



TP 420

Multipurpose transporter



A robust design with masses of power, a high payload and a simple operating concept combined with first-rate driving comfort – these are the defining characteristics of the Aebi TP 420. Its clean and powerful engine and exceptional power-to-weight ratio make the Aebi TP 420 a clear frontrunner in its class. With its power, the TP 420 is ideally suited for agricultural and municipal applications.

Highlights

- **Superb suspension** for the very best in driving comfort
- Spacious cabin with **panoramic windows**
- **Intuitive operating concept** with multifunctional joystick with colour guide
- **Quick device change** via four quick release fasteners

Your benefits

- **Safety in all situations:** permanent all-wheel drive, 100% lockable differentials, parking brake acts on the Cardan shaft, hydropneumatic full suspension
- **Environmentally friendly technology:** clean Euro 6c turbo diesel with 109 HP and 420 Nm torque
- **Easy access:** radiators and air filters are positioned for easy maintenance, service-relevant components are readily accessible

Performance features

Motor

The turbo-diesel engine delivers a powerful 80 kW (109 hp), has a torque of 420 Nm between 1,100 rpm and 1,400 rpm and a torque rise of 43%. The engine fulfils emission level V and Euro 6C and is exceptionally kind to the environment thanks to a particulate filter and SCR. The powerfully designed structure of the drive train allows the TP 420 to make full use of the turbo-diesel engine's enormous torque.



Driving characteristics

Chassis

The chassis of the TP 420 is available in two different versions - full suspension or front suspension only. The suspension travel of both axles is a remarkable 100 mm and, in conjunction with the modern double wishbone design, offers unrivalled driving comfort in the sector.



Gear shift

Gear shifts are effortless and precise. The reverse transmission with four gears, half-gear and two groups offers 16 forward and 16 reverse gears. Speed and half-gear can be pre-selected and shifted electrohydraulically.

Speed

Depending on the country, there are different speed options to choose from: 40km/h, (25mph), 45km/h (28mph) and 50 km/h (31mph).

Getting to grips with all wheels

Permanent all-wheel drive via longitudinal differential with 50/50% torque distribution. Longitudinal and axle differentials front and rear are 100% lockable and are electro-hydraulically activated as standard. When the vehicle is switched off, the longitudinal differential is automatically locked and the parking brake takes effect on the front and rear axle via the Cardan shaft.



Workplace

The vehicle is operated conveniently from the driver's seat with logically arranged switches and the intuitive and centrally mounted joystick. The modern display unit always provides the driver with the most important information. Even outside the cab, the driver always has a clear view of everything, thanks to the work lights fitted as standard. The heating and air-conditioning system ensures pleasant temperatures and fog-free windows. The wide opening doors allow easy and safe access to the driver's seat.



Hydraulics

The perfectly positioned hydraulic connections are located at the optimum height for coupling and uncoupling. In addition to these connections, the plug-in couplings can also be fitted at the front, further increasing the versatility of the transporter.



Agriculture

Versatility increases economic operation

The TP 420 can be used in a variety of ways. The attachments and superstructure equipment can be changed quickly and without great effort, while the variety of equipment enables applications at any time of the year. The transporter is better utilised through worthwhile inter-company assignments to increase long term profitability. The TP 420 is ideally suited to forage harvesting, while the solid construction, easy-grip all-wheel drive and the



low effort required for mounting the attachments are strong arguments for using it in **winter** as well.

Mounted and semi-mounted implements:

- Multi-blade ploughs e.g. Schmidt MPC, SNK or Tarron Compact
- Spreaders e.g. Schmidt Stratos, Schmidt Syntos
- Front sweeping brushes are used for removing smaller amounts of snow (Schmidt VKS 26 or Schmdit VKS 24)
- Snowblower

Municipal service

Summer service

- **Sweeper:** As a truck-mounted sweeper, the TP 420 cleans streets and squares in inner-city areas
- **Mower:** The front boom flail mower enables the maintenance of roadsides and road embankments.
- **Irrigation technology:** Water tank and front spray bar allow the cleaning or dust control of contaminated roads and surfaces.

Winter maintenance

The TP 420 is robustly built, powerful and manoeuvrable, and therefore ideally suited for use against snow and black ice. The four-wheel drive ensures excellent traction and, in combination with the powerful engines, effortless clearing of large quantities of snow.

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Construction Industry

Where space is at a premium, such as construction sites or narrow inner-city streets, the activated all-wheel steering system can reach even seemingly inaccessible angles. In addition, the high payload of the Aebi TP 420 offers a big plus.

Mounted and semi-mounted implements:

- Three-way tipper
- Hook lift
- Skip loader
- Cranes

Special tasks

- **Disposal:** A waste disposal superstructure or skip ensures waste disposal in smaller communities in mountainous regions even in poor driving conditions.
- **Sewer cleaning:** Sludge extraction, flushing of sewers and many other applications are made possible by the special sewer cleaning structure.
- **Construction of power lines:** The possibility of mounting double wheels all around the vehicle brings obvious advantages when constructing or maintaining overhead power lines in rough terrain. The TP 420 is suitably equipped for use on slopes, at the same time protecting the soil and climbing to even the most difficult places.



Gallery



Variants

TP 420 Agrar



The TP 420 clearly exceeds the requirements for agricultural use and will be your long lasting and powerful companion in and around the farm.

TP 420 Municipal



The TP 420 in the municipal version is specifically designed to meet the needs of city and local authorities. With its powerful drive train and intuitive operation, it is convincing all along the line.

Related product

VT 450 Vario

Multipurpose transporter



TP 410

Multipurpose transporter



Keywords

#Counties, Cities & Municipalities #Farmers & Winery Owners #Contractors #Foresters & Landscapers #Airports #Clearing Snow #Deicing #Transport #Special Solutions #Maintaining Green-Spaces #Innecity Roads #Agricultural Areas #Industrial & Port Areas #Parking Facilities & Underground Car Parks #Green Areas & Parks

Technical data

	TP 420 Agrar	TP 420 Municipal
Chassis		
Longitudinal differential with lock	yes	yes
Longitudinal differential with lock via multi-plate clutch	no	no
Hydropneumatic suspension front	yes	yes
Drive system - Engine		
Engine type	VM R754EU6C	VM R754EU6C
Number of cylinders	4	4
Exhaust emission	Euro 6c	Euro 6c
Displacement	2,970 cm ³	2,970 cm ³
Fuel	Diesel	Diesel
Performance	80 kW (109 PS) @ 2,600 1/min	80 kW (109 PS) @ 2,600 1/min
Max. torque at speed	420 Nm at 0 Nm	420 Nm at 0 Nm
Torque rise	43 %	43 %
Fuel tank	100 l	100 l
AdBlue tank	14 l	14 l
Fuel consumption	216 g/kWh	216 g/kWh
Reverse transmission forward	16	16
Reverse transmission reverse	16	16
Vario split-power stepless	no	no
Forward speed	50 km/h	50 km/h
Reverse speed	38 km/h	38 km/h
Rear power take-off shaft speed	750 1/min	750 1/min
Powershift rear take-off shaft	yes	yes
Hydraulic system		
Standard hydraulics flow rate	40 l/min / 200 bar	40 l/min / 200 bar
Additional hydraulics flow rate	40 l/min / 200 bar	40 l/min / 200 bar
Power hydraulics flow rate	100 l/min / 300 bar	100 l/min / 300 bar
Front lifting mechanism (optional) lifting force	2,000 kg	2,000 kg
Brakes		
Hydraulic dual-circuit brake	yes	yes
Hill-holder function	option	option
Parking brake mechanical	yes	yes
Parking brake hydraulic	no	no
Wear-free brake	option	option
Steering		
Front steering	yes	yes
All-wheel steering	option	option
Rear steering	option	option
Crab steering	option	option
Front-wheel steering turning circle radius - short wheelbase	5,700 mm	5,700 mm
Front-wheel steering turning circle radius - long wheelbase	6,400 mm	6,400 mm
Four-wheel steering turning circle radius - short wheelbase	4,000 mm	4,000 mm
Four-wheel steering turning circle radius - long wheelbase	4,300 mm	4,300 mm
Tyres		
Double tyres front and rear	option	option
Equipment		
Full-view cab with heating and defrosting system	option	option
Radio pre-installation	yes	yes
On-board computer	yes	yes
Air conditioning	option	option
Air Multifunctional control lever	no	no
Speed		

	TP 420 Agrar	TP 420 Municipal
Transportation speed	40 km/h / 45 km/h / 50 km/h	40 km/h / 45 km/h / 50 km/h
Dimensions		
Width by tyres	1,950 - 2,500 mm	1,950 - 2,500 mm
Width by cabin	1,900 mm	1,900 mm
Height by cabin	2,300 mm	2,300 mm
Length	4,684 mm / 5,084 mm	4,684 mm / 5,084 mm
Wheelbase	2,750 mm / 3,150 mm	2,750 mm / 3,150 mm
Weights		
Empty weight without mounting	2,950 kg / 3,200 kg	2,950 kg / 3,200 kg
Total weight	8,000 kg / 8,500 kg	8,000 kg / 8,500 kg
Max. permissible load capacity	5,050 kg / 5,300 kg	5,050 kg / 5,300 kg
Max. permissible front axle load	3,700 kg / 4,200 kg	3,700 kg / 4,200 kg
Max. permissible rear axle load (tyre dependent)	4,800 kg / 5,200 kg	4,800 kg / 5,200 kg
Towing capacity unbraked	1,495 kg	1,495 kg
Towing capacity braked (overrun brake system)	6,000 kg	6,000 kg



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