

# RIGID DUMP TRUCK



## Specifications

Max. Gross Weight	248,440 lbs (112,690 kg)
Gross Engine Power	760 hp (567 kW)
Max. Payload	72 tons (65 t)
Heaped Capacity	54.3 yd <sup>3</sup> (41.5 m <sup>3</sup> )

## Features

- Rugged construction for reliability and long life
- High capacity body with large target-area for easy loading
- Optional drive line ratios for job specific performance
- Dual-retardation gives operator the choice of using the oil cooled disc brakes or the hydrodynamic retarder for faster haul times
- Steps and full size doors on both side of the cab offers ease of access
- Added stability with widest track and longest wheelbase in the class

# SPECIFICATIONS

## Engine

Engine	Detroit Diesel MTU 12V2000TA DDEC
Type	4 Cycle, Turbocharged/Aftercooled
Gross power @ 2,100 rpm (SAE J1349)	760 hp (567 kW)
Net power @ 2,100 rpm	685 hp (511 kW)
Engine emission meets Tier 2 USA EPA / CARB MOH 40 CFR 89 and proposed EU NRMM (non-road mobile machinery) directive.	
Maximum torque @ 1,350 rpm	2,450 lbf ft (3,323 Nm)
Cylinders/Configuration	12V
Bore x stroke	5.11" x 5.91" (130 x 150 mm)
Displacement	1,464 in <sup>3</sup> (24 L)
24 volt negative ground electrical system. Two 12 volt 165 Ah batteries with master disconnect switch. 12 hp (9 kW) electric starter. Neutral start. 70A alternator with integral voltage regulator.	

## Transmission

Allison M6610AR automatic electronic control with Soft Shift feature. Planetary gearing with six speeds forward and two reverse. Integral torque converter with automatic lock-up in all speed ranges. Hydraulic Retarder. Speeds with standard differential:

Gear	Forward						Reverse	
	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>	R1	R2
Ration	4.00	2.68	2.01	1.35	1.00	0.67	5.12	3.46
mph	5.90	8.80	11.80	17.50	23.70	35.50	4.6	6.80
km/h	9.50	14.20	18.90	28.20	38.10	57.00	67.4	11.00

## 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.

## Suspension

**Front:** Terex manufactured kingpin strut-type independent front wheel suspension using self-contained, variable rate, nitrogen/oil cylinders.

**Rear:** Terex variable rate nitrogen/oil cylinders with A-frame linkage and lateral stabilizer bar.

Maximum strut stroke:	Front	9.25 in (235 mm)
	Rear	7.6 in (193 mm)

Maximum rear axle oscillation ± 6.5

## Drive Axle

Terex heavy duty axle with full floating axle shafts, single reduction spiral bevel gear differential, and planetary reduction at each wheel.

Ratios:	Standard	Optional
Differential	3.73:1	3.15:1
Planetary	5.80:1	5.80:1
Total Reduction	21.63:1	18.27:1



## Tires

Standard: front and rear	24:00 R 35 radial	Rim width 17"
Consult tire manufacturers for optimum tire selection and correct ton-mile/h (t-km/h) capacity for application. Tires subject to availability.		

## 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.

<b>Front:</b>	Dry disc, diameter	28 in (710 mm)
	Pad area, total	432 in <sup>2</sup> (2,788 cm <sup>2</sup> )

**Rear:** Terex oil cooled, multiple disc, completely sealed from dirt and water.

Lining Area, total	10,445 in <sup>2</sup> (67,390 cm <sup>2</sup> )
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**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. 900 hp (670 kW) continuous retardation.

**Secondary Brake System** – 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

## 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	42°
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## Hoist

Two body hoists mounted inside the frame rails. Hoists 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 psi (190 bar)
Body hydraulic pump flow rate @ 2,100 rpm	97 gpm (6.1 L)
Body raise / lower time	13 seconds / 11.5 seconds



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# SPECIFICATIONS

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## 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 floor wear surfaces are high hardness (450 BHN) abrasion resistant steel, of yield strength 174,000 psi (1,200 MPa). All other wear surfaces are high hardness (360-440BHN) abrasion resistant steel, of yield strength 145,000 lbf/in<sup>2</sup> (1,000 MPa).

Thickness:	Floor	0.75 in (19 mm)
	Side	0.39 in (10 mm)
	Front, lower	0.39 in (10 mm)

ROPS cab guard SAE J1040 Feb 86. ISO 3471

Volumes:	Struck (SAE)	38.0 yd <sup>3</sup> (29 m <sup>3</sup> )
	Heaped 2:1 (SAE)	54.3 yd <sup>3</sup> (41.5 m <sup>3</sup> )

## Service Capacities

Engine crankcase and filters	25.0 gal	(94.0 L)
Transmission and filters	22.5 gal	(85.0 L)
Cooling system	62.3 gal	(236.0 L)
Fuel tank	248.0 gal	(938.0 L)
Steering hydraulic tank	16.0 gal	(61.0 L)
Steering hydraulic system (total)	24.3 gal	(92.0 L)
Body hydraulic tank	68.0 gal	(258.0 L)
Body hydraulic and brake cooling system	114.0 gal	(432.0 L)
Planetaries (total)	11.4 gal	(43.0 L)
Differential	13.7 gal	(52.0 L)
Front ride strut (each)	6.6 gal	(14.0 L)
Rear ride strut (each)	5.5 gal	(21.0 L)
Power take off	1.0 gal	(4.0 L)

## Weights

Chassis with hoists	79,780 lbs	(36,190 kg)
Body, standard	25,350 lbs	(11,500 kg)
Net Weight	105,140 lbs	(47,690 kg)
Payload, maximum	143,300 lbs	(65,000 kg)
Maximum Gross Weight*	248,440 lbs	(112,690 kg)

### For Unit Equipped With Optional Heavy Rock Body:

Chassis, with hoists	79,780 lbs	(36,190 kg)
Body, heavy duty	31,415 lbs	(14,250 kg)
Net Weight	111,200 lbs	(50,440 kg)
Payload, maximum	137,240 lbs	(62,250 kg)
Maximum Gross Weight*	248,440 lbs	(112,690 kg)

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

Weight Distribution		Front Axle	Rear Axle
	Empty	48%	52%
	Loaded	34%	66%

# STANDARD EQUIPMENT

## General

Accumulator steering	Mud flaps
Air cleaners (2), two stage	Nitrogen inflated tires
Automatic transmission	Operator arm guard
Body down signal	Parking brake (all wheels)
Body heating, exhaust	Rear view mirrors - 4
Body hoist, servo actuated	Transmission retarder or oil-cooled rear disc brakes
Coolant filter	Retarder light - amber, rear
Diagnostic pressure test points	Reverse alarm
Radiator, replaceable tube core	Reversing light- quartz halogen
Downshift inhibitor	Rock ejectors
Dual brake system	Secondary brake system (all wheels)
Electric start	Security kit
Engine management system	Separate steering and body hoist hydraulic systems
Engine pan guard	Shed plates, rear tires
Exhaust muffler (body up)	Side, tail, stop, direction indicators and hazard warning lights
Exhaust muffler, part time	Tow points, front and rear
Fuel sight gauge	Transmission guard
Headlights - quartz halogen (4)	Rear view camera system
Horn, dual electric, 117db (SAE J 1105)	

## Cab

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

## Controls

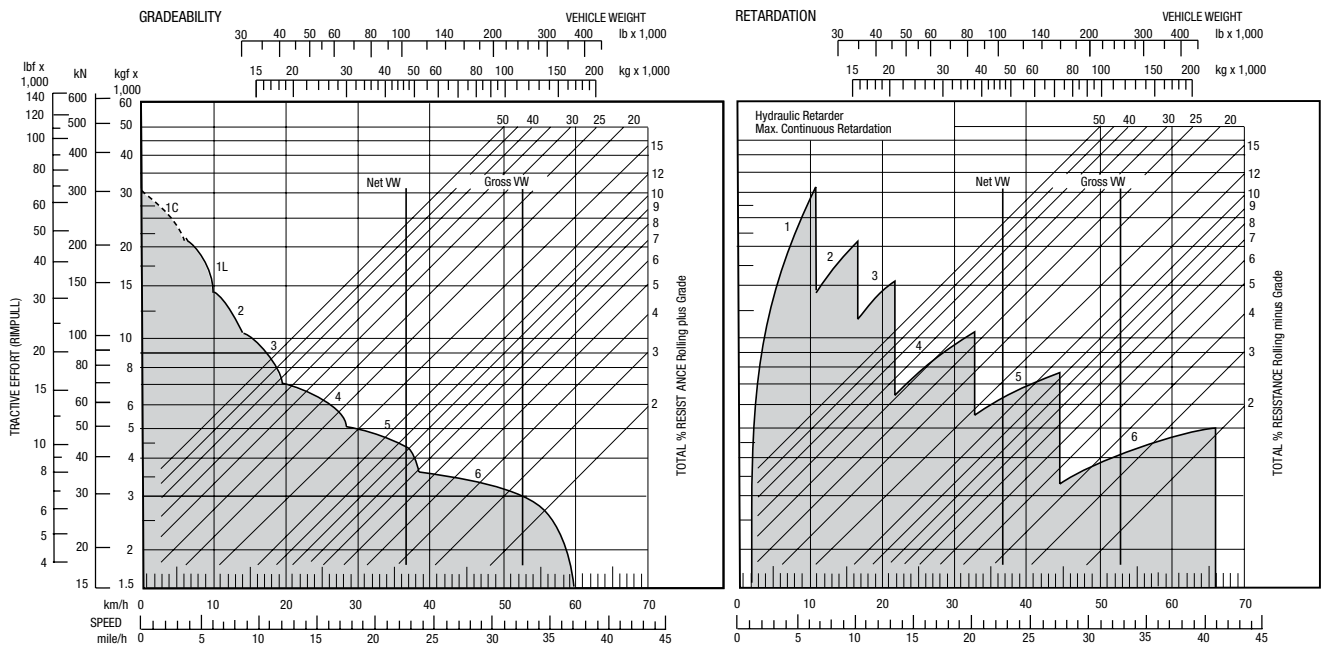
Battery isolator	Power/economy key switch
Auto transmission shift	Manual mode key switch
Transmission test button	

## Gauges

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

# PERFORMANCE DATA

Graphs Based On 0% Rolling Resistance



## STANDARD EQUIPMENT

### Indicator Lights Only

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

### Indicator Lights & Alarm

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



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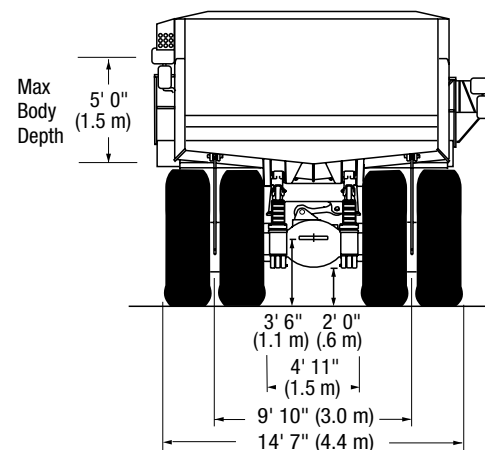
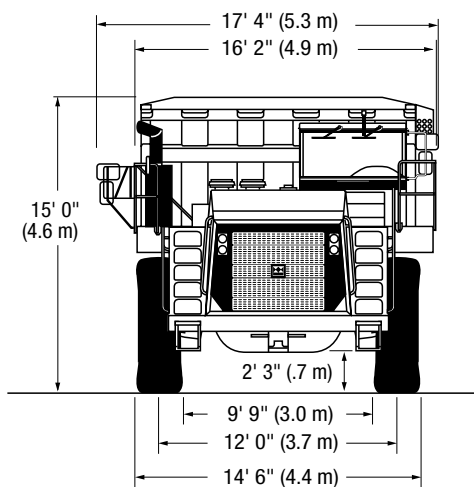
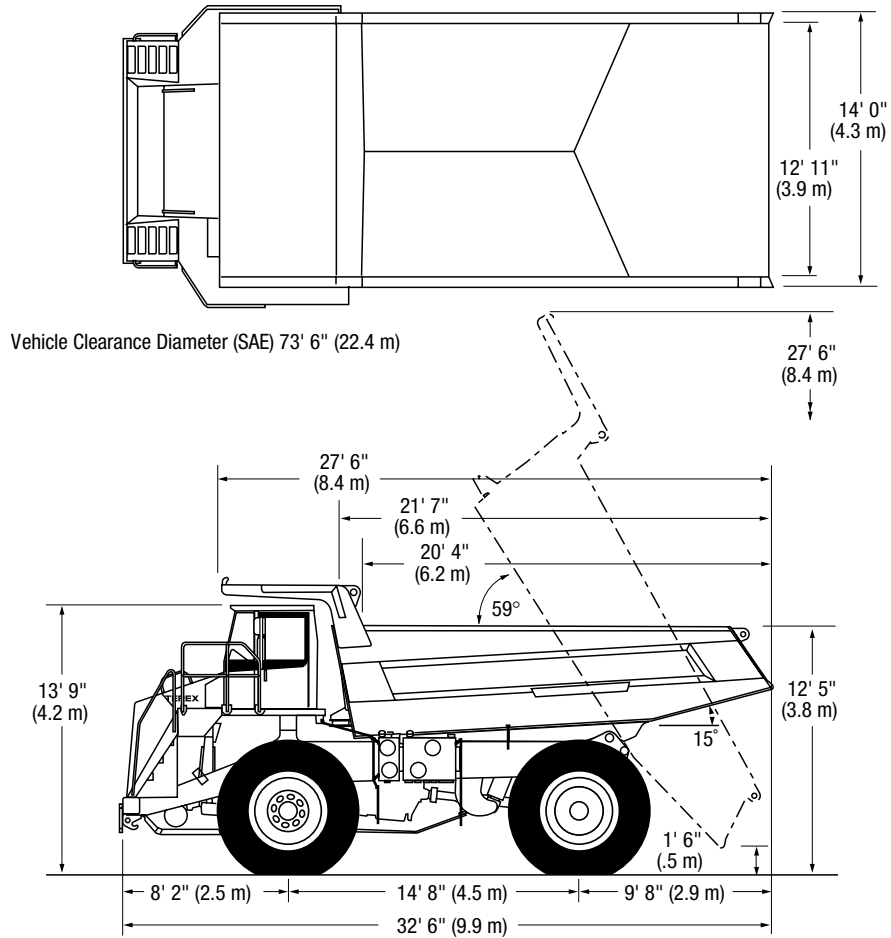
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# DIMENSIONS

# TR70



# OPTIONAL EQUIPMENT

## General

Alternator, 100 amp	Differential, no spin	Fast fuel adapter	On-board weighing system
Automatic lubrication	Differential 3.15:1	Fire extinguisher	Spillguard extension, folding
Beacon, flashing amber	Engine pre-lube starter	Fire suppression system	Tachograph
Body, heavy duty	Exhaust muffler, full-time	Flashing strobe reverse light	Tool kit, hand
Body wear plates (floor, end, side and front protection)	Oil drain kit, engine and transmission sumps	Front brake pressure reduction sensor	Custom options may be available upon request
Cold start kit	Fan clutch	Front brake pressure reduction selector	

## terex.com

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