

## **TECHNICAL SPECIFICATION** **EKEBOL TILT TRAY BODY: MODEL TFS-18**

(date of issue 19 Aug 2019 – Rev B)

### **1. TRAY**

- a. Maximum rated capacity: 18 tonnes.
- b. Length of body to suit the truck.
- c. Width inside side coamings is 2470mm. Total width: 2490.
- d. Typical loading angle: 10 to 14 degrees, depending on truck chassis.
- e. Maximum tilt angle: approximately 22 degrees.
- f. The body is fully welded, heavy-duty construction with large flat floor of 6mm high tensile steel plate.
- g. Front of body provided with a 600mm high headboard.
- h. Thin high tensile steel coaming rails make it possible to carry shipping container.
- i. The coaming rails are provided with holes every 500mm for tie-down shackles.
- j. The body is tapered at the rear to facilitate easy loading and unloading.
- k. Pull out access steps at front of body are incorporated into the full-length rope rails along both sides of body.
- l. The body is automatically locked to the truck chassis when in road travel mode (tray fully down and fully forward).
- m. The body is mounted on a separate sub-frame, which reduces stresses in the truck chassis.
- n. The tilt-frame is pivoted behind the rear wheels.
- o. A mechanical stabilizer is provided to reduce body twist when loading or unloading.
- p. Tilt-frame fitted with HDPE and nylon slide pads to eliminate metal-to metal sliding contact, minimising wear.
- q. All pivoting joints are provided with replaceable bushes and/or grease nipples.
- r. Hydraulic operated ground support legs at the rear are included for added stability when loading and unloading.
- s. An auto folding taillight bar is fitted at rear.

### **2. HYDRAULICS**

- a. The oil tank has a 120 litre capacity and is fitted with a filler-breather cap.
- b. The hydraulic pump is attached to the gearbox mounted PTO.
- c. A 5-spool hydraulic control valve with inbuilt pressure relief valve (to protect against overloads) is utilized.
- d. A low pressure return oil filter is mounted on 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.
- g. High-pressure hoses, steel tubes and fittings are used.
- h. High-pressure hoses conform to SAE100 R2T.
- i. 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.
- j. The hydraulic hoses for the winch are protected by a plastic hose chain, which runs in a track mounted on the tilt frame.

# **EKEBOL**

**Tough - Reliable - Built to Last**

- k. System operating pressure of 180 bar with Winch IN function pressure limited to 160 bar

### **3. CONTROLS**

- a. Air operated PTO control mounted in the cab.
- b. Hydraulic controls located on left side of chassis, behind the rear wheels.
- c. Dead-man type levers are provided with the following functions:  
Winch (in-out); Tilt (up-down); Slide (on-off).

### **4. WINCH**

- a. Hydraulic worm-drive winch with 13.6 tonnes single line pull (30,000lbs)
- b. Winch is provided with 30 metres of 18mm diameter, 6x36 IWRC, Grade 1770 galvanized wire rope.
- c. The end of the wire rope has a spliced eye/thimble.
- d. The winch is fitted with a pneumatic operated dog clutch to allow free-spooling of drum.

### **5. ELECTRIC'S**

- a. Two combination 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**

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

### **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 8 X 4 a cab-chassis, with a GVM of 26 to 32 tonne and with wheelbase between 4.8 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.