

TECHNICAL SPECIFICATION
EKEBOL TS-100 COMPACT RECOVERY UNDERLIFT
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1. GENERAL SPECIFICATION - STANDARD

- a. The recovery unit is hydraulically operated.
- b. The unit has one underlift towing boom with integral folding capability, and a main boom.
- c. The unit has two double-acting telescopic, hard-chromed lifting cylinders.
- d. The unit has one hydraulic winch.
- e. The whole unit is operated from controls situated at the rear left hand side.
- f. Maximum weight of towed vehicle: 10 tonnes.

2. HYDRAULIC SYSTEM

- a. Hydraulic tank volume, approximately 120 litres.
- b. One hydraulic pump driven from the gearbox PTO.
- c. One hydraulic circuit.
- d. Hydraulic high-pressure hoses in accordance with SAE 100 R2T.
- e. A return flow oil filter is provided. The filter is of the low-pressure type and has a replaceable cartridge.
- f. Directional control valves for heavy duty, mobile applications are used.
- g. The control levers are spring-loaded, returning to neutral.
- h. Pilot operated safety valves are mounted on the lifting cylinders. The valves have overload protection.

3. WINCH

- a. One hydraulic worm-drive winch is mounted on the main boom.
- b. Maximum pulling capacity on single line: 5.4 tonnes (12,000lbs).
- c. The winch has a manually operated dog clutches to allow free spooling of rope.
- d. Wire rope: 12 mm dia. 6/25 IWRC grade 1770 galvanised construction, 40 m long with talurit spliced eyes and swivelling safety latch-lok hooks. Breaking strength of wire rope: 9.2 tonnes.
- e. The winch has a spring-loaded, roller-type wire rope tensioner.

4. UNDERLIFT TOWING BOOM

- a. The underlift towing boom is built from medium tensile steel and is supported by two strong bronze bearings.
- b. Maximum lifting height on crossbar: approximately 2.4 metres.
- c. Maximum lifting capacity on underlift: 3.5 tonnes (retracted); 2 tonnes when fully extended.
- d. Maximum weight of towed vehicle: 10 tonnes
- e. The underlift towing boom is mechanically operated, folds vertical for storage (with mechanical lock) and has a single stage extension arm which is hydraulically operated.
- f. Length to forks: arm retracted 950 mm; extended 1450 mm.
- g. The extension arm slides on nylon pads to minimize wear.
- h. Pivoting, square lifting T-bar attached to boom end.

5. MAIN BOOM & RECOVERY BOOM

- a. The main boom and recovery boom are built from medium tensile steel.
- b. The recovery boom is built into the main boom
- c. The recovery boom reach is 3.2m.
- d. Maximum lifting height: approximately 2.8 metres.
- e. Maximum rated capacity: retracted - 10 tonnes; extended – 3.5 tonnes.
- f. The main boom and recovery boom are hydraulically operated.
- g. The main boom has a mechanical safety lock which is operated from the rear of the unit. The main boom can be mechanically locked in the vertical position, and can be set at various heights so there is no load on the hydraulic system when towing a vehicle.
- h. The recovery boom slides on nylon pads to minimize wear.
- i. Single swivelling, self-aligning fairlead at the end of the recovery boom.

6. LIFTING AND TOWING GEAR

- a. One pair of sliding low fork holders complete with locking pins.
- b. One pair of sliding high fork holders complete with locking pins.
- c. Four pairs of forks for different applications.
- d. Two chain lift brackets complete with two 8mm Grade 80 chains with grab-hooks.
- e. Removable adaptor for towing of trailers, complete with multi-purpose pin, to suit different coupling sizes.
- f. Two 8mm Grade 80, 5 m long for vehicle tie-down.
- g. Wheel-lift towing attachment for light vehicles, complete with nylon tie-down straps and tensioning ratchets. Maximum rated capacity on wheel lift: 2 tonnes

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7. SUBFRAME

- a. The unit is mounted on a strong sub-frame to minimize stresses in the truck chassis.

8. ELECTRIC'S

- a. Voltage same as cab-chassis.
- b. Stop, tail and turning signal and reversing lights are recessed into the rear of the optional body (if fitted).
- c. Stop, tail and turning signal lights are fitted to the light rack (if fitted).
- d. All lights are LED type.
- e. Two rotating amber lights mounted to the light-rack (if fitted).
- f. Two adjustable working lights mounted at the rear of the unit.
- g. All extra lights are separately fused.

9. PAINTING

- a. The unit is prime coated, ready for painting.

NOTES

- a. The rated capacities are for the recovery unit only, NOT VEHICLE CAPABILITY.**
- b. The ratings are in accordance with Australian practice.**
- c. Tow adaptors are for recovery/emergency towing only – not to be used for continuous highway towing.**
- d. Suitable for installation on most 2-axle chassis vehicles with a GVM of 9-11 tonnes or and a wheelbase between 3.8 and 4.4 metres.**
- e. Ekebol Pty Ltd is continually striving to improve and update our product range. We reserve the right to change materials and specification without notice. Specifications are correct at the time of printing but may change without notice.**