

SWIGZ.COM Pro Racing Electric Superbike  
Specifications

**Owner:** SWIGZ.COM Pro Racing, USA

**Rider:** Chip Yates (USA). Licensed - AMA Pro, FIM World Supersport

**Website:** [www.chippyates.com](http://www.chippyates.com)

**Chassis / Suspension / Body**

Frame	Suzuki GSX-R750
Front Wheel	Marvic Piuma 16.5" x 3.5" Magnesium
Front Tire	Dunlop 125/80R420, KR106 16.5" Race Slick
Front Calipers	Brembo Superbike Billet Monobloc 34/34
Brake Pads / Lever	Brembo 4-Pad, Adjustable Brake Lever
Front Rotors	Brembo 320mm Superbike Rotors
Rear Wheel	Marvic Piuma 16.5" x 5.75" Magnesium
Rear Tire	Dunlop 200/70R420, KR108, 16.5" Race Slick
Radiators	Honda CRF450 OEM Aluminum Radiators
Front Suspension	Ohlins USA Custom Built 58mm Forks
Rear Suspension	Ohlins USA Custom TTX36 Shock
Steering Damper	Ohlins Gas-Charged
Fairing Stay	CPR Fabrication Custom TIG Welded
Rear Subframe	CPR Fabrication Custom TIG Welded
Upper Fairing	Yoyodyne Carbon Fiber Hayabusa Upper
Fastners	Pro-Bolt USA Titanium
Gas Tank Cover	Yoyodyne Carbon Fiber GSX-R1000

**Motor / Drive**

Type	Permanent Magnet, DC Electric Motor
Max RPM	8,000 Shaft RPM
Max Power	194 HP (145 kW)
Max Torque	295 Ft/Lbs (400 Nm)
Efficiency	94%
Mounting	Swift Engineering CNC Machined Aluminum
Transmission	Custom Ground Jackshaft, Single Speed
Final Drive	520 Racing Chain and Sprockets

**Power Source**

Battery Type	Cylindrical LiFePO4 Lithium-Ion
Number of Cells	360 Cells
Nominal Voltage	384 Volts DC
Total Stored Energy	11.5 KWh Plus KERS
KERS Recovery	Confidential / Patent-Pending
Battery Management	High Tech Systems LLC - Custom

**Electronics**

ECU	MoTeC Advanced Central Logger (ACL)
Data Logger	MoTeC Advanced Central Logger (ACL)
Dashboard	MoTeC Sport Dash Logger (SDL)
Shift Light	MoTeC Shift Light Module (SLM)
Map Switch	MoTeC 12-Position Rotary Programmable Switch
Wiring harness	MoTeC Systems USA West Custom Design
Motor Controller	500 AMP, Liquid Cooled, CAN Bus Controlled
Lean Angle	MicroStrain Inertia-Link (Pitch, Roll, Yaw)
Drive By Wire	Yamaha OEM Redundant Throttle Position Sensors
KERS	Yamaha OEM Redundant Throttle Position Sensors
Coolant Pump	Bosch Automotive OEM 12 Volt Pump
Suspension Sensors	Penny & Giles