

TOP MOUNTED OUTRIGGER DAM 900 / DAM 1050



Top mounted outrigger DAM

The Dücker top mounted outrigger DAM is a completely new designed universal working arm for system carriers with a platform body. A suitable platform base frame is mounted on the top of the carrier vehicles. On this frame, the extension arm is on a hydraulically displaceable carriage so that it can be rotated by 250°.

The moveable outrigger enables the operator to work on both sides of the vehicle directly next to the vehicle up to a maximum reach of 9.10 m with the DAM 900 and 10.30 m with the DAM 1050. Sensors prevent collisions with the superstructure of the carrier vehicle.

The outrigger itself consists of three arms and a deflection arm. On the DAM 1050 top mounted outrigger, the third arm is telescopic. The outrigger can be swivelled steplessly forwards and backwards and, thanks to the long reach, can be positioned right up to the front in the operator's field of vision. This allows an optimal overview when positioning the attachments.

The hydraulic drive of the attachment and the oil supply for the arm movements are provided by the carrier vehicle. Alternatively, the hydraulic drive and the oil supply can be provided by a hydraulic system driven by the vehicle and integrated in the implement.

A hydraulically controlled counterweight runs at the rear of the frame so that the vehicle with the outrigger retains its stability in every situation.

In transport position, the outrigger is folded back and placed on the base frame.

You will find the technical data on page 10, the range diagrams on page 8/9 and the various attachments on page 11.



The DAM 1050 mowing a slope



The hydraulically displaceable counterweight



Transport position of the DAM Top mounted outrigger

DAM 1050 top mounted outrigger with flail mower head VMS 1200



Heavy construction

The slider can be moved sideways by means of hydraulic cylinders via rollers with ball bearings.

A hydraulically controlled counterweight runs at the rear of the frame so that the vehicle with the outrigger retains its stability in every situation.

The base frame with slider, the rotating column, the deflection arm and the outrigger arms are made of a heavy welded steel construction. For optimum protection against twisting or bending, a hexagonal profile is used for the arms. Fixed steel hydraulic lines are neatly routed on the outrigger arms.



The slider can be moved on ball-bearing rollers



The sliding of the slider via hydraulic cylinder



Fix laid steel hydraulic lines

detailed technical solutions

At the end of the last outrigger arm, a 2-axle turning device with a centric tool connection to accommodate the attachments with a swivelling range of 180° horizontally and 250° vertically.

When the outrigger is swivelled back and forth, the attachment is automatically guided parallel to the vehicle without the need for readjustment. Other working positions can also be preset and guided parallel to the vehicle.

The ground adaptation of the attachment is optimally ensured by means of the proven Dücker-Tasttronic.



Device connection with 2-axle rotating device



Axle support of the base frame



When the outrigger is swivelled backwards and forwards, the implement is automatically guided parallel to the vehicle

Simple assembly

The platform intermediate frame is mounted on the carrier vehicle with a tool-free locking system. This tool-free locking system and the hydraulic parking supports ensure simple and safe dismantling of the base frame and outrigger.

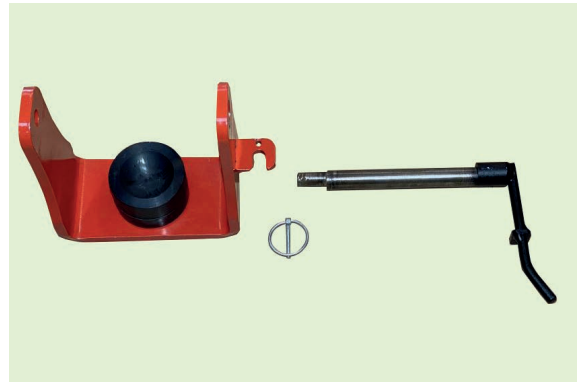
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Hydraulic parking supports movable on rollers



Mounting on the platform intermediate frame with tool-free locking enables easy assembly



Easy dismantling of base frame and outrigger



DAM 900 top mounted outrigger with AWS 22 hedge cutter

The controls of the DAM

The complex controls of the top mounted outrigger and the implement are ensured by an electro-hydraulic proportional CAN-Bus control with multicontroller and touch display.

All functions can be operated either via the touch display or via the rotary encoder in the multicontroller. All operating and diagnostic data can be called up via the colour display. Additional control functions such as LED-lighting, water pumps or fans are also activated here.

When used with other Dücker front-mounted machines, control of several attachments can be assigned to one joystick.



Joystick with Multicontroller and Rotary Encoder



The Dücker TouchDisplay



The Dücker-Tasttronic on the flail mower VMS 1200

The Dücker Tasttronic

The fully encapsulated signal detection integrated in the mower head enables automatic and very precise level adjustment. This allows safe working at high driving speeds. The Tasttronic has no moving adjustment parts that are sensitive to dirt and dust. Signals are recorded via bending and torsion measurements by means of strain gauges.

It also shows its strength when working on opposite slopes, even if the driver does not drive at a precise distance. Of course, the Tasttronic can be overridden or switched off at any time. An Emergency-STOP function provides the necessary safety. The Tasttronic is gentle on the outrigger, the mowing head and the turf. The operator concentrates on driving and traffic, the mowing work is largely automatic.

The Dücker-Tasttronic guides the mowing head safely over the opposite slope



Top mounted outrigger DAM as mower combination

By mounting the DAM on the top of the vehicle, it is possible to mount Dücker front outrigger and mower combinations at the front of the carrier vehicle. This allows up to three mowing heads to be used simultaneously.

You will find the technical data on page 10, the range diagrams on page 8/9 and the various attachments on page 11.



DAM top mounted outrigger in combination with the Dücker MK 25 mower combination



The mower combination with three mower heads enables 3 cuts to be mown in one pass

Mower combination consisting of MK 25/800 and DAM 900 in use on the Unimog



The control of the mower combination

The control unit of the mower combination consists of either one or two **joysticks**, a **multi-controller** and a **touch display**. The **joystick** operates all outrigger arm movements proportionally, the second joystick serves for controlling of the edge-strip mower.

Automatic functions such as Tasttronic can be activated by pressing a button. **On customer request, the outrigger and edge-strip mower functions can be factory set on a joystick.**

The **multicontroller** switches all functions immediately necessary for mowing operation. The built-in **rotary encoder** is used for display navigation and for selecting and setting various device functions.

The high-resolution 7-inch **touch display** displays the current operating states; basic settings can be changed using the touch function. It is easy to read even in unfavourable conditions such as sunlight.

Next to the rotary encoder in the keypad of the multicontroller, the display can also be directly navigated via the touch display.

All components are interconnected via a CAN BUS system.



DAM as mower combination in transport position



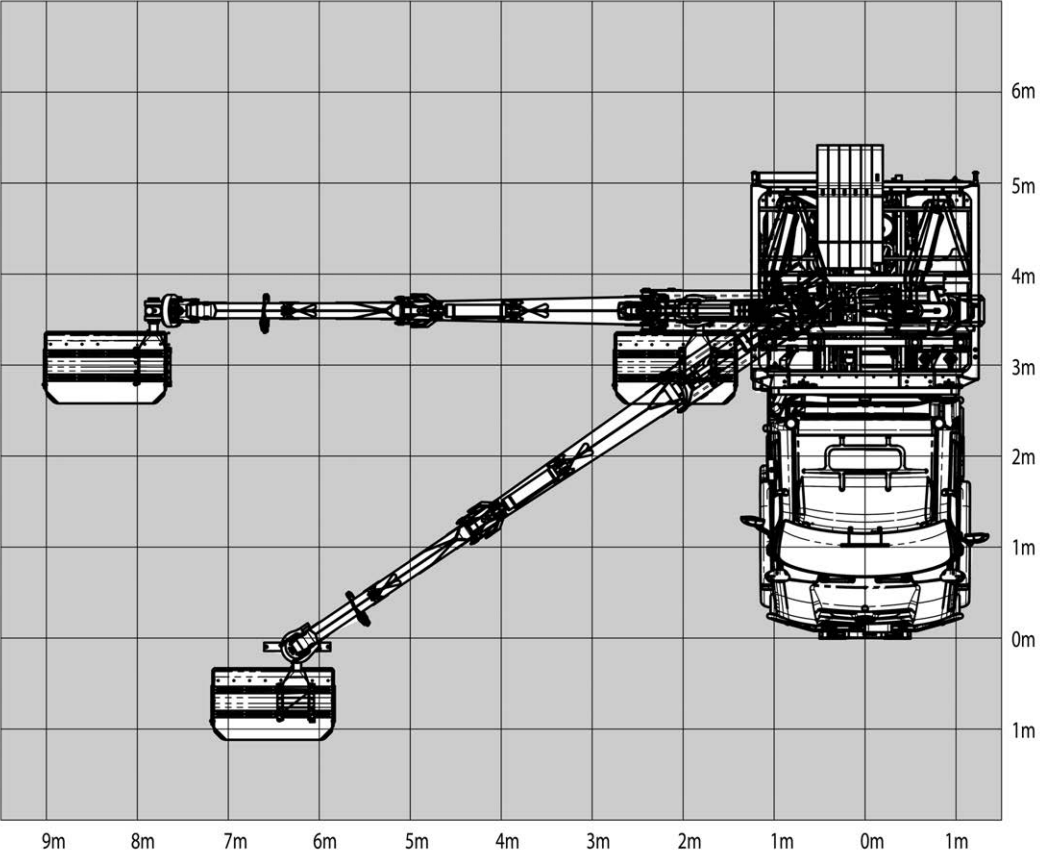
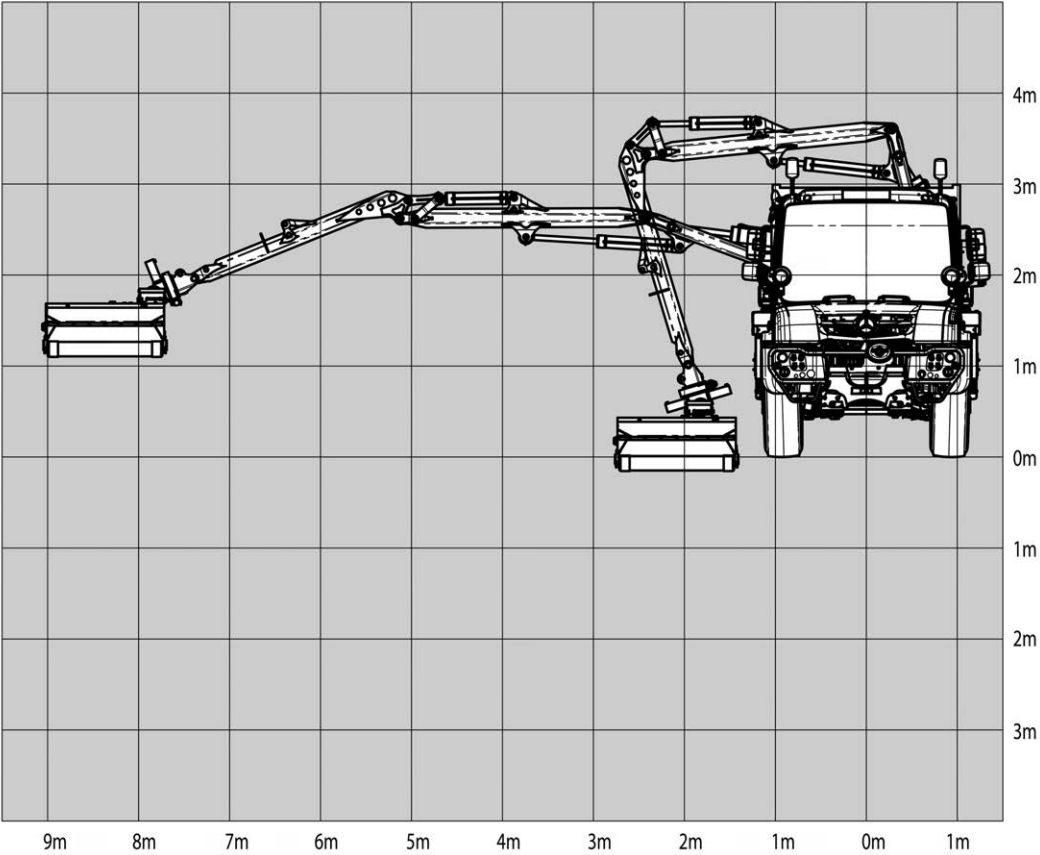
Mower combination control



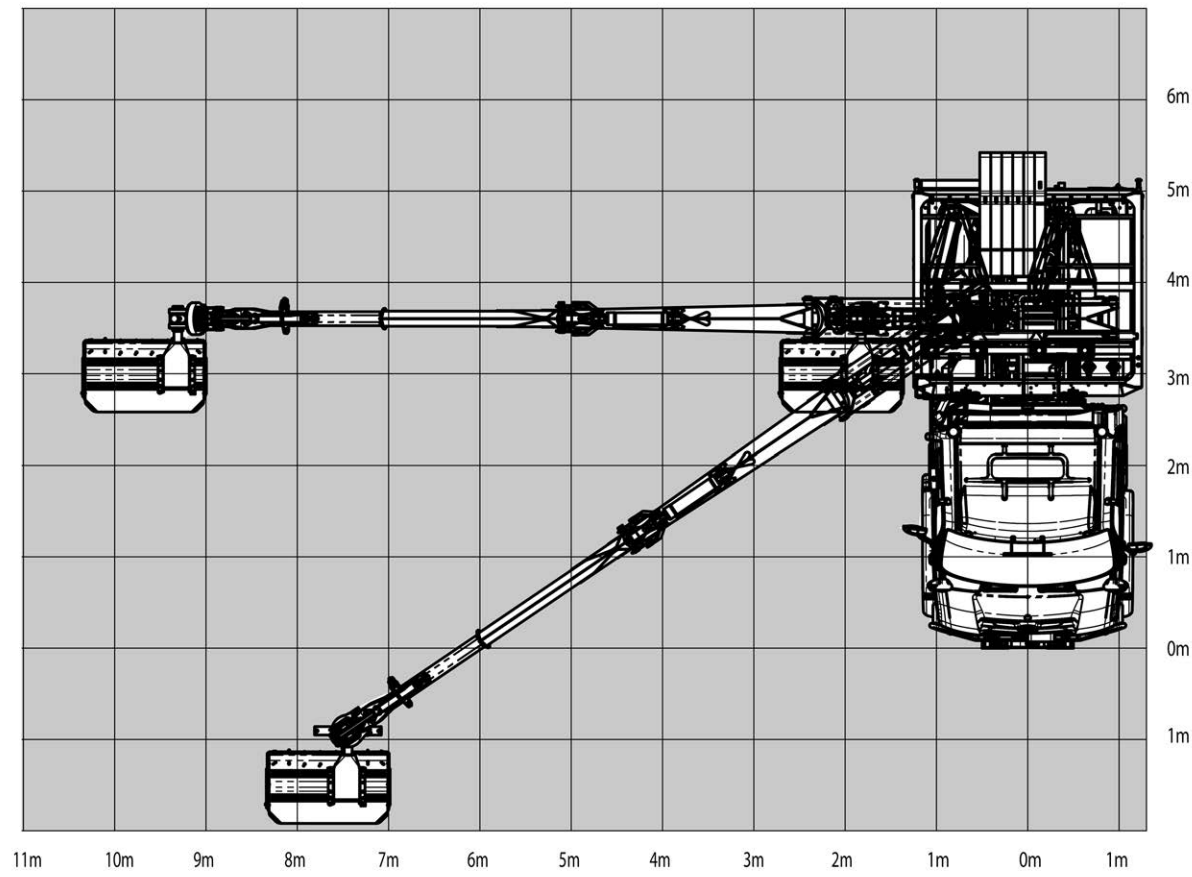
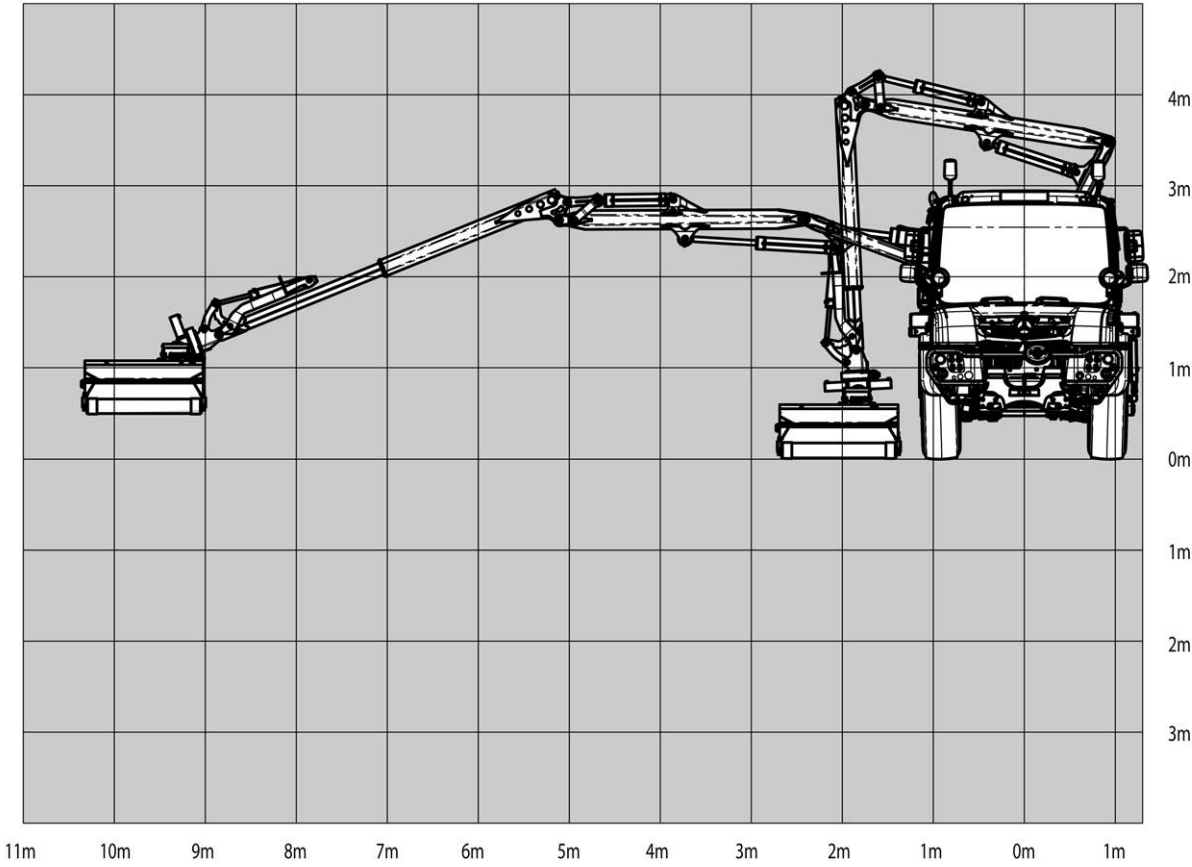
The Dücker TouchDisplay



Reachment DAM 900



Reachment DAM 1050



Technical data

Outrigger	DAM 900	DAM 1050
Reachment	9,10 m	10,30 m
Transport width	2,52 m	2,52 m
Weight of basic unit	4,3 – 4,6 t depending on ballasting	4,6 – 4,9 t depending on ballasting
Slide	1,60 m	1,60 m
Slewing angle of attachment	250° slewing / 180° turning angle	250° slewing / 180° turning angle
Right and left hand operation	yes, symmetrical	yes, symmetrical
Drive for attachments	280 bar, 90 l (if necessary 300 bar)	280 bar, 90 l (if necessary 300 bar)
Control system	Can-Bus control, Sensor bus with teach-in sensors	
Mounted	Topmounted	Topmounted



Dücker attachments



VMS 1200
Flail mower head
 Working width: 1220 mm
 Revolutions of shaft: 2400 rpm
 Weight: 320 kg



VMS 1200 Eco
Eco mower head
 Working width: 1220 mm
 Revolutions of shaft: 2400 rpm
 Weight: 320 kg



AWS 13 / 22
Branch and wall hedge cutter
 Working width: 1300 / 2200 mm
 Cutting thickness: up to 110 mm
 Weight: ca. 160 kg / 230 kg



LPS 20
Clearance-gauge-saw
 Working width: 2000 mm
 Revolutions of saw blades: 2600 rpm
 Weight: ca. 220 kg



DMW 15
Double-knife cutter
 Working width: 1500 mm
 Weight: 110 kg



GSF 600
Ditch bottom cleaner
 Working width: 600 mm
 Revolutions of shaft: 800 rpm
 Weight: 230 kg



PFP 600 / 900
Pavement cleaner
 Working width: 600 / 900 mm
 Revolutions of shaft: 150 rpm
 Weight: 140 kg / 190 kg



RWB 600
Radial weed brush
 Working width: 600 mm
 Revolutions of shaft: 150 rpm
 Weight: 320 kg



DBR 1800 / 2000
band screen
 Working width: 1800/2000 mm
 Revolutions of shaft: 450 rpm
 Weight: 230 / 250 kg



DKH 2000
Rotary rake
 Working width: 2000 mm
 Revolutions of shaft: 170 rpm
 Weight: 250 kg



TTM 13
Flail mower head
 Working width: 1300 mm
 Revolutions of shaft: 2800 rpm
 Weight: 270 kg



GMK 12 Brushwood-mower-head
 Working width: 1200 mm
 Cutting thickness: up to 60 mm
 Revolutions of shaft: 2700 rpm
 Weight: 350 kg



HDB 20
High pressure water bar
 Working width: 2000 mm
 Weight: 40 kg



LPW 500 Reflector post- and signs-cleaner
 Working width: 500 mm
 Revolutions: max. 375 rpm
 Weight: 150 kg



SWA 900
Sign washer machine
 Width of brush: 900 mm
 Revolutions of brush: 250 rpm
 Weight: 155 kg



TWA 18 / 21
Tunnel washer
 Width of brush: 1800/2100 mm
 Revolutions of brush: 280 rpm
 Weight: 285 / 300 kg

Technology for environmental landscape maintenance and agriculture



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