



TOW TRACTOR - 100

MOVING AIRCRAFTS WITH EASE

A GROUND REALITY WITH TUGKRAFT TOW TRACTORS



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TOW TRACTOR - 100		TECHNICAL SPECIFICATIONS	
ENGINE	Make	TATA	
	Model	497 TCIC	
	Rating	86 HP @ 2200 RPM	
	No. of Cylinders	4	
	Aspiration	Turbocharged/Intercooled	
	Displacement	3.78 Litres	
	Bore x Stroke	97 mm x 128 mm	
Cooling	Water Cooled		
TRANSMISSION	Make	ZF	
	Model	4 WG 94	
	Type	Powershift with Torque Converter	
	Speeds	4F/3R	
	Shifting	Electric	
DRIVE AXLE	Make	ZF	
	Model	MT-B 3070	
	Type	Heavy Duty with Planetary hub reduction	
	Mounting	Rigid mounted	
	Brakes-Service	Hydraulic operated, oil immersed multiple disc service brake. Air/hydraulic actuation.	
Brakes-Parking	Spring Applied Hydraulically Released		
STEER AXLE	Make	TATA	
	Type	Reverse Elliot type, with Drop forged I section beam	
	Suspension	Independent thru semi elliptic leaf springs	
	Mounting	With conventional shackles/pins	
	Brakes	Pneumatic, S-Cam, Drum type	
STEERING	Make	Danfoss	
	Type	Full time Hydrostatic	
	Cylinder	Double ended balanced	
TYRES	Front	9.00 x 20 14 PR Radial: 2 Nos.	
	Rear	9.00 x 20 14 PR Radial: 4 Nos.	
GAUGES	Air cleaner restriction, Voltmeter, Engine Lube oil pressure, Engine temperature, Transmission oil pressure, Transmission oil temperature, Fuel level indicator, Hyd. Oil level indicator (on tank).		
FILTERS	Air cleaner-dry type, Engine oil, Transmission oil, Hyd. oil-return line		
SAFETY	Hydraulic circuit	Provided with over pressure bye-pass valve	
	Brake circuit	Parking brake system provided with fail safe engagement in case of Engine immobilization	
PERFORMANCE	Draw Bar Pull	100 kN	
	Max. speed	30 kph	
	Turning radius	5,800 +/- 100 mm	
WEIGHTS	GVW	10,600 kg	
	FAW	4,100 kg	
	RAW	6,500 kg	
TOW HITCH	Provided in front and rear with 70 mm dia. alloy steel pins, single level, manual		
SERVICE DATA	Engine	10 Litres	
	Transmission	15 Litres	
	Drive axle	18 Litres(includes hub reduction)	
	Hydraulic tank	50 Litres	
	Fuel tank	90 Litres	

ELECTRICALS	Voltage	12 VDC
	Battery	150 Ah
INDICATORS	Low air pressure, Left/Right turn, High beam, Parking brake "on"	
STANDARD EQUIPMENT	<ul style="list-style-type: none"> • Full Cabin with 2 hinged doors and Fan • Suspension seats for Driver and Crew • Amber colored rotating warning beacon • Work lights-Front and rear tow pins • Front and Rear Tow Hitch mirror, Cabin mirror • Fire Extinguisher • Halogen head lamps, Parking cum Trafficator Lights • LH & RH External rear view mirrors • Wind shield washer • Reverse Alarm • Equipment loading and unloading eye hooks. 	
OPTIONAL EQUIPMENT	<ul style="list-style-type: none"> • Front and Rear spare wheels(1 each) • Hydraulic Jack • Tool Kit 	
CHASSIS CONSTRUCTION	Monocoque type with detachable Hydraulic and Fuel tanks. Designed for strength, Maximum Torsional rigidity, Cross braced and boxed to withstand Push-Pull stresses at either ends.	
HYDRAULICS	A large capacity reservoir is provided with strainer in the filler cap. Heavy duty Vane pump driven by Transmission Power Take off is provided for steering function. Return line filter provided to ensure self cleaning system for long reliable Pump, Steering unit, Cylinder and Seals life.	
CABIN	Wide fully enclosed cabin (Forward mounted meeting IATA AHM 955 norms) with seating for Driver and Crew member. Manufactured from all welded hollow steel sections and skinned with heavy gauge steel sheets. Safety glass is fitted throughout and all opening windows are of sliding type. Large external height adjustable rear view mirrors fitted on both sides. Internal rear view mirror fitted in front of Driver's seat. Additional mirrors with multidirectional adjustment fitted to view front and rear hitching.	

