

Rigid Haul Truck

MAX. GROSS VEHICLE WEIGHT	147,710- 347,715 lbs (47,690 - 112,690 kg)
NET ENGINE POWER	943 hp (703 kW)
MAX. PAYLOAD	100 Tons (91 t)
HEAPED CAPACITY	74.5 Yd ³ (57.0 m ³)



RIGID HAUL TRUCK
TR100

Specifications

Engine	
Model	Detroit Diesel MTU 16V-2000TA DDEC
Type	4 cycle turbocharged/charge air cooled
Gross power @ 2,100 rpm (SAE J 1995)	1,050 hp (783 kW)
Net power @ 2,100 rpm	943 hp (703 kW)
Engine requires no deration up to	10,200 ft (3,110 m) altitude.
Engine emission meets Tier 2 USA EPA/CARB MOH 40 CFR 89.	
Maximum torque @ 1,350 rpm	3,415 lbf ft (4,630 Nm)
Cylinders / configuration	16V
Bore x stroke	5.12 x 5.91in (130 x 150 mm)
Displacement	1,945 in ³ (31.9 L)
24 volt negative ground electrical system. Four 12 volt 210 Ah batteries with master disconnect switch. Two 8.9 kW starters. Neutral start. 70A alternator with integral voltage regulator.	

Transmission							
Allison M8610 with CEC 2 Shift Manager Program, Automatic Electronic Control. Remote mounted in the frame with integral TC 890 torque converter and planetary gearing. Six speeds forward, one reverse. Automatic lock-up in all speed ranges. Downshift inhibitor. Hydraulic retarder. Speeds with standard planetary:							
	Forward						Reverse
Gear	1st	2nd	3rd	4th	5th	6th	R1
Ratio	4.24	2.32	1.69	1.31	1.00	.73	5.75
mph	5.1	9.3	12.8	16.6	21.6	30.1	3.8
km/h	8.2	15.0	20.6	26.7	34.8	48.5	6.0

Specifications

Frame	
Full box section frame rails, integral front bumper, closed-loop crossmember and torque tubes of 42,000 psi (290 MPa) yield strength steel. Crossmember connections are 95,000 psi (655 MPa) steel castings.	

Axles		
Heavy duty axle with full floating axle shafts, single reduction spiral bevel gear differential, and planetary reduction at each wheel.		
Ratios:	Standard	Optional
Differential	2.16:1	2.16:1
Planetary	13.75:1	10.50:1
Total reduction	29.70:1	22.68:1

Tires and Wheels		
Standard: Front and rear	27.00-49 (48 Pr) e-4	rim width 19.5"
Consult tire manufacturers for optimum tire selection and correct ton-mile/h (t-km/h) capacity for application.		

Suspension	
Front: King pin strut type independent front wheel suspension uses self-contained, variable rate, nitrogen/oil cylinders.	
Rear: Variable rate nitrogen/oil cylinders with A-frame linkage and lateral stabilizer bar.	
Maximum strut stroke:	Front 9.25 in (235 mm) Rear 6.90 in (175 mm)
Maximum rear axle oscillation	± 7.0°

Brakes	
SERVICE – All hydraulic brake system control. Transmission mounted pressure compensating piston pump provides hydraulic pressure for brakes and steering. Independent circuits front and rear. Each circuit incorporates a nitrogen/hydraulic accumulator which stores energy to provide instant braking response.	
Front	Dry Disc, diameter 38" (965 mm) Pad area, total 320 in ² (2,015 cm ²)
Rear	TEREX oil cooled, multiple disc, completely sealed from dirt and water. Breaking Surface, total 13,573 in ² (87,567 cm ²)
PARKING – Rear brakes applied by spring loaded opposing piston on disc pack, hydraulically released.	
RETARDATION – Modulated lever control of rear disc brakes or hydraulic retarder in transmission. 1,234 hp (920 kW) continuous.	
SECONDARY – Park push button solenoid control applies service and parking brakes. Automatically applies when engine is switched off. Parking brake applies when system pressure falls below a pre-determined level.	
Brakes conform to ISO 3450, (SAE J 1473 Oct 90).	

Steering	
Independent hydrostatic steering with closed-center steering valve, accumulator and pressure compensating piston pump. Accumulator provides uniform steering regardless of engine speed. In the event of loss of engine power it provides steering of approximately two lock-to-lock turns. A low pressure indicator light warns of system pressure below 1,200 psi (83 bar). Steering conforms to ISO 5010, (SAE J 53).	
Maximum tire steering angle	39°

Hoist	
Two body hoist cylinders are mounted between the frame rails. Cylinders are two-stage with power down in the second stage. The body hydraulic system is independent of the steering hydraulic system.	
System relief pressure	2,750 lbf/in ² (190 bar)
Body hydraulic pump flow rate @ 2,100 rpm engine	97 gpm (365 L/min)
Body raise / lower time	16.3 seconds / 18.0 seconds

Body		
Longitudinal 'V' type floor with integral transverse box-section stiffeners. The body is exhaust heated and rests on resilient impact absorption pads. Full time exhaust is optional. Body wear surfaces are high hardness (360-440BHN) abrasion resistant steel of yield strength 145,000 lbf/in ² (1,000 MPa)		
Thickness:	Floor	0.75 in (19 mm)
	Side	0.39 in (10 mm)
	Front, lower	0.39 in (10 mm)
ROPS Cabguard SAE J1040 Feb 86. ISO 3471		
Volumes:	Struck (SAE std)	54.4 yd ³ (41.6 m ³)
	Heaped 2:1 (SAE std)	74.5 yd ³ (57.0 m ³)

Service Capacities	
Engine crankcase and filters	28.5 gal (108.0 L)
Transmission and filters	26.0 gal (100.0 L)
Cooling system	73.0 gal (276.0 L)
Fuel tank	336.8 gal (1,275.0 L)
Steering hydraulic tank	16.1 gal (61.0 L)
Steering hydraulic system (total)	19.0 gal (72.0 L)
Body hydraulic tank	78.5 gal (297.0 L)
Body hydraulic system and brake cooling system	147.1 gal (557.0 L)
Planetaries (total)	15.1 gal (57.0 L)
Differential	16.1 gal (61.0 L)
Front ride strut (each)	7.1 gal (27.0 L)
Rear ride strut (each)	4.8 gal (18.0 L)
Power take off	1.1 gal (4.0 L)

Standard Equipment

CAB

Acoustic lining
Air conditioner R 134A
18,500 BTU/hr (5.4 kW)
Armrest, operators door
Door locks
Floor mat
FOPS protection
(ISO 3449/SAE J 231)
Front brake pressure reduction
selector
Heater and defroster
(10.3 kW - 35,000 BTU/hr)
Interior light/courtesy light
Mug holder
Radio/cassette player
ROPS protection
(body cabguard) (ISO 3471/
SAE J1040)
Air suspension seat with high
back, headrest and 4-point
harness
Seat, passenger
Seat belts SAE J386
Steering column, adjustable
Sun visor, full cab width
Tinted glass
Utility compartment
Window, electric -
operators door
Windshield wipers - 2 speed
and washers

CONTROLS

Battery isolator
Auto transmission shift
Transmission test button
Power/economy key switch
Manual mode key switch

GAUGES

Converter temp
Engine coolant temp
Engine oil pressure
Fuel
Speedometer/odometer
Tach/hourmeter
Transmission oil pressure

INDICATOR LIGHTS & ALARM

Brake pressure, front
Brake pressure, rear
Steering pressure
Steering/brakes oil level
Transmission "do not shift"

INDICATOR LIGHTS ONLY

Air cleaner restriction
Alternator not charging
Body up
Brake oil temp
Converter drive
Coolant level
Coolant temp
Direction indicators
Engine oil pressure
Headlamps, main beam
Parking brake on
Retarder on
Steering filter restriction
Transmission "check"
Transmission filter restriction
Transmission manual mode
Transmission oil temperature
Warning light test

GENERAL

Accumulator steering
Air cleaners (2), two stage
Automatic transmission
Body down signal
Body heating, exhaust
Body hoist, servo actuated
Coolant filter
Diagnostic pressure test points
Downshift inhibitor
Dual brake system
Electric start
Engine pre-lube starter
Engine management system
Engine pan guard
Exhaust muffler (body up)
Exhaust muffler, part time
Front brake pressure reduction
sensor
Fuel sight gauge
Headlights - quartz halogen (4)
Horn, dual electric, 117db
(SAE J 1105)
Mud flaps
Nitrogen inflated tires
Operator arm guard
Parking brake (all wheels)
Radiator, replaceable tube core
Rear view mirrors - 4
Transmission retarder or
oil-cooled rear disc brakes
Retarder light - amber, rear

Reverse alarm	Shed plates, rear tires
Reversing light- quartz halogen	Side, tail, stop, direction indicators and hazard warning lights
Rock ejectors	Tow points, front and rear
Secondary brake system (all wheels)	Transmission guard
Security kit	
Separate steering and body hoist hydraulic systems	

Optional Equipment

GENERAL

Automatic lubrication	Fire suppression system
Beacon, flashing amber	Flashing strobe reverse light
Body, heavy duty	Oil drain kit, engine and transmission sumps
Body wear plates (floor, end, side and front protection)	On-board weighing system
Cold start kit	Planetary ratio 10.5:1
Differential, no spin	Spillguard extension, folding
Exhaust muffler, full-time	Tachograph
Fan clutch	Television monitor, rear view
Fast fuel adapter	Tool kit, hand
Fire extinguisher	Traction bias differential

Weights

Chassis, with hoists	114,595 lbs (51,980 kg)
Body, standard	33,115 lbs (15,020 kg)
Net Weight	147,710 lbs (67,000 kg)
Payload, maximum	200,000 lbs (90,720 kg)
Maximum Gross Weight*	347,715 lbs (157,720 kg)

FOR UNIT EQUIPPED WITH OPTIONAL HEAVY DUTY BODY:

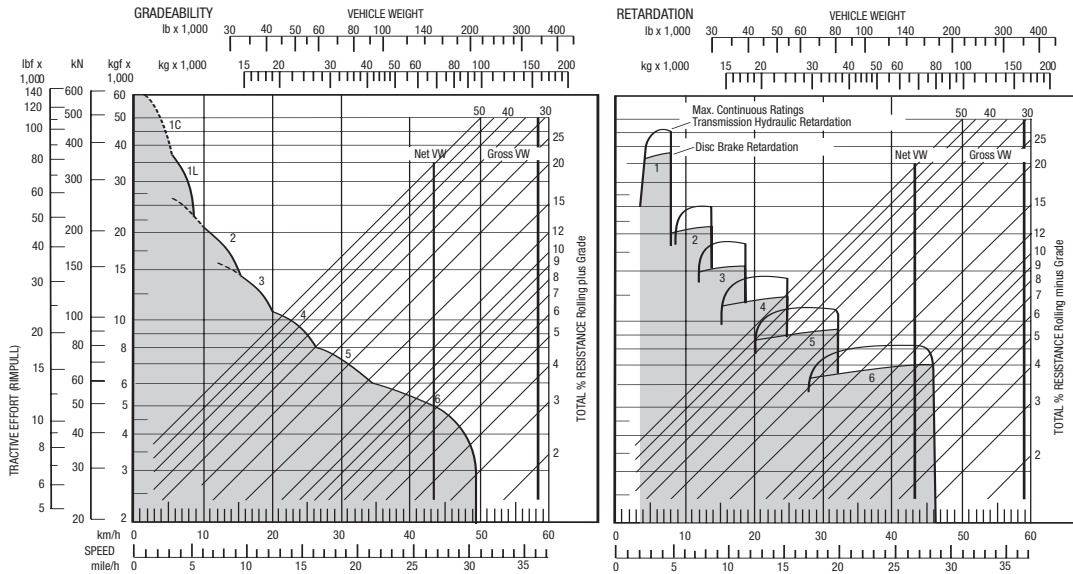
Chassis, with hoists	114,595 lbs (51,980 kg)
Body, heavy duty, rock	45,300 lbs (20,550 kg)
Net weight	159,895 lbs (72,530 kg)
PAYLOAD, maximum	187,810 lbs (85,190 kg)
Maximum gross weight*	347,715 lbs (157,720 kg)

*Maximum permissible gross vehicle weight with options, attachments,
full fuel tank and payload.

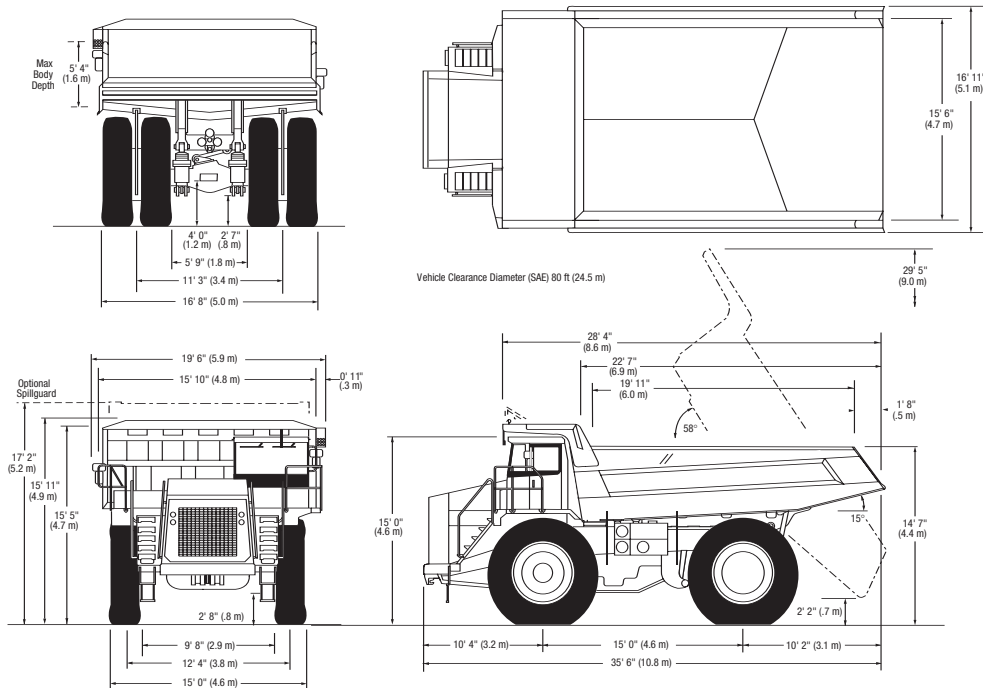
WEIGHT DISTRIBUTION	Front Axle	Rear Axle
Empty	49%	51%
Loaded	34%	66%

Rigid Haul Truck TR100

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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