

# Terratrac<sup>®</sup> Aebi TT170



**AEBI**



**The TT170's modern electronic system automatically determines the hydraulic pressure needed to raise the implements. The driver can enter the desired level of weight transfer as a percentage, and the hydraulic system sets the necessary pressure. Thanks to this simplification the driver can concentrate to a greater extent on the actual work.**

**Two power take-off speeds are available, at both front and rear. The power take-offs are electro-hydraulic and can be operated under load. The lifting mechanisms can also be operated from outside the vehicle.**



**The new vehicle with the dynamic appearance tackles exactly the same jobs as its mechanical transmission Terratrac predecessor, but thanks to the new technology, it does it even faster, more safely and more efficiently.**



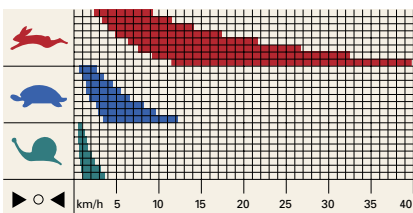
The axles of the new TT170 are designed for above-average loads, and the steering cylinder is given special protection. The low construction and low centre of gravity are typical of an Aebi Terratrac.



The lifting mechanisms can also be operated from the outside, at both front and rear. In addition, an automatic trailer hitch with quick-adjustment device is fitted at the rear.



Thanks to direct injection, the 50 kW (68 hp) Detroit Diesel VM engine has huge pulling power and is very economical. By swinging open the cooling system, access to it for servicing is quick and easy.



The synchronised reversing gearbox is totally new and has 24 precisely graduated, smooth operating gears (thanks to the intermediate gear fitted as standard).



The radiator system for cooling the diesel engine and hydraulic fluid is specially designed for dusty conditions. To clean it, simply swing it open.



**The dust-proof cab with all-round visibility, air-conditioning system (optional) and low step fitted is designed in accordance with the latest ergonomic principles. It looks tidy, and is manageable and spacious.**



**The new reinforced plastic body panelling makes maintenance very much easier. Part of it is even 100-percent recyclable.**



**The front and rear lifting mechanisms can each be fitted with two double-action hydraulic connections and one motor-valve.**



**The standard vehicle headlamps can be raised if necessary (e.g. snow clearance operations) and supplemented with two optional working lights mounted on the front of the roof.**



**Easy to maintain, thanks to light, easily removable reinforced plastic parts.**



**The battery is well protected and easily accessible in the cab.**



**Optional extra: warning lamp and roof-mounted working lights shining to the rear.**



Up to 21 functions can be carried out on the multifunction control lever, some of them 'blind', without changing hands.



Thanks to the clear layout of all operator controls, the driver is always fully in charge of the TT170. The central electronic system displays the current operating state on a large screen and via indicator lights.



The heating outlets and the (optional) air conditioning.



The practical details: ashtray, drinks holder, small compartments to hold loose objects, etc.



The sprung drivers seat has a range of positions and (as an option) can be tilted for working on slopes.



Cab roof with built-in radio and loudspeakers.



On the keyboard to the right next to the lever, the driver can operate the electronics menu, which is displayed on the screen (in one of four possible languages). Values critical to the operating state are immediately and clearly displayed on the screen.





To improve safety and economical use on steeply sloping ground, the TT170 is fitted with the new "All Ground" radial tyres. They can be supplemented with dual tyres at the front and rear. With a 40-degree steering lock at front and rear (30 degrees with dual tyres) this Terratrac is extremely manoeuvrable in all situations.



Front-wheel steering for normal operation.



True rear-wheel steering for precise working with front-mounted equipment.



Turf tyres for upkeep of grassed areas without damaging the ground.



Four-wheel steering for tight turning radii and for turning quickly.



Crabsteering for special conditions on a slope.

**Terratrac Aebi TT170:  
the technical data.**

<b>Engine</b>	Detroit Diesel VM D754 E2, 2970 cm <sup>3</sup> , 4-cylinder, 4-stroke, direct injection, water-cooled, 50 kW (68 hp) at 2600 rpm to ECE R24, max. torque 214 Nm at 1400 rpm.
<b>Electrical system</b>	12 V, 90 A alternator, 88 Ah high-performance cold-start battery, automatic pre-heat system.
<b>Transmission</b>	Synchronised, 4-gear reversing transmission with electro-hydraulically pre-select split gear and 3 speed stepped transmission giving 24 forward and 24 reverse gears.
<b>Speeds</b>	0.9–40 km/h
<b>Power take-off</b>	Standard 1 $\frac{3}{8}$ " profile, 6 splines, dry single-plate clutch operated electrohydraulically, can be engaged and disengaged under load. Speeds: front 550 and 1090 rpm, rear 580 and 760 rpm, pre-selectable separately front and rear. Direction of rotation, clockwise.
<b>Axle drive</b>	4-wheel drive. Rear axle always engaged. Front axle can be engaged electro-hydraulically. 100% electro-hydraulic differential lock on front and rear differentials.
<b>Steering</b>	Hydrostatic 4-wheel steering, switchable to front-wheel steering, rear-wheel steering or quasi-crabsteering by push-button control, change of steering mode at will by automatic detection and synchronisation of wheel position via inductive sensors. Turning radius with all-wheel steering: 3.3 m (lock: 40°). With double tyres, turning radius 4.15 m (lock limit: 30°).
<b>Tyres</b>	All Ground 425/55 R17 radial tyres. Other tyres on request.
<b>Brakes</b>	Hydraulic twin-circuit servo footbrake operating on all wheels, handbrake and single-wheel brake on rear wheels.
<b>Cab</b>	Dust-proof all-round view comfort cab, vibration and noise-damping, with safety frame (tested to 79/622/EEC), front wind-screen, sidescreens and glass door, curved, openable rear screen. All screens tinted. Integrated automatic air-conditioning system. Ergonomic seat with multiple adjustments, plus lap seat belt.
<b>Operation</b>	A total of 21 functions can be controlled via the lever. Using the keypad to the right of the driver, additional hydraulic-system functions and also the heating and air-conditioning system can be controlled, and operating sequences such as coupling up front and rear lifting equipment can be programmed. All information about the operating state and important settings are shown via a display or with indicator lights.
<b>Hydraulic system</b>	Bosch solenoids, pressure 175 bar, delivery rate 36 l/min at engine speed of 2600 rpm, oil contents for hydraulic cylinders 10 l.
<b>Front hydraulic system</b>	3-point Cat.I, displaceable sideways hydraulically, with quick-connection capture sockets and top link, controllable via control lever, max. lifting force 2000 daN at 175 bar. With self-regulating load transfer and automatic calibration. Vibration absorption for road travel.

**Rear hydraulic system** 3-point Cat.II, raising, lowering, carrying, floating setting, lifting-rods with crank adjustment, max. lifting force 1900 daN at 175 bar. Quick-action coupling mechanism.

**Supplementary hydraulic system** Four supplementary hydraulic connections front and rear, once double-acting with float-setting.

**Towing mechanism** Automatic trailer hitch with quick-action adjustment (height above ground 339–939 mm).

<b>Dimensions</b>	Length	4080 mm
	Width	2110 mm
	Height	2130 mm

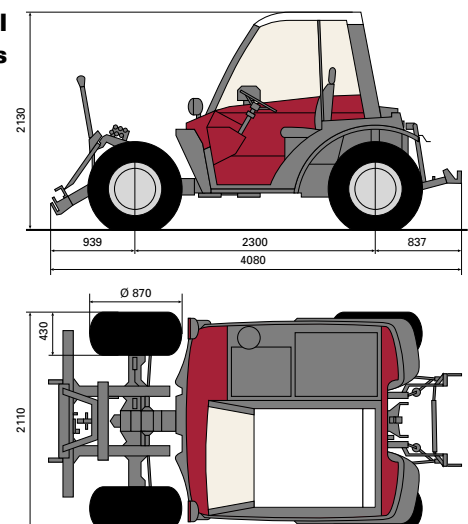
<b>Weights</b>	Kerb weight	c. 2700 kg
	Permissible front-axle load	2400 kg
	Permissible rear-axle load	2400 kg
	Permissible total laden weight	3800 kg
	Trailer load, unbraked	max. 1500 kg
	Trailer load, braked	max. 3500 kg
	Trailer load with independent brake	max. 6000 kg
	Hitch load	max. 600 kg

**Capacities** Fuel tank: 90 litres

**Supplementary equipment** Pair of 7.50–18 wheels for fitting double tyres at front and/or rear, 425/55 R17 radial tyres with AS tread, load transfer hydraulic system at rear, 10 additional hydraulic connections front and rear, once double-acting with floating setting and valves, 8 additional hydraulic connections at rear, once single-acting with return pipe (for supplying a hydraulic motor or an additional valve block), 5 additional hydraulic connections, front and rear; once double action, front cardan shaft, heavy construction with freewheel, overload clutch and protection device. Hydraulic top link. Working headlights front and/or rear, revolving lamp, spring-loaded brake on front axle, snow clearance lighting.

Technical specifications are subject to change without notice.

**External dimensions**





**The Terratrak Aebi TT170 implement carrier and special tractor for steep slopes is "brand new". It is a new development, based on the well-tried Aebi Terratrak concept.**



**The TT170 is oriented to the latest state of tractor technology. Operation of the basic machine and the attachments is partly automated.**

**CERTIFIED**  
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