



TEREX

TA40

Articulated Truck

MAX. GROSS VEHICLE WEIGHT	67,804 - 151,579 lbs (30,820 - 68,820 kg)
GROSS ENGINE POWER	450 hp (336 kW)
MAX. PAYLOAD	41.8 tons (37.9 t)
HEAPED CAPACITY	30.3 yd ³ (23.3 m ³)



ARTICULATED TRUCK
TA40

Specifications

Engine	
Make/model	Detroit Diesel Series 60
Type	6 cylinder, in line, four cycle diesel, water-cooled, turbocharged with air-to-air cooling, electronic engine management.
Piston displacement	855 in ³ (14 L)
Bore x stroke	5.24 x 6.61 in (133 x 168 mm)
Gross power at 2,000 rpm (SAE J 1995)	450 hp (336 kW)
Net power at 2,000 rpm (SAE J 1349)	437 hp (326 kW)
Maximum torque at 1,350 rpm	1,548 lbf ft (2,100 Nm)
Engine emission meets	USA EPA Tier 3 /CARB MOH 40 CFR 89 Tier 3 and proposed EUNRMM (non-road mobile machinery directive) Tier 3.
Electrical system	24 volt electric start. 100A alternator. Two 12 volt 175 Ah batteries. Dry-type air cleaner with safety element, automatic dust ejector and restriction indicator.

Note: Net horsepower with fan clutch disengaged.

Transmission							
Allison HD4560 with integral retarder mounted directly to the engine. Fully automatic transmission with planetary gearing, electronic control with six forward and one reverse gear. The transmission assembly consists of a torque converter close-coupled to a countershaft type gearbox with integral output transfer gearing. Automatic shifting throughout the range, with kick-down feature. Lockup in all forward gears. A torque-proportioning output differential transmits drive permanently to front and rear axles. This differential may be locked by the driver for use in difficult traction conditions.							
Low Range	Forward					Reverse	
Gear	1	2	3	4	5	6	1
mph	3.4	7.3	10.5	16.0	20.5	23.3	3.0
km/h	5.5	11.7	16.9	25.8	33.0	37.5	4.8
High Range	Forward					Reverse	
Gear	1	2	3	4	5	6	1
mph	5.2	11	16.0	24.5	31.5	37.3	4.6
km/h	8.4	17.8	25.8	39.5	50.4	60.0	7.4

Specifications

Frame	
Front and rear frames are all-welded high grade steel fabrications with rectangular box-section beams forming the main side and cross members. Inter-frame oscillation is provided by a large diameter cylindrical coupling which houses nylon bushings. Frames articulate 45° to either side for steering by means of two widely-spaced pivot pins in back-to-back sealed taper roller bearings.	

Axles	
Three axles in permanent all-wheel drive (6 x 6) with differential coupling between each axle to prevent driveline wind-up. Heavy duty axles with fully-floating axle shafts and outboard planetary reduction gearing.	
Automatic limited slip differentials in each axle. Leading rear axle incorporates a through-drive differential to transmit drive to the rear most axle. This differential and the transmission output differential are locked simultaneously using one switch selected by the operator.	
Differential ratio	3.70:1
Planetary reduction	6.35:1
Overall Drivetrain reduction	23.50:1

Tires and Wheels	
Tires	Standard 29.5 R 25 two star radial.
Rims	Standard 25 x 25.00
Wheels	3-piece earthmover rims with 19 stud fixing

Suspension	
Front:	Four trailing links and a panhard rod locate the front axle giving a high roll center. The optimised front axle position along with the wide spaced main and rebound mounts, mounted directly above the axle and long suspension travel, combine with the two heavy duty dampers each side to give excellent handling and ride.
Rear:	Each axle is coupled to the frame by three rubber-bushed links with lateral restraint by a transverse link. Pivoting inter-axle balance beams equalise load on each rear axle. Suspension movement is cushioned by rubber/metal laminated compression units between each axle and underside of balance beam ends.
Pivot points on leading and trailing links are rubberbushed	

Brakes	
All hydraulic system with sealed, forced oil cooled, multi discs on all axles. Independent circuits for front and rear brake systems. Warning lights and audible alarm indicate low brake system pressure. Brake system conforms to ISO 3450, SAE J1473.	
Parking	Spring-applied, hydraulic-released disc on rear driveline
Secondary	Secondary brake control actuates the service brakes
Retardation	Engine brake and transmission retarder are standard. Engine brake operates automatically should engine approach overspeed condition.

Steering	
Hydrostatic power steering by two double-acting cushioned steering cylinders with pressure supplied by a variable displacement / load sensing piston pump. Secondary steering pressure is provided by a ground driven pump mounted on the dropbox. An audible alarm and warning light indicates should the secondary system activate.	
System conforms to ISO 5010, SAE J53	
Steering angle to either side	45°
Lock to lock turns, steering wheel	4
System pressure	3,480 psi (240 bar)

Hoist	
Two single-stage, double-acting hoist cylinders, cushioned at both ends of stroke. Variable displacement / load sensing piston pump driven from power take-off on transmission. Full flow return line filtration. Full electro-hydraulic hoist control, with electronic detent in power down.	
System pressure	3,480 psi (240 bar)
Pump output flow rate	85.6 gpm (5.4 L/sec)
Raise time, loaded	12.5 sec
Power down	8 sec

Body		
All welded construction, fabricated from high hardness (min. 360 BHN) 145,000 lbf/in ² (1,000 MPa) yield strength steel.		
Dual slope tailchute improves material ejection from body.		
Plate thicknesses:	Floor and tailchute	0.58 in (15 mm)
	Sides	0.47 in (12 mm)
	Front	0.31 in (8 mm)
Volume:	Struck (SAE)	22.8 yd ³ (17.4 m ³)
	Heaped 2:1 (SAE)	30.3 yd ³ (23.3 m ³)

Service Capacities	
Fuel tank	119 gal (450 L)
Hydraulic system	87.2 gal (330 L)
Cooling system	17.7 gal (67 L)
Engine crankcase (with filters)	8.4 gal (32 L)
Dropbox	2.6 gal (10 L)
Transmission & filters (including cooler)	16.1 gal (61 L)
Transmission & filters (wet fill)	7.4 gal (28 L)
Differential (front)	8.7 gal (33 L)
Differential (center)	8.9 gal (34 L)
Differential (rear)	8.7 gal (33 L)
Planetaries (each)	2.4 gal (9 L)

Standard Equipment

CAB	Steering, low pressure
Air conditioner 35,500 BTU/hr (10.4 kW)	Engine check
Cigar lighter, 24v	Diff locks
Coathook	WARNING LIGHTS
Engine diagnostic facility	Alternator charging
Heater and demister 35,415 BTU/hr (9.5 kW)	Body up
Hydraulic diagnostic facility RS232	Brake pressure - front and rear
Inspection lamp socket, 24v	Engine check
Insulation, thermal and acoustic	Engine 'Stop'
Interior light	Fuel, low level
Mirrors, rear view, 4	Diff. locks 'On'
Mug holder	Parking brake 'On'
Radio/cassette	Steering pressure
Seat, passenger ROPS/FOPS protection ISO 3471/3449 SAE J1040 Apr 88/J231	Transmission check
Seat belts, retractable J386	Oil filter change
Seat, operator, air suspension	Air filter change
Steering wheel, tilt/telescopic	GENERAL
Storage compartment	Air filter, dual element with restriction indicator
Sun blind	Articulation locking bar and oscillation lock pin
Tinted glass	Battery master switch
Transmission visual	Body prop
Display unit	Diagnostic test points
Window protection grille, rear	Downshift inhibitor
Wiper and washer, front and rear windows	Engine underguard, hinged
GAUGES	Engine brake
Fuel level	Fan, modulating
Hourmeter	Headlamp guards
Speedometer/odometer	Horn, electronic
Tachometer	LIGHTS
Transmission temperature	Headlamps, 4, halogen side, tail, stop, reverse.
Water temperature	Hazard warning and direction indicators
Volt meter	Work lights, roof-mounted
Brake cooling temperature	Light guards, rear
INDICATOR LIGHTS	Mudflaps, front
Turn signals	Mudflaps, in front of leading rear wheels
Headlight high beam	Neutral start interlock
AUDIBLE ALARMS	Pivot protection guard
Brakes tractor, low pressure	Reverse alarm, audible J994
Brakes trailer, low pressure	Servo body hoist
Engine stop	Tow points, front and rear
Transmission check	Transmission sump guard
	Tire Inflation, nitrogen (6 tires)

Optional Equipment

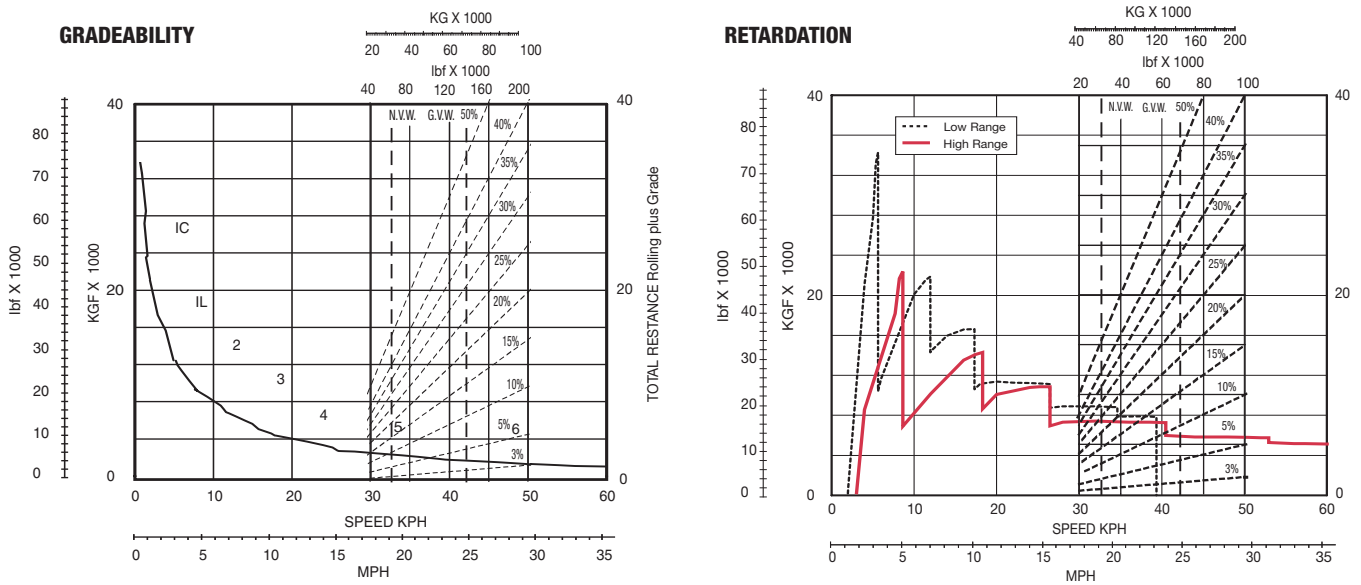
BODY OPTIONS	GENERAL
Exhaust heating	Auto lube system
Liner plates	Cold start kit
Side extensions	Fast fuel adapter
Spillguard extension	Fire extinguisher
Tailgate – scissor chain operated	First aid kit
Tailgate – underhinged	Headlamp guards, hinged
Fast fuel adaptor	Jake brake
Fire extinguisher	Mirror, front mounted
First aid kit	Mirrors, heated
LIGHTS	Mud flaps, in front of leading rear wheels
Beacon, flashing	Parking brake guard
Fog, rear	Tachograph
Reverse, flashing	Television monitor, rear view
Working, rear facing	Tool kit, hand
Mirror, front mounted	
Mirrors, heated	
Parking brake guard	
Seat heated	
Television monitor, rear view	
Tool kit, hand	

Weights

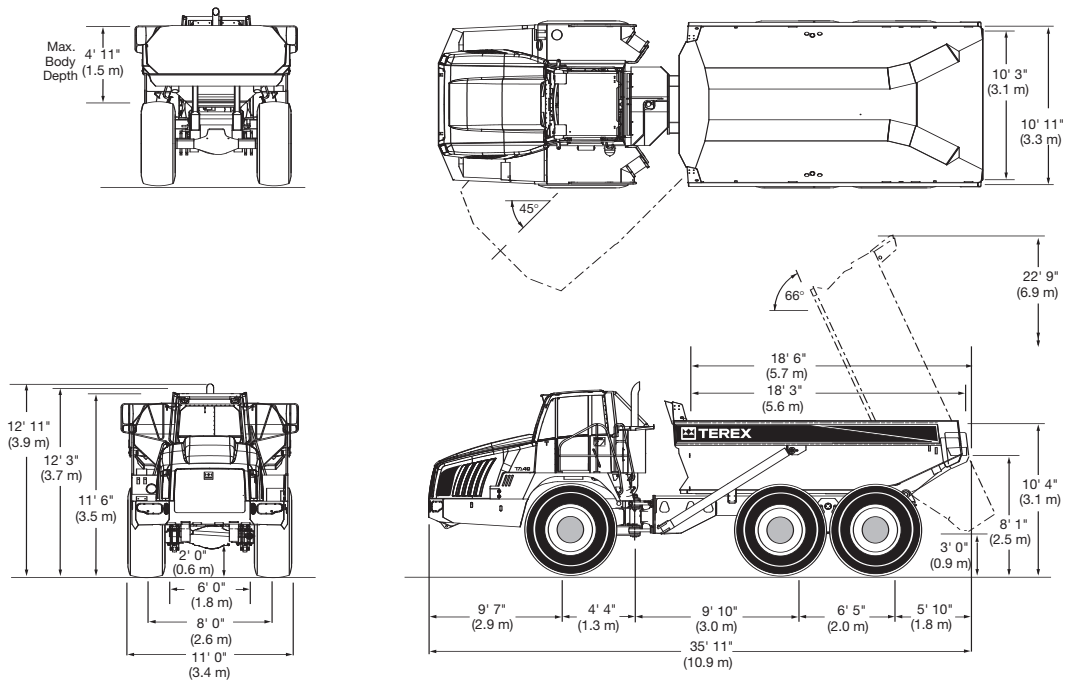
Net Distribution	
Front axle	34,936 lbs (15,880 kg)
Bogie axle, leading	16,500 lbs (7,500 kg)
Bogie axle, trailing	16,368 lbs (7,440 kg)
Vehicle, Net	67,804 lbs (30,820 kg)
Payload	83,775 lbs (38,000 kg)
Gross Distribution	
Front axle	40,304 lbs (18,320 kg)
Bogie axle, leading	55,000 lbs (25,000 kg)
Bogie axle, trailing	55,000 lbs (25,000 kg)
Vehicle, Gross	151,579 lbs (68,820 kg)
Hoists, pair	1,455 lbs (660 kg)

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Performance Data (Graphs Based On 0% Rolling Resistance)



Dimensions



For more information, product demonstration, or details on purchase, lease and rental plans, please contact your local TEREX Distributor.

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