

Terratrac® Aebi TT120



Robust – easy-to-handle – manoeuvrable

The TT120. The middle class version with mechanical transmission.



TT120. Leading edge technology and compact

Like all Aebi Terratrak models, the TT120 also has extreme steep slope capability, is enormously manoeuvrable, protects the surface and is exceedingly versatile. It possesses the same driving and operating comfort as the large Terratrak model range. As comfortable as its big brothers but externally compact, the TT120 can get through almost anywhere.

The turbo-charged Detroit Diesel VM engine develops a powerful 65 HP and has an excellent torque in crease.





A few highlights

The TT120 with its manual transmission has the design and technology based entirely on the extremely successful and proven high end model the Terratrak TT270. Due to the smaller tires and more compact external dimensions the machine is ideally suited for tight working conditions.

1 Working efficiency

- Electronic weight transfer hydraulics
- Separate front and rear PTO shafts
- Speeds may be preselected separately
- Front lifting frame with side shift
- High lifting capacity

2 Ease of operation

- One-handed operation via multifunction control lever
- Functions accessible via on-board computer
- Operating information available via display
- Numerous automated functions
- Menu-guided «programming»
- Hydraulic remotely operated
- Dust-proof, air-conditioned all-round-view cab

3 Perfect driving characteristics

- Finely graded, synchronised and stepped reversing transmission
- Differential with electro-hydraulically operated, 100% locking of the axles
- Vibration damping for road travel
- Double wheels available for front and rear

4 Peak performance on steep slopes

- Powerful motor for wide implements
- Four-wheel drive
- Outstanding power-to-weight ratio
- Quasi-crab steering

5 Safety at work

- Innovative parking brake
- Extremely low centre of gravity
- Spacious cab with good all-round view

6 Unique manoeuvrability

- Narrow and light build
- Four-wheel, front-wheel, rear-wheel and quasi-crab steering





The technical data

TT120

Engine

Detroit Diesel VM D703 TE2, 2100 cm³, 3-cylinder with turbo-charger, 4-stroke, direct injection, water-cooled, 48 kW (65 HP) at 2600 rpm to ECE R24, max. torque 220 Nm at 1400 rpm.

Electrical system

12 V, 120 A alternator, 100 Ah high-performance cold-start battery, automatic pre-heat system.

Transmission

Synchronised, 4-gear reversing transmission with 3 speed stepped transmission giving 12 forward and 12 reverse gears.

Speeds

1.1 – 40 km/h.

Power take-off

Standard 1 3/8" profile, 6 splines, dry single-plate clutch operated electro-hydraulically, 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.

Axle drive

4-wheel drive. Rear axle always engaged. Front axle can be engaged electro-hydraulically. 100% electro-hydraulic differential lock on front and rear differentials.

Steering

Hydrostatic 4-wheel steering, switchable to front-wheel steering, rear-wheel steering or quasi crab steering by push-button control, change of steering mode at will with automatic detection and synchronisation of wheel position via inductive sensors. Turning circle with all-wheel steering: 3.2 m.

Tyres

Select from: Low pressure Terra-tyres 33x15.50-15 or 31x15.50-15 or turf tyres 33x15.50-15.

Brakes

Hydraulic twin-circuit servo foot-brake operating on all wheels. Wet disc, spring loaded parking brake which locks the rear drive line.

Cab

Dust-proof all-round view comfort cab, vibration and noise damping, on rubber mounts, with safety frame (tested to 79/622/EEC), curved front windscreen and side screens, rear screen can be opened, door, air conditioning unit, comfort seat with lap seat-belt. Pre-fitted radio installation (antenna / loudspeakers).

Operation

A total of 21 functions can be controlled via the drive lever. Using the keypad to the right of the driver, additional hydraulic-system functions, as well as the heating and air-conditioning system can be controlled, and operating sequences such as coupling up front and rear lifting equipment can be programmed.

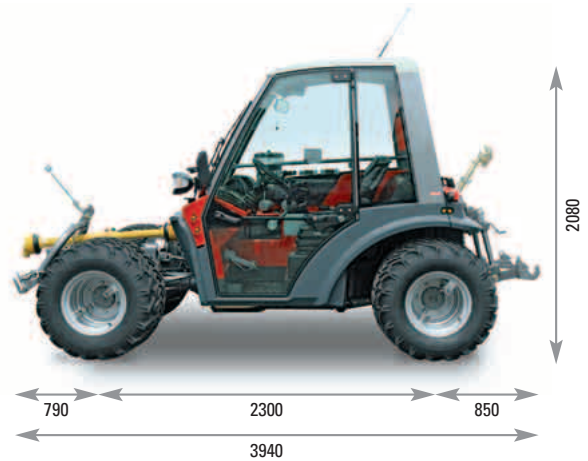
All information about the operating state and important settings are shown via a display or with indicator lights.

Hydraulic system

Bosch solenoids, pressure 175 bar, delivery-rate 30 l/min at engine speed of 2600 rpm.

Front hydraulic system

3 point Cat. I, hydraulic side shift, with quick-connection capture sockets and top-link, controllable via control lever, max. lifting force 1400 daN at 175 bar. With self-regulating weight transfer and 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 1400 daN at 175 bar. Quick-action coupling mechanism.

Hydraulic equipment

Hydraulic couplings 10, DWASD, front and rear; 1 x double-acting with float setting and valves.

Towing mechanism

Trailer hitch with quick-action adjustment (height above ground 39 – 91 cm).

Dimensions

Length	3940 mm
Width	1900 mm
Height	2080 mm

Weights

Kerb weight c.	2280 – 2400 kg
Permissible axle loads	2100 kg
Permissible total laden weight	3400 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: 85 litres.

Additional extras

Pair of 6.50-16 or 7.50-18 wheels for fitting double tyres to front and/or rear, snow chains, hydraulic coupling 4, DWAS-, front and rear, double acting, hydraulic coupling 5, DWAS-, front and rear, double acting with float position, weight transfer coupling EHH/- with lowering flow control valve SDH/-, front cardan shaft, heavy construction, overload clutch and protection device, extension piece for PTO-shaft,. Hydraulic top link, pair of mudguards front, working headlights front and/or rear, revolving lamp, snow clearance lighting. Hydraulic single wheel brake acting on the rear wheels, rear screen washer, diesel particle filter, coolant heater.

Technical specifications are subject to change without notice.



Hydraulic connectors on the front hydraulic lift

Superior and reliable engineering

Just like all other Terratrak models in the medium and high-end class, the TT120 is also a prime example of user-friendliness and comfort. It possesses unique technical characteristics that make your work, safer, more comfortable and more efficient.

In addition to the characteristics described in the Terratrak basic brochure, the TT120 features additional technical benefits.

Twelve precisely selectable gears so that you can choose the exact speed required

The synchronised 4-gear reversing transmission with a series connected 3-speed stepped gearbox provides 12 forward and 12 reverse gears. Thanks to the close gear ratios, the driving speed can be adapted to the actual job in hand and the optimal engine torque used.

Hundred percent locking of the axles to avoid ever being bogged down

The differentials on the front and rear axles can be electro-hydraulically 100% locked. This means that wheel slip is virtually no longer possible and the TT120 works safely even on very steep slopes; and also when starting from stationary on difficult terrain the power is transferred directly to the surface.

Flexibility at the front and rear, to enable you to perform your work even more efficiently.

Two PTO shaft speeds are available both at the front and at the rear. This feature, found only on the Aebi Terratrak, brings enormous advantages and flexibility for many applications.

The intelligently designed hydraulic lifts can each manage 1,400 kg. You define the level of weight transfer which is then automatically and continuously monitored by the electronics and the hydraulic system.

External remote push-buttons allow easy operation of the front and rear hydraulic frames for fitting attachments. The front hydraulic lift is fitted with side shift. At the rear, there is also a height-adjustable trailer coupling.



In the Terratrak general brochure, you can read all about the Terratrak operating concept, the application of state-of-the-art electronics and the unrivalled automated features.





Strength and pulling power at the rear

The ingenious parking brake, for even greater safety at work

The parking brake of the TT120 is spring loaded and works on full size wet discs which when applied brakes the drive shaft to the rear axle. The brake which can be activated manually using the switch on the dash is automatically applied when the engine is turned off. This typical Aebi safety-plus feature was awarded the «innovation prize» at the GaLaBau trade fair in 2006.

The comfortable cab, so you can work in peace and keep a cool head

The cab of the TT120 is designed such that there is a clear overview of all operating elements and one can concentrate fully on the job in hand. The all-round-view cab provides effective protection against dust and noise. The standard equipment air conditioning is automatically temperature controlled and the fresh air intake and re-circulated air are filtered.

Designed with ease of maintenance in mind to make it simpler for you to care for your Terratrak

The cooling system for the diesel engine and the hydraulic system is specially designed for operation in dusty conditions. Simply open the covers for cleaning. This also gives you easy access to the engine.

The Terratrak's ingenious outer shell greatly simplifies maintenance. Easily removable plastic elements enable direct access to the relevant mechanical elements.

A wealth of additional accessories that enable you to tailor your Terratrak precisely to your needs.

Aebi offers a multitude of accessories to enhance its range of functions, from double wheels through additional hydraulic connections to rear screen washers and additional lighting for winter maintenance. There is a host of options with which to make your Terratrak ideally equipped for your particular area of work.



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www.aebi.com

Technische Änderungen sind jederzeit
vorbehalten.



The Terratrak concept

Aebi continuously expands the Terratrak model range and develops new models that reflect modern-day agricultural and public works requirements.

Your Aebi specialist would welcome the opportunity to advise you and inform you on the latest trends.