

## **ARTICULATED BOOM BRUSHCUTTER FOR UNIMOG U500**

### **SPECIFICATIONS**

#### **FRAME**

1. Fully welded, unitized frame with shielded internal compartments for hydraulic components. Frame incorporates Quick Attach System. The system is designed for attachment in 30 minutes.
2. For operator safety and machine stability, Quick Attach System is compatible with DIN 5 front mount plate, and includes a fixed bed-mounted Transport Carrier for high speed transport without removal of the Brushcutter.
3. Unitized frame incorporates parking stands for storage when unit is dismantled from truck.
4. Brushcutter transport width is within truck width. Brushcutter frame designed to optimize operator view angles and maintain truck approach angle.
5. Unitized frame warranted for 2 years or 2000 hours.

#### **ARTICULATED BOOM**

1. First boom: minimum 8 1/2" x 7 3/4". Fabricated from T-1, ASTM A514 steel with internal and external bulk heads, gussets and reinforcing plates. A514 minimum yield and tensile strengths of 100,000 psi and 130,000 psi.
2. Second boom: minimum 8 3/4" x 4 1/2". Fabricated from T-1, ASTM A514 Steel with internal and external bulk heads, gussets and reinforcing plates. A514 minimum yield and tensile strengths of 100,000 psi and 130,000 psi.
3. All pins machined from ASTM 8620, hardened, and mounted in heat-treated, greaseable steel bushings.
4. Right Hand horizontal side-reach minimum 20' 6" from center of truck, with a 4' flail.
5. Left Hand horizontal side reach minimum of 18' from center of truck with a 4' flail.
6. Vertical Reach 18' upwards perpendicular to the ground on either side.
7. 270° Boom swing from Carry-all to maximum right hand mowing position.
8. For safe operation, boom swing incorporates adjustable, dual-position hydraulic safety break-away valve.
9. Booms configured to position cutting head to enable mowing in front of tires.
10. Boom hydraulic cylinders mounted on top of booms for protection from guard rails, traffic barriers, fences, etc.
11. For safety and durability, all hydraulic cylinders have minimum burst rating four times greater than operational pressures.
12. Pin-Grabber coupler for multiple tools utilizing standard 200 mm pin-to-pin center configuration.
13. 4<sup>th</sup> Axis manual head rotation standard for directional control of the cutting head.
14. Maximum lift capacity 900 lbs (Mower + 4<sup>th</sup> Axis) at full extension.
15. Booms are warranted for 2 years or 2000 hours.

## **CUTTING HEAD**

1. Cutter head is fabricated from same specified steel as used in above articulated booms.
2. Flail head cowling is one piece, 3/16" thick with 3/8" thick end plates.
3. Flail brush head accepts (3) different cutting devices for use in grass, bushes, vines, saplings and up to 6" tree limbs.
4. Flail cutter shaft is hydraulically powered, utilizing minimum 2" cog power belt and drive pulleys. Adjustable hydraulic relief for cutter shaft is provided to protect mower and pumps.
5. Cutter head has minimum cutting width of 48".
6. Flail shaft thickness minimum 5/8" with 1/2" thick ASTM 514 mounting arms for cutter devices.

## **HYDRAULICS**

1. Boom controls are integrated into single, electronic proportional joystick.
2. Boom control valve is electronically proportional and manufacturer certified to be compatible with electronic joystick.
3. Boom hydraulics is supplied by Unimog Hydraulic Circuit II for safe operation.
4. Cutting head is powered by long life PTO driven gear pump developing an excess of 56 HP.
5. Joystick mounting is located for safe and efficient operation by operator and is movable to permit mowing from left or right hand seating positions. Joystick mounting provides an arm-rest for operator fatigue reduction and comfort.
6. Optional hydraulic package available to utilize Unimog Power-Hydraulics system to power mower (eliminates PTO drive pump and reservoir on frame).

## **PAINT**

1. All metal is professionally prepared, shot blasted, powder coated, and oven cured.
2. All paint & powder coating used is lead free.
3. Paint is factory standard color.

## **REQUIRED UNIMOG EQUIPMENT FOR 405.210 OR 405.230 NORTH AMERICAN PACKAGE**

1. X-18 33,000 pound GVW
2. Minimum width of tires 365/85 R20
3. Torsion Control on front axle
4. C-18 Vertical Exhaust
5. D-12 Din 5 Front Mounting Plate
6. D-50 Rear Mounting Brackets
7. E-37 Electrical Plug Behind Seat
8. G-20 Working Gears
9. H-06 Hydraulic Package Minimum
10. J-48 Tip Cylinder Warning Light
11. L-47 Raised Headlights
12. N-08 Front PTO
13. P-27 or P-40 Tipper Body As Required For Wheelbase
14. R Wheels As Required For Tires And 33,000 GVW
15. S Seats As Appropriate For VarioPilot or Standard Steering
16. 2500 Pound Counterweight or equivalent load in tipper body

## **SUGGESTED OPTIONS FOR PTO DRIVEN MOWER**

1. A-52 Differential Lock In Front Axle
2. C-47 Radiator Protection
3. C-50 VarioPilot
4. E-45 Front Mounted 7 Pin Electrical Plug
5. L-07 Daytime Running Lights
6. L-59 Dual Rotating Beacon Mounts