TEREX

Articulated Trucks TA25 TA27 TA30 NEW TA35 NEW TA40

BUILDING ON TECHNOLOGY

TEREX

Building on technology

TEREX has grown to become one of the most influential companies within the Construction industry.

TEREX has invested in research and development, engineering, rigorous testing and training plus state-of-the-art manufacturing processes to develop a portfolio of new Construction products. By building on technology and pioneering innovation, TEREX has developed a Construction range that consistently exceeds the customers' expectations by providing world class **reliability, durability, safety and productivity**.

- **Construction**
  - Off Highway Rigid and Artic Trucks
  - Crawler and Mobile Excavators
  - Mini/Midi Excavators
  - Material Handlers
  - Railroad Excavators
  - Wheel Loaders
  - Backhoe Loaders
  - Hydraulic Hammers
  - Telescopic Handlers
  - Pumps
  - Mixers and Light Construction Equipment
  - Site Dumpers
  - Rollers and Compaction Equipment
  - Motor Graders
  - Scrapers
- **Aerial Work Platforms**
- **Cranes**
- **Roadbuilding and Utility**
- **Mining and Material Processing**

BUILDING ON TECHNOLOGY

TEREX is committed to manufacturing high quality, reliable, construction products for diverse applications including roadbuilding, quarrying and mining to optimise your productivity and profitability.

With more than 60 years experience and a powerful global distribution network, TEREX undertakes all research, development, manufacturing and marketing of its off-highway trucks and scrapers from its Scottish factory.

TEREX's range of class-leading, rough terrain articulated trucks have the ability to go where others can't follow. This articulated range work on sites ranging from sand and gravel quarries to underground coal mines and major road construction projects. The TEREX articulated trucks offer high productivity at low cost. With a payload choice of 25 to 42 tons (23 to 38 tonnes) each machine in the range delivers effective performance and low maintenance requirements.

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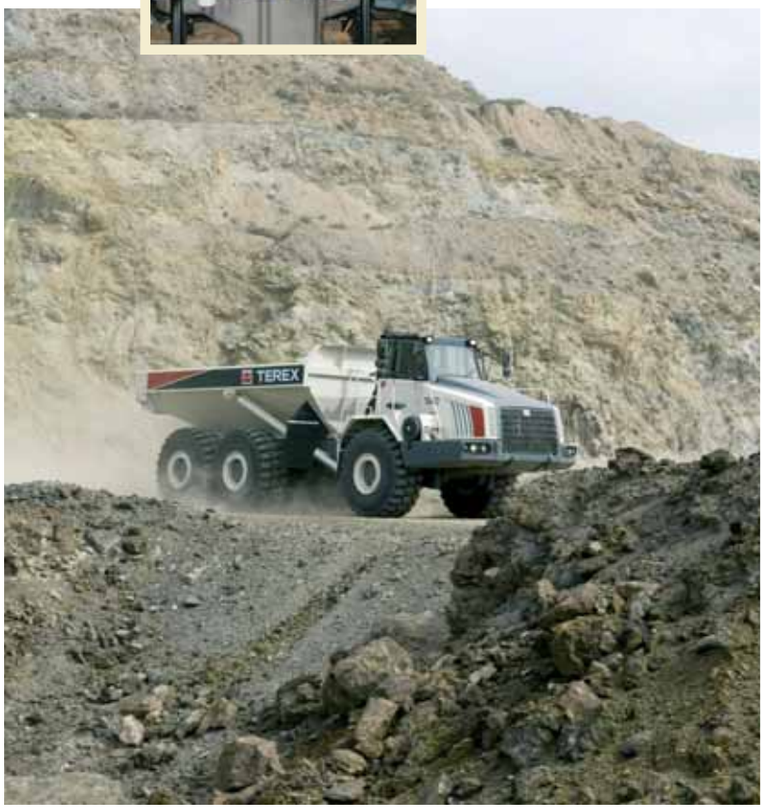
LATEST IN ENGINE TECHNOLOGY

- TA27 and TA30 feature the well-proven QSM11 Tier 3 engine which provides the TA27 with a gross power of 270kW (365hp) and the TA30 287kW (385hp) giving high power for exceptional performance
- TA35 and TA40 are powered by the Detroit Diesel Series 60, 14 litre engine with the latest DDEC V electronic management system meeting Tier 3 engine emissions.
- These engines are tuned to produce high torque levels, resulting in excellent acceleration and the ability to operate in the most arduous of conditions



TRANSMISSIONS WITH THE LATEST TECHNOLOGY IN ELECTRONICS

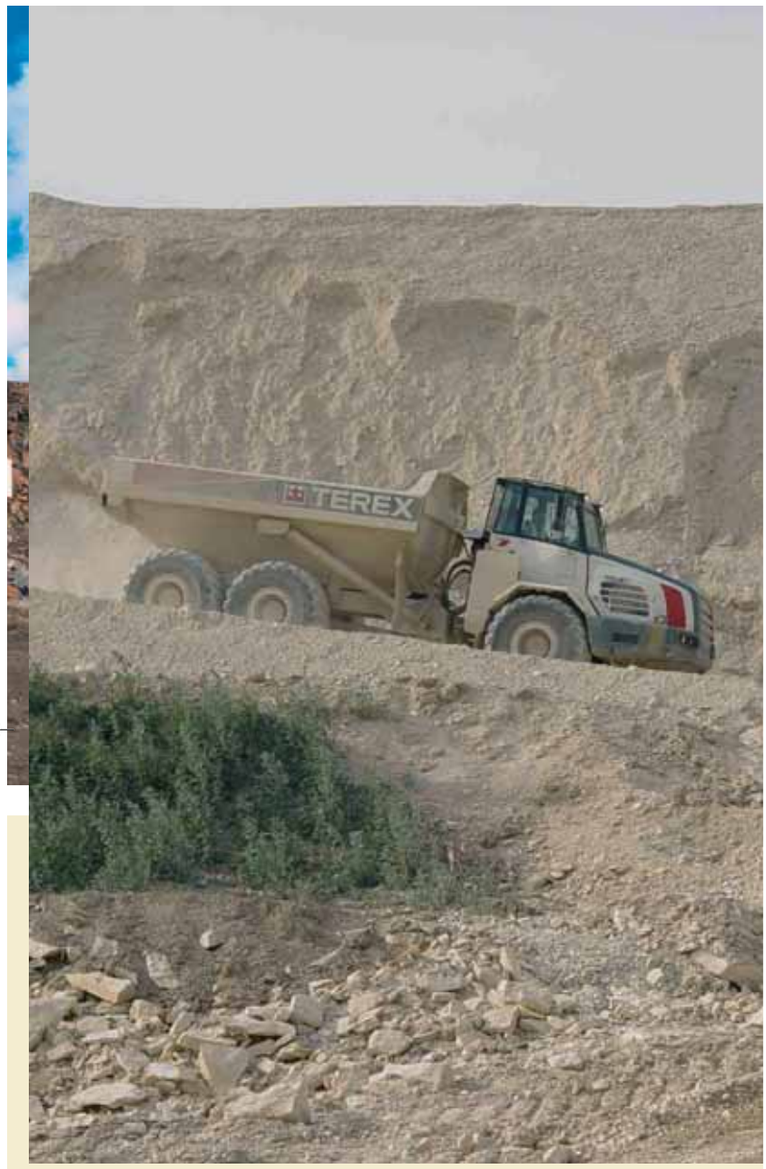
TA25, TA27 and TA30

- Smooth-shifting transmissions with integral torque converter and six forward and three reverse gears
- Fully automatic transmission with a manual over-ride function
- The TA27 and TA30 models have engine retarder as standard

TA35 and TA40

- Fitted with the Allison HD4560 tranmission with integral retarder, mounted directly to the engine
- Fully automatic transmissions with planetary gearing, electronic control with six forward and one reverse gear
- Fitted with a remote mounted 2 speed transfer gearbox taking drive from the tranmission to the front and rear axles

Building on technology



BRAKING POWER

- Robust and reliable full power hydraulic actuation reduces regular servicing requirements and eliminates the daily maintenance required with compressed air systems
- Secondary brake control actuates service and parking brakes

TA25 and TA35

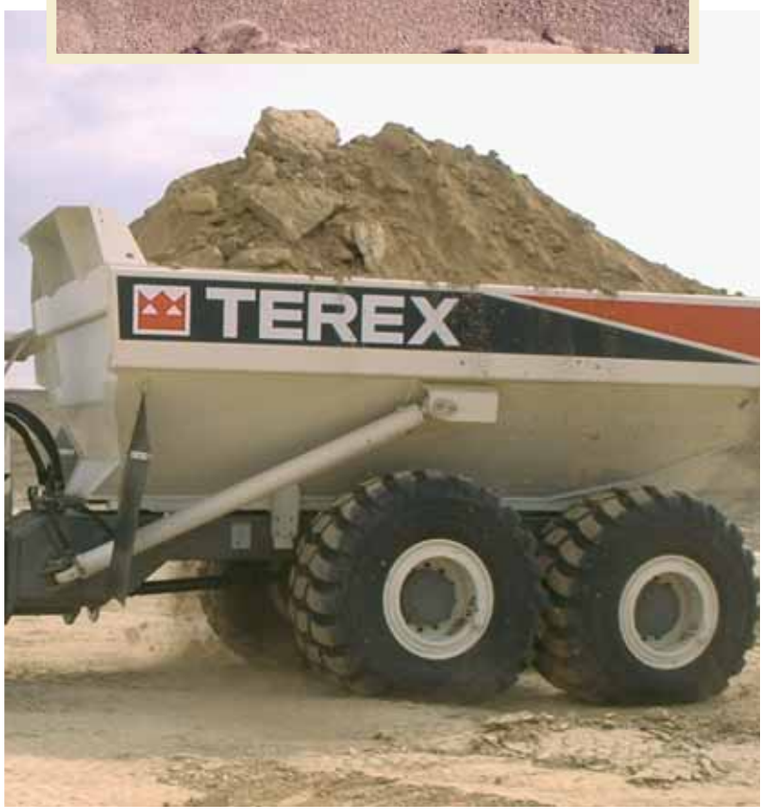
- Stopping power - Dry disc on each wheel with heavy duty calipers

TA27, TA30 and TA40

- Multi disc sealed and oil cooled brakes on all three axles

HIGH CAPACITY BODY DESIGN

- Extra tonnage per payload
- Rugged flat plate design made from impact resistant high strength steel
- The high hinge point, dual slope tailchute and tapered sides ensure controlled release of the load
- Pivot area protected from material spills due to spill guard
- Fast dump cycle due to high oil flow and pressure within the advanced hydraulic system



PRODUCT OVERVIEW

- High powered, heavy-duty trucks with powerful engines providing class leading performance and ability to go where others can't follow
- Heavy duty transmissions have built-in reserve for long life and reliability
- Heavy duty, large diameter drivelines are maintenance free, providing strength and longevity
- Featured on the Generation 7 articulated trucks is the ability to TILT the cab, giving unrestricted access for inspection and maintenance. Ensuring maximum production and minimum down time.
- Stopping power – TA27 and TA30 - Oil cooled multi discs on all axles
- High capacity body – maximum payload (ranging from 23t to 38t (25 to 42 US Ton)) means optimum productivity and lowest cost per tonne

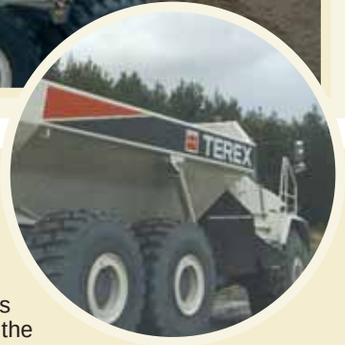
TA25, TA27 & TA30

Benefits

- Optimum clearance with the body raised, when dumping at hoppers and stock piles
- Better performance and handling in harsh conditions due to high torque output
- Faster cycle times and improved hill climbing ability given by the increased horsepower output
- Large capacity body provides a lower cost per tonne, thus more profit for the customer
- Higher power to weight ratio provides a faster cycle time even in arduous conditions and steep gradients

TA35 & TA40

Benefits



- High torque and horse-power output provides better performance in the harshest of conditions
- High capacity engines - world class Detroit Diesel engines give outstanding performance, reliability and durabilty
- Both trucks are fitted with a 14.0 litre engine with overhaul intervals between 15,000 and 20,000 hours
- Excellent braking thanks to the oil cooled multi disc pack on all axles, thus ensuring efficient braking

Building on technology

TA25 TA27 TA30

- High power, high torque, emission-certified engine for maximum performance
- Automatic transmission with manual over-ride for optimum shifting
- **NEW** TA27 and TA30 - Hydraulically actuated multi plate transverse diff-lock differentials for 100% cross-axle lockup
- **NEW** Refined, quiet cab for greater operator comfort
- **NEW** TA27 and TA30 - Multi plate sealed and oil cooled brake packs at each wheel

	TA25	TA27	TA30
Maximum Payload	23 tonne (25 US ton)	25 tonne (27.5 US ton)	28 tonne (30.9 US ton)
Heaped Capacity	13.5 m^3 (17.7 yd^3)	15.5 m^3 (20.3 yd^3)	17.5 m^3 (22.9 yd^3)
Gross Power	224 kW (300 hp)	272 kW (365 hp)	287 kW (385 hp)
Rated Power	209 kW (280 hp)	250 kW (335 hp)	261 kW (350 hp)
PLI	A874 APR 06	A889 APR 06	A894 APR 06

Generation 7 articulated trucks

Engines

	TA25	TA27	TA30
Engine	Cummins QSC 8.3	Cummins QSM11	Cummins QSM11
Type	Four cycle, emission certified, direct injection diesel, 6 cylinder, in line, water-cooled, turbocharged with air to air charge cooling.		
Piston Displacement - litres	8.3	10.8	10.8
Bore x Stroke - mm (in)	114 x 135 (4.49 x 5.32)	125 x 147 (4.92 x 5.79)	125 x 147 (4.92 x 5.79)
Gross Power - kW (hp) @ rpm	224 (300) @ 2000	272 (365) @ 1800	287 (385) @ 1800
Rated Power - kW (hp) @ rpm	209 (280) @ 2200	250 (335) @ 2100	261 (350) @ 2100
Net Power - kW (hp) @ rpm	198 (266) @ 2200	238 (319) @ 2100	248 (333) @ 2100
Maximum Torque - Nm (lbf ft) @ rpm	1 356 (1 000) @ 1400	1 673 (1 234) @ 1400	1 775 (1 309) @ 1400
Gross Power rated	SAE J1995 Jun 90	SAE J1995 Jun 90	SAE J1995 Jun 90
Engine emissions	Meets USA EPA Tier 3 / CARB MOH 40 CFR 89 Tier 3 and proposed EUNRMM (non-road mobile machinery directive) stage 3		
Electrical	24 volt electric start. 70A alternator. Two 12 volt 170 Ah batteries.		
Air cleaner	Dry-type air cleaner with safety element, automatic dust ejector and restriction indicator.		
Fan	Modulating fan reduces noise level and consumes engine power as required.		
Altitude - Electronic derate @m (ft)	3 048 (10 000)	3 048 (10 000)	3 048 (10 000)

Transmission

		ZF 6WG 210 Fully automatic with manual over-ride.		ZF 6WG 260 RPC Fully automatic with manual over-ride.	ZF 6WG 310 RPC Fully automatic with manual over-ride.
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.			
		Forward	Reverse	Forward	Reverse
	Gear	TA25		TA27/30	
Speeds - km/h (mph)	1	5.9 (3.7)	5.9 (3.7)	5.5 (3.4)	5.5 (3.4)
	2	9.1 (5.6)	14.2 (8.8)	8.6 (5.4)	13.4 (8.4)
	3	14.2 (8.8)	32.4 (20.1)	13.4 (8.4)	30.7 (19.0)
	4	22.1 (13.7)		20.8 (12.9)	
	5	32.4 (20.1)		30.7 (19.0)	
	6	52.0 (32.3)		50.4 (31.3)	

Building on technology

Tyres and Wheels

	TA25	TA27	TA30
Tyres	Standard 23.5. Optional 750/65		
Rims	Standard 25 x 19.50. For optional tyre, 25 x 22.00		
Wheels	3-piece earthmover rims with 12 stud fixing		

Axles

	Heavy duty axles with fully floating axle shafts and outboard planetary reduction gearing. The three axles are in permanent all-wheel drive (6x6) with a differential coupling between the front and rear axles. This differential may be locked by the operator for use in poor traction conditions.	Heavy duty axles with fully floating axle shafts and outboard planetary reduction gearing. The three axles are in permanent all-wheel drive (6x6) with a differential coupling between the front and rear axles. All three axles also have hydraulically actuated multiplate transverse diff-lock differentials for 100% cross-axle lock up. The inter-axle and cross-axle diff locks are controlled by the operator, and can be actuated when required in poor traction conditions.	
Differential ratio	3.44:1	3.875:1	3.875:1
Planetary reduction	6.35:1	5.71:1	5.71:1
Overall Drivetrain reduction	21.85:1	22.12:1	22.12:1

Suspension

Front	Axle is carried on the leading arms of a sub-frame which pivots on the main frame. Suspension by rubber elements with four heavy duty hydraulic dampers.
Rear	Each axle is coupled to the frame by three rubberbushed 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 and maintenance-free.

Brakes

	All hydraulic braking system with dry disc on each wheel and double heavy-duty calipers per disc. Independent circuits for front and rear brake systems.	All hydraulic braking systems with multiplate sealed and oil cooled brake packs at each wheel. Independent circuits for front and rear brake systems.
	Brake system conforms to ISO 3450, SAE J1473.	
Parking	Spring-applied, hydraulic-released disc on rear driveline.	
Secondary	Secondary brake control actuates service and parking brakes.	
Retarder	Guillotine-type exhaust brake	Engine compression brake is standard.

Steering

	TA25	TA27	TA30
Steering angle to either side	45°	45°	45°
Lock to lock turns, steering wheel	4	4	4
System pressure - bar (lbf/in²)	241 (3 500)	241 (3 500)	241 (3 500)
SAE Turning Radius mm (ft/ins)	8 470 (27-9)	8 470 (27-9)	8 470 (27-9)
Clearing Radius mm (ft/ins)	8 950 (29-4)	8 950 (29-4)	8 950 (29-4)

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.

Body

All welded construction, fabricated from high hardness (min.360 BHN) 1 000 MPa (145 000 lbf/in2) yield strength steel.

Dual slope tailchute controls material ejection from body.

		TA25	TA27	TA30
Plate thickness - mm (in):				
Floor and tailchute		12.0 (0.47)	14.0 (0.55)	14.0 (0.55)
Sides		12.0 (0.47)	12.0 (0.47)	12.0 (0.47)
Front		8.0 (0.31)	8.0 (0.31)	8.0 (0.31)
Volume - m³ (yd³)	Struck	10.0 (13.07)	12.5 (16.4)	13.8 (18.0)
	Heaped 2:1 (SAE)	13.5 (17.65)	15.5 (20.3)	17.5 (22.9)

Hoist

Two single-stage, double-acting hoist cylinders, cushioned at the base end. 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.

	TA25	TA27	TA30
System pressure - bar (lbf/in²)	220 (3 200)	220 (3 200)	220 (3 200)
Pump output flow rate - litre/sec (gal/min)	4.9 (77.6)	4.9 (77.6)	4.9 (77.6)
Raise (loaded)	12	12	12
Lower - seconds	7.5	7.5	7.5

Building on technology

NEW TA35 NEW TA40

- **NEW** Front suspension with improved ride for continuous high productivity
- **NEW** Complete new Transmission with Dropbox Configuration
- **NEW** Latest in technology with operator comfort and visibility
- **NEW** Engine certified to Tier 3 Emissions
- **NEW** Fully CAN Enabled J1939 Link
- More time between service intervals
- Upgraded axles and frames
- TA40 has oil cooled disc brakes on all three axles

	TA35	TA40
Maximum Payload	34 tonne (37.5 US ton)	38 tonne (41.88 US ton)
Heaped Capacity	21.0m³ (27.5 yd³)	23.3 m³ (30.3 yd³)
Gross Power	298 kW (400 hp)	336 kW (450 hp)
Engine Capacity	14 litres (855 in³)	14 litres (855 in³)
Engine Torque	2 000 Nm (1 475 lbf/ft)	2 100 Nm (1 548 lb/ft)
Top Speed	53.9 kph (33.5 mph)	60 kph (37.3 mph)
PLI	A862 May 2006	A865 May 2006

TA35 / TA40 articulated trucks

Engines

	TA35	TA40
Engine	Detroit Diesel Series 60	Detroit Diesel Series 60
Type	6 cylinder, in-line, four cycle, water cooled, turbocharged with air to air charge cooling, direct injection, electronic engine management.	
Piston Displacement - litres (in³)	14.0 (855)	14 (855)
Bore x Stroke - mm (in)	133 x 168 (5.24 x 6.61)	133 x 168 (5.24 x 6.61)
Gross Power - kW (hp) @ rpm	298 (400) @ 2 100	336 (450) @ 2 100
Net Power - kW (hp) @ rpm	289 (388) @ 2 100	326 (437) @ 2 100
Maximum Torque - Nm (lbf ft) @ rpm	2 000 (1 475) @ 1 200	2 100 (1 548) @ 1 350
Gross Power rated	SAE J1995 Jun 90	SAE J1995 Jun 90
Engine emissions	Meets USA EPA Tier 3 /CARB MOH 40 CFR 89 Tier 3 and proposed EUNRMM (non-road mobile machinery directive) stage 3.	
Electrical	24 volt electric start. 100A alternator. Two 12 volt 175 Ah batteries.	
Air cleaner	Dry-type air cleaner with safety element, automatic dust ejector and restriction indicator.	
Fan	Modulating fan reduces noise level and consumes engine power as required. Note: Net hp with fan clutch disengaged	
Altitude - electronic derate @m (ft)	3 048 (10 000)	3 048 (10 000)

Transmission

		TA35				TA40			
		Low range		High range		Low range		High range	
	Gear	Forward	Reverse	Forward	Reverse	Forward	Reverse	Forward	Reverse
Type		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.							
Transfer Dropbox		Remote mounted 2 speed transfer gearbox taking drive from the transmission and feeding it via a lockable differential to front and real wheels.							
Speeds - km/h (mph)	1	5.2 (3.2)	4.6 (2.9)	7.9 (4.9)	7.0 (4.3)	5.5 (3.4)	4.8 (3.0)	8.4 (5.2)	7.4 (4.6)
	2	11.0 (6.8)		16.8 (10.4)		11.7 (7.3)		17.8 (11.0)	
	3	15.9 (9.9)		24.3 (15.1)		16.9 (10.5)		25.8 (16.0)	
	4	24.3 (15.1)		37.1 (23.1)		25.8 (16.0)		39.5 (24.5)	
	5	31.0 (19.3)		47.7 (29.6)		33.0 (20.5)		50.4 (31.3)	
	6	35.2 (21.9)		53.9 (33.5)		37.5 (23.3)		60.0 (37.3)	

Building on technology

Tyres and Wheels

	TA35	TA40
Tyres	Standard 26.5	Standard 29.5
Rims	Standard 25 x 22.00	Standard 25 x 25.00
Wheels	3-piece earthmover rims with 19 stud fixing	

Axles

	Three axles in permanent all-wheel drive (6x6) with differential coupling between each axle to prevent driveline wind-up. Heavy duty axles with full 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 rearmost axle. This differential and the dropbox output differential are locked simultaneously using one switch selected by the operator.	
Differential ratio	3.70:1	3.70:1
Planetary reduction	6.35:1	6.35:1
Overall Drivetrain reduction	23.50:1	23.50:1

Suspension

Front	Four trailing links and a panhard rod locate the front axle giving a high roll centre. 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 rubber-bushed and maintenance-free.

Brakes

	All hydraulic braking system with dry disc on each wheel and heavy-duty caliper per disc. Independent circuits for front and rear brake systems. Brake system conforms to ISO 3450, SAE J1473.	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 and parking brakes.	
Retarder	Engine brake and transmission retarder are standard. Engine brake operates automatically should engine approach overspeed	

Building on technology

Steering

	TA35	TA40
	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.	
Steering angle to either side	45°	45°
Lock to lock turns, steering wheel	4	4
System pressure - bar (lbf/in²)	240 (3 480)	240 (3 480)
SAE Turning Radius mm (ft/ins)	9 185 (30-1)	9 185 (30-1)
Clearing Radius mm (ft/ins)	9 675 (31-9)	9 675 (31-9)

Frame

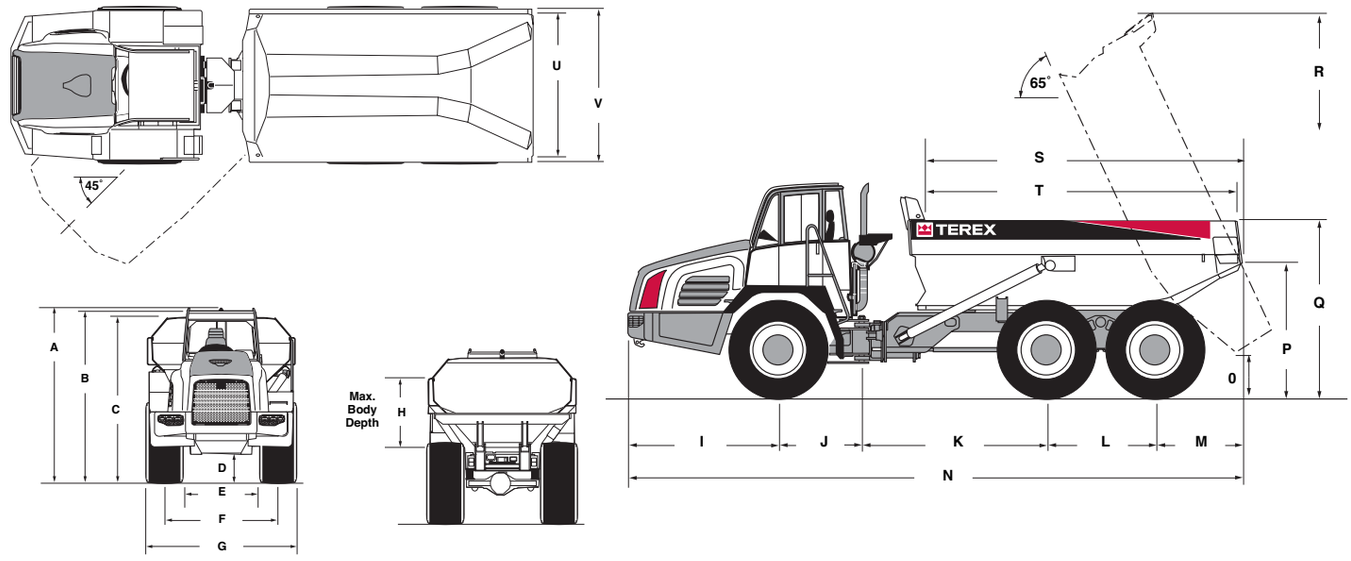
Front and rear frames are all welded high grade steel fabrications with rectangular box-section beams forming the main side and cross members. Inter-frame oscillation is provided by a large diameter cylindrical coupling with nylon bushings. Frames articulate 45° to either side for steering by means of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

Body

		All welded construction, fabricated from high hardness (min 360 BHN) 1 000 MPa (145 000 lbf/in²) yield strength steel. Dual slope tailchute improves material ejection from body.	
Plate thickness - mm (in):			
	Floor and tailchute	15.0 (0.58)	15.0 (0.58)
	Sides	12.0 (0.47)	12.0 (0.47)
	Front	8.0 (0.31)	8.0 (0.31)
Volume - m³ (yd³)	Struck	15.5 (20.3)	17.4 (22.8)
	Heaped 2:1 (SAE)	21.0 (27.5)	23.3 (30.3)

Hoist

	Two single-stage, double-acting hoist cylinders, cushioned at the base end. Variable displacement/ load sensing piston pump driven from power take-off on transmission. Full flow return line filtration. Fully electro hydraulic hoist control, with electronic detent with power down.	
System pressure - bar (lbf/in²)	240 (3 480)	240 (3 480)
Pump output flow rate - litre/sec (gal/min)	5.4 (85.6)	5.4 (85.6)
Raise (loaded) - seconds	12.5	12.5
Lower - seconds	8	8



Dimensions in mm (ft-in)

	TA25	TA27	TA30	TA35	TA40
A	3 450 (11-3)	3 450 (11-3)	3 450 (11-3)	3 888 (12-9)	3 942 (12-11)
B	3 420 (11-2)	3 420 (11-2)	3 420 (11-2)	3 686 (12-1)	3 740 (12-3)
C	2 985 (9-10)	3 120 (10-3)	3 325 (10-10)	3 494 (11-5)	3 548 (11-8)
D	405 (1-6)	405 (1-6)	405 (1-6)	553 (1-10)	607 (2-0)
E	1 580 (5-3)	1 580 (5-3)	1 580 (5-3)	1 837 (6-0)	1 837 (6-0)
F	2 200 (7-2)	2 200 (7-2)	2 200 (7-2)	2 520 (8-3)	2 596 (8-6)
G	2 895 (9-6)	2 895 (9-6)	2 895 (9-6)	3 206 (10-6)	3 356 (11-0)
H	1 110 (3-8)	1 240 (4-1)	1 445 (4-9)	1 380 (4-6)	1 494 (4-11)
I	2 400 (7-9)	2 400 (7-9)	2 400 (7-9)	2 914 (9-7)	2 914 (9-7)
J	1 310 (4-4)	1 310 (4-4)	1 310 (4-4)	1 310 (4-4)	1 310 (4-4)
K	2 945 (9-8)	2 945 (9-8)	2 945 (9-8)	2 990 (9-10)	2 990 (9-10)
L	1 690 (5-6)	1 690 (5-6)	1 690 (5-6)	1 950 (6-5)	1 950 (6-5)
M	1 410 (4-9)	1 410 (4-9)	1 410 (4-9)	1 780 (5-10)	1 781 (5-10)
N	9 755 (32-0)	9 755 (32-0)	9 755 (32-0)	10 944 (35-11)	10 944 (35-11)
O	725 (2-3)	725 (2-3)	725 (2-3)	851 (2-9)	905 (3-0)
P	2 175 (7-2)	2 175 (7-2)	2 175 (7-2)	2 414 (7-11)	2 468 (8-1)
Q	2 605 (8-6)	2 740 (8-11)	2 895 (9-6)	2 967 (9-9)	3 140 (10-4)
R	5 995 (19-8)	6 015 (19-9)	6 110 (20-0)	6 872 (22-7)	6 926 (22-9)
S	4 990 (16-5)	5 000 (16-5)	5 010 (16-5)	5 651 (18-6)	5 658 (18-7)
T	4 735 (16-2)	4 930 (16-2)	4 920 (16-2)	5 576 (18-3)	5 570 (18-3)
U	2 670 (8-9)	2 670 (8-9)	2 685 (8-10)	3 131 (10-3)	3 131 (10-3)
V	N/A	2 890 (9-5)	2 895 (9-6)	3 315 (10-11)	3 315 (10-11)

Weights

	TA25		TA27		TA30		TA35		TA40	
Standard Unit	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
Net Distribution										
Front Axle	10 750	(23 700)	11 724	(25 793)	11 753	(25 913)	15 086	(32 258)	15 880	(34 936)
Bogie Axle Leading	4 970	(10 960)	5 205	(11 451)	5 315	(11 718)	7 125	(15 707)	7 500	(16 500)
Bogie Axle Trailing	4 770	(10 515)	5 276	(11 709)	5 417	(11 942)	7 068	(15 582)	7 440	(16 368)
Vehicle, Net	20 490	(45 175)	22 205	(48 953)	22 485	(49 573)	29 279	(64 547)	30 820	(67 804)
Payload	23 000	(50 705)	25 000	(55 115)	28 000	(61 730)	34 000	(74 956)	38 000	(83 775)
Gross Distribution										
Front Axle	14 480	(31 925)	15 880	(34 936)	16 821	(37 086)	17 279	(38 094)	18 820	(41 500)
Bogie Axle Leading	14 440	(31 835)	15 592	(34 302)	16 740	(36 904)	23 000	(50 705)	25 000	(55 000)
Bogie Axle Trailing	14 570	(32 120)	15 733	(34 830)	16 924	(37 313)	23 000	(50 705)	25 000	(55 000)
Vehicle Gross	43 490	(95 880)	47 205	(104 068)	50 485	(111 303)	63 279	(139 506)	68 820	(151 500)
Bare Chassis	16 860	(37 170)	17 335	(38 213)	17 555	(38 703)	23 669	(52 177)	24 760	(54 444)
Body	3 100	(6 835)	4 100	(9 040)	4 400	(9700)	4 950	(10 915)	5 400	(11 905)
Hoists, pair	530	(1 170)	530	(1 170)	530	(1 170)	660	(1 455)	660	(1 455)

Ground Pressure

These figures are at 15% shrinkage of unloaded radius and specified weights using tyres referred to below

	TA25		TA27		TA30		TA35		TA40	
Tyres	23.5 R25		23.5 R25		23.5 R25		26.5 R25		29.5 R25	
Standard Unit	kPa	PSi	kPa	PSi	kPa	PSi	kPa	PSi	kPa	PSi
Unloaded										
Front	105	(15.2)	118	(17.1)	119	(17.2)	126	(18.3)	112	(16.2)
Rear	48	(6.7)	53	(7.6)	54	(7.8)	59	(8.6)	53	(7.7)
Loaded										
Front	142	(20.6)	161	(23.3)	170	(24.6)	145	(21.0)	129	(18.7)
Rear	142	(20.6)	158	(22.9)	170	(24.6)	192	(27.8)	175	(25.4)

Building on technology

Standard equipment

	TA25	TA27	TA30	TA35	TA40
Cab and Operator					
Air Conditioning	✔	✔	✔	✔	✔
Air Filter Restriction Indicator	✔	✔	✔	✔	✔
Audible Alarm					
Brakes Tractor, Low Pressure	✔	✔	✔	✔	✔
Brakes Trailer, Low Pressure	✔	✔	✔	✔	✔
Engine Stop	✔	✔	✔	✔	✔
Steering, Low Pressure	✔	✔	✔	✔	✔
Transmission Stop	✔	✔	✔	✔	✔
Battery Master Switch	✔	✔	✔	✔	✔
Cigar Lighter, 24v	✔	✔	✔	✔	✔
Coathook	✔	✔	✔	✔	✔
Electrical Jack Point 12V				✔	✔
Electrical Jack Point 24V	✔	✔	✔	✔	✔
Engine Diagnostic Facility	✔	✔	✔	✔	✔
Gauges					
Brake Cooling Oil Temperature	N/A			N/A	✔
Fuel Level	✔	✔	✔	✔	✔
Speedometer/Odometer	✔	✔	✔	✔	✔
Transmission Oil Temperature	✔	✔	✔	✔	✔
Tachometer with Hourmeter	✔	✔	✔	✔	✔
Voltmeter	✔	✔	✔	✔	✔
Coolant Temperature	✔	✔	✔	✔	✔
Heater and Demister	✔	✔	✔	✔	✔
Horn, Electric 117 db	✔	✔	✔	✔	✔
Indicators - Lights & Alarms					
Body up	✔	✔	✔	✔	✔
Direction Indicators	✔	✔	✔	✔	✔
Dropbox High or Low Selection				✔	✔
Headlight High Beam	✔	✔	✔	✔	✔
Inter-Axle Diff. Lock 'ON'	✔	✔	✔	✔	✔
Parking Brake 'ON'	✔	✔	✔	✔	✔
Retarder 'ON'				✔	✔
Insulation, Thermal and Acoustic	✔	✔	✔	✔	✔
Interior Light	✔	✔	✔	✔	✔
Mirror Rear View (4)	✔	✔	✔	✔	✔
Mug Holder	✔	✔	✔	✔	✔
Neutral Start Interlock	✔	✔	✔	✔	✔
Radio Cassette	✔	✔	✔	✔	✔
ROPS/FOPS Protection ISO 3471/3449 SAE J1040 Apr 88/J231	✔	✔	✔	✔	✔
Seat Belts, Retractable J386	✔	✔	✔	✔	✔
Seat, Operator, air suspension, high back, headrest and adjustable armrests	✔	✔	✔	✔	✔
Seat Passenger	✔	✔	✔	✔	✔
Steering Wheel, tilt/telescopic	✔	✔	✔	✔	✔
Storage Compartment	✔	✔	✔	✔	✔
Sun Visor (internal)	✔	✔	✔	✔	✔
Sun Visor (external)					
Tinted Glass	✔	✔	✔	✔	✔
Transmission Visual Display Unit	✔	✔	✔	✔	✔
Warning Lights					
Alternator Charging	✔	✔	✔	✔	✔
Brake Cooling Oil Pressure					✔
Brake Pressure - Front and Rear	✔	✔	✔	✔	✔
Coolant Level	✔	✔	✔	✔	✔
Coolant Temperature	✔	✔	✔	✔	✔
Engine 'CHECK'	✔	✔	✔	✔	✔
Engine 'STOP'	✔	✔	✔	✔	✔
Fuel, Low Level				✔	✔
Maintenance (engine)	✔	✔	✔		
Low Steering Pressure / Secondary Steering	✔	✔	✔	✔	✔
Secondary Steering	✔	✔	✔	✔	✔
Transmission 'CHECK'				✔	✔
Transmission Oil Filter Change				✔	✔
Transmission 'STOP'	✔	✔	✔	✔	✔
Warning Lights Test Switch	✔	✔	✔	✔	✔
Window Protection Grille, rear	✔	✔	✔	✔	✔
Wiper and Washer, front and rear windows	✔	✔	✔	✔	✔
General					
Articulation and Oscillation Lock	✔	✔	✔	✔	✔
Brakes Fully Hydraulic Dual Circuit System	✔	✔	✔	✔	✔
Brake Splash Guards	✔	N/A	N/A	✔	N/A
Body Prop	✔	✔	✔	✔	✔
Diagnostic Pressure Test Points	✔	✔	✔	✔	✔
Engine Brake		✔	✔	✔	✔
Engine Electronic Management System	✔	✔	✔	✔	✔
Engine Exhaust Brake	✔				
Engine Underguard	✔	✔	✔	✔	✔
Engine Hood Electrically Operated				✔	✔
Exhaust Muffler	✔	✔	✔	✔	✔
Fan, Modulating	✔	✔	✔	✔	✔
Guards Rear Lights	✔	✔	✔	✔	✔
Handrails on Fenders	✔	✔	✔	✔	✔
Headlamp Guards	✔	✔	✔	✔	✔
Hydraulic Diagnostic Facility RS232	✔	✔	✔	✔	✔
Hydraulic Filter Restriction Indicator				✔	✔
Hydraulic Oil Cooler				✔	✔
Interaxle Differential Lock	✔	✔	✔	✔	✔
Lights					
Direction and Hazard Warning Indicators	✔	✔	✔	✔	✔
Headlamps, (4) halogen	✔	✔	✔	✔	✔
Side, Tail, Top and Reverse	✔	✔	✔	✔	✔
Working Lights, Roof Mounted	✔	✔	✔	✔	✔
Mudflaps at Front and Centre	✔	✔	✔	✔	✔
Pivot Protection Guard	✔	✔	✔	✔	✔
Reverse Alarm Audible J994	✔	✔	✔	✔	✔
Secondary Steering	✔	✔	✔	✔	✔
Security Kit	✔	✔	✔	✔	✔
Servo Assisted Body Hoist control	✔	✔	✔	✔	✔
Tilting Cab for Maintenance	✔	✔	✔	✔	✔
Tow Points Front and Rear	✔	✔	✔	✔	✔
Transmission Automatic Electronically Controlled	✔	✔	✔	✔	✔
Transmission Electronic Diagnostics	✔	✔	✔	✔	✔
Transmission Downshift Inhibitor	✔	✔	✔	✔	✔
Transmission Hydraulic Retarder				✔	✔
Transmission Oil Cooler with Modulating Fan		✔	✔	✔	✔
Transmission Sump Guard	✔	✔	✔	✔	✔
Tyre Inflation Nitrogen	✔	✔	✔	✔	✔

Optional equipment

	TA25	TA27	TA30	TA35	TA40
Body Options					
Spillguard Extension		✔	✔	✔	✔
Heated Body	✔	✔	✔	✔	✔
Liner Plates		✔	✔	✔	✔
Body Side Extensions		✔	✔	✔	✔
Tailgate Overhinged chain operated	✔	✔	✔	✔	✔
Tailgate Underhinged		✔	✔	✔	✔
Lights					
Beacon Flashing	✔	✔	✔	✔	✔
Fog Rear	✔	✔	✔	✔	✔
Reverse Flashing	✔	✔	✔	✔	✔
Floodlights Rear Working	✔	✔	✔	✔	✔

	TA25	TA27	TA30	TA35	TA40
Mirrors					
Mirror Front Mounted	✔	✔	✔	✔	✔
Mirror with Wide Angle	✔	✔	✔	✔	✔
Mirrors Heated	✔	✔	✔	✔	✔
Other Options					
Automatic Lubrication	✔	✔	✔	✔	✔
Fast Fuel Adapter				✔	✔
Fire Extinguisher	✔	✔	✔	✔	✔
First Aid Kit	✔	✔	✔	✔	✔
Hydraulic Oil Cooler	✔	✔	✔	STD	STD
Parking Brake Guard	✔	✔	✔	✔	✔
Retarder Transmission	NA	✔	✔	STD	STD
Seat Heated	✔	✔	✔	✔	✔
Television Monitor Rear View	✔	✔	✔	✔	✔
Tool Kit	✔	✔	✔	✔	✔

Service data

	TA25	TA27	TA30
Fuel Tank	390 litres (103.0 US gal)	390 litres (103.0 US gal)	390 litres (103.0 US gal)
Hydraulic System (steering & body)	202 litres (53.4 US gal)	202 litres (53.4 US gal)	202 litres (53.4 US gal)
Engine Crankcase	20 litres (5.3 US gal)	41 litres (10.8 US gal)	41 litres (10.8 US gal)
Cooling System	40 litres (10.6 US gal)	54 litres (14.3 US gal)	54 litres (14.3 US gal)
Transmission (inc filters and cooler)	60 litres (15.9 US gal)	54 litres (14.3 US gal)	60 litres (15.9 US gal)
Differentials - Front & Rear (each)	17 litres (4.5 US gal)	21 litres (5.5 US gal)	21 litres (5.5 US gal)
Differential - Centre	18.5 litres (4.9 US gal)	23 litres (6.0 US gal)	23 litres (6.0 US gal)
Planetaries (each)	3 litres (0.8 US gal)	7.5 litres (2.0 US gal)	7.5 litres (2.0 US gal)

	TA35	TA40
Fuel Tank	481 litres (127.0 US gal)	481 litres (127.0 US gal)
Hydraulic System (steering, braking & body)	330 litres (87.0 US gal)	330 litres (87.0 US gal)
Engine Crankcase	40 litres (10.5 US gal)	40 litres (10.5 US gal)
Cooling System	80 litres (21.1 US gal)	80 litres (21.1 US gal)
Transmission (inc filters and cooler)	56 litres (12.3 US gal)	56 litres (14.8 US gal)
Differentials - Front & Rear (each)	38 litres (10.0 US gal)	38 litres (10.0 US gal)
Differential - Centre	39 litres (10.3 US gal)	39 litres (10.3 US gal)
Planetaries (each)	8.5 litres (2.2 US gal)	8.5 litres (2.2 US gal)
Brake Cooling System	N/A	175 litres (42.6 US gal)

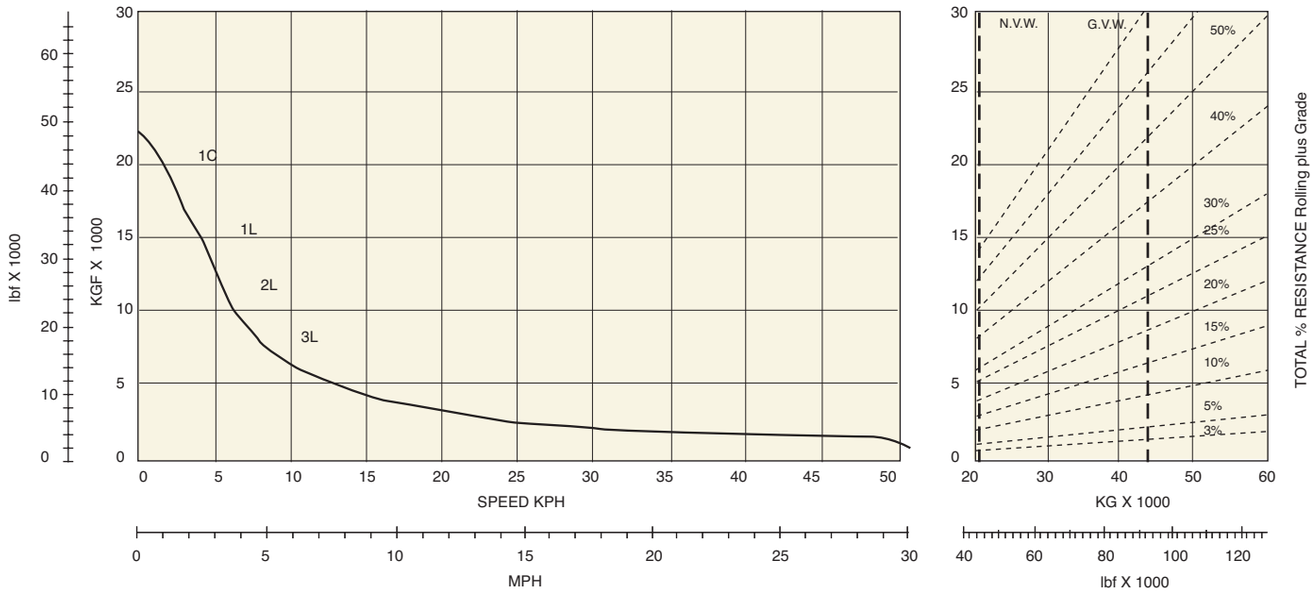
Building on technology

Performance data

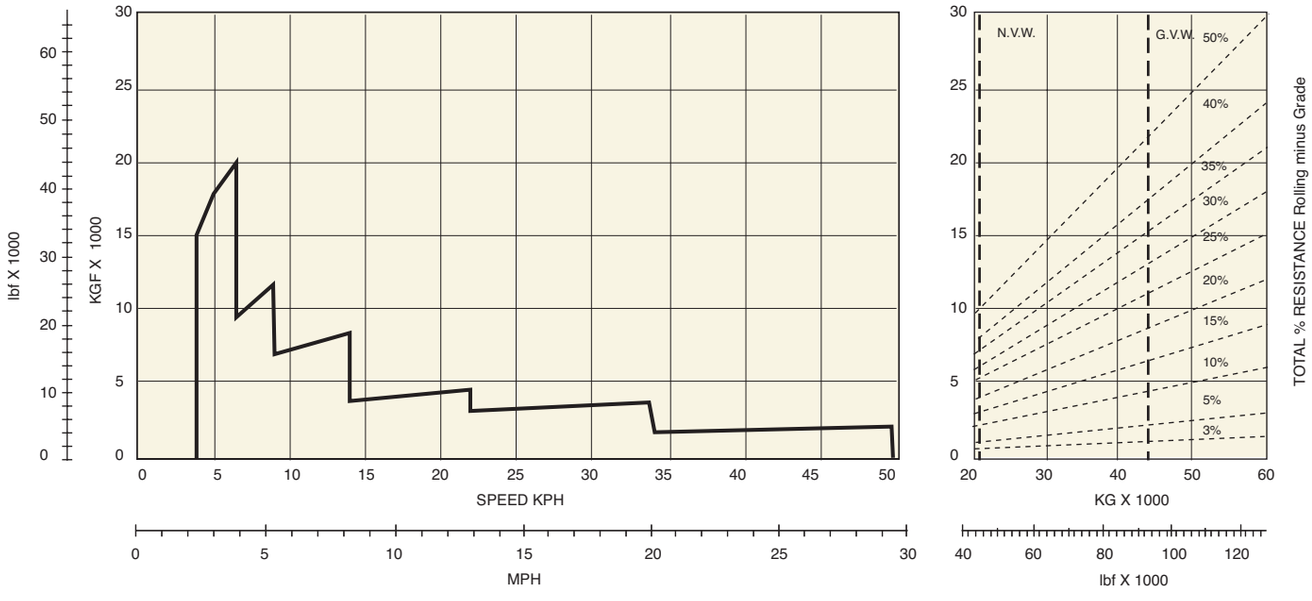
TA25

Unit equipped with 23.5 R 25 tyres
Graphs based on 2% Rolling Resistance

GRADEABILITY



RETARDATION



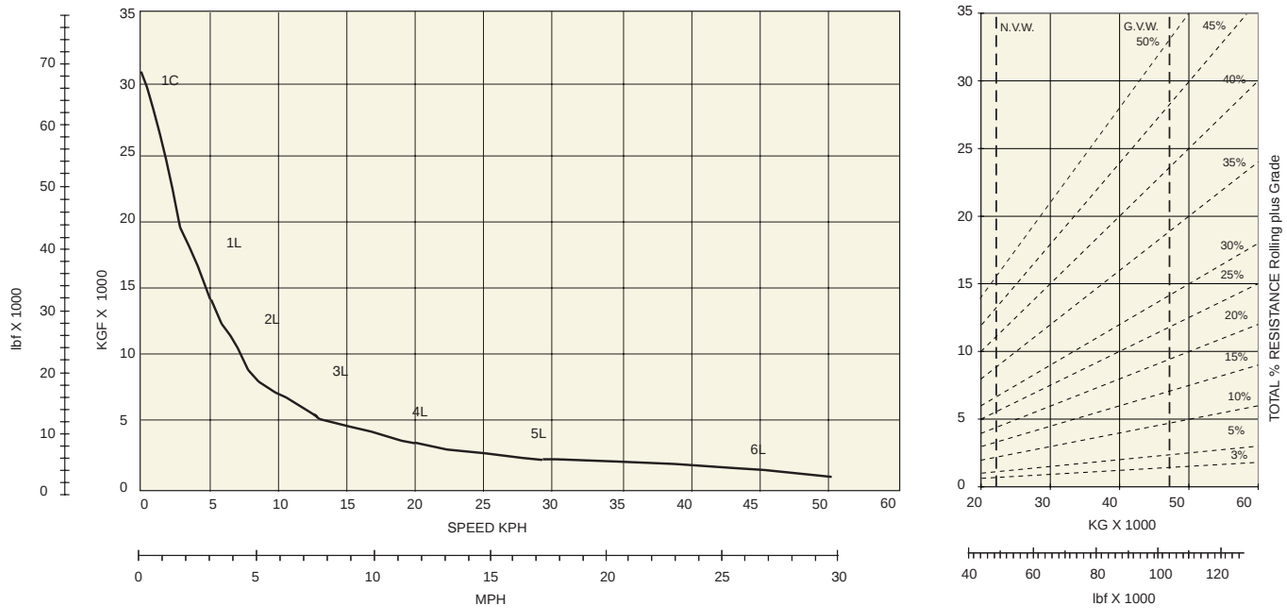
Instructions: From intersection of vehicle weight with percentage resistance line read across to determine maximum gear attainable, and then downwards for speed.

Performance data

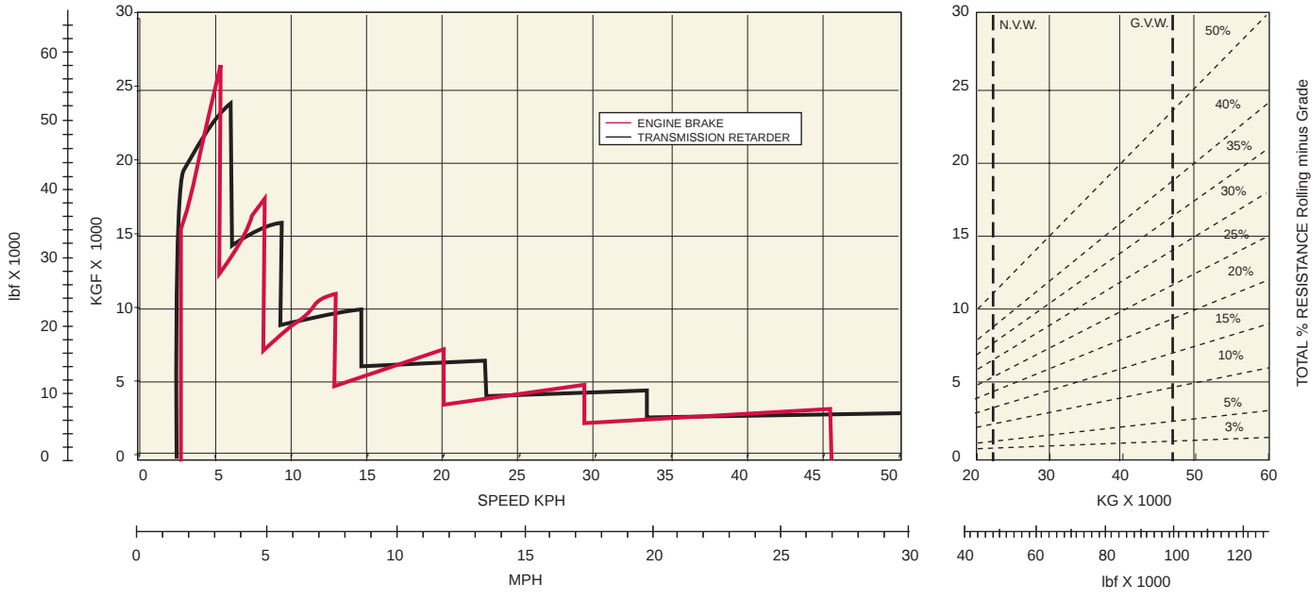
TA27

Unit equipped with 23.5 R 25 tyres
Graphs based on 2% Rolling Resistance

GRADEABILITY



RETARDATION



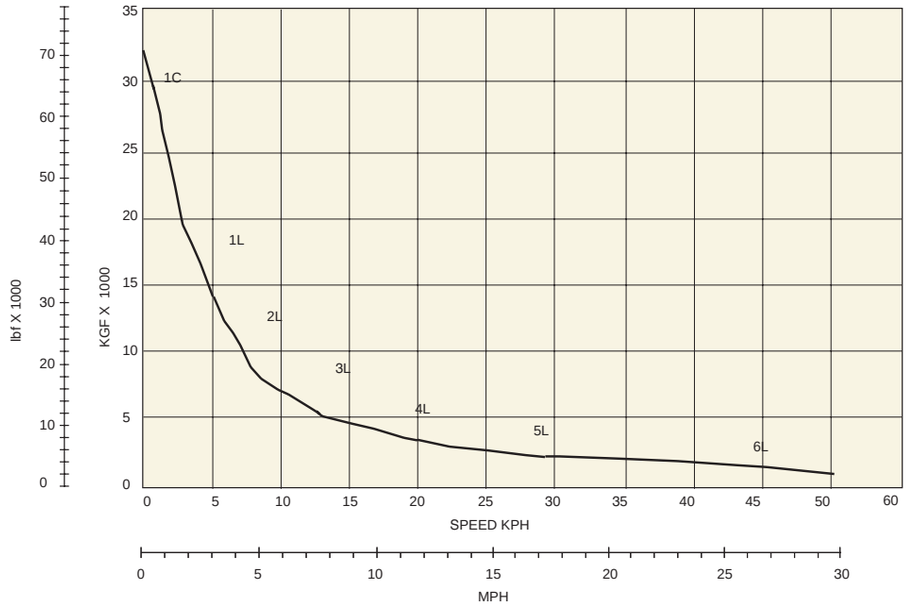
Instructions: From intersection of vehicle weight with percentage resistance line read across to determine maximum gear attainability, and then downwards for speed.

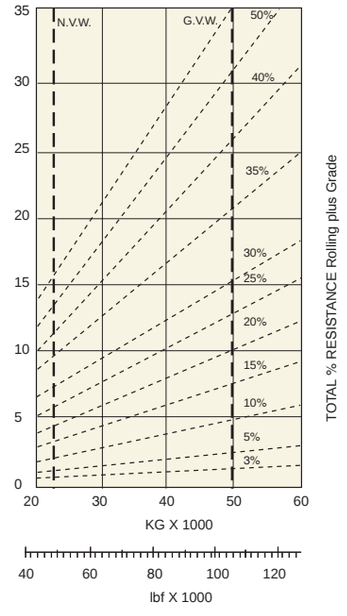
Building on technology

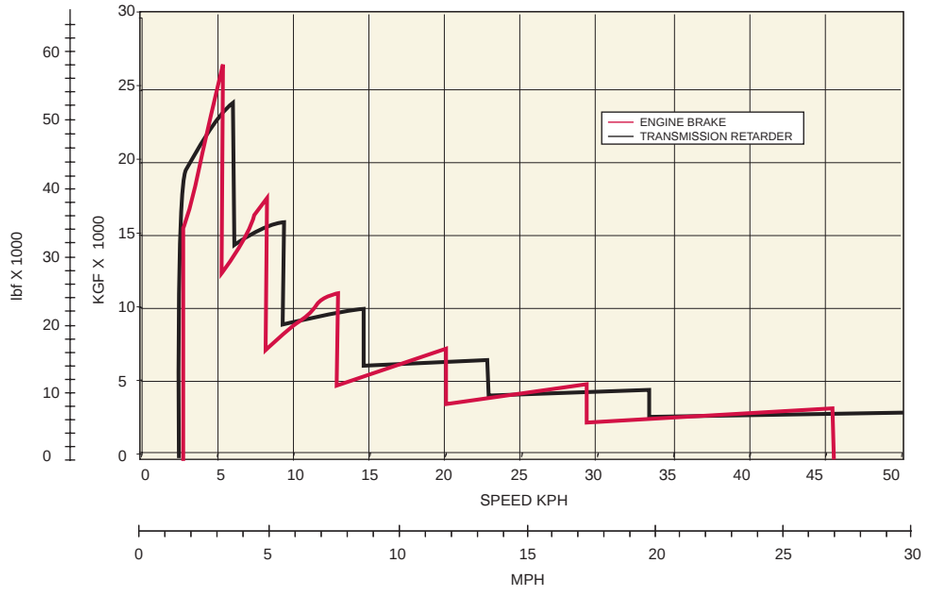
TA30

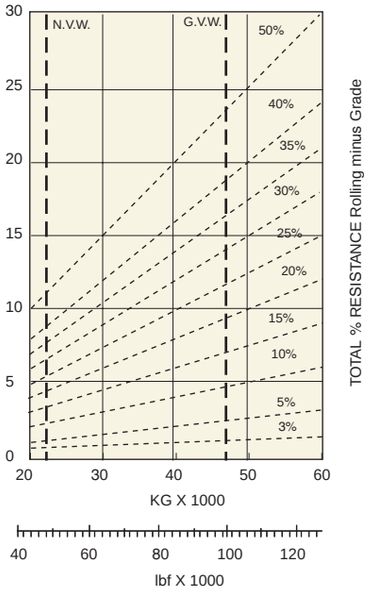
Unit equipped with 23.5 R 25 tyres
Graphs based on 2% Rolling Resistance

GRADEABILITY









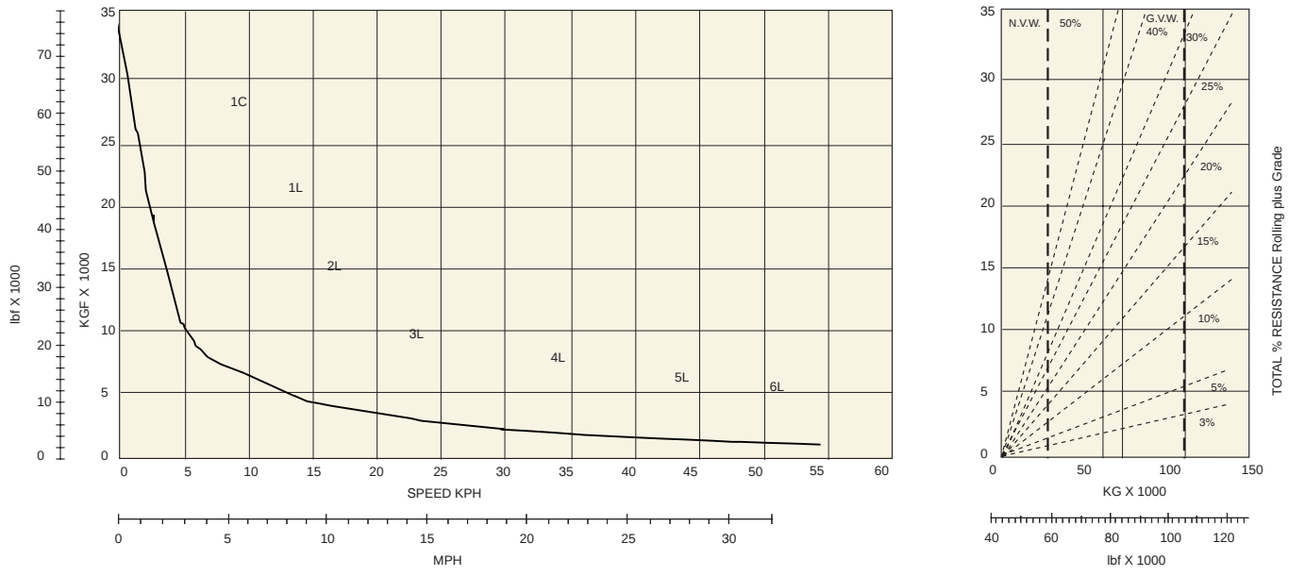
Instructions: From intersection of vehicle weight with percentage resistance line read across to determine maximum gear attainable, and then downwards for speed.

Performance data

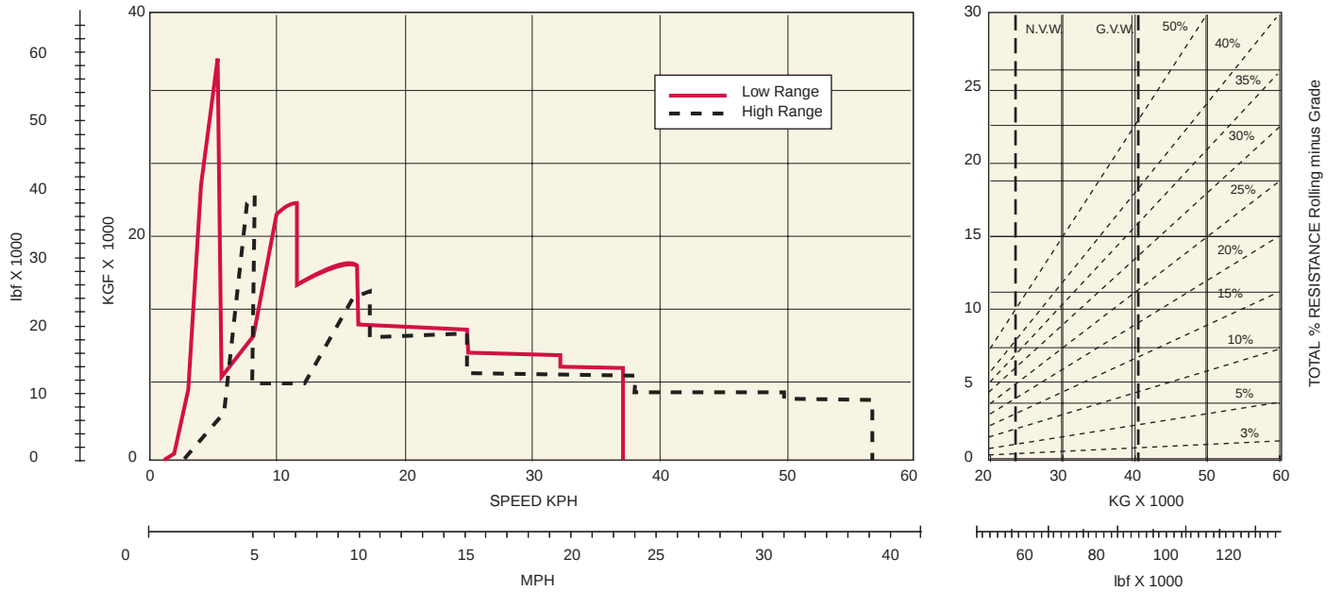
TA35

Graphs based on 2% Rolling Resistance

GRADEABILITY



RETARDATION - ENGINE BRAKE AND TRANSMISSION RETARDER



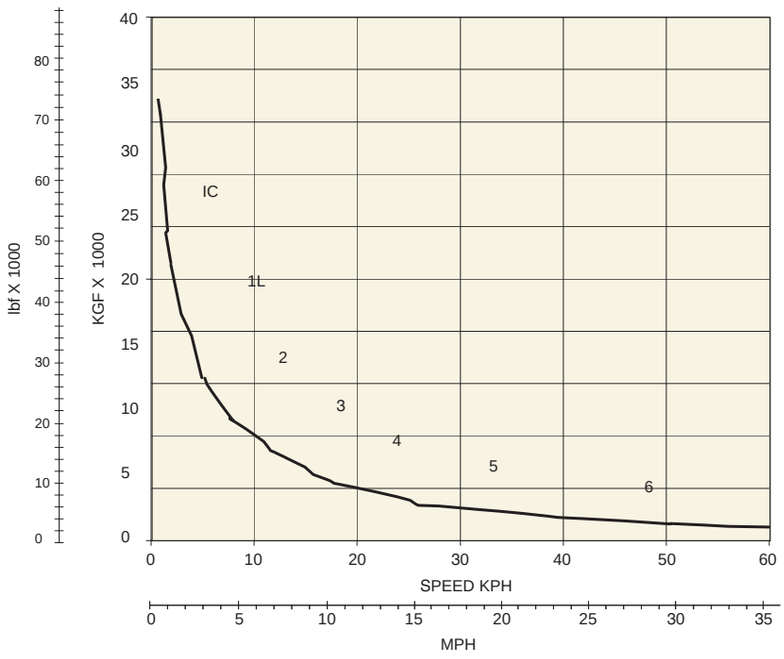
Instructions: From intersection of vehicle weight with percentage resistance line read across to determine maximum gear attainable, and then downwards for vehicle speed.

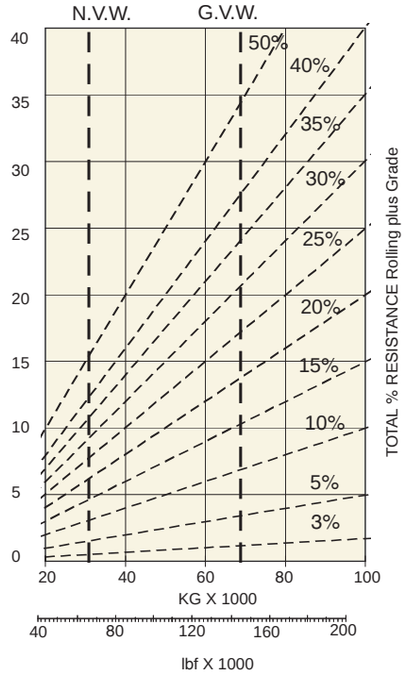
Building on technology

TA40

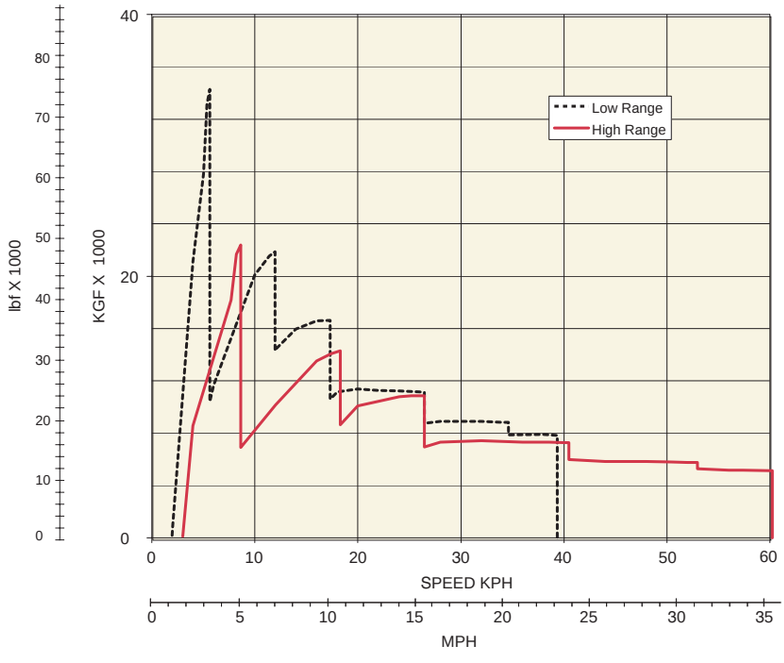
Graphs based on 2% Rolling Resistance

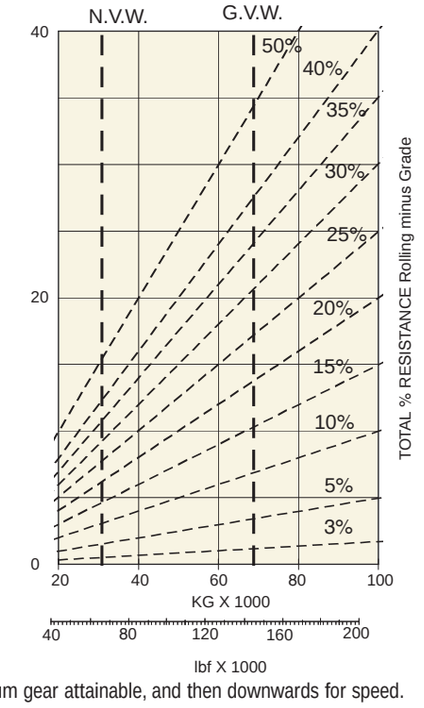
GRADEABILITY





RETARDATION - ENGINE BRAKE AND TRANSMISSION RETARDER





Instructions: From intersection of vehicle weight with percentage resistance line read across to determine maximum gear attainable, and then downwards for speed.

Building on technology

ARTICULATED TRUCKS

	Maximum payload	Heaped capacity	Engine gross power
TA25	23 mt (25 ton)	13.5 m³ (17.6 yd³)	224 kW (300 hp)
TA27	25 mt (27.5 ton)	15.5 m³ (20.3 yd³)	272 kW (365 hp)
TA30	28 mt (30.9 ton)	17.5 m³ (22.9 yd³)	287 kW (385 hp)
NEW TA35	34 mt (37.5 ton)	21.0 m³ (27.5 yd³)	298 kW (400 hp)
NEW TA40	38 mt (41.9 ton)	23.3 m³ (30.3 yd³)	336 kW (450 hp)

OFF-HIGHWAY RIGID TRUCKS

	Maximum payload	Heaped capacity	Engine gross power
TR35	31.75 mt (35 ton)	19.4 m³ (25 yd³)	298 kW (400 hp)
TR45	41 mt (45 ton)	26 m³ (34 yd³)	392 kW (525 hp)
TR60	55 mt (60 ton)	35 m³ (46 yd³)	485 kW (650 hp)
TR70	65 mt (72 ton)	41.5 m³ (54.3 yd³)	567 kW (760 hp)
TR100	91 mt (100 ton)	57 m³ (74.5 yd³)	783 kW (1 050 hp)

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