

OSET[®]
20.0



TAKING FUN SERIOUSLY



Oliver Smith has racked up many wins on the OSET 20.0, including British Championship Nationals in two age categories!

Introducing the OSET 20.0

The OSET 20.0 is revolutionary.

This machine is perfect for 7-12 year olds, but enormous fun for adults as well.

In trials competitions, this machine can go head to head with gasoline bikes and win. It has proven this with wins at British Championship events in both the 6-9 and 10-12 year old categories. This is the beginning of a revolution - the first electric machine that is simply a better choice!

Of course, in the back yard, this bike can be used every day without bothering a soul. It's virtually silent!

The OSET 20.0 bristles with innovation.

We designed & developed this bike over the course of 3 years, and refused to compromise our goals. Many innovative parts were developed by OSET to suit this machine.

We are pleased to say that we have more than met our targets. This bike is not just a trials bike - it is so much more.

Riders will develop phenomenal skills relevant to ANY form of motorcycling. More than any of that, they'll have huge fun riding it!



OSET

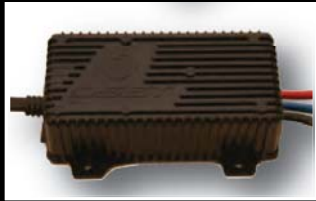


Better by design...



MOTOR:

The OSET 20 motor is an all new OSET design using the very best internal components and paying special attention to performance and reliability. Over 50 individual components go into the motor, with most specially designed to best suit our goals. A lot of attention was paid to important details, like waterproofing, brush size, wire and bearing quality. Items all the way down to brush springs were specifically designed to meet OSET's standards. Every part was carefully considered.



CONTROLLER:

The OSET 20.0 controller is a work of art if you appreciate circuitry and electronic engineering! This is NOT a standard 'off the shelf' controller. It features a very stable high output MOSFET structure with ground up component and circuit board design. This controller will reliably output a huge 100 amps (OSET 12.5 & 16.0's have a 40 amp output). High output means high performance. This controller was designed in conjunction with the OSET motor, so they work perfectly in unison. The true beauty of this controller is the ability to change the performance with the push of a button and twist of a dial (located under the rubber 'bung' in the tank) in seconds. The settings will allow the bike to be set almost instantly for different riders and conditions. Novice riders can set for a slower speed and easier response. For muddy conditions, the controls allow the bike to be set to respond very smoothly. Months of testing have resulted in controls that allow the bike to respond for an expert or a novice, or anyone in between!



SUSPENSION:

FRONT: The OSET 20.0 front fork is a high end 100mm travel 'AIR' fork allowing an amazing level of adjustment. Firstly, the air 'spring' is infinitely adjustable with changes of pressure. In addition, a multi-position rebound dial allows a great range of rebound rate changes. This fork features an aluminium steerer and crown and magnesium lowers. The big 36mm stanchions provide great stiffness and rigidity as does the 20mm through axle.



REAR: The rear suspension is also adjustable for rebound with a simple dial, as well as pre-load. Each OSET comes standard with a 650lb spring, with an optional 1000lb spring in the box for heavier riders. There are two lower shock positions available allowing additional alterations for travel and feel.



And there's more...



BRAKES:

A great bike needs great brakes. The OSET 20.0 features strong hydraulic brakes with reach adjustable levers. Hydraulic brakes offer much more power than mechanical brakes, while at the same time requiring less force on the lever. The front disc is protected by our OSET designed disc guard, as required by regulations for some competitions.



HUBS:

The hubs used on our smaller OSET's are not adequate for the OSET 20.0. We custom made our OSET rear hub with high quality sealed bearings and a 'bolt' system on both sides for the disc and the rear sprocket. A standard hub would eventually cause problems. Our new OSET hub is unique and exclusive. The front hub uses a 20mm through axle for maximum strength and the most stable ride.



FOOT PEGS:

The OSET 20.0 foot pegs are designed with our youth riders in mind. These light weight alloy pegs feature rounded teeth and a solid platform. The mount system is unique in allowing 2 positions, so they can be ergonomically optimized for different size riders.



SWINGARM:

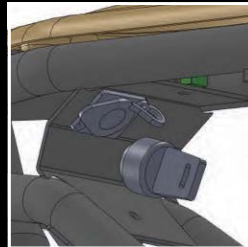
We wanted super smooth rear suspension movement, so the swingarm rides on 2 bearings on each side.



Custom OSET alloy sprocket mated to '219' chain. Different gearing options available.



Injection molded plastic for perfect fit & finish. Electrical components protected from the elements.



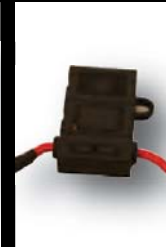
The key switch and charge port are in a protected area. The key can be removed to disable the bike.



A second switch is on the handlebar. This is used in normal operation. The other can be left 'on'.



The OSET 20.0 is a high power bike. All components are superior quality, and able to cope with the power. The relay and fuse are both rated to 100 amps.



A high quality 48v charger is supplied with every OSET 20.0 bike.



OSET

Changing the game...

The OSET 20.0 clearly has a high pedigree. It is capable of teaching raw beginners to ride in a safe and controlled manner - in the back yard - with no noise, fumes, hot exhausts or fossil fuels. All OSET bikes satisfy the key areas that matter. They allow riders to learn all the necessary skills needed to ride a motorcycle - and make it a clean, non-intimidating and FUN experience. With the OSET 20.0, the adjustability means the bike can be set for a 7 year old beginner one minute, and a 12 year old expert the next. This is a HUGE benefit, and exclusive to OSET.

Owning and running an OSET is easy. There's no fuel to spill out, no carburetors to adjust. Everything is simple.

The whole riding experience is easier all around - for the children and for the adults. Who would have thought your child could ride a real motorcycle in the back yard while the adults sit with a cup of coffee and have a conversation!

The benefits are enormous. It's a win win situation. The riders learn great skills, and it's easy on the parents!

The OSET 20.0 is highly adjustable.

- Suspension is adjustable for rebound and dampening.*
- The foot pegs can be positioned back or forward by 25mm.*
- The handlebars can be lowered or raised by simply adjusting the spacers above or below the stem.*
- Alternative rear shock springs are available to suit the weight of the rider.*
- Additional gearing options are available.*







The Future...

OSET will continue to work and develop into the future. The 20.0 has provision for several great upgrades. Once thoroughly tested, these will be made available to our customers.

-OSET will offer safe, powerful and incredibly light lithium power packs in the future. We expect these to save about 15lb's of weight, while giving more power and longer run times!

-An alternative rear wheel will be offered, allowing the use of a motorcycle trials rear tire. This will be a competition upgrade.

-The OSET motor has been designed with air ports for a forced air cooling kit. A cooler motor will run at higher sustained performance.

* Availability subject to final testing and manufacturing.

Owning an OSET...

Owning an OSET is more than just owning a bike.

OSET Cup events.

In many Countries, OSET Cup events cater specifically to OSET owners. Courses are set for all OSET bikes. The 20.0 will add a whole new dimension to these events and extend the age range upwards.



OSET Dynamos.

This is an owners club, and is FREE to join. OSET Dynamos receive invites, offers and other added benefits.



**PLEASE VISIT OUR WEBSITE FOR MORE INFORMATION.





20.0

Age Range - 7-12.

Rider ability - Novice to expert.

Wheelbase - 41.5" (1040mm).

Seat Height - 21.5" (570mm).

Ground Clearance - 10.5" (270mm).

Handlebar Height - 37" (920mm).

Weight with SLA batteries - 79lbs (33.8kg).

Weight no batteries - 49lbs (22.2kgs).

Motor - 1200w 48v OSET.

Controller - 100 Amp OSET, multi-adjustable.

Batteries (standard) - 48v 10ah AGM SLA.

Brakes - Hydraulic 160mm. Reach adjustable.

Suspension - Front telescopic 100mm travel. Adjustable rebound and damping. Rear spring, 100mm travel. Adjustable rebound and damping.

Tires - Maxxis 20" x 2.5" front & rear.

Specifications subject to change



OSET are in more than 25 Countries. Please visit one of the web sites above to find contact information.



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