

TECHNICAL SPECIFICATION
EKEBOL TSA-272L RECOVERY UNDERLIFT
KIT OR INSTALLED ADD-ON OPTION

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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.
- c. The underlift towing boom is lifted by two hydraulic cylinders.
- d. Maximum rated capacity: fully retracted is 9 tonne, on mid extension is 7.5 tonne; and when fully extended is 6 tonne.
- e. Maximum towed load: 70 tonnes
- f. Maximum lifting height with towing boom horizontal is 1.1m (approx), or with the towing boom tilted is 1.7m (approx).
- g. The unit is operated from a hydraulic control valve situated at the rear left side of the unit.

2. HYDRAULIC SYSTEM

- a. Directional control valves for heavy duty mobile applications are used. The valves have built-in overload protection.
- b. The control levers are spring-loaded, returning to neutral type.
- c. Pilot operated safety valves are mounted on the tilt and lifting cylinders.
- d. Hydraulic high pressure hoses are in accordance with SAE 100 R2T.

3. UNDERLIFT TOWING BOOM

- a. The underlift towing boom is built from high tensile steel, and is supported by a stabilizer arm which is pivoted on top of the chassis.
- b. Maximum lifting height with towing boom horizontal is 1.1m (approx), or with the towing boom tilted is 1.7m (approx).
- c. Maximum rated capacity: fully retracted is 9 tonne, on mid extension is 7.5 tonne; and when fully extended is 6 tonne.
- d. The underlift towing boom has a mechanical safety lock.
- e. The hydraulic system is **not** under pressure when towing another vehicle.
- f. The underlift towing boom has hydraulic power tilt, giving a tilt range of 16 degrees above horizontal and 8 degrees below horizontal.
- g. The underlift towing boom is hydraulically operated, folds vertical for storage (with mechanical lock) and has a 2 stage extension arm.
- h. The extension arm slides on nylon pads to minimize wear and has a 1100mm extension stroke.
- i. Length to forks: retracted 1580 mm; extended 2680 mm.
- j. Pivoting, square lifting T-bar attached to boom end.

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4. LIFTING AND TOWING GEAR

- b. One pair of sliding low fork holders.
- c. One pair of sliding high fork holders (required for optional semi-trailer attachment).
- d. Seven pairs of forks for different applications.
- e. Two fork extensions, 120mm
- f. 3 pairs of spring pad fork inserts.
- g. Two chain lift brackets complete with two 13mm Grade 80 chains with grab-hooks.
- h. Removable adaptor for towing of trailers, complete with multi-purpose pin to suit different coupling sizes.
- i. Two 10 mm Grade 80 chains, 5m long for vehicle tie-down.

5. MOUNTING FRAME

- c. The unit is assembled on a short frame with a mounting height nominally 1260 mm above ground.
- d. This mounting frame is then mounted on a full length sub-frame (not included) on top of the truck chassis.

6. PAINTING

- c. The unit is sandblasted and 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 3-axle chassis with a GVM of 18 - 26 tonnes and wheelbase between 5.4 and 6.5 metres.
- e. We can assist with estimated (subject to variation) weight distribution calculations and wheelbase recommendations.
- f. 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 time of printing but may change without notice.