

# 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

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# 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> ) |
|--------------------|--|

**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° |
|-----------------------------|-----|

## 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 |

# 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<br>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 |                          |

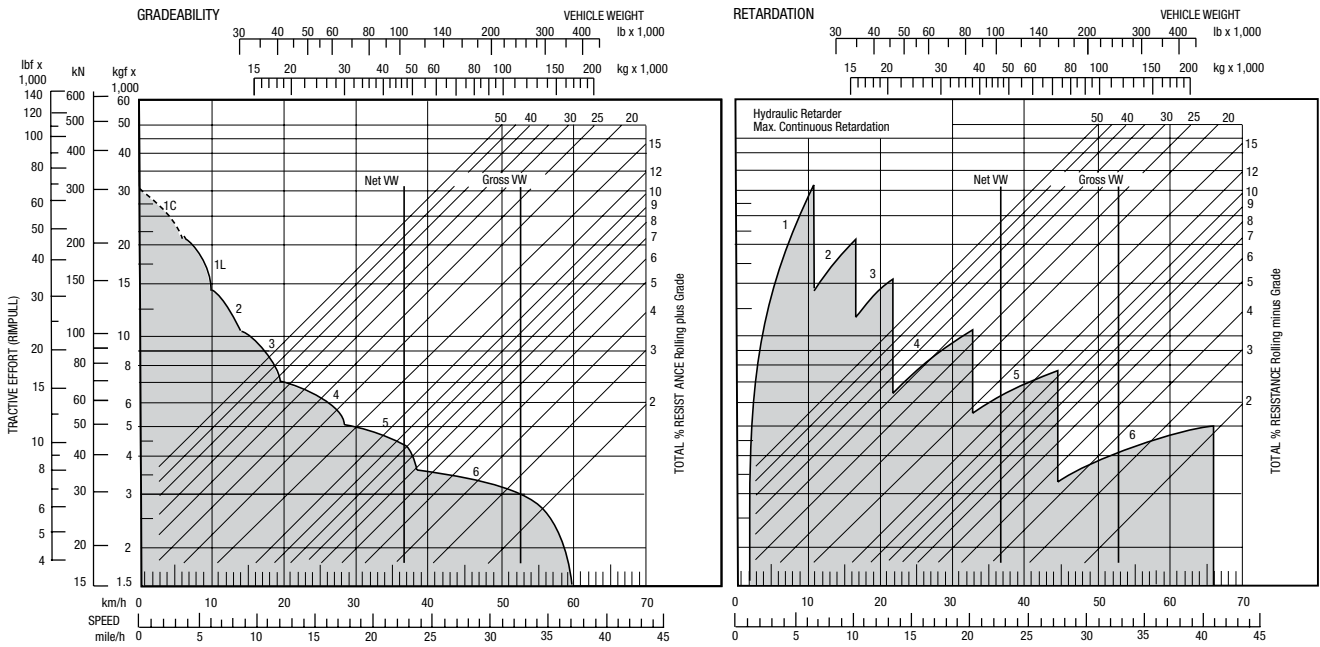
## Gauges

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

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# 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

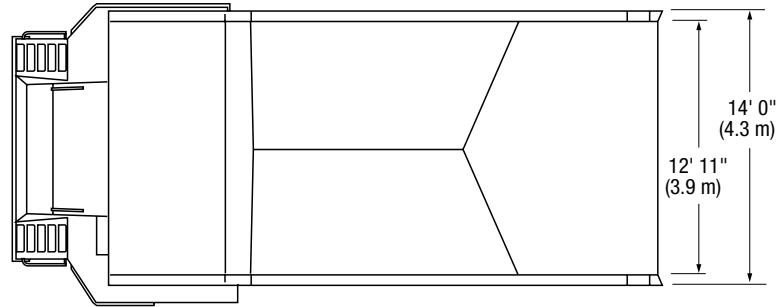
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|------------------------------|-----------------------------|
| Brake pressure, front & rear | Steering/brakes oil level   |
| Steering pressure            | Transmission "do not shift" |



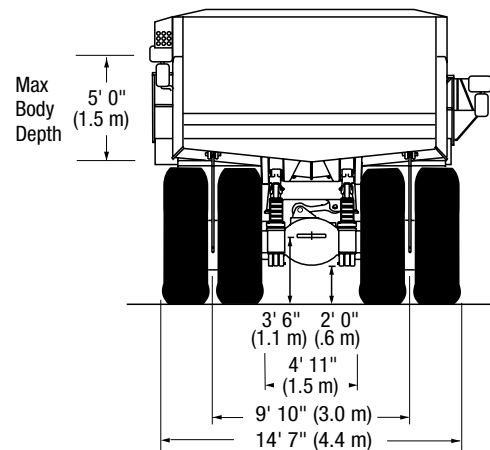
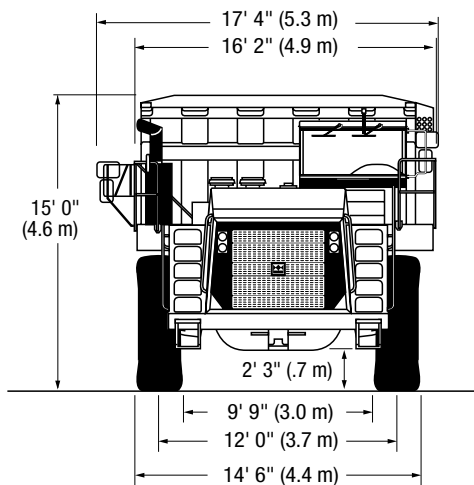
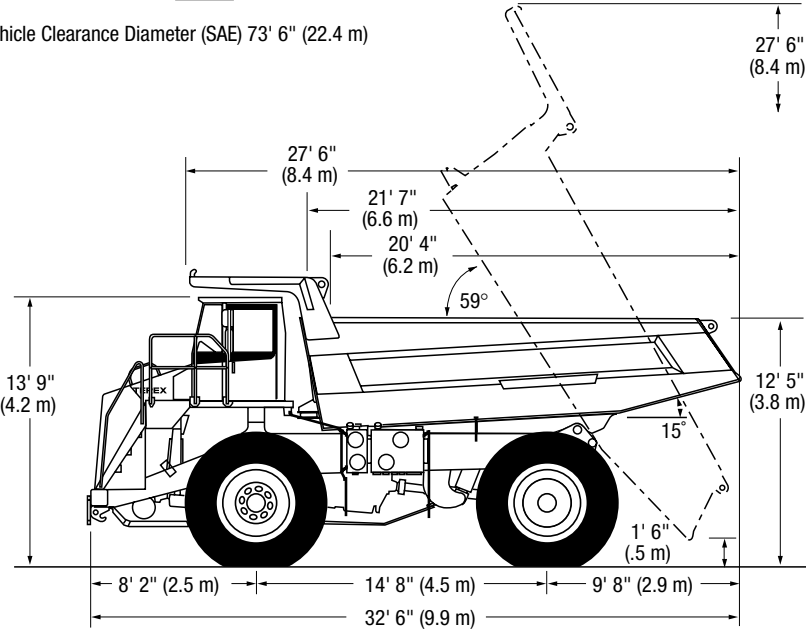
**TEREX**®

# DIMENSIONS

# TR70



Vehicle Clearance Diameter (SAE) 73' 6" (22.4 m)



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# 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 |  |

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