm, Vertigo special swing arm combined with multiregulation REIGER monoshock with rebound adjustment
- Monoshock / swing arm, Vertigo special swing arm combined with multiregulation REIGER monoshock with compression and rebound adjustment
- Monoshock / swing arm, Vertigo special swing arm combined with multiregulation REIGER monoshock with high/low speed compression and rebound adjustment

#### Front Mudguard
- Double injection, PPR / TPR combined components

#### Rear Mudguard
- Double injection, PPR / TPR combined components

#### Airbox
- High-capacity upper airbox, 13 capacity airbox on top

#### Gas tank
- HIGH-CAPACITY LOW CG, 2.7 l capacity, low and centered Gravity Center position

#### Gas cap cover
- PPR Clip Cover, PPR Cover over gas tank cap bayonet type

#### Exhaust muffler
- Symmetric and centered silencer

#### Handlebar
- Vertigo

#### Rim
- Manad

Correct information at the time of release - Vertigo Motors reserves the right to make amendments on the specifications without prior notification.
### Featured Power Parts

#### Clothes
- Vertigo short socks: ET-0006-M/L/XL
- Neckband: ET-0005
- Team collar sweatshirt: ET-0002-S/M/L/XL/XXL
- Black sweatshirt: EM-0004-S/M/L/XL
- Black hoodie: EM-0007-S/M/L/XL
- Team hoodie: EM-0008-S/M/L/XL
- Lag base: EM-0005-S/M/L/XL/XXL
- Titanium Exhaust: V-0930
- Titanium right swingarm: V-0931
- Magnesium overshoes: V-0928
- Titanium front wheel combat works set 4: V-0939
- Green brake line: V-0940
- Titanium brake pump cover: V-0943
- Titanium clutch pump cover: V-0958
- Titanium left swingarm: V-0939
- Titanium exhaust: V-0931

#### Accessories
- Helmet: ET-0003-S/M/L/XL
- Team white shirt: EM-0005-S/M/L/XL
- Team jeans: EM-0019-S/M/L/XL
- Titanium right footrest: V-0960
- Titanium exhaust: V-0931
- Titanium right footrest: V-0962
- Titanium left swingarm: V-0963
- Titanum left swingarm: V-0961
- Titanium tie rod linkage: V-0969
- Titanium right footrest: V-0971

#### Racing Parts
- Titanium left footrest support: V-0701
- Titanium right swingarm: V-0962
- Titanium left swingarm: V-0963
- Titanium left swingarm: V-0964
- Titanium left swingarm: V-0971

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<table>
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<tr>
<th>Feature</th>
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<tr>
<td>Black clutch pump cover</td>
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<td>Green brake pump cover</td>
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<td>Green cover clutch oil pump</td>
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<td>Front sprocket 21T</td>
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VERTIGO PROVIDES YOU WITH UNIQUE AND PRIVATE FACILITIES SO YOU CAN PRACTICE TRIAL WITHOUT ANY WORRIES; EXCLUSIVE AREA, INSTRUCTORS, HOTEL, RESTAURANT, ETC.

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HOTEL PUIG FRANCÓ
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RESTAURANT MITIC
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EXPERIENCE & PASSION

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All bikes displayed in this catalogue are competition versions.