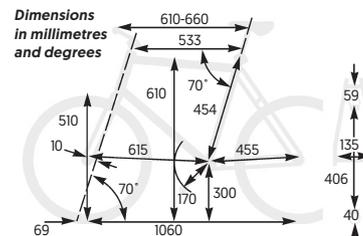




**Biketest**



**Tech Spec**  
**ARCC MOULTON TSR**

- **Price:** £3,774.80 (as tested, 216Wh battery). From £3,294.
- **Weight:** 18.2kg
- **Sizes:** Unisex one-size frame.
- **Frame and fork:** Spaceframe with Columbus Spirit and Reynolds 525 CrMo steels, fillet brazed. Moulton leading link suspension fork with adjustable damping and compression.
- **Wheels:** Double wall alloy semi-aero Black/CNC with Schwalbe Marathon Racer 40-406 tyres.
- **Transmission:** 54-tooth chainset, Shimano Alfine 8 speed hub with 18t sprocket, Alfine shifter. 8 ratios, 30-91in
- **Braking:** Tektro M710 V-brakes
- **Steering & seating:** Choice of Kalloy flat bar or drop bar. Selle Royal Viper seat.
- **Battery:** 36V, 216Wh Bosch power-tool battery as tested. Other options include 144Wh and a 324Wh (latter from third-party sellers only). ARCC make an alloy frame holder for a spare battery.
- **Equipment:** Front e<sup>2</sup>-pod unit acts as wireless Bluetooth hub and has electronic locking. SKS mudguards (optional extra).

# ARCC Moulton TSR

Full suspension, a separable frame, and a cleverly designed e-bike power system. **Richard Peace** tested it

**U**nlike many retrofit e-bike kits, ARCC's e<sup>2</sup>-pod assist system is also available ready-fitted to brand new bikes. The Cambridge-based company sells a couple of e<sup>2</sup>-pod belt-drive town bikes, the Abington and Rosemont, an e<sup>2</sup>-pod Brompton, and a number of e<sup>2</sup>-pod Moultons, such as this TSR model.



**Above:** Bafang front hub motor is fairly powerful but, with the head tube battery, makes the bike front heavy

tourer or commuter, and will even venture onto smoother off-road trails. It splits into two halves in a couple of minutes, so it's easy to pack down for storage or transport.

The Bafang front hub motor gives fairly powerful, torque-sensor smooth assist up hills, and it compares well to other motors of the same size. (Don't expect top-end mid-motor power.) A wireless Bluetooth handlebar-mounted control unit lets you switch between levels, though I found it a little fiddly. The Bluetooth unit doubles as an electronic key, disabling the system.

The Bosch power tool batteries mount on the e<sup>2</sup>-pod control unit on the head

tube, which precludes using a Moulton front rack. These Bosch batteries are widely available and you can buy as few or as many as you need. I found the system so efficient I would probably get a full day's riding out of two 216Wh batteries (or three at most). Larger or smaller capacities are available.

ARCC can also retrofit their system to any current Moulton that doesn't feature a double pylon fork. There's a five-year warranty on the electrical system, while Bosch batteries are warrantied for two years. ●

The Moulton's unique 'space frame' is designed for lightness and strength. I particularly liked its suspension: the rear elastomer and leading link fork iron out the worst that UK roads can offer and enable you to corner confidently at speed. The bike would make a great

**Other options**

**TERN VEKTRON S10 ▶**  
**£3,700**

Folding commuter with 20in wheels, 65Nm Bosch Performance mid motor, and a 1x10 Shimano Deore drivetrain. [ternbicycles.com/uk](http://ternbicycles.com/uk)



**ORBEA VIBE M10 ▶**  
**EQ £3,099**

Lightweight hybrid with an eBikemotion X35 Plus hub motor. EQ version comes with lights, rack, guards, and kickstand. [orbea.com/gb-en](http://orbea.com/gb-en)



**Verdict**

*This off-the-peg electric-assist Moulton TSR feels rather front heavy and awkward to manhandle when you're on foot, but when you're riding it's fast, comfortable, and super manoeuvrable.*