

TECHNICAL SPECIFICATION **EKEBOL SUPER TILT TRAILER: MODEL TFS-27TR**

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1. TRAY

- a. Maximum ATM: 40 tonnes.
- b. Maximum load capacity: 27 tonnes on rear axle group, maximum 13 tonnes on skid plate at king pin. **DO NOT EXCEED MAXIMUM LOADINGS!**
- c. Load floor size: tilting tray 12.35m, optional fixed floor upper deck: 4.0m, for a combined trailer length of 16.35m,
- d. Kingpin to end of trailer length of 15.165m
- e. Width: total width 2495mm, inside coaming width 2470.
- f. Height of tray 995mm at ride height, and 920mm with optional air dump system.
- g. Maximum loading angle of 16.5 degrees and an optimum loading angle of 7.5 degrees.
- h. The tray is a heavy duty, fully welded construction made with 6mm high tensile floor plate with reinforced cross members every 425 mm. 8mm high tensile floor plate is used for the rear 4.2m section of the tray for extra durability.
- i. The tray has a tapered tail to facilitate easy loading and unloading, and eliminating the need for separate ramps.
- j. The tray automatically locks into the trailer chassis when in road travel mode.
- k. The tilt frame is pivoted behind the rear most axle.
- l. A mechanical stabilizer is included to improve tray stability while loading and unloading.
- m. The tilt frame and trailer chassis are fitted with nylon slide pads to eliminate metal to metal contact and minimize wear.
- n. All pivot points have replaceable bushes and/or are fitted with grease nipples.

2. HYDRAULIC SYSTEM

- a. Quick connect hydraulic couplings are provided at the front of the trailer for connection to the prime mover's hydraulic circuit.
- b. Operation is by 3 spool hydraulic control valves with inbuilt pressure relief to protect against overloads. Functions that are controlled are winch (in/out), tilt (up/down), slide (on/off)
- c. Hydraulic controls are located on the left side of the chassis.
- d. Oil pressure gauge mounted at the control station
- e. Tilt rams are fitted with over-centre type safety valves, and tilt cut-out protection
- f. All high pressure hoses conform to SAE100 R2T.
- g. Hydraulic hoses for the winch are enclosed in a hose chain to protect them during movements.

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3. WINCHES

- a. 1 x Hydraulic winch with 13.6 tonne (30,000 lb) single line pull mounted at the front of the trailer.
- b. *Optional - 2 x Hydraulic winch with 9.09 tonne single line pull (20,000 lb) located at the front of the tilting tray deck fitted with 16mm wire rope (if optioned).*
- c. Winch is provided with 30 m of 18mm diameter, IWRC 1770 grade wire rope.
- d. The end of the rope is fitted with a swaged eye with thimble, *or swivel latch lock hook (if optioned)*
- e. Winch is fitted with pneumatic operated dog-clutch to allow free spooling of the drum.

4. ELECTRICS

- a. Service lights mounted at control console and goose neck storage box.
- b. Two combination rear stop/turn/reverse LED lights mounted under the tray at the rear.
- c. Seven clearance lights mounted on each side of the trailer.
- d. Installed with multi-volt (12/24 V) circuit to suit 12V or 24V prime movers.

5. PAINTING

- a. The trailer chassis is supplied sand blasted and painted in 2 pack epoxy coating, with an interthane 990 topcoat or equivalent.
- b. The tilt frame and tray bed are painted in 426 Paraloc HP black.
- c. The trailer side coamings are supplied primed.

6. TRAILER CHASSIS

- a. The chassis is a fully welded, drop-deck type trailer chassis fitted with a dual position drop in 50mm king pin and 1800mm rear axle spread.
- b. Fitted with a TMC spread tri-axle arrangement, with each axle rated at 9 tonne capacity
- c. TMC SL10 air suspension fitted on all axles
- d. ABS brake system fitted sensing on two axles
- e. Wheels are 17.5" Aluminium rims, with outside set polished
- f. Tyres Continental 235/75R/17.5 (13 off – 12 plus 1 spare)
- g. Manually operated landing legs
- h. Four plastic quarter mudguards with rubber flaps at rear.
- i. Low rear deck height of 995 mm at trailer ride height

7. DIESEL POWER PACK (when optioned)

- a. *HATZ Silent Pack 3.4L air cooled 64HP@2300rpm key start diesel engine. Includes engine monitoring and shutdown for oil pressure, high temperature and fan belt breakage. Engine specified with deep oil sump, engine oil cooler and heavy duty external fuel filter and water trap.*
- b. *Flex plate drive with 7/8" x 13t shaft driving dual 27cc heavy duty cast iron HDP30 Magnum pump.*
- c. *160L hydraulic oil tank with 125 micron suction strainer, 10 micron tank top*

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- return filter and filler/breather/dip stick assembly. Fitted with shut off ball valve and drain plug.*
- d. 100L diesel fuel tank with internal battery box with quick release lid. Fitted with shut off ball valve and drain plug.*
 - e. Maintenance free N70ZZ 720CCa battery.*
 - f. All items rubber mounted to skid with integral lifting lugs to allow complete power pack removal for maximum upper deck loading space.*
 - g. Engine, hydraulic tank and diesel tank all fitted with lifting lugs for individual maintenance and servicing.*

NOTES

- a. The rated capacities are for the trailer unit only, NOT VEHICLE CAPABILITY.**
- b. The ratings are in accordance with Australian practice.**

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