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TR45

Rigid Haul Truck

MAX. GROSS VEHICLE WEIGHT	171,870 lbs (77,960 kg)
NET ENGINE POWER	495 hp (370 kW)
MAX. PAYLOAD	45 Tons (41 t)
HEAPED CAPACITY	34 Yd ³ (26 m ³)



Specifications

Frame

Full box section frame rails, integral front bumper, closed-loop crossmember and torque tubes of 42,000 lbf/in² (290 MPa) yield strength steel. Cross member connections are 95,000 lbf/in² (655 MPa) steel castings.

Engine

Make / Model	Cummins QSK19-C525
Type	4 cycle, turbocharged / CAC
Gross power @ 2,100 rpm (SAE J1995)	525 hp (392 kW)
Net power @ 2,100 rpm	495 hp (370 kW)
Engine emission meets Tier III USA EPA/CARB MOH 40 CFR 89 and EU non-road mobile machinery directive. Stage 3.	
Maximum torque @ 1,300 rpm	1,775 lbf ft (2,441 Nm)
Cylinders/Configuration	6 in line
Bore x stroke	6.25 x 6.25 in (159 x 159 mm)
Displacement	1,150 in ³ (18.9 L)
24 volt negative ground electrical system. Two 12 volt 165 Ah batteries with master disconnect switch. 8.9 kW starter. Neutral start. 70A alternator with integral voltage regulator.	

Transmission

Allison M5610AR automatic electronic control with Soft Shift feature. Mounted mid-frame for ease of access. Integral torque converter and planetary gearing. Six speeds forward, two reverse. Automatic lock-up in all speed ranges. Downshift inhibitor. Hydraulic retarder.

Gear	Forward					Reverse		
	1st	2nd	3rd	4th	5th	6th	R1	R2
Ratio	4.00	2.68	2.01	1.35	1.00	0.67	5.12	3.46
mph	7.0	10.5	13.9	20.8	28.1	40.4	4.4	8.0
km/h	11.3	16.8	22.4	33.4	45.2	65.0	7.1	12.9

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	9.9 in (251 mm)
Rear	7.2 in (182 mm)
Maximum rear axle oscillation	± 6.5 Degrees

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Specifications

Drive Axle		
Terex heavy duty axle with single reduction spiral bevel gear differential, full floating axle shafts, and planetary reduction at each wheel.		
Ratios:	Standard	Optional
Differential	3.15:1	3.73:1
Planetary	5.66:1	5.66:1
Total Reduction	17.83:1	21.11:1

Tires		
Standard: Front and rear	21.00-35 bias ply	rim width 15"
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. 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 consistent braking response.		
Front:	Dry disc, diameter	26 in (660 mm)
	Swept area, front, total	928 in ² (5 985 cm ²)
	Pad area, total	216 in ² (1 395 cm ²)
Rear: Terex multi-plate oil-immersed brakes continuously cooled by oil flow supplied by a tandem pump on engine power take-off, and passing through a high capacity oil/water heat exchanger. Brake packs are sealed from contamination and are self adjusting.		
Friction discs		14 total
Diameter		25.5 in (648 mm)
Braking Surface, total		5,938 in ² (38,310 cm ²)
Cooling flow, maximum		146 gpm (553 Lpm)
PARKING – Application of rear brakes by springs in brake disc pack. Hydraulically released.		
RETARDATION – Modulated lever control of rear disc brakes or hydraulic retarder in transmission. 700 hp (522 kW) continuous.		
SECONDARY BRAKE SYSTEM – Push button solenoid control applies service and parking brakes. Automatically applies when engine is switched off. Parking brake applies should system pressure fall below a pre-determined level.		
Brakes conform to ISO 3450, SAE J1473 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 J53).	
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 speed	60 gpm (227 Lpm)
Body raise / lower time	13 seconds / 9 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 cab guard SAE J1040 Feb 86. ISO 3471		
Volumes:	Struck (SAE)	25.6 yd ³ (19.6 m ³)
	Heaped 2:1 (SAE)	34.0 yd ³ (26.0 m ³)

Service Capacities		
Engine crankcase and filters	16.4 gal	(62.0 L)
Transmission and filters	18.0 gal	(68.0 L)
Cooling system	38.0 gal	(144.0 L)
Fuel tank	160.0 gal	(606.0 L)
Steering hydraulic tank	16.0 gal	(61.0 L)
Steering hydraulic system (total)	22.5 gal	(85.0 L)
Body hydraulic tank	57.0 gal	(216.0 L)
Body hydraulic and brake cooling system	97.0 gal	(368.0 L)
Planetaries (total)	17.4 gal	(66.0 L)
Differential	15.8 gal	(60.0 L)
Front ride strut (each)	3.7 gal	(14.0 L)
Rear ride strut (each)	4.5 gal	(17.0 L)
Power take off	1.0 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)
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 management system
Engine pan guard
Exhaust muffler (body up)
Exhaust muffler, part time
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)
Rear view mirrors - 4
Transmission retarder or oil-cooled rear disc brakes
Retarder light - amber, rear
Reverse alarm
Reversing light- quartz halogen

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

Optional Equipment

GENERAL

Automatic lubrication	Fire extinguisher
Beacon, flashing amber	Fire suppression system
Body, heavy duty	Flashing strobe reverse light
Body wear plates (floor, end, side and front protection)	Front brake pressure reduction selector
Body, 40-ton (36.3t) payload	Front brake pressure reduction sensor
Cold start kit	Oil drain kit, engine and transmission sumps
Differential, no spin	On-board weighing system
Differential 3.73:1	Spillguard extension, folding
Engine pre-lube starter	Tachograph
Exhaust muffler, full-time	Television monitor, rear view
Fan clutch	Tool kit, hand
Fast fuel adapter	

Weights

Chassis with hoists	61,365 lbs	(27,835 kg)
Body, standard	20,500 lbs	(9,300 kg)
Net Weight	81,870 lbs	(37,135 kg)
Payload, maximum	90,000 lbs	(40,825 kg)
Maximum Gross Weight*	171,870 lbs	(77,960 kg)

FOR UNIT EQUIPPED WITH OPTIONAL HEAVY DUTY BODY:

Chassis, with hoists	61,365 lbs	(27,835 kg)
Body, heavy duty	23,810 lbs	(10,800 kg)
Net Weight	85,175 lbs	(38,635 kg)
Payload, maximum	86,695 lbs	(39,325 kg)
Maximum Gross Weight*	171,870 lbs	(77,960 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%

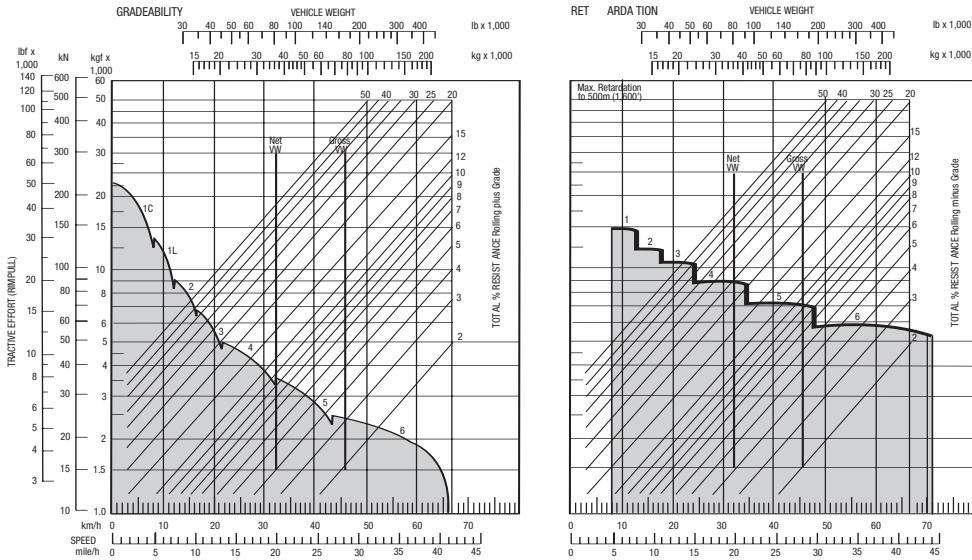
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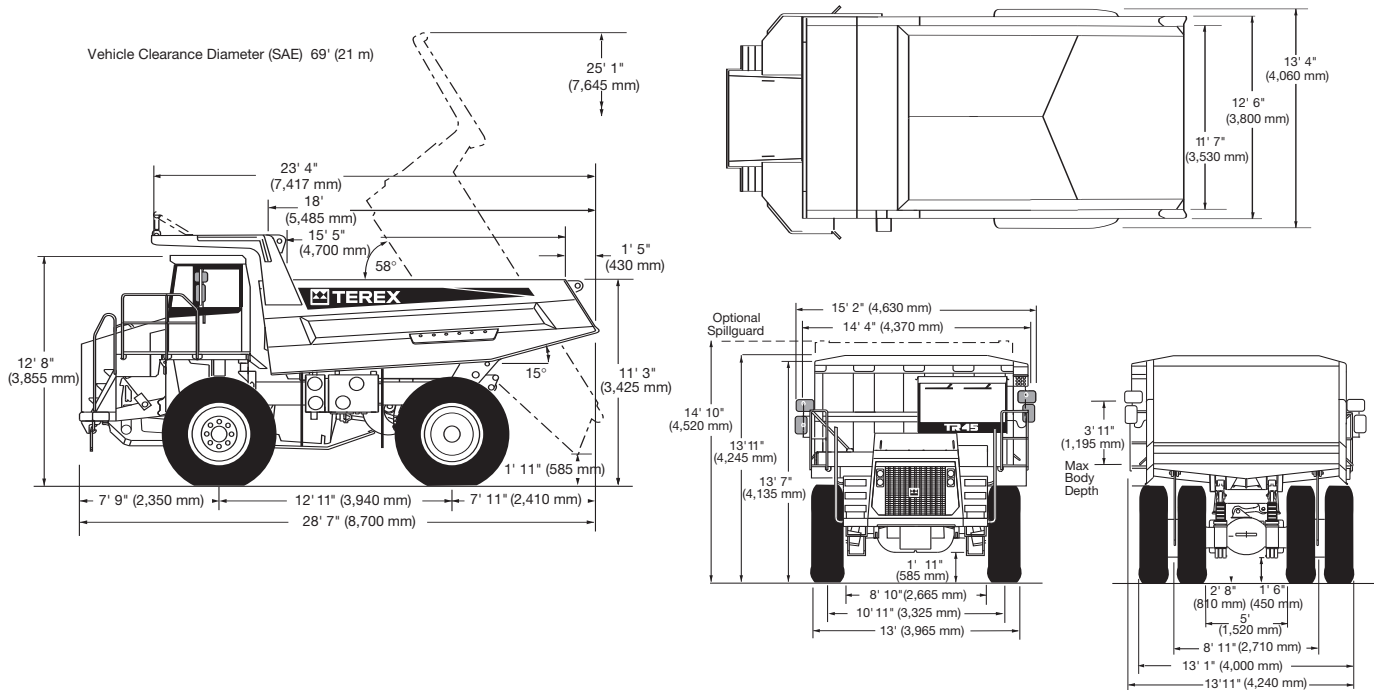
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TR45 Performance Data (Graphs Based On 0% Rolling Resistance)



Dimensions



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



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