

TECHNICAL SPECIFICATION
EKEBOL TILT TRAY BODY: MODEL TFS-11L
(date of issue: 19 Aug 2019 – Rev B)

1. TRAY

- a. Maximum rated capacity: 11 tonnes.
- b. Length of body to suit the truck.
- c. Width inside side coamings is 2470mm. Total width: 2490.
- d. Best loading angle: 6 degrees, depending on truck chassis.
- e. Minimum loading deck height off ground is 900 (near winch), 500 (near middle of tray). Dimensions are approximate and depend on the truck the unit is installed on.
- f. Maximum tilt angle: 22 degrees (approximate and depending on truck installed on).
- g. The body is fully welded, heavy-duty construction with large flat floor of 6mm high tensile steel plate.
- h. Front of body provided with a 600mm high headboard.
- i. Thin high tensile steel coaming rails make it possible to carry shipping container.
- j. The coaming rails are provided with holes every 500mm for tie-down shackles.
- k. The body is tapered at the rear to facilitate easy loading and unloading.
- l. Pull out access steps at front of body are incorporated into the full-length rope rails along both sides of body.
- m. The body is automatically locked to the truck chassis when in road travel mode (tray fully down and fully forward).
- n. The body is mounted on a separate sub-frame, which reduces stresses in the truck chassis.
- o. The tilt-frame is pivoted behind the rear wheels.
- p. A mechanical stabilizer is provided to reduce body twist when loading or unloading.
- q. Tilt-frame fitted with HDPE and nylon slide pads to eliminate metal-to-metal sliding contact, minimising wear.
- r. All pivoting joints are provided with replaceable bushes and/or grease nipples.
- s. Hydraulic operated ground support legs at the rear are included for added stability when loading and unloading.
- t. An auto folding taillight bar is fitted at rear.
- u. The rear of the tray is fitted with polyurethane coated rollers as standard, or optional track roller assemblies.

2. HYDRAULICS

- a. The oil tank has a 120 litre capacity and is fitted with a filler-breather cap.
- b. Twin hydraulic pumps are attached to the gearbox mounted PTO.
- c. 5-spool hydraulic control valves with inbuilt pressure relief valve (to protect against overloads) are utilized.
- d. A low pressure return oil filter is mounted in the return line to the oil tank and has an easily replaceable cartridge.
- e. Grade of filtration: 10 micron.
- f. The tilt rams are provided with an over-centre type safety valve.

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- g. Hydraulic chain drive unit for slide function
- h. High-pressure hoses, steel tubes and fittings are used.
- i. High-pressure hoses conform to SAE100 R2T.
- j. A mechanical safety device is provided to prevent the use of the tilt when the body is in the forward position and locked together with the truck chassis.
- k. Electrical safety interlocking diverter valves are provided for emergency stop control and to prevent movement of slide and tilt functions when not allowed
- l. The hydraulic hoses for the winch are protected by a plastic hose chain, which runs in a channel mounted on the tilt frame.

3. CONTROLS

- a. Air operated PTO control mounted in the cab.
- b. Electrical emergency stop/start control at the control station
- c. Hydraulic controls located on left side of chassis, behind the rear wheels.
- d. Electrical interlocking provided on slide and tilt functions to limit movement is zoned not allowed
- e. Dead-man type levers are provided with the following functions:
Slide (on-off); Winch (in-out); Tilt (up-down); LH Leg (up-down) RH Leg (up – down)

4. WINCH

- a. Hydraulic worm-drive winch with 9 tonnes single line pull (20,000lbs)
- b. Winch is provided with 30 metres of 16mm diameter, 6x36 IWRC, Grade 1770 wire rope.
- c. The end of the wire rope has a swaged eye with swivel latch lock hook.
- d. The winch is fitted with a pneumatic operated dog clutch to allow free-spooling of drum.

5. ELECTRIC'S

- a. Two combination LED rear lamps (stop, tail, turn and reverse) are mounted at rear of the body.
- b. Three LED clearance lights mounted on each side of the body.

6. MISCELLANEOUS

- a. Four plastic mudguards with rubber mud-flaps at rear.

7. PAINTING

- a. All tilt-slide equipment, underside of body and floor plate is painted in Protec Paraloc satin black. The remainder is delivered prime-coated.

8. DELIVERY

1. All units are delivered fitted to the truck chassis and in good working order.

9. WARRANTY

- a. All units come with a 2 year warranty except for the rear of tray rollers or track roller assemblies. Where a track roller system is installed, and as these

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belts/rollers are a wear and tear item impacted by what surfaces the customer operates the tilt tray on, the warranty on the belts/rollers is limited to initial manufacturing defects within the belt for 3 months from date of delivery (excludes wear and tear).

NOTES

- a. **The rated capacities are for the tilt-slide equipment only, NOT THE VEHICLE CAPABILITY. Actual legal payload will depend on permitted axle loadings in your state.**
- b. Suitable for most forward control 6x4 cab-chassis, with a GVM of 23-24 tonne and with wheelbase between 5.0 metres and 7 metres.
- c. 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.