MULAG

Innovative Technology for Roadside Maintenance

Rear Mounted Power Arm

SB 500/600

Unimog

A new and improved level of international cooperation between MULAG and Daimler AG has begun with the development of the Unimog U300-U500 and the new U20:

Developing the equipment system partnership, which stands for joint development of high quality, perfectly coordinated drive concepts and interfaces, plus continuous evolution of the systems, **an international strategic cooperation is born between MULAG and Daimler AG.**

It benefits from MULAG's international set up with strong distributors and therefore worldwide availability of high-quality attachments to be fitted onto UNIMOG for municipal use all year round – **MULAG is renowned for quality.**

MULAG Rear mounted Power Arm SB 500/600

- Very high levels of operator comfort
- Integrated grass collection
- Automatic ground sensing
- Wide working ranges

Taking advantage of the payloads with the SB-series

Our rear mounted arm SB 500/600 is mounted onto the vehicle platform or platform frame and is designed to be used in combination with a verge mower and an optional reflexion post mower. The combination ensures an ideal weight distribution on both vehicle axles. As a consequence, the pay loads available can be used optimally, without losing the important driving dynamics.

The SB-series combines the advantages of the telescopic arm and the Mähtronic proportional control in a powerful mower and grass collection system. A heavy-duty double arm construction with ideal hose protection makes the SB 500/600 extremely reliable.

Even without grass collection, the mower can be used for mulching making this machine very flexible.

The flexible MULAG boom system

The drive is provided either via vehicle power hydraulic system, via engine auxiliary drive (N05) or via rear PTO-shaft (SBU). Besides mowing the MULAG boom systems are able to carry out many other tasks. This ensures year-round utilisation. Via the quick-change-device the different working implements can be exchanged quickly.

Best protection for the grass collecting hose

To prevent the grass collecting hose from being damaged, it is positioned between the boom profiles – both in right-hand and left-hand operation without causing any adverse effect to the hoses.

In the front boom assembly, the collected cuttings are led through an elbow tube and steel-made telescopic conveying pipes.

Professional combination SB 600 with front mower MKF 600

SB 500/600 in details – professional options, v

Right-hand and left-hand operation

For an easy change-over of the rear mounted power arm from right to left-operation an optional rotating assembly is available. This makes the conversion possible without dismantling the mower from the carrier vehicle: Thus the conversion can be directly carried out on site and does not require any lifting devices or a workshop. In a few steps the vehicle is converted and ready for operation again.

Hydraulic wheel support

Before mowing it is necessary to lock the suspension of the rear wheel axle using an external wheel support. The hydraulic wheel support can be operated from the control panel in the driver's cab and enables the lining up of the vehicle automatically.

This device increases safety at work and comfort for the driver – and is a very efficient assistance in one-man-operation. The vehicle is ready for operation very quickly – in particular in mowing areas, which are often disrupted by obstacles, such as tunnels.

Hydraulic wheel support

CAN-Bus Control System

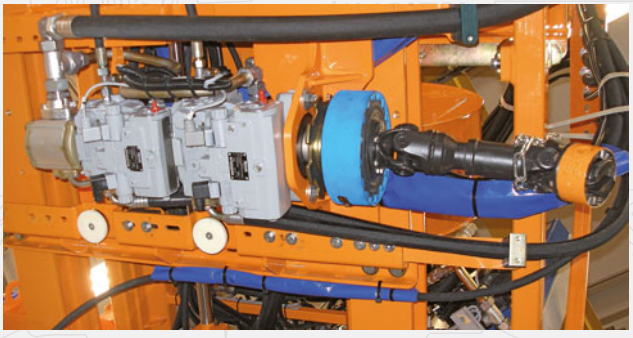
The individual system components (i.e. control unit, controller and control block) work together using the CAN-Bus System. Our control units are available in different models, even for the most demanding control jobs in combined use. The integrated diagnostic system identifies faults instantly.

Multifunction joystick

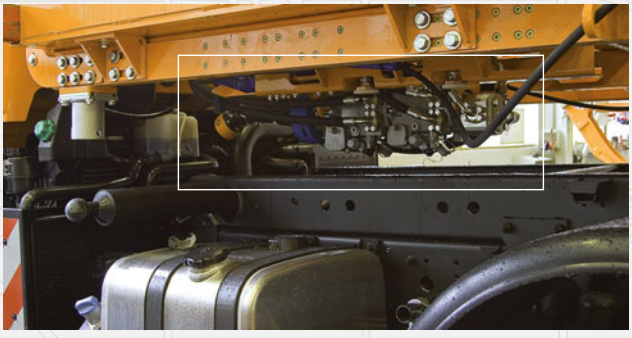
Armrest seat control (optional)

Hydraulic drive using the rear live engine PTO (N05) of the Unimog

Instead of the vehicle power hydraulics it is possible to use a hydraulic chain connecting to the rear live engine PTO of the Unimog (N05). Thus the power drive stays independent of gear selection. The hydraulic power drive can be easily disconnected from the rear live engine PTO using the quick-change coupling of the drive chain and can be dismounted from the Unimog together with the power arm itself since both are fitted onto the subframe.



Hydraulic drive chain with quick-change coupling



Connecting the drive chain to the N05 flange of the Unimog

which are highly effective in daily operation

Protection for tank and radiator

This solid steel pipe assembly is fitted on the underside of the frame and prevents the Unimog tank and radiator from being damaged.

Hydraulic rotating device

This hydraulic rotating device enables to place the attachment directly into working position without any manual handling or without getting out of the cabin.

Hydraulic lateral shift

In operation it is extremely important to be able to evade possible obstacles. This is also the perfect solution to achieve a high working speed. Here the hydraulic lateral shift shows its strength by enabling the mowing equipment to slide up to 800 mm without stopping operation.

Lateral shift – the advantages convince in operation

Lateral shift in details

Cuttings Trailer MHT 800

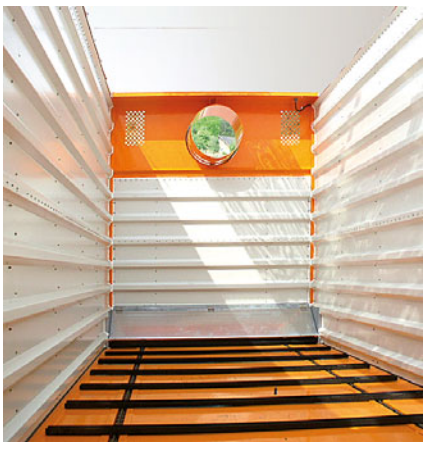
With the specially developed cuttings trailer MHT 800 the SB series becomes a complete professional concept. Its solid frame construction and sheeting/coating made of galvanized trapezoidal sheet metals, as well as a roof cover with an air-permeable tarpaulin makes the MHT 800 ready for heavy – duty work. The central axle trailer, implemented in modern pendulum axle construction, is equipped with a vertically adjustable draw bar to adapt to different coupling heights.

Emptying is made simple: A hydraulically driven integrated scraper floor allows a continuous emptying of the cuttings.

Technical Data

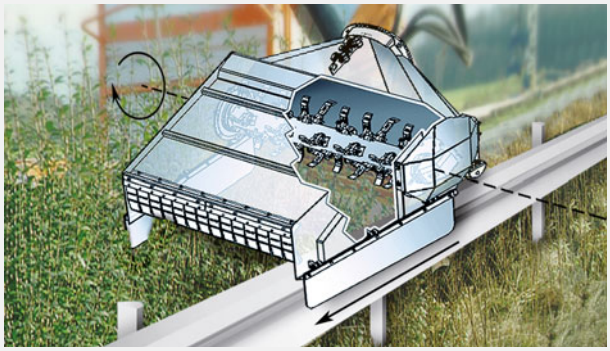
- Tandem axle design with ALB-brake system, including Antilock braking system, ABS
- Capacity for cuttings: 20 m^3
- Pay load: 5200 kg
- Total weight: 8000 kg
- Max. load: 500 kg
- Maximum speed: 100 km/h
- (optional) hydraulic back door

With the Cuttings Trailer MHT 800 the evacuation of debris is a clean process.



Operation on motorways – strength of the SB series

The SB series can be used with a large selection of implements, in particular with mowing heads up to 1.6 m working width. With the Hedge Cutting Head HSK 1200 for example it is possible to cut the vegetation above the crash barrier along the motorway central reservation. Thanks to the integrated grass collection, a further working step is no longer necessary to evacuate the cuttings – it saves time and reduces traffic congestion.



Operating mode of the Hedge Cutting Head HSK 1200

Hedge Cutting Head HSK 1200

In particular the HSK 1200 proves its high efficiency in operation on motorways:

- Direct drive via axial piston motor
- Working speed depending on growth: up to 4 km/h
- Mowing width: 1200 mm
- Total width (outside width): 1500 mm
- Max. speed of flail shaft: 2900 rpm
- Weight: about 310 kg
- Power consumption: about 35 kW
- Hydraulic oil pressure: 240 bar maximum at 88 l/min

Litter Picking Head USK 1200

The USK 1200 facilitates picking up rubbish such as bottles, paper, cans etc. This working attachment proves very efficient - in particular by operation on the central reservation and hard shoulder of the motorway.

- Working width about 1200 mm
- Hydraulic drive
- Working speed depending on growth up to 4 km/h
- Water sprayer to avoid dust formation (option)

MULAG – The answer to all questions in the field of road maintenance

The modular concept of MULAG power arms and its wide range of working attachments makes their use economical and efficient: All tasks of road maintenance can be handled in a flexible and quick way.

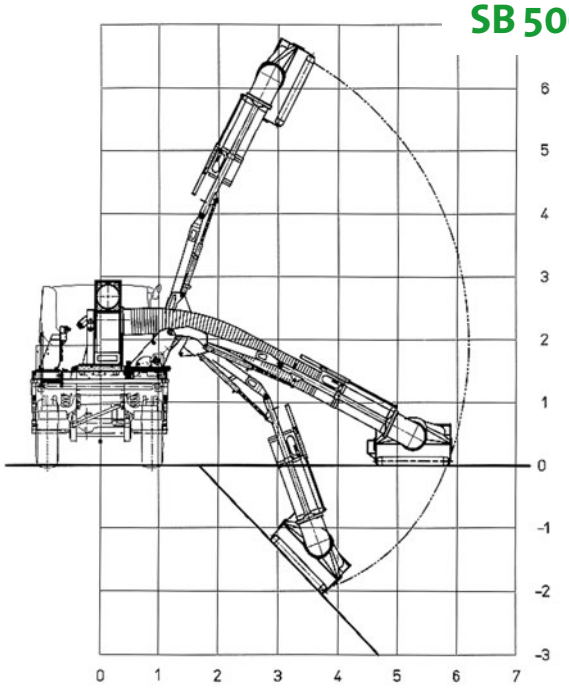
Due to the high quality of workmanship downtime can be reduced and long repair times can be avoided. We can offer you conclusive solutions for roadside maintenance.

Technical Data SB 500 / SB 600

Designed for Model	U 300 - U 500 / SBU (depending on the vehicle features)
Type of fitting	Platform or Platform Frame Extension
Reach	6,1 m / 7,0 m, right- and left-hand side (750 mm / 800 mm with telescopic arm)
Lateral shift	800 mm (option)
Drive	- power hydraulics of the vehicle - Additional auxiliary drive (05) - Rear PTO-shaft (SBU)
Cutter Shaft Control	Electrical with Safety-Stop within approx. 4 sec.
Control	- Electro-hydaulic with optional proportional automatic power arm relief control Mähtronic - One-hand control panel with multi-function joystick and operator information system

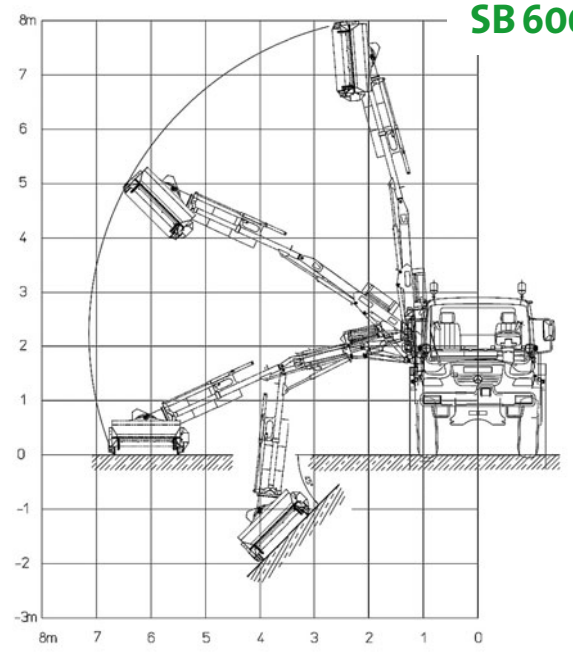
Rear-Mounted power arm SB 500 in transport position

SB 500



Reach diagram of the SB 500

SB 600



Reach diagram of the SB 600

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