

Silver Lightning by

True
Cousins.dk
Anything (electric) on wheels



Data

- **Motors:** 2 pcs modified 8.5" motors
- **Battery pack:** 350V made of 672 pcs (LiPo) cells
- **NEDRA class:** 350 V DMC/A2
- **Weight:** 386 kg (w. wheelie bar)
- **Rider:** Hans-Henrik Thomsen, Race #182

Performance (2020)

- **1/8-mile:** 4,61 sec @ 262 km/h
- **1/4-mile:** 7,08 sec @ 304 km/h
- **0-100 km/h:** 1,01 sec (60ft: 1,15 sec)
- **Output:** ca. 1.100 HP / 2000 Nm (2.000 Amp)
- **Class world records:** 250 & 350 V (1/4 mile) (www.NEDRA.com)



Additional information

Drivetrain

- 2 pcs heavily modified 8.5" motors, originally for hydraulic pump (48 V)
- 2 pcs motor controllers capable of delivering 2.000 Amps each.
- Batteries can deliver 1,2 MegaWatt for 5 seconds (1.200 kW).
Simple equation (350 V sags to 300 V during load):
 $300\text{ V} \times 2.000\text{ A} \times 2 = 1.200.000\text{ W}$
- Est. battery pack life: 150 x 1/4 mile runs -> Each full run costs 80 GP£
- Chain drive with a 2:1 reduction. NO gears – same "feel" as a Tesla

Frame/Chassis

- Designed and built by True Cousins.
- Frame made from Docol R8 tubing (= CrMoly). Body panels in aluminium.
- Single Wheel (first ever?) Wheelie-bar in aluminium tubing, weight 6 Kg.
- Built in the same size as Super Twin and Top Fuel bikes.
- Front fork, rim and brakes from 1999 Yamaha R1.
- 31-14-15 Mickey Thompson rear tire. Billet aluminium rim.

Please turn ->

Background

The bike has been built with one purpose: To be the quickest electric 1/4 mile vehicle on the planet. The record (6,94 sec.) was set by Larry "Spiderman" McBride in May, 2012, on a bike, The Rocket, built by Orange County Choppers (Senior) during two episodes. Lawless Industries was the main sponsor. The bike is no longer active but is on display in "The Feed & Sing" bar in Ohio...the 13" motor is now powering legend Don Garlits electric Swamp Rat 38 rail dragster, one of our competitors, he has done 7,23 sec.

Fun facts

- The bike only uses 1€ worth of electricity on a 1/4 mile run.
The datalogger is homemade and logging 8 channels 100 times per second.
- The total battery capacity in Silver lighting is only 1/8 of a Tesla Model S.
- The first electric dragbike we made in 2008 (The Silver Dwarf), was built with moped parts and a starter motor from a 1967 Mercedes lorry.
- During a record attempt we "borrowed" the THEN 12 year old and NOW 2 x European champion Marcus Christiansen to ride this small, but not-so-powerful bike. But no record was made until the Silver Giant...
- This is the fourth dragbike from True Cousins, all named "Silver smt" because of the aluminium body / plates.
- Here you see the development over the years on 1/8-mile:
2008: Silver Dwarf...17 sec -> 12,6 sec @ 1/8-mile.....0 records
2010: Silver Giant...8,87 -> 7,80 sec @ 1/8-mile.....2 records
2012: Silver Bullitt...6,75 -> 4,82 sec @ 1/8-mile.....4 records
2020: Silver Lightning...4,86 -> 4,61 sec @ 1/8-mile.....2 records
- Between them, these 4 bikes share 8 voltage class world records

More about True Cousins electric drag racing on truecousins.dk

- we also have an electric door-slammer, TC-X

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