



## Elektrisk Superbike och Café Racer med navstyrning.

En modern motorcykel med extrem prestanda och många innovativa lösningar.

- ISR navstyrning med framsving fräst i solid aluminium.
- Öhlins enkeldämpare fram och bak.
- YASA 400 elektrisk motor med 328Nm vridmoment, vikt 24kg.

Navstyrning tillsammans med chassi, fjädrings- och bromskomponenter ger bättre väggkänsla jämfört med en traditionell framgaffel.

Den elektriska motorn har låg vikt, högt vridmoment och ingen inre friktion. Motorn är koncentriskt placerad i chassit för en styvare och mer följsam körupplevelse. Motorn tillsammans med kontrollenheten och kylaren är ett slutet system som beräknas vara underhållsfritt i ca 15 år.

# ALIQUIS

## Model: Aliquis A1E, Electric Superbike and Café Racer (Electric Motorcycle)

### A1E Motor

Motor Type: YASA-400, Advanced Axial Flux Motor, 24 kg  
 Motor Controller: Sevcon Gen 4 Size 8  
 Peak Motor Power: 93Kw @ 4500 rpm (126 bhp)  
 Peak Continuous Current: 100 Amps  
 Max Motor Torque: 328Nm (242 ft lb)  
 Final Drive: Direct Chain Drive, 530 X-ring chain, 2.7 to 3.5 (14T-18T front /35T rear) depending on customer needs  
 Emission: Zero

### Battery Pack (High Voltage)

Battery Type: 110 pcs A123 Li-Ion batteries, 19.5 Ah  
 Battery Pack Capacity: 7.1 kWh (nominal), 7.7 kWh (max)  
 Battery Pack Voltage 363V (nominal)  
 Battery Life: 1,500 cycles  
 Recharge Time: Approx. 5hrs

### Battery Pack (Low Voltage)

Battery Type: 8 pcs, 4S2P, A123 Li-Ion batteries, 5 Ah  
 Battery Pack Capacity: 0.06 kWh (nominal)  
 Battery Pack Voltage 13.2V (nominal)  
 Battery Life: 1,500 cycles  
 Recharge Time: Approx. 30 min

### A1E Performance

A1E Performance: 250 km/h (or up to 300 km/h depending on final drive ratio).  
 Driving Range: Combined 95Km (estimated, 50% city and 50% highway)  
 Regenerative Braking: Under deceleration, energy is returned back in to the battery to extend driving range.  
 Battery Life: 1,500 cycles  
 Data Collection: CAN interface, Sevcon ClearView and Gen 4 Size 8

### A1E Dimensions

Weight: Approx 200kg  
 Wheelbase: 1460 mm  
 Color: Blue

### A1E Key Components

Frame: Steel spaceframe, chrome moly TIG welded, fabricated by ISR in Sweden  
 Bodywork: Fiberglass and carbon fiber  
 Front Swingarm: Aluminum, Fabricated by ISR in Sweden  
 Hub Centre Steering: Aluminum and Titanium, ISR NS2, Fabricated by ISR in Sweden  
 Rear Swingarm: Aluminum, Fabricated by ISR in Sweden  
 Suspension -Front: Öhlins, adjustable single shock  
 Suspension -Rear: Öhlins, adjustable single shock  
 Brakes -Front: ISR dual disk with two ISR six piston hydraulic brake calipers  
 Brakes -Rear: ISR single disk with one ISR four piston hydraulic brake calipers  
 Wheels (Front/Rear): 17"x3.5" BMW / 17"x5.5" BMW  
 Tires (Front): 120/70-17 Pirelli Diablo Rosso Corsa ZR17 TL 58(W) M/C  
 Tires (Rear): 180/55-17 Pirelli Diablo Rosso Corsa ZR17 TL 73(W) M/C  
 Headlights: E-marked lights, Hi and Lo beam and parking light  
 Lights: E-marked Led tail, brake and indicator lights  
 Instrumentation: Sevcon ClearView LCD display; speed, tach, odometer, drive position, energy consumption, battery status, estimated range and system status