

Technical Overview

The table below shows an overview of the performance capability of our hydraulic systems, and shows you which system will be best suited to your specific application.

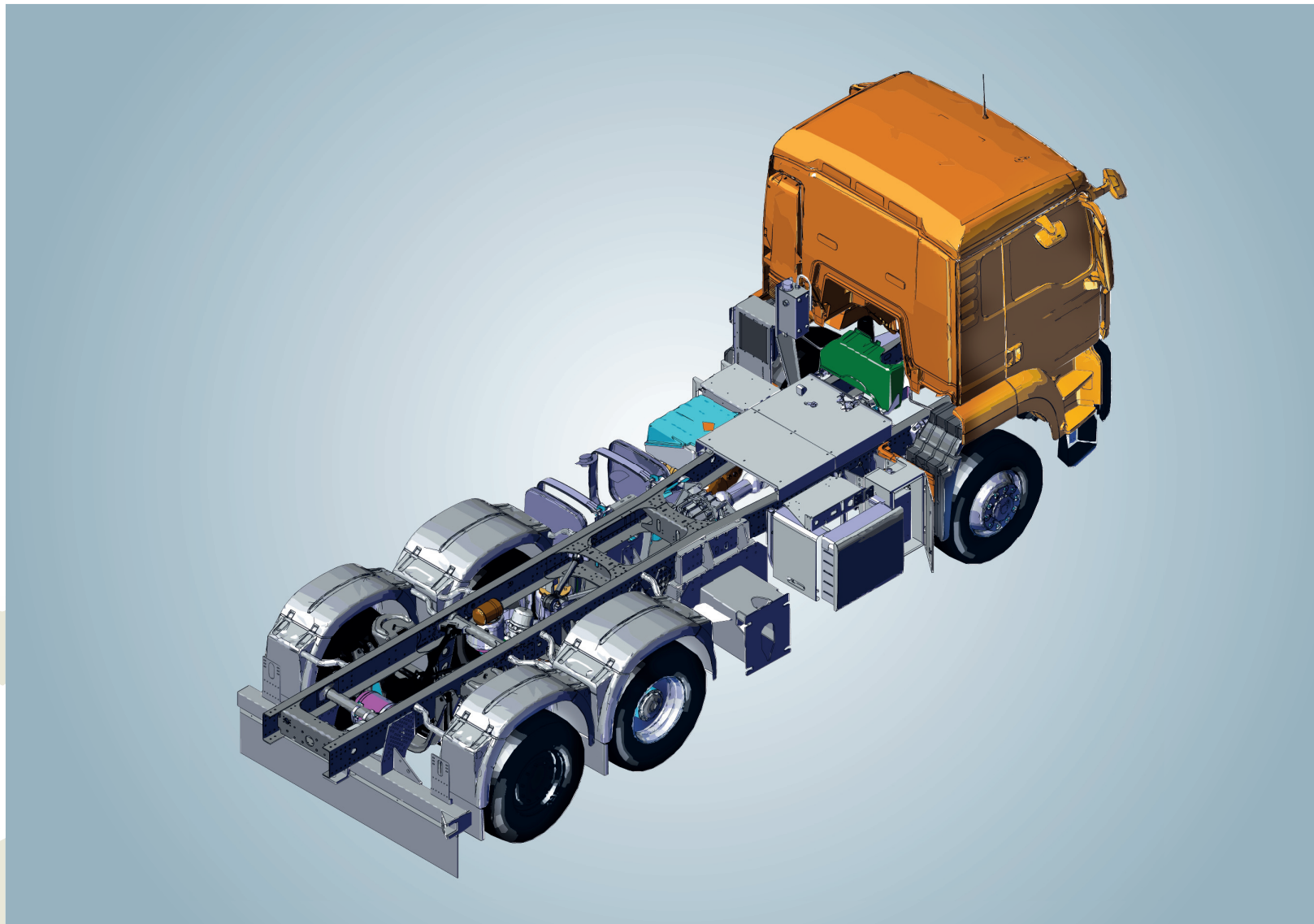
	Econamic	Ecomatic
Constant-speed system: Number of additional / expansion devices: <= 2	✓	
Load-sensing technology: Number of additional / expansion devices: <= 2		✓
Load-sensing technology: Number of additional / expansion devices: > 2		✓
Hydraulic pump used	Tandem pump	Axial piston-type variable displacement pump
Maximum number of hydraulic circuits (Number of possible attachments)	2	7
Maximum hydraulic power	1st circuit 20 ltr / 2nd circuit 40 ltr	Variable, max. 90 ltr
Main advantages	Low procurement cost, small space requirement, high reliability	Load-sensing technology, low motor speeds, reduced noise levels, sandwich design of the valve block for the greatest possible flexibility in supplying diverse consumers

Further additional equipment

- Stainless steel pipework including anti-corrosion protection
 - Wax preservation of corrosion-endangered components
 - Front additional lighting (winter operation)
 - Rotary beacon lights and flashing light systems
 - 3-pin socket for front plough lighting
 - Shovel and broom holder (double shank holder)
 - HGV frame cover (aluminium) between the driver's cab and tipper
- Storage box (toolbox) small
Stainless steel (L600 x H400 x D500)
 - Storage box (toolbox) large
Aluminium (L2150 x H750 x D600)
 - Trailer socket
 - Extendable access ladder
 - Fire extinguisher ABC 6 kg
 - 360° HGV all-round view camera system



BMU_KOMMUNALHYDRAULIK_EN_rev01 - 01-05-2018 - we reserve the right to make changes to technical and design aspects. The illustrations may depict special equipment or additional equipment which is not part of the standard specification.



Concept – Installation – Services
We offer vehicles as complete solutions

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Econamic and Ecomatic
Customised public utility hydraulic design

Bucher Municipal – your specialist for customised municipal hydraulic systems

Bucher municipal hydraulic systems are available as constant hydraulic systems designated “Econamic“ or as load-sensing hydraulic systems designated ”Ecomatic“.

Econamic hydraulic systems deliver constant volumes of oil to a maximum of two different hydraulic circuits. For instance in winter operation a snowplough and a spreader unit can be supplied. A tandem pump directly flanged on to the engine power take-off drive of the vehicle then supplies the front plough with a maximum of 20 litres of hydraulic oil, and the second circuit for the spreading unit with a maximum of 40 litres. Each of the two hydraulic circuits is thus fully dedicated to its respective consumer. Of course the Econamic municipal hydraulic system is also available as a single-circuit hydraulic system. The valve block and the black box for the controls are installed in an enclosed equipment cabinet. On request, a combination equipment cabinet with an integral hydraulic tank is available.

Ecomatic hydraulic systems on the other hand use load-sensing technology. They incorporate a hydraulic control system which matches the delivery volumes precisely to the instantaneous demands of one or more consumers. This allows it to supply snowploughs, spreader units, side ploughs, front-mounted sweepers, top-mounted tippers, cranes etc. The hydraulic supply to the entire LS system is provided by an axial piston-type variable displacement pump which also is directly flanged on to the engine power take-off drive of the vehicle. If desired, a clutch can be installed between the power take-off drive and the variable displacement pump, so that the drive can be disconnected from the pump. The axial piston-type variable displacement pump permits any delivery volume in the lower engine speed range. The advantages of the proportional valve technology used lie above in the reduction of the noise level thanks to low engine speeds, the reduction in operating costs and also the flexible sandwich design.

These advantages speak for themselves:

Ecomatic with proportional valve technology

Selective measurement of the instantaneous demand direct to the consumer – high energy efficiency

Ecomatic with fine adjustment of the consumers

Adjustment of speed and sensitivity of the hydraulic systems directly from the control panel

Econamic – the economical constant-speed system

High level of commercial efficiency and low maintenance costs

Comprehensive product portfolio

As supplier of complete solutions for Municipal and winter operations technology

Conception and development

Demand-driven planning and professional execution of the necessary processes

Customer-oriented service

Comprehensive dealer network and trained customer service stations



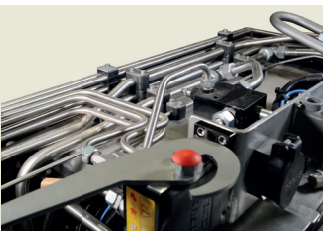
Access ladder (optional)

Made of stainless steel throughout, and individually matched to the vehicle. With retaining clamp, and adjustable depth.



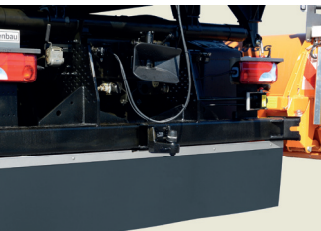
Snow clearing light

On request, different lighting systems such as additional front headlights or rotary beacon lights and flashing light systems can be supplied.



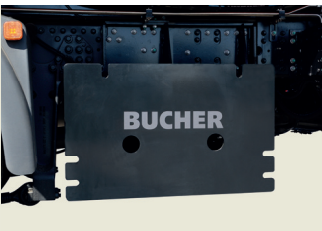
Stainless steel piping

All connections are made of stainless steel piping instead of hydraulic hoses. On request with additional wax-based anti-corrosion protection.



Underrun protector

In a particularly sturdy design for installing a bolt-on ball-head coupling for attaching car trailers and for mounting side snow ploughs.



Side attachment plates

On the right side of the vehicle (plough plate size F1) to DIN EN 15432, height can be adjusted, additional adapter plates are available for ploughs from different manufacturers.



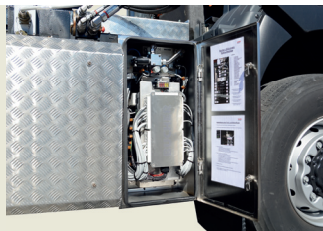
Front mounting plates

To DIN EN 15432, optimally designed for combinations of vehicle-mounted equipment, the height can be adjusted.



Clutch with its own oil tank

If desired, a clutch can be installed between the power take-off drive and the hydraulic pump. This allows the drive to be disconnected and prevents damage.



Equipment cabinet (Ecomatic series)

High-quality stainless steel equipment cabinet for the electronics and the hydraulic valves. For Econamic a combination equipment cabinet with an integral hydraulic tank is available on request.

Innovative control technology



Wachendorf hydraulic terminal (optional)
Wachendorf type OPUS A3S for visualisation and control of the Ecomatic hydraulic system in conjunction with one or more joysticks.



Jetter hydraulic terminal (optional)
Jetter type JVM 104 for visualisation and control of the Econamic. Ecomatic hydraulic systems in conjunction with one or more joysticks.



Joysticks for driver and co-driver (optional)
The various operating units are controlled by a type "b-Drive-Cab-Control". On request this can be configured as an armrest unit.