

DÜCKER Working Equipment



TMK 10/13
Flail-Mower-Head
Working width: 1000/1300 mm
Revolutions of shaft: 2200 rpm
Weight: 180 kg/210 kg



MKL 10
Flail-Mower-Head
Working width: 1000 mm
Revolutions of shaft: 2700 rpm
Weight: 180 kg



MKT 10/13
Flail-Mower-Head
Working width: 1000/1250 mm
Revolutions of shaft: 2100 rpm
Weight: 240 kg/270 kg



VMS 1200
Flail-Mower-Head
Working width: 1220 mm
Revolutions of shaft: 2400 rpm
Weight: 320 kg



HSL 15
Cuttersystem
Working width: 1500 mm
Cutting thickness: until 30 mm
Weight: approx. 85 kg



HS 16/20
Hedge-Cutter
Working width: 1600/2000 mm
Cutting thickness: until 45 mm
Weight: approx. 120 kg/130 kg



AWS 13/22
Branch- and Hedge-Cutter
Working width: 1300/2200 mm
Cutting thickness: until 110 mm
Weight: approx. 160 kg / 230 kg



LPS 20
Clearance-Gauge-Cutter
Working width: 2000 mm
Revolutions of saw blades:
2600 rpm
Weight: approx. 220 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



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: until 60 mm
Revolutions of shaft: 2700 rpm
Weight: 350 kg



GSF 600
Ditch-Bottom-Cleaner
Working width: 600 mm
Revolutions of shaft: 800 rpm
Weight: 230 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
Tunnelwashermachine
Width of brush: 1800 mm
Revolutions of brush: 280 rpm
Weight: 285 kg

The UNA 450, UNA 500 and UNA 600 outrigger

The UNA 450, UNA 500 and UNA 600 outriggers are universal outrigger arms that can be attached to the front quick-change plate. The working range of the outriggers extends from left-hand work to working directly in front of the vehicle, right up to right-hand work over a total range of approx. 15 m (UNA 600). The outrigger arm, which is attached on a displacement frame, is hydraulically moved by 1.60 m.

Due to this placement it is not necessary to readjust the outrigger or the work tools when mowing at obstacles such as reflector posts, safety planks, milestones, traffic signs etc., as the work always remains on the same, parallel height when moving the outrigger. This ensures the fatigue-proof, comfortable and safe operation of the device.

The UNA 450, UNA 500 and UNA 600 outriggers are protected by mechanical and hydraulic impact protections.

A floating position allows the work tool to automatically adapt to the terrain.

The available tools can be mechanically rotated horizontally by 360°.

The various possible applications of the attachments ensure that the outrigger can be used all year round. An attachment overview is given on page 2.

The extremely compact transport position of the outriggers provides the driver with a completely free view of the road.

The technical data is given on pages 10 and 11.



The UNA 500 in action



UNA 600 with AWS, left-hand working



UNA 500 in transport position

The UNA 450 in action on the U 318





Elobau joystick (button joystick) and multicontroller



Gessmann joystick (rocker switch joystick) and multicontroller



Danfoss joystick (roll joystick) and multicontroller

The control of the MBM 400 as well as UNA 450, UNA 500 and UNA 600 outriggers

CAN BUS control, optionally with Tasttronic

The hydraulic valves of the outrigger are controlled via an ergonomically shaped single-lever joystick. This joystick allows for the operation of all movements on 2 levels. Additionally, the Tasttronic can be activated by pressing a button.

The supplied display serves for basic settings, operating data recording and test options. All control data are processed by a computer and transferred to the hydraulic valve.

The operating unit is equipped with a joystick, multicontroller and touch display.

All functions can be operated either via the touch display or via the rotary encoder on the multicontroller. All operating and diagnostic data can be called up via the colour display.

The arm movements are controlled via the joystick.



UNA 500 in action on the wheel loader



UNA 500 in divided build (hydraulic unit in rear attachment)



The UNA 500 in action on the JCB tractor



UNA 600 as rear attachment

The DÜCKER-Tasttronic

The microprocessor-controlled control developed by DÜCKER provides all functions of the proportional single-lever control. In addition, the fully encapsulated signal recording integrated in the mowing head allows for automatic and very precise level adjustment. This allows for safe work at high driving speeds. The Tasttronic does not comprise any movable, dirt and dust sensitive actuators. The signal recording is performed by means of flexion and torsion measurements using strain gauges.

Another strong point is working on counter-embankments even if the driver does not drive at an exact distance. The Tasttronic can be overridden or switched off at any time. An emergency stop function provides the necessary safety. The Tasttronic protects the outrigger, the mowing head and the sod. The operator concentrates on driving and traffic while the mowing works largely automatic.

The MK 25 mower combination is equipped with the DÜCKER Tasttronic as standard. It is available as special equipment for the outriggers of the MBM, UNA and DUA series.

Torsion frame, vehicle plate and Counterweight from DÜCKER



hydraulic torsion frame on the Unimog



Vehicle plate with hydraulic axle support



Counterweight in the attachment fittings of the Unimog

Tasttronic

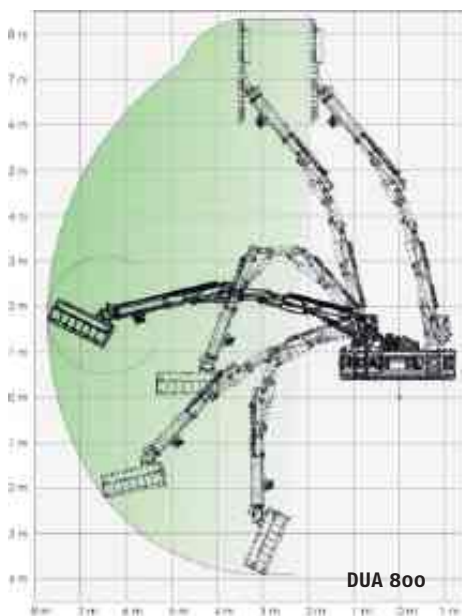
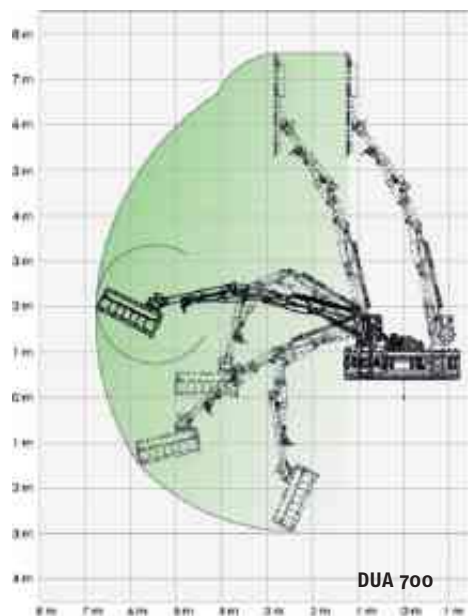
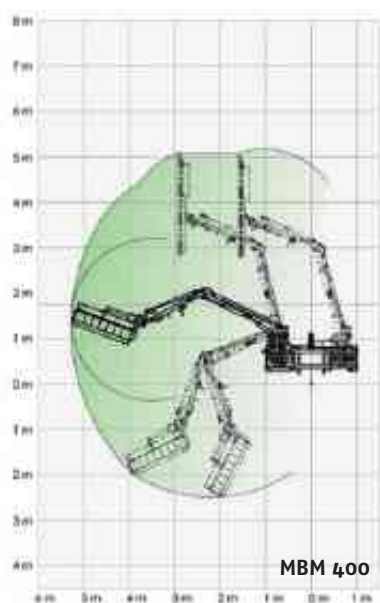
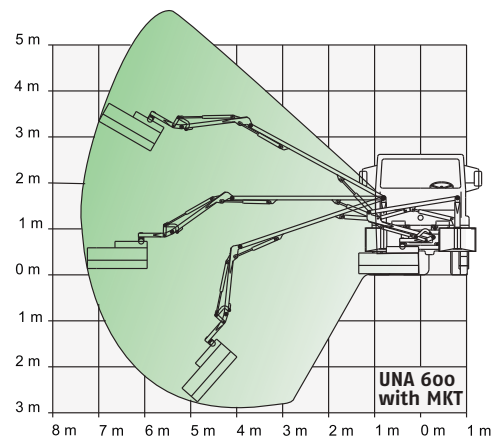
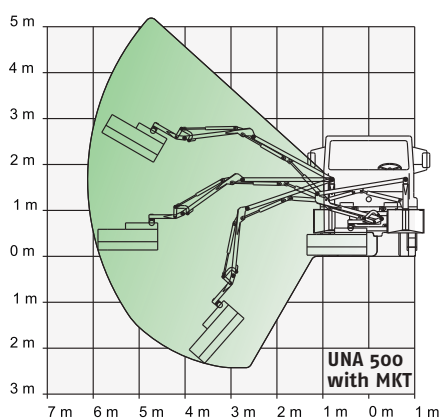
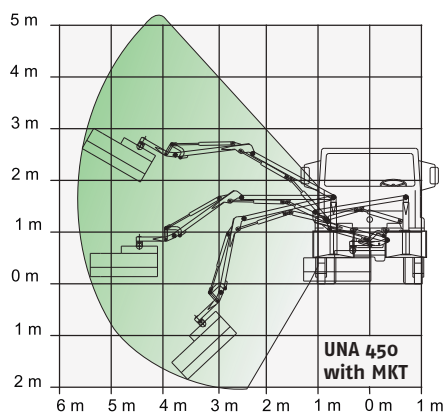


VSM 1200 mowing head with Tasttronic

Technical data

Outrigger	MBM 400	UNA 450	UNA 500
Range	5,3 m	5,4 m	6 m
Transport width	2 m	2,2 m	2,4 m
Weight basic device	750 kg	850 kg	900 kg
Displacement by	1,40 m	1,40 m	1,60 m
Swivel angle of equipment	170°	170°	170°
Right- and left-hand work	yes	yes	yes
Speed	650 U/min	650 U/min	650 U/min
Hydraulic drive for working equipment	45 ltr. / 320 bar	45 ltr. / 320 bar	45 ltr. / 320 bar
Control	CAN BUS control, optionally with outrigger relief control and		
Attachment	Front attachment		

The ranges of the DÜCKER outriggers



UNA 600	DUA 700	DUA 800	MK 25-700	MK 25-800
7,3 m	6,8 m	7,8 m	6,3 m (6,8m)	7,3 m (7,8 m)
2,5 m	2,5 m	2,5 m	2,5 m	2,5 m
1050 kg	1050 kg	1250 kg	2100 kg	2300 kg
1,70 m	1,60 m	1,60 m	1,10 m (1,60 m)	1,10 m (1,60 m)
170°	270°	270°	270°	270°
yes	yes	yes	yes	yes
650 U/min	710 U/min	710 U/min	710 U/min	710 U/min
45 ltr. / 320 bar	68 ltr. / 340 bar	68 ltr. / 340 bar	68 ltr. / 340 bar	68 ltr. / 340 bar
Tasttronic	CAN BUS control with standard outrigger relief and optionally Tasttronic			
plate size 3 or 5				