

TP 420

Transporter

ting concept combi-

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 108 HP and 309.8 foot-pounds 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 (108 hp), has a torque of 309.8 foot-pounds 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 3.9 in 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: 25, 28, and 31 mph.

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 airconditioning 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 Schmidt 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.

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 Schmidt VKS 24)
- Snowblower

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.



Loading wagons

To find out more about loading wagons visit https://www.aebi-schmidt.com/en/products-solutions/more/#aebi-loading-wagons

Gallery



Variants

TP 420 Agriculture



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

TP 410 Transporter



TP/VT 470 Vario Transporter



Trust in our many years of uniquely diverse experience. **Get in touch with us.** We'll find the right solution for your specific challenge.

Technical data

	TP 420 Agriculture	TP 420 Municipal
Chassis		1
ongitudinal differential with lock	yes	yes
ongitudinal differential with lock via multi-plate	no	no
lydropneumatic suspension front	yes	yes
rive system - Engine		
ngine type	FCA R754EU6C	FCA R754EU6C
umber of cylinders	4	4
xhaust emission	Euro 6c	Euro 6c
isplacement	181.2 in ³	181.2 in ³
uel	Diesel	Diesel
erformance	80 kW (108 HP) @ 2,600 1/min	80 kW (108 HP) @ 2,600 1/min
lax. torque at speed	420 Nm @ 1,100 1/min	420 Nm @ 1,100 1/min
orque rise	43 %	43 %
uel tank	26.4 gal	26.4 gal
dBlue tank	3.7 gal	3.7 gal
uel consumption	0.5 lb/kWh	0.5 lb/kWh
everse transmission forward	16	16
everse transmission reverse	16	16
ario split-power stepless	no	no
prward speed	31 mph	31 mph
everse speed	24 mph	24 mph
ear power take-off shaft speed	750 1/min	750 1/min
owershift rear take-off shaft	yes	yes
ydraulic system		
tandard hydraulics flow rate	7.9 gal/min / 2,900.8 PSI	7.9 gal/min / 2,900.8 PSI
dditional hydraulics flow rate	10.6 gal/min / 2,900.8 PSI	10.6 gal/min / 2,900.8 PSI
ront lifting mechanism (optional) lifting force	4,409 lb	4,409 lb
rakes		
ydraulic dual-circuit brake	yes	yes
ill-holder function	option	option
arking brake mechanical	yes	yes
arking brake hydraulic	no	no
/ear-free brake	option	option
teering		
ront steering	yes	yes
II-wheel steering	option	option
ear steering	option	option
rab steering	option	option
ront-wheel steering turning circle radius (short heelbase)	224.4 in	224.4 in
ront-wheel steering turning circle radius (long //heelbase)	252 in	252 in
our-wheel steering turning circle radius (short //heelbase)	157.5 in	157.5 in
our-wheel steering turning circle radius (long //	169.3 in	169.3 in
/res		
ouble tyres front and rear	option	option
quipment		
ull-view cab with heating and defrosting system	option	option
adio pre-installation	yes	yes
Dn-board computer	yes	yes
sir conditioning	option	option

	TP 420 Agriculture	TP 420 Municipal
Air Multifunctional control lever	no	no
Speed		
Transportation speed	25 / 28 / 31 mph	25 / 28 / 31 mph
Dimensions		
Width by tyres	76.8 - 98.4 in	76.8 - 98.4 in
Width by cabin	74.8 in	74.8 in
Height by cabin (dependent on tire & load)	90.6 in	90.6 in
Length	184.4 / 200.2 in	184.4 / 200.2 in
Wheelbase	108.3 / 124 in	108.3 / 124 in
Weights		
Empty weight without mounting	6,504 / 7,055 lb	6,504 / 7,055 lb
Total weight	17,637 / 18,739 lb	17,637 / 18,739 lb
Max. permissible load capacity	11,133 (11,685 lb)	11,133 (11,685 lb)
Max. permissible front axle load	8,157 (9,259 lb)	8,157 (9,259 lb)
Max. permissible rear axle load (tyre dependent)	10,582 (11,464 lb)	10,582 (11,464 lb)
Towing capacity unbraked	3,296 lb	3,296 lb
Towing capacity braked (overrun brake system)	13,228 lb	13,228 lb



© Aebi Schmidt Group www.aebi-schmidt.com

Aebi Schmidt North America Inc. Chilton, WI 53014, USA

All rights reserved. Technical data is subject to change. Illustrations are not binding. Errors and amendments excepted.

Document created on 11 FEB 2024

○ f ▶ in ○