

**AEBI**  
Swiss Quality

# Terratrac® Aebi **TT220 / TT240**



**powerful – well-equipped – highly manoeuvrable**

The TT220 and TT240 set the standards in the mid-range segment for implement carriers for use in sloping terrain



### **TT220 and TT240. State-of-the-art technology in a powerful, yet compact package**

Like all Aebi Terratrak models, the TT220 and TT240 are also ideally suited for working on slopes, exceptionally manoeuvrable, soil conserving and highly versatile. They possess the same ease of driving and operation as the large Terratrak model range. As well equipped as the large versions, but with more compact external dimensions, they can go almost anywhere.

Apart from the different Detroit VM turbocharged diesel engines, the two models are technically identical. The TT220 is powered by a 65 HP turbocharged diesel, while a more powerful 4-cylinder in the TT240 generates a muscular 80 HP.





## A few highlights

In both design and technical terms, the TT220 and TT240 are based on the extremely successful and proven top-of-the-range model, the Terratrac Aebi TT270. The external dimensions are smaller all-round, however, and the tyre variants are smaller in size. This means that these machines lend themselves especially well to operating in more restricted conditions.

### 1 Working efficiency

- Electronic weight transfer hydraulics
- Separate front and rear PTO shafts
- Speeds may be preselected separately in advance
- 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 lifts may also be operated externally
- Dust-proof, air-conditioned all-round-view cab

### 3 Perfect driving characteristics

- Stepless hydrostatic drive, with two switchable mechanical stages
- Torsen differential for perfect balance of axles and traction
- Vibration damping for road driving
- Optional front and rear twin tyres

### 4 Top performance on sloping terrain

- Powerful engines for wide implements
- All-wheel drive
- Outstanding power to weight ratio
- Quasi crab steering

### 5 Workplace safety

- Innovative parking brake
- 100% locking in the axles
- Clear view from the spacious cockpit

### 6 Unique manoeuvrability

- Narrow and light design
- All-wheel, front and rear-wheel steering





## The technical data

### TT220

#### Engine

Detroit Diesel VM D703 TE2, 2,100 cm<sup>3</sup>, 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, 88 Ah high-performance cold-start battery, automatic pre-heat system.

### TT240

#### Engine

Detroit Diesel VM D704 TE2, 2,800 cm<sup>3</sup>, 4-cylinder with turbo-charger, 4-stroke, direct injection, water-cooled, 59 kW (80 HP) at 2600 rpm to ECE R24, max. torque 255 Nm at 1400 rpm.

#### Electrical system

12 V, 90 A alternator, 88 Ah high-performance cold-start battery, automatic pre-heat system.

### TT220 / TT240

#### Transmission

Continuously variable hydrostatic with adjusting pump, adjusting motor and 2-speed output gearbox. The vehicle-drive control system can be switched on and off.

#### Speeds

Forward and reverse.

Off-road	0–9.5 / 0–20 km/h
Road	0–16 / 0–40 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. Pre-selectable separately front and rear. Direction of rotation clockwise.

Speeds:

Front	550 and 1090 rpm
Rear	580 and 760 rpm

#### Axle drive

Permanent 4-wheel drive with Torsen inter-axle differential and fully-lockable differentials in the front and rear axle, operated electro-hydraulically.

#### Steering

Hydrostatic 4-wheel steering, switchable to front-wheel steering by push-button control, change of steering mode at will by automatic detection and synchronisation of wheel position via inductive sensors.

Turning circle radius with all-wheel steering:	3.2 m
--	-------

#### Tyres

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

#### Brakes

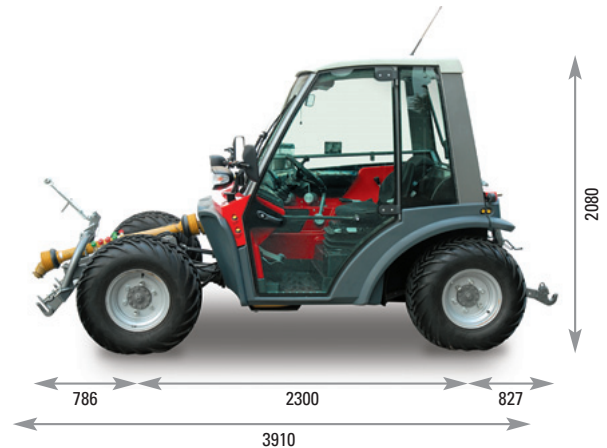
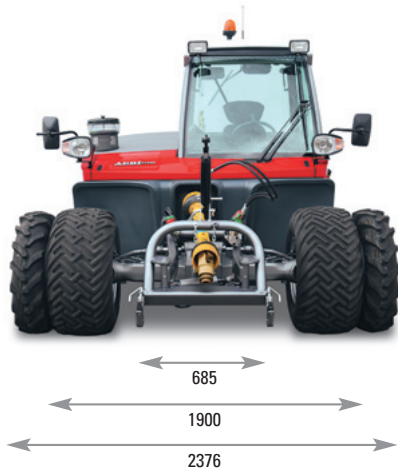
Hydraulic twin-circuit servo foot-brake operating on all wheels, in addition hydraulic driving brake. Automatic spring-loaded parking brake on the rear axle.

#### Cab

Dust-proof all-round view comfort cab, vibration and noise damping, with safety frame (tested to 79/622/EEC), front windscreen, sidescreens and glass door curved, openable rear screen. All screens tinted. Air conditioning unit. Ergonomic seat with multiple adjustments, plus lap seat-belt.

#### Operation

A total of 24 functions can be controlled via the drive 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 for example 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 36 l/min at engine speed of 2600 rpm, oil contents for hydraulic cylinders 10 litres.

### Front hydraulic system

3 point Cat.I, displaceable sideways hydraulically, with quick-connection capture sockets and top-link, controllable via multi-function control lever, max. lifting force 1400 daN at 175 bar. With self-regulating load transfer and automatic calibration. Vibration damping for road travel.

### Rear hydraulic system

3-point Cat. I + II, raising, lowering, carrying, floating setting, lifting-rods with crank-adjustment, max. lifting force 1400 daN at 175 bar. Quick-action coupling mechanism with cat I/II and cat. II balls.

### Hydraulic Equipment

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

### Towing mechanism

Automatic trailer hitch with quick-action adjustment (height above ground 390–910 mm).

### Dimensions

Length	3910 mm
Width	1900 mm
Height	2080 mm

### Weights

Kerb weight TT220	2220–2380 kg
TT240	2285–2445 kg
Permissible front-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
-----------	-----------

### Supplementary equipment

Pair of 7.50-16 or 6.50-16 wheels for fitting double tyres at front and/or rear, pair of front mudguards, snow chains. Hydraulic couplings 4, DWAS-, front and rear, 1 x double-acting with float position. Hydraulic couplings 5, DWA-, front and rear, 1 x double-acting, weight transfer coupling EHH-, rear, with lowering flow control valve SDH/- and automatic calibration. Vibration damping for road travel, front cardan-shaft, heavy construction with freewheel, overload clutch and protection device. Hydraulic top link. Rear screen washer, working headlights front and/or rear, revolving light, snow clearance lighting, hydraulic single wheel brakes acting on the rear wheels, coolant heater on request, diesel particle filter.

Technical specifications are subject to change without notice.



Hydraulic connectors on the front hydraulic lift

## Superior and dependable technology

Like all other Terratrak models in the middle and top class segments, the TT220 and TT240 are also paragons of user friendliness and comfort. They possess unique technical features that make your work more efficient, safer and easier.

In addition to the features described in the Terratrak basic brochure, the TT220 and TT240 also display other technical advantages.

### Hydrostatic traction drive, enables you to work more precisely

Thanks to the modern traction drive, the speed of travel can always be adjusted exactly to the prevailing conditions. Stepless and exceptionally precise, it enables you to work with the optimum engine speed in any terrain; safely, effortlessly and with your mind concentrated on the essentials.

### The renowned Torsen differential ensures that the axle compensation functions properly

The Torsen differential counteracts torsion differences between the front and rear axles. If the difference suddenly becomes excessive, it prevents the Terratrak's wheels from spinning by automatic locking. This locking is purely mechanical and switches on and off automatically. And the best part about it is that as the driver you notice absolutely nothing. That is known as perfect driving characteristics.

### 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 push-buttons allow easy operation of the front and rear hydraulic lifts for fitting attachments. The front hydraulic lift can be moved to the side. 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 to keep you even safer on the way**

The parking brake on the TT220 and TT240 has a spring-loaded action that acts on a wet internal expanding clutch-type disc brake on the rear axle pinion shaft. A rotary knob is used to brake the machine. The brake is applied automatically when the engine is switched off or if the control remains in neutral for more than 1.5 seconds with the machine stationary. A real safety benefit, awarded the Prize for Innovation at GaLaBau 2006. Typical Aebi.

### **The comfortable driver's cab lets you work in peace and with a cool head**

The cockpit of the TT220 and TT240 is designed in such a way that you have a clear view of all operating elements and can concentrate totally on your work. The all-round-view cab gives you effective protection against dust and noise. The air-conditioning unit fitted as standard controls the temperature automatically and the fresh and circulating air is 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 numerous additional accessories for you to enhance its range of functions. From wheels for twin tyres through hydraulic plug connectors to rear screen washers and lighting for snow clearance work. There is a host of options with which to make your Terratrak ideally equipped for your particular area of work.



## Contact addresses

### Switzerland

Aebi & Co. AG  
CH-3401 Burgdorf/Switzerland  
Phone +41 (0)34 421 61 21  
Fax +41 (0)34 421 61 51  
[www.aebi.com](http://www.aebi.com)  
[aebi@aebi.com](mailto:aebi@aebi.com)

### UK

John T. Taylor  
The Cottage  
Five Fields Lane, Retford  
Notts DN22 7HQ  
Phone +44 78 50 12 34 55  
Fax +44 17 77 71 94 49  
[j.taylor@aebi.com](mailto:j.taylor@aebi.com)

### USA / Canada

Aebi North America, Inc.  
1823 North Hamilton Street  
Richmond, Virginia 23230  
Phone +1 888 SAY AEBI  
Fax +1 877 FAX AEBI  
[aebi-us@aebi-us.com](mailto:aebi-us@aebi-us.com)

### East-/Southeast Europe

Mag. Roland Haberl  
Aichegg 20  
AT-8541 Schwanberg  
Phone +43 34 67 75 11-0  
Fax +43 34 67 75 11-11  
[r.haberl@aebi.com](mailto:r.haberl@aebi.com)

### Other representatives

Czech Republic, Luxembourg, Norway,  
Sweden, Netherlands, Poland, Spain, Asia,  
South America

[www.aebi.com](http://www.aebi.com)

Technical specifications are subject  
to change without notice.



## 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.