

Specification Sheet Front Mounted B457

1. **Mounting to tractor**

Mountings provided on frame for mounting direct to trackless tractor.

2. **Frame**

Spaceframe construction giving required strength with minimum weight, with oil reservoir forming integral part of the structure. Mounting provided for arms and rams.

3. **Reservoir**

Capacity to exceed 115 lit (30 USG). Suction line filter shall be no larger than 100 mesh (125 micron) and shall be fitted with safety by-pass valve.

Return line (main) filter to be not greater than 10 micron with flow capacity of not less than 110 lit/min (29 USG/min) fitted with by-pass valve opening at less than 2.5 bar (approx 36 psi).

4. **Hydraulic System**

Pump – main. Gear type. Output at 540 rpm at PTO, not less than 70 lit/min (18.5 USG/min) at a maximum working pressure of 172 bar (2400 psi) controlled by relief valve mounted adjacent to pump.

Pump – secondary. (optional) Gear type. Output at 540 rpm at PTO, not less than 12.5 lit/min (3.3 USG/min) at maximum working pressure of 172 bar (2400 psi) with relief valve integral with control valve assembly.

Suction hose 1.5 inch bore.

Motor circuit hoses; pressure $\frac{3}{4}$ inch dual braid; return $\frac{3}{4}$ inch dual braid.

Hydraulic connections to cylinders to be $\frac{1}{4}$ inch flexible hoses in all cases.

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5. **Trackless Control Valve**

3 bank valve. (1 x single acting; 2 x double acting) with integral relief valve. Flow restrictors shall be fitted to ensure correct operational speed of hydraulic cylinders.
6. **First Arm**

Made from 100mm x 100mm x 5mm (approx 4 inch x 4 inch x 0.2 inch) SHS steel; pivots operating in replaceable bushes with grease fittings. Mounting provided for ram mountings.
7. **Second Arm**

Made from 100mm x 100mm x 5mm (approx 4 inch x 4 inch x 0.2 inch) Grade 50 C SHS steel; pivots operating in replaceable bushes with grease fittings. Mounting provided for ram mountings.
8. **Intermediate Beam**

Made from plates 10mm and 6mm thick with SHS support pivots operating in replaceable bushes with grease fitting. Mountings provided for hydraulic breakout ram.
9. **Breakout**

By means of hydraulic ram fitted between intermediate beam and second arm giving protection to the machine in a backward direction.
10. The three arms together with the 1250mm (50 inch) cutting head shall give a maximum reach of not less than 4m50 (14ft 9in) including 2m60 (8ft 6in) reach down a 45^o slope. Cutting head to have angular movement of at least 235^o. Head to be capable of cutting adjacent to rear tyre.
11. Transport width shall be less than 2m45 (8ft) and achievable by the operator without leaving the driving seat. A metal safety screen shall be available (option).
12. Alternative cutting heads shall be available.

Specification Sheet

LW head with 1250mm (50in) cutting width
To fit B457/B467/B577 machines

Cowl

Based on current LW design with press-braked top with 70 x 70 SHS at rear for clamping the cowl bracket and to provide torsional rigidity.

Rotor Shaft

Tube 3½ " o.d. x 3/8" wall with non-drive bearing journal of 40mm dia; 36 flails at 6 stations, 60° around the shaft to give 120° between lugs and flails; 10mm lugs with punched holes.

- standard flails 02.959.01 (heavy single)
- flail tip radius – 175mm

Cutting width

1250mm – overlap ratio 1.094

Rotor speed

3000 rev/min at no load

Rotor bearing non-drive

RHP I/FC 1640-40 bearing assembly 06.221.01.

Motor

Ultra 08.785.01

Roller

150m dia (6")

Roller Bearing

D/row ball 30mm (1¼") bore

Roller Adjustment

By means of bolt-on bracket each side with a series of holes for height adjustment.