

**AEBI**

# Aebi MT

**Universal implement carrier**





# The company Aebi

## An ASH Group company

The ASH Group has a total of 1,300 employees and manufactures its products at facilities in Germany, the Netherlands, Norway, Poland and Switzerland. As part of the group, the Aebi Division in Burgdorf, Switzerland, is a leading global manufacturer of machines for the safe mechanical management and maintenance of steep slopes and particularly challenging terrain.

## Heading for success with innovative technology

As a traditional Swiss company, Aebi has been manufacturing innovative implement carriers and vehicles for more than 130 years. These decades of comprehensive experience and the employees' technical know-how make Aebi a reliable and competent partner for customers around the world.

## Swiss quality – more than a promise

Aebi offers an extensive range of vehicles and machines for challenging green space maintenance as well as municipal and winter service operations. Our products meet the highest requirements and, in this, have only one goal: your satisfaction. Swiss quality is thus more than a promise – it is our conviction.

## Sustainable

Sustainable means the long service life that Aebi products are known for and a guaranteed supply of spare parts over many years. For us, sustainability begins in the development of our products. State-of-the-art technologies help to ensure that energy consumption is kept as low as possible during production. Saving energy and thus reducing CO<sub>2</sub> emissions, avoiding waste and optimising the waste flows, as well as using renewable energy sources, is part of our daily responsibility.

## Our service is wherever you are

We want our customers to receive all-round great care even after making their purchase. The efficient Aebi spare parts centres and the close-knit network of dealers ensure prompt service in your proximity. We work hard to ensure that the Aebi service technicians receive regular and comprehensive training, and are thus always on the cutting edge of technology.





**Welcome to your new comfort zone**





# Highest load capacity and unbeatable stre

## Environmentally friendly

- + Exhaust emissions meet the Euro 6 standard
- + AdBlue technology
- + High-performance, low-noise engines

## Driving and operating comfort

- + Best possible view of the tools
- + Ergonomic operating elements
- + Cab for 2 or 3 people

## Economical and efficient

- + High load capacity of up to 4800kg with an authorised total weight of 7500kg
- + High-quality workmanship ensures a long service life, even with constant use
- + High efficiency thanks to application options in summer and winter service
- + Economical Euro 6 engines
- + Eco-drive in top gear

## High performance – VM turbo diesel

- + MT750: 6-cylinder with 115kW (156hp)
- + MT740: 4-cylinder with 80kW (109hp)
- + MT720: 4-cylinder with 80kW (109hp)
- + Top speed of 90km/h or 40km/h







## Length – The Aebi MT range



### Innovative and multi-functional

- + Wide variety of usage options on the street and off-road
- + 4 attachment points
- + Rear attachments can be driven by auxiliary drives
- + Variable power hydraulic system available
- + CAN-BUS interface in the cab

### Compact and flexible

- + Narrow cab
- + Engageable four-wheel drive
- + Constant four-wheel drive (option)

### Safety plus

- + Dual-circuit brake system with ABS
- + Internally ventilated disk brakes
- + Certified safety cab

### Ease to service

- + Hydraulically tiltable cab
- + Easy access to the engine compartment
- + Low-maintenance engines

### We think you deserve more...

The Aebi MT exclusively uses the latest state-of-the-art technology so you can complete your work efficiently and reliably. Despite its narrow and compact design, you get the highest load capacity in its class with the Aebi MT – an advantage that pays off. The driver's cab is safety tested and, alongside the option of 3 seats, offers absolute comfort for driver and passenger. With its robust chassis and smooth shifting, off-road driving is no problem either, and the powerful engines ensure pure power performance – see for yourself.



# The Aebi MT720, MT740 and MT750

## Clean and strong – full power, low emissions

The Aebi MT models have strong engines which provide powerful drive and a superior driving performance, even when carrying heavy loads. The 4-cylinder turbo diesel engine with a capacity of 3.0l and 80kW (109hp) is the smaller model, which is still impressive thanks to a torque of 420Nm at 1100 1/min and a torque increase of 40%. The larger model has a VM 6-cylinder turbo diesel engine with a capacity of 4.5l and 115kW (156hp): with a torque of 500Nm at 1400 1/min and a torque increase of 31%, it is a real heavyweight. Thanks to the modern particle filters and the innovative SCR technology, these powerful turbo diesel engines also meet the mandatory Euro 6 emissions standard.

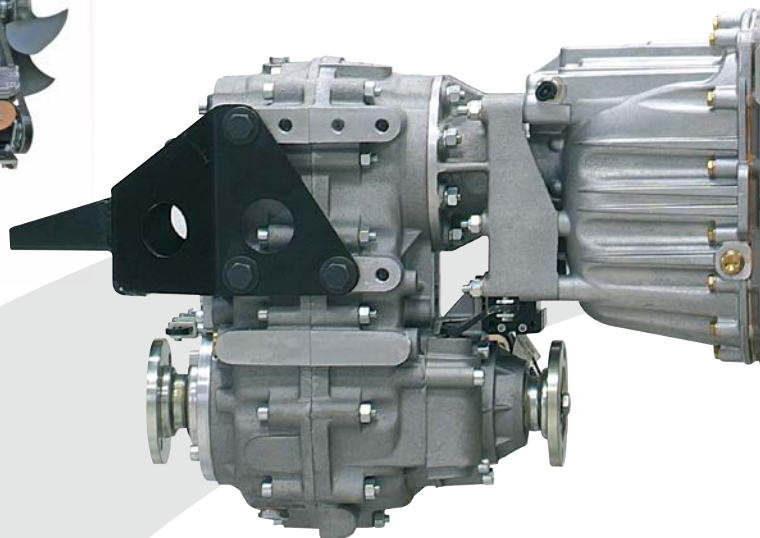


## Into the future with Aebi and AdBlue – your benefits

- + Intervals between maintenance and oil-changes remain the same
- + Reduction in fuel costs of up to 10%
- + Cost savings due to tax and toll benefits
- + AdBlue has an unlimited shelf life without affecting engine performance
- + Higher efficiency can be achieved thanks to optimised combustion in the engine
- + Higher resale value
- + AdBlue can be bought at all relevant petrol stations



**euro6**





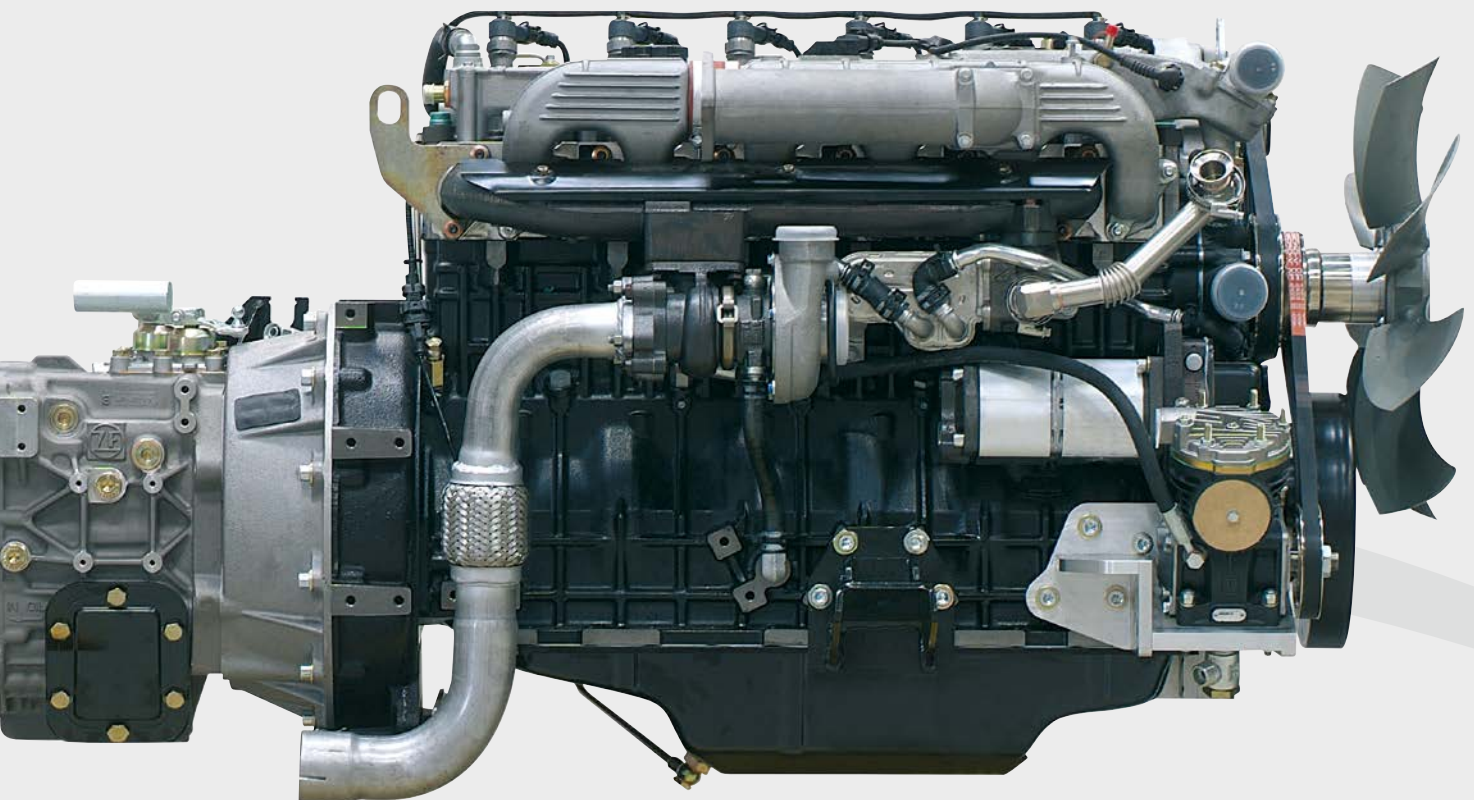
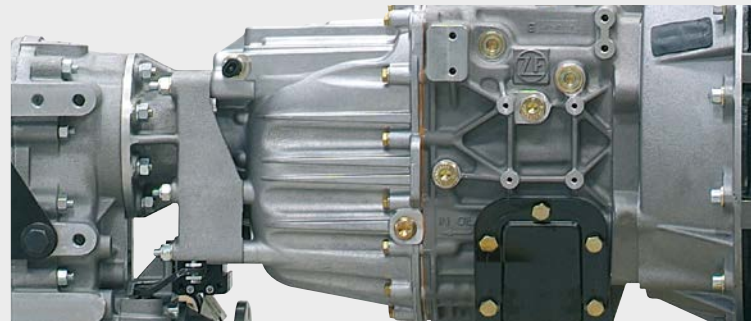


### **Perfect transmission – the reduction gear**

High performance combined with eco-friendliness makes all the difference. The 4x4 drive is fitted with a reduction gear as standard and has 12 forward gears and 2 reverse gears. The optimal transmission can thus be selected for every application. The top gear is always designed as an eco-drive and is laid out with a corresponding long transmission. This makes optimum use of resources and noticeably reduces fuel consumption.

### **Speeding along**

Two different speed options are available to choose from: 0-40km/h and 0-90km/h.





## Safe, powerful and compact

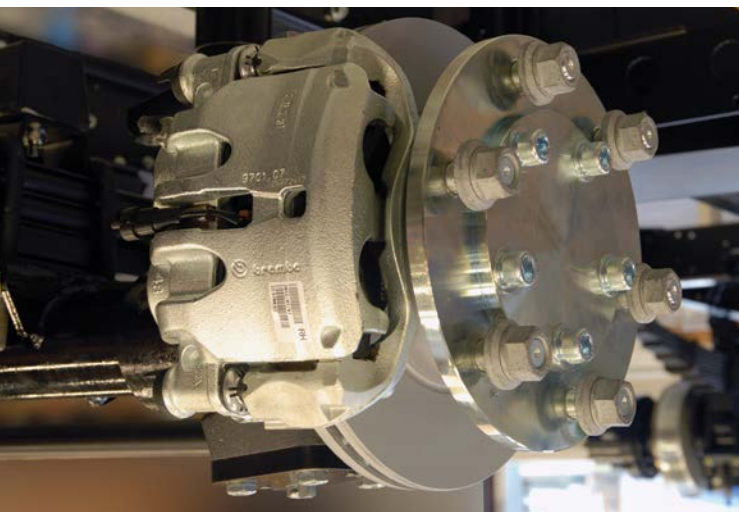


### Protection in all situations – safety

Safety for drivers and passengers is the standard on board our vehicles: the cab, with space for three occupants, meets all of the current legal requirements and has been crash-tested in accordance with ECE-R 29. In combination with the latest braking systems, four-wheel drive and ABS, our vehicles offer not only comfort but, more importantly, also ensure a safe drive, even in the most difficult conditions.

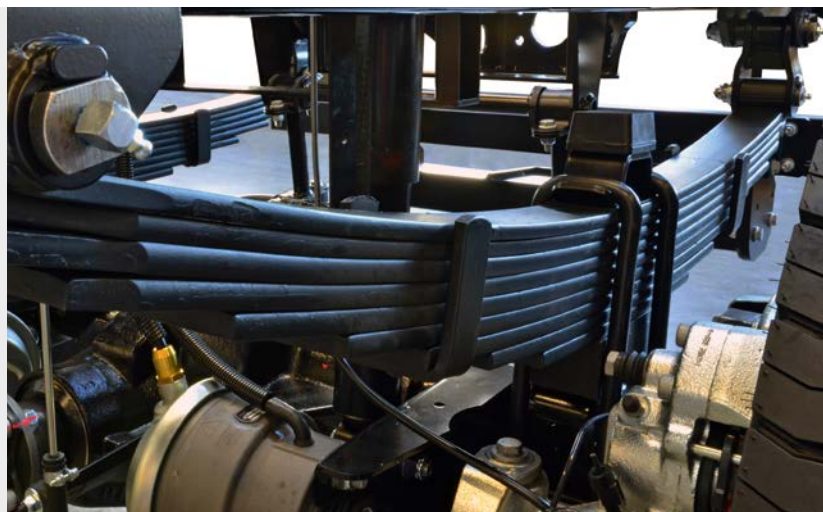
### The braking system

The braking system with ABS works with two independent circuits at the front and back with four ventilated disk brakes. The parking brake works on the back brake disks.



### The chassis

The solid, flexible chassis has elliptical front suspension and parabolic back suspension with hydraulic telescopic shock absorbers at the front and back. Front and rear stabilisers are installed as standard. Thanks to the long springs, the Aebi MT masters even strong torsion between the front and back axles without a problem.







*Compact and powerful!  
Compact external dimensions  
allow for use even on narrow  
roads.*

*The ergonomically designed  
driver's cab ensures the best  
possible view of the tools and  
traffic*





# Flexible, strong and comfortable

## Comprehensive – the hydraulics

Are you looking for a utility vehicle which can be adapted depending on the external conditions? This is incredibly simple with the Aebi MT, since we can optionally fit all vehicles with a comprehensive hydraulics system which enables simple operation of attachments and implements via a joystick.

## A wide range of options– the auxiliary drive

A gear pump can be attached directly to the motor, allowing for the installation of movement hydraulics, independent from the clutch, with up to 4x double-acting clutches forwards and, optionally, backwards. 1x single-acting valve is also integrated into the movement hydraulics for the tipper body. All valves can be controlled using the joystick and have floating position functionality.

In addition to the movement hydraulics, performance hydraulics with a capacity of 50l at 180bar can be installed. The ports are located at the back right and can optionally be moved forward. The performance hydraulics is fitted with pressure, return and overflow oil lines.

Up to 20kW can be drawn from a manual gearbox and up to 70kW from a reduction gearbox (MT740 & MT750), dependent on the clutch, with a pump.

## Like being at home – the comfortable cab

The Aebi MT's cab has space for up to three people and is the perfect combination of functionality and comfort: noise from outside is reduced, the side windows are operated electronically and the digital instrument panel with speedometer, rev counter, fuel gauge, temperature display, kilometre display, digital information display and 21 indicator lights ensures full control. In addition, the gearstick, brake lever and comprehensive control panel are in the optimum position for the driver. For maximum comfort, an optional air suspension driver's seat can be installed.

## Maximum contact – all wheels grip

The following tyre options are available for the MT models:



MT720: 205/75R16 rear



MT750: 225/75R17.5 rear



MT720: 205/75R16 front



MT750: 225/75R17.5 front



MT740/MT750:  
245/70R17.5 front and rear





*The driver's cab in the MT750*



*The driver's cab in the MT720*

*The highly effective sound insulation ensures a low noise level; the simple and logical operation makes the driver's cab a comfortable cabin which is in a class of its own.*

*The driver's cab in the MT750*

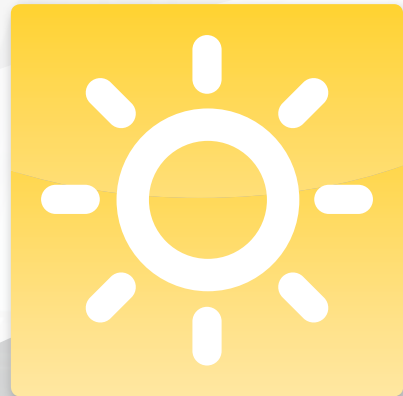




# Suitable attachments and implements for all kinds of work

## More efficiency with the Aebi MT

With the Aebi MT, you have a powerful multi-purpose transporter which provides you with completely new usage possibilities within the shortest period of time. You have the choice of everything from a powerful transporter to a special implement carrier, as the Aebi MT leaves nothing to be desired.



**Summer maintenance technology**

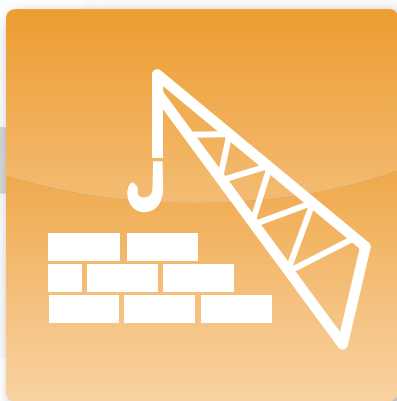


**Winter maintenance technology**





**Municipal technology**



**Construction**



**Special tasks**



# Winter maintenance technology

## Great for use against snow and ice

Aebi MT vehicles are compact, powerful and versatile – making them the perfect vehicles for combating snow and ice. The four-wheel drive ensures fantastic traction and, in combination with the powerful engines, means large amounts of snow can be moved effortlessly. The broad range of de-mountable spreaders by Schmidt is suitable for combating ice. The amount of grit which is spread is regulated electronically, reducing the consumption to the optimal minimum. This saves on costs and is also better for the environment. You can also find high-quality winter maintenance attachments which we produce ourselves and adapt to your individual needs at the ASH Group. The ploughs can be attached directly to standard panels on the MT. A front linkage can also optionally be ordered.



## Single-blade snow ploughs

Single-blade snow ploughs such as the Schmidt FFL 24, CPL 24, MCP-S 26, MCP-P 28, CPM 27, CP 2 or SNK 27 are suitable for simple clearing operations, especially in urban areas.

## Multi-blade snow ploughs

The multi-blade snow ploughs such as the Schmidt Tarron Compact MS C 27 adapt to the road surface in the best possible way thanks to the special blade control system and therefore have a particularly low environmental impact.

## Vario snow ploughs

Variable wedge-shaped snow ploughs such as the Schmidt KL-V 24 enable flexible snow clearing in towns and cities on narrow roads, in car parks and at junctions.

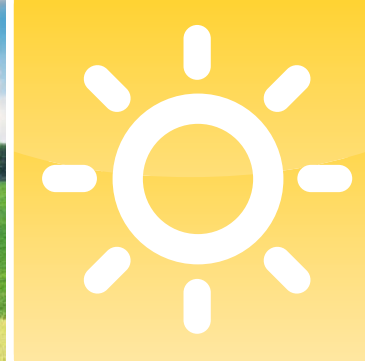
## Spreaders/sprayers

Classic areas where de-mountable spreaders such as the Schmidt Strator or Syntos can be used are smaller areas such as depots, car parks, cycle paths, footpaths, narrow streets in old towns and municipal roads.

## Front-mounted brushes

Front-mounted sweeping equipment such as the Schmidt VKS 22 or VKS 24 V can be used to remove smaller amounts of snow and coarse dirt from large areas.





# Summer maintenance technology

## Individual variety

With various equipment, Aebi MT vehicles can fulfil several functions and offer considerable added value for different uses because they make it possible to carry out many different tasks with just one vehicle. Front attachments and a range of implements can be attached and removed simply and quickly as required, providing unparalleled flexibility. And for regular use, such as for sweeping machines, the implements can also be attached permanently.

## Transporters

The high load capacity and strong pulling power make a wide range of transportation work possible, even in rough terrain.

## Mowers

With the front-mounted flail mower, maintaining grass verges at the sides of roads is not a problem.

## Irrigation technology

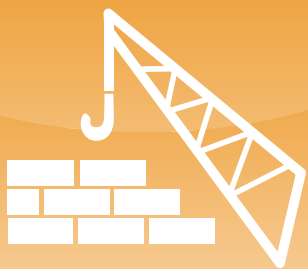
Water tanks and front-mounted sprayers make it possible to clean or remove dust from dirty roads and surfaces.

## Reflector post washers

Reflector posts can be washed quickly and efficiently with this front-mounted attachment.







# Construction

## Speed and efficiency

There is hardly a challenge that Aebi MT vehicles cannot master, meaning that they are also an indispensable aid on construction sites. Fitted with a skip loader or hook lift, Aebi vehicles can support large carrier vehicles and minimise their downtime. As soon as the loaded trough is placed on the ground, the next stage of transportation can begin. This allows the vehicle to be used as much as possible and creates more flexibility.

## Three-way tippers

Three-way tippers Transportation of various construction materials with a three-way tipper and safe driving in the construction site area, thanks to four-wheel drive and a high ground clearance, make the Aebi MT the perfect construction vehicle.

## Hook lifts/roll-off tippers

The hook lift lifts flat troughs loaded with small diggers or construction machinery onto the carrier vehicles and places them back on the ground at the construction site. In addition to simple troughs, combinations with bridges/cranes can also be assembled using the hook lift.

## Skip loaders

Troughs can be loaded and unloaded, and can also be tipped to empty them.

## Cranes

Variations for crane units are behind the cab or at the back on the bridge. The vehicle can be loaded and unloaded and crane work is possible. Due to the wide support, the crane can extend out a considerable distance.







## Special tasks

### An Aebi MT for all situations

Since Aebi MT vehicles can be used with a wide variety of different attachments and adapted individually, they can be used for almost any conceivable purpose. The vehicles are great for refuse collection or sewer cleaning and are even valued by the civil defence sector and fire brigade as “little all-rounders”. What kind of challenge do you have? We’re sure that we also have the perfect Aebi MT ready to deal with your special task.

### Disposal

Sweeper attachments or refuse collection skips make it possible to collect waste in small towns and villages.

### Civil defence

Equipped with a fixed civil defence attachment, the reliable and solid carrier vehicle can be used in the event of a disaster.

### Extinguishing equipment

As an off-road fire engine with a strong engine, the Aebi MT arrives quickly in the event of a fire. A variety of attachments fulfil the individual requirements.

### Sewer cleaning

Sludge extraction, rinsing of sewer pipes and many more tasks are made possible with the special sewer cleaning attachment.

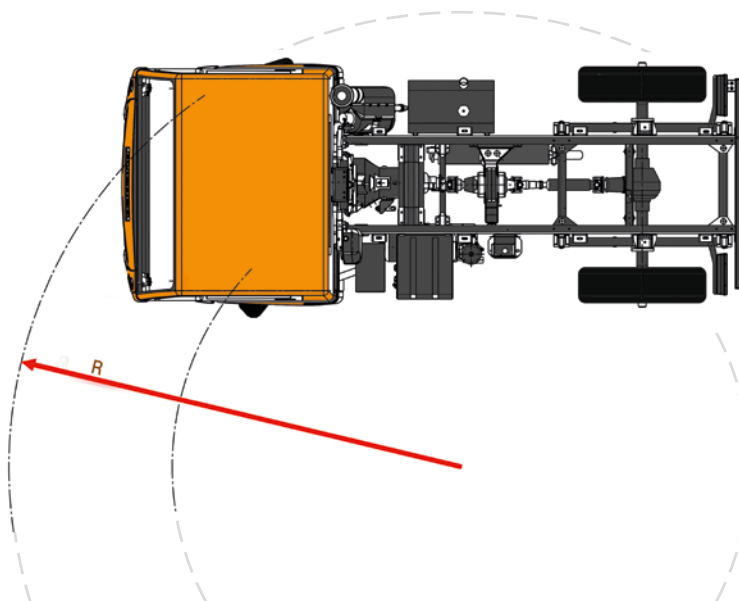
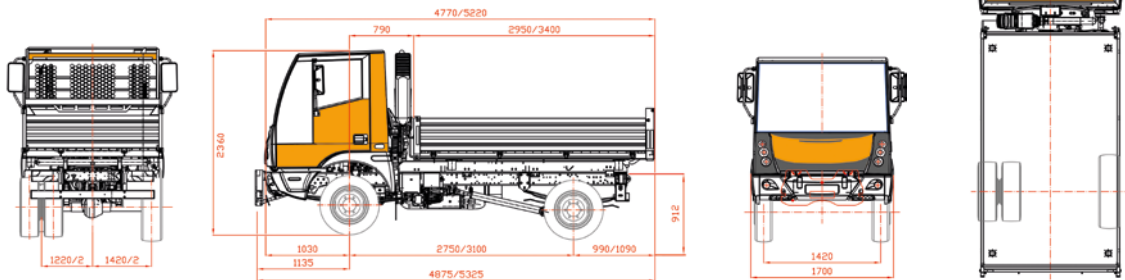




# A range of models for exact solutions

## The powerful MT – Aebi MT750

The Aebi MT750 changes gear using a 6 + 1 R speed transmission. With a reduction gear you can choose between engageable and continuous four-wheel drive, permanent four-wheel drive is optionally available. There are a total of 12 forward and 2 reverse gears. The VM turbo diesel engine (Euro 6) with six cylinders runs very powerfully and delivers a strong 115kW (156hp). The maximum load capacity is 4.8t. Two different wheel bases are available.



### MT720

Wheel base  
2330 mm  
2600 mm

Turning circle radius  
4.8 m  
5.55 m

### MT740/MT750

Wheel base  
2750 mm  
3100 mm

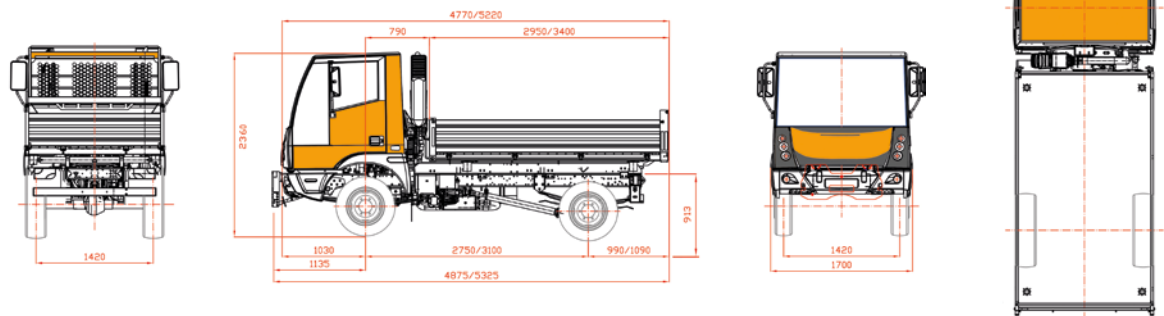
Turning circle radius  
6.1 m  
6.75 m





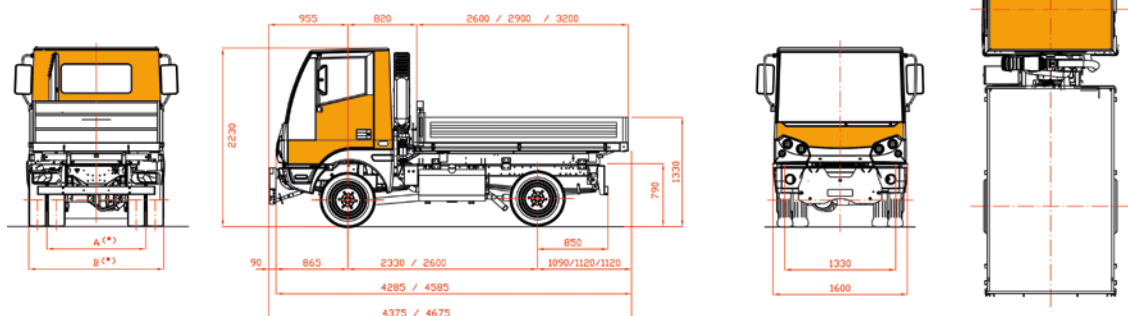
### The good mix – Aebi MT740

In many areas, the construction of the Aebi MT740 is absolutely identical to that of the top of the range model and the gears are changed using a 6 + 1 R speed transmission. The engageable 4x4 drive and reduction gear are standard, permanent four-wheel drive is also available as an option. There are a total of 12 forward and 2 reverse gears. The VM turbo diesel engine (Euro 6) with four cylinders achieves 80kW (109hp). The maximum load capacity is 4.02t. Two different wheel bases are available.



### The narrow MT – Aebi MT720

The Aebi MT720 is the compact entry level model. With the technology and many of the components, the larger models form the basis. The gears are changed using a 6 + 1 R speed transmission. The 4x4 drive and reduction gear are standard, permanent four-wheel drive is available as an option. There are a total of 12 forward and 2 reverse gears. The VM turbo diesel engine (Euro 6) with four cylinders achieves 80kW (109hp). The maximum load capacity is 3.35t. Two different wheel bases are available.



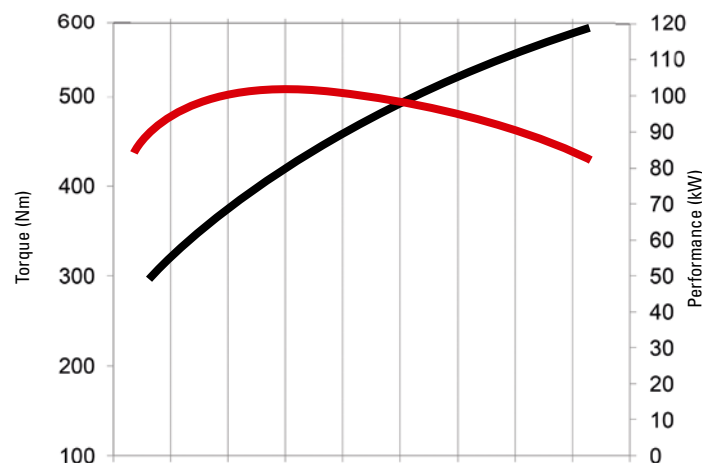
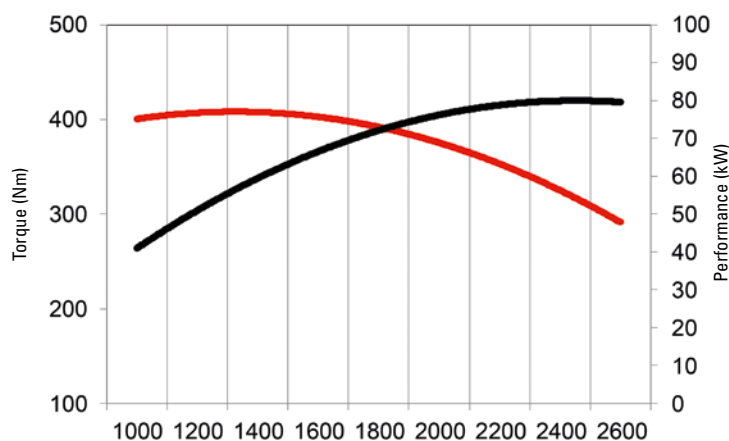


# Technical specifications

The particularly compact structure of the Aebi MT means that it can also be used in difficult conditions such as on narrow streets or dirt tracks. Thanks to individual fitting, the vehicles can be prepared for almost any purpose. The three basic models are available with two engine types.

Engine and transmission	Aebi MT720
Engine (Euro 6)	VM R754EU6 turbo diesel (4 cylinder)
Capacity	2970cm <sup>3</sup>
Performance	80kW (109hp) at 2600 1/min
Max. Torque/torque increase	420Nm at 1100 1/min / 40%
Transmission/reduction gear	12 forward gears / 2 reverse gears
Clutch	Hydraulically operated dry single disk clutch
Drive	4x4, on-demand front wheel drive. Optional: permanent four-wheel drive
Driving and equipment	
Speed	40km/h (6.5t) or 90km/h (5.5t)
Turning circle	9.6m (wheel base: 2330mm) / 11.1m (wheel base: 2600mm)
Steering	ZF ball-and-nut hydraulic steering
Tyres	205/75R16
Brakes	Ventilated front and rear disk brakes
Parking brake	Via drums integrated into the brake disks, works on the back wheels
Tank capacity (fuel tank / AdBlue)	90l / 14l
Electrical system	12V, alternator 105A
Battery capacity	100Ah
Movement hydraulics (1 circuit – optional)	30l/min max. 200bar (optional: 250bar with continuous operation on circuit 1 with electrical monitoring)
Movement hydraulics (2nd circuit – optional)	30l/min max. 200bar and performance hydraulics 50l/min max. 180bar
Movement hydraulics (3rd circuit – optional)	-
Dimensions and weights	
Wheel base	2330mm / 2600mm
Length	4375mm / 4675mm
Width (cab)	1600mm
Height (cab)	2230mm
Empty weight	2150kg
Permissible overall weight (max. with corresponding stand. equipment)	5500kg (40km/h) / 5500kg (90km/h)
Max. permissible load capacity	3350kg (40km/h) / 3350kg (90km/h)
Max. weight on the front axle	2400kg (40km/h) / 2400kg (90km/h)
Max. weight on back axle (tyre-dependent)	3800kg (40km/h) / 3800kg (90km/h)
Towing capacity (trailer without brakes/with brakes)	750kg / 3500kg (overrun brake)




**Torque curve 4-cylinder**
**Performance curve 4-cylinder**
**Torque curve 6-cylinder**
**Performance curve 6-cylinder**
**Aebi MT740**

VM R754EU6 turbo diesel (4 cylinder)

2970cm<sup>3</sup>

80kW (109hp) at 3000 1/min

420Nm at 1100 1/min / 40%

12 forward gears / 2 reverse gears

Hydraulically operated dry single disk clutch

4x4, on-demand front wheel drive. Optional: perm. four-wheel drive

40km/h (6.5t) or 90km/h (6.5t)

12.2m (wheel base: 2750mm) / 13.5m (wheel base 3100mm)

ZF ball-and-nut hydraulic steering

245/70R17.5

Ventilated front and rear disk brakes,  
pneumatic-hydraulic two-circuit system

Spring mechanism, works on the back wheels

90l / 14l

12V, alternator 105A, option: alternator 180A

100Ah

30l/min max. 200bar (optional: 250bar with continuous operation on  
circuit 1 with electrical monitoring)

30l/min max. 200bar and performance hydraulics 50l/min max. 180bar

As 2nd circuit + proportionally adjustable via joystick and 2 additional  
forward connections

2750mm / 3100mm

4875mm / 5325mm

1700mm

2360mm

2480kg

6500kg (40km/h) / 6500kg (90km/h)

4020kg (40km/h) / 4020kg (90km/h)

3100kg (40km/h) / 3100kg (90km/h)

4250kg (40km/h) / 4250kg (90km/h)

750kg / 3500kg (overrun brake)

**Aebi MT750**

VM R756EU6 turbo diesel (6 cylinder)

4500cm<sup>3</sup>

115kW (156hp) at 3000 1/min

500Nm at 1400 1/min / 31%

12 forward gears / 2 reverse gears

Hydraulically operated dry single disk clutch

4x4, on-demand front wheel drive. Optional: perm. four-wheel drive

40km/h (7.5t) or 90km/h (7.5t)

12.2m (wheel base: 2750mm) / 13.5m (wheel base 3100mm)

ZF ball-and-nut hydraulic steering

245/70R17.5 Optional: 225/75R17.5

Ventilated front and rear disk brakes,  
pneumatic-hydraulic two-circuit system

Spring mechanism, works on the back wheels

90l / 14l

12V, alternator 105A, option: alternator 180A

100Ah

30l/min max. 200bar (Optional: 250bar with continuous operation on  
circuit 1 with electrical monitoring)

30l/min max. 200bar and performance hydraulics 50l/min max. 180bar

As 2nd circuit + proportionally adjustable via joystick and 2 additional  
forward connections

2750mm / 3100mm

4875mm / 5325mm

1700mm

2360mm

2700kg

7500kg (40km/h) / 7500kg (90km/h)

4800kg (40km/h) / 4800kg (90km/h)

3100kg (40km/h) / 3100kg (90km/h)

4800kg (40km/h) / 4800kg (90km/h)

750kg / 3500kg (overrun brake) / 7000kg (cont. brake)





*MT740 with snow plough and hook lift*



*MT740 with truck bed*



*MT740 with civil defence attachment*



*MT740 with washing boom*



*MT720 with sweeper*



*MT740 with hook lift*



*MT720 with bridge and rear-mounted crane*



*MT740 with loader crane*





*MT720 with waste container*



*MT740 with civil defence attachment*



*MT740 with sewer cleaner*



*MT740 with platform and cover*



*MT720 with tipper*



*MT740 with tipper*



*MT740 with crane and tipper*



*MT750 army vehicle*

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We are happy to advise you!