

Technical data sheet TRAKTRAK

Key Facts:

- Portal construction:** Thanks to a ground clearance of 59 cm (even 69 cm on the next prototype), it is possible to drive on the permanent beds with a width of 75-80 cm when the crop is planted. The wheelbase of 120 cm makes it possible to drive on the paths instead of on the bed itself. This ensures soil-friendly cultivation.
- Electrics:** The battery-powered drive allows low-noise operation, while a finely tuned electronic control system enables ergonomic working without the use of force.
- Modular:** Various mounting points allow the use of numerous modules:
 - Arable rail (for attaching trailed hoeing implements)
 - PTO shaft (for using various implements that are otherwise used with a single-axle tractor - such as rotary tillers, roundabout harrows, ...)
 - Carried implements such as weeding planes or transport platforms
- Tilt function:** There are auxiliary wheels on the lower links. The angle between the lower links and the gantry can be changed from the operating position. This function can be used to change implement and module angles. Heavy PTO implements (such as a rotary tiller) can thus be carried by the implement without touching the ground, and working heights can be finely adjusted.

Hard Facts:

- Drive:** 2 x 750W brushless DC motor; infinitely variable travelling speed, very low speeds possible.
- PTO shaft:** Removable module, can be mounted at different heights; 1700 W brushless DC motor (more power may be possible, intensive testing required); speed infinitely variable up to 1000 rpm; all single-axle attachments can be used with the aid of adapters (possible power values not yet fixed, expected power comparable to that of a 6 hp single-axle machine).
- Control system:** Specially developed control system with thumb joystick and display enables simple, intuitive and effortless machine operation.
- Operation:** Handlebar can be swivelled 360° and is height-adjustable; this means that it can be driven in both directions and can be driven sideways (in the paths).
- Battery:** 48V battery with 30Ah capacity (1440 Wh), robust and safe (no burn-out) - cobalt-free LiFePO4 battery cobalt-free LiFePO4 battery. Battery can be replaced like an eBike.
- Weight:** Without PTO module: 137 kg; with PTO module: 165 kg
- Wheels:** Main wheels 5.00-12, perforated rim 4x100, Auxiliary wheels 260 mm

Modules:

- One-person "Bed flyer"
- Hoeing bar for attaching trailed implements such as: cultivators, knives, finger hoes and others
- Transport module for transporting approx. 18 stacked 60x40 Euroboxes
- PTO module enables the use of attachments from single-axle tractors using adapters such as: Roundabout harrow, tiller, reversible plough, flail mulcher, cutter bar, ...
- Planned: Development of a compost spreader
- Planned: Integration of a Treffle harrow
- Planned: many other modules to facilitate the work processes in market gardening

Dimensions:

