

ARTICULATED DUMP TRUCK



Specification

| | |
|-----------------|---|
| Maximum Payload | 41.9 tons (38 t) |
| Heaped Capacity | 30.3 yd ³ (23.3 m ³) |
| Horsepower | 444 hp (331 kW) |

Features

- ▶ High powered, heavy-duty truck providing class leading performance and ability to go where others can't follow
- ▶ World class operator's environment
- ▶ More fuel efficient than its predecessor
- ▶ Rigorously tested in extreme conditions for proven power, productivity and reliability

SPECIFICATIONS

ENGINE

| | |
|------------------------|---|
| Engine | Scania DC13 |
| Type | 6 cylinder, in-line, 4 cycle, direct injection diesel, water-cooled, turbocharged w/ air to air charge cooling, electronic engine mgmt and engine exhaust brake |
| Piston Displacement | 775 in ³ (12.7 L) |
| Bore x Stroke | 5.12 x 6.37 mm (130 x 160 in) |
| Gross Power @ 2100 rpm | 444 hp (331 kW) |
| Net Power @ 2100 rpm | 430 hp (321 kW) |
| Max Torque @ 1350 rpm | 1548 lbf ft (2100 Nm) |
| Gross Power rated | SAE J1995 Jun 90 |
| Engine Emissions | US Tier 4i/EU Stage 3B. Variant available to meet US Tier 2/EU Stage 2. |
| Electrical | 24 volt electric start. 100A alternator. Two 12 volt 175 Ah batteries |
| Air Cleaner | Dry-type air cleaner w/ safety element, auto dust ejector & restriction indicator |
| Fan | Modulating fan reduces noise level and consumes engine power as required. Note: Net hp with fan clutch disengaged |
| Altitude | 9842 ft (3000 m) |

TRANSMISSION

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.

Assembly: Remote mounted 2 speed transfer gearbox taking drive from the transmission and feeding it via a lockable differential to front and rear wheels

| Gear | Forward | Reverse | Forward | Reverse |
|------|----------------------|--------------------|----------------------|--------------------|
| 1 | 3.6 mph (5.8 km/h) | 3.1 mph (5.0 km/h) | 5.5 mph (8.9 km/h) | 4.8 mph (7.8 km/h) |
| 2 | 7.6 mph (12.2 km/h) | | 11.5 mph (18.5 km/h) | |
| 3 | 10.9 mph (17.6 km/h) | | 16.6 mph (26.7 km/h) | |
| 4 | 16.5 mph (26.5 km/h) | | 24.9 mph (40.0 km/h) | |
| 5 | 21.6 mph (34.7 km/h) | | 31.4 mph (50.5 km/h) | |
| 6 | 24.1 mph (38.8 km/h) | | 34.5 mph (55.6 km/h) | |

AXLES

Type: 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 |
| Planetary reduction | 6.35 : 1 |
| Overall Drivetrain reduction | 23.50 : 1 |

SUSPENSION

Front: Four trailing links and a panhard rod locate the front axle giving a high roll center. The optimized 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 equalize load on each rear axle. Suspension movement is cushioned by rubber/metal laminated compression units between each axle & underside of balance beam ends. Pivot points on leading & trailing links are rubber-bushed for minimum maintenance.

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 articulated 45° to either side for steering by means of two widely-spaced pivot pins in back-to-back sealed taper roller bearings.

STEERING

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. An audible alarm and warning light indicates should the secondary system activate.

| | |
|------------------------------------|------------------------------------|
| Steering Angle to either side | 45° |
| Lock to lock turns, steering wheel | 4 |
| System Pressure | 3480 lbf/in ² (240 bar) |
| SAE Turning Radius | 30 ft 1 in (9185 mm) |
| Clearing Radius | 29 ft 4 in (9675 mm) |

BODY

All-welded construction, fabricated from high hardness (min 360 BHN) 1000 Mpa (145000 lbf/in²) yield strength steel. Dual slope tailchute improves material ejection from body.

| | | |
|------------------|---------------------|---|
| Plate thickness: | Floor and tailchute | 0.58 in (15.0 mm) |
| | Sides | 0.47 in (12.0 mm) |
| | Front | 0.31 in (8.0 mm) |
| Volume: | Struck | 22.8 yd ³ (17.4 m ³) |
| | Heaped 2:1 (SAE) | 30.3 yd ³ (23.3 m 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. Full electro-hydraulic hoist control, with electronic detent in power down.

| | |
|-----------------------|------------------------------------|
| System pressure | 3480 lbf/in ² (240 bar) |
| Pump output flow rate | 85.6 gal/min (5.4 liter/sec) |
| Raise (loaded) | 12.5 seconds |
| Lower | 8 seconds |

TIRES AND WHEELS

| | |
|--------|---|
| Tires | Standard 29.5 |
| Rims | Standard: 25 x 25.00 |
| Wheels | 3-piece earthmover rims with 19 stud fixing |

BRAKES

All hydraulic braking systems with multi-plate sealed and oil cooled brake packs at each wheel. Independent circuits for front and rear brake systems.

| | |
|-----------|---|
| Parking | Spring-applied, hydraulic-released disc on rear driveline |
| Secondary | Secondary brake control actuates service and parking brakes |
| Retarder | Exhaust brake and transmission retarder |

CAPACITIES

| | | |
|---|-----------|-------|
| Fuel Tank | 130.5 gal | 494 L |
| Hydraulic System (Steering & Body) | 90 gal | 341 L |
| Engine Crankcase | 14.2 gal | 54 L |
| Cooling System | 18.4 gal | 70 L |
| Transmission (including filters and cooler) | 12.6 gal | 48 L |
| Differential - Front & Rear (each) | 10 gal | 38 L |
| Differential - Center | 10.3 gal | 39 L |
| Brake Cooling System | 2.2 gal | 8.5 L |
| Planetaries (each) | 49.6 gal | 188 L |
| DEF System* | 13.7 gal | 52 L |
| Drop Box | 4.4 gal | 17 L |

*only applicable on Tier 4i model

STANDARD EQUIPMENT

TIER 4 TA400

GENERAL

| | |
|---|----------------------------------|
| Articulation and Oscillation Lock | Mirrors Heated |
| Battery Master Switch | Modulating Cooling Fans |
| Body Prop | Mudflaps at Front and Center |
| Brakes Fully Hydraulic Dual Circuit System | Neutral Start Interlock |
| Diagnostic Pressure Test Points | Pivot Protection Guard |
| Differential Locks | Rear Light Guards |
| Electronic Assisted Body Hoist Control | Reverse Alarm Audible J994 |
| Engine/Transmission/Hydraulic Electronic Mgmt Systems | Secondary Steering |
| Engine Underguard | Security Kit |
| Exhaust Brake | Spillguard Extension |
| Exhaust Muffler | Tilting Cab for Maintenance |
| Handrails on Fenders | Tow Points, Front and Rear |
| Horn, Electric 117db | Transmission Downshift Inhibitor |
| Hydraulic Filter Restriction Indicator | Transmission Oil Cooler |
| Hydraulic Oil Cooler | Transmission Retarder |
| Mirror Front Mounted | Transmission Sump Guard |
| Mirror with Wide Angle | Tire Inflation Nitrogen |

GAUGES

| | |
|-------------------------------------|--|
| Body Dump Counter | Fuel Level |
| Brake Oil Temperature | Hourmeter |
| DEF Level Gauge (T4 variant only) | Hydraulic oil Temperature |
| DEF Level Warning (T4 variant only) | Speedometer/Digital Odometer/Tripmeter |
| Engine Coolant Temperature | Tachometer |
| Fuel Consumption/Usage | Transmission Oil Temperature |

LIGHTS

| | |
|---|-------------------------------|
| Direction and Hazard Warning Indicators (LED on Rear) | Side and Tail (LED) |
| Front Working Lights, Roof Mounted | 2 Halogen Headlamps Low Beam |
| Reverse Warning | 2 Halogen Headlamps High Beam |

OPTIONAL EQUIPMENT

BODY OPTIONS

| | |
|----------------------|-------------------------------------|
| Body Side Extensions | Liner Plates |
| Heated Body | Chain Operated Top Mounted Tailgate |

LIGHTS

| | |
|-----------------|-----------------------------------|
| Beacon Flashing | Rear Working Lights, Roof Mounted |
| Fog Rear | Reverse Flashing |

OPERATOR CABIN

| | |
|---|---|
| Air Conditioning | Rear Vision Camera/ Monitor |
| Air Filter Restriction Indicator | ROPS/FOPS Protection ISO3471/3449 |
| Auxiliary Power Outlets 12V & 24V | Seat Belts Retractable J386 |
| CD/Tuner/MP3 Connectivity | Steering Wheel, tilt/telescopic |
| Coat Hook | Forward Facing Trainer Seats |
| Engine/Transmission/Hydraulic Diagnostic Facility | Seat, Operator, Air Suspension, High Back, Headrest and Adjustable Armrests |
| Heating, Ventilation and Air Conditioning System | Wiper and Washer, Front and Rear Windows |
| Insulation, Thermal and Acoustic | Sun Visor (Internal) |
| Interior Light | Tinted Glass |
| Mirror Rear View (4) | Window Protection Grille, Rear |
| Mug Holder | Storage Compartment |

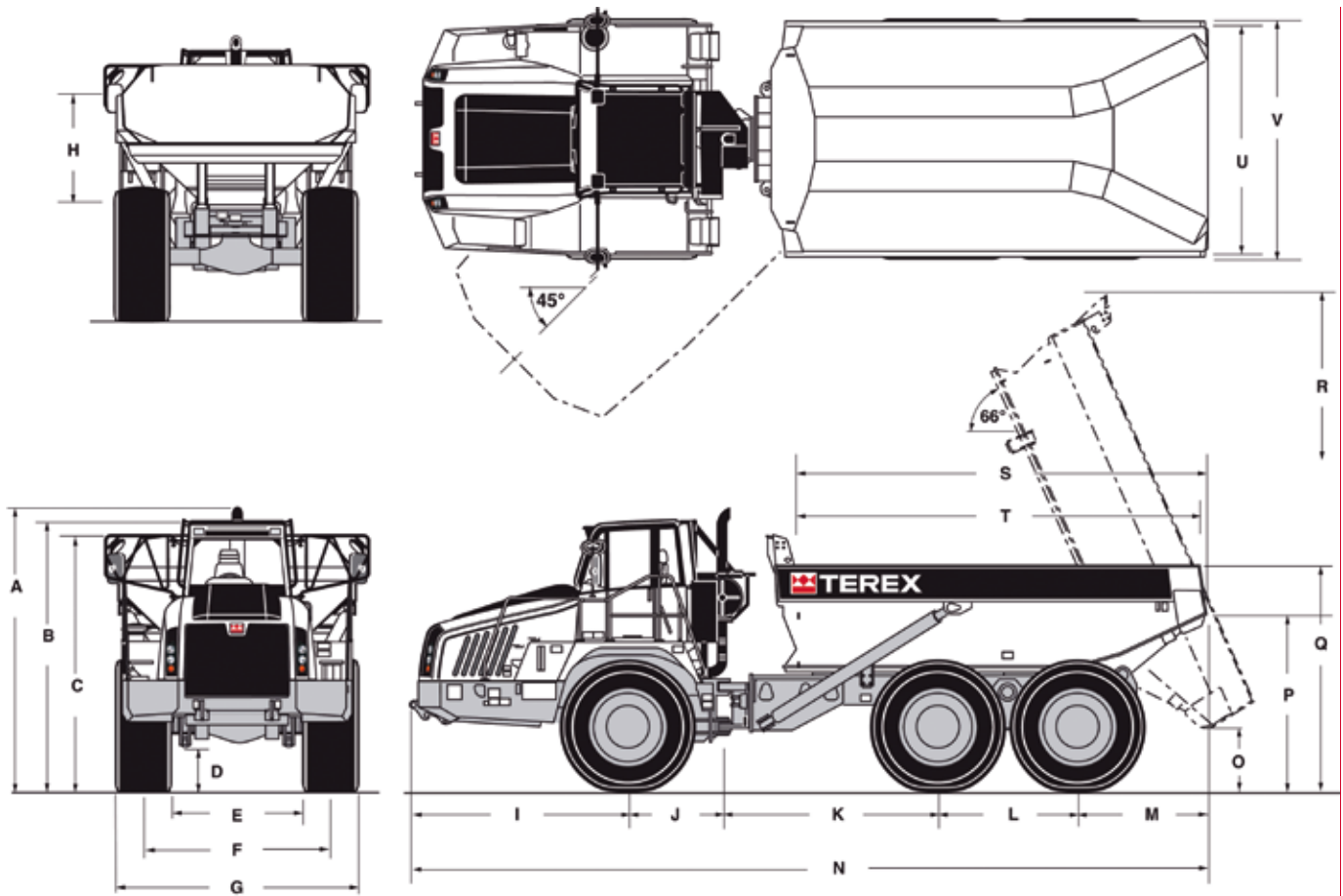
WARNING LIGHTS & ALARMS

| | |
|-------------------------------|-----------------------------------|
| Alternator Charging | Engine 'STOP' |
| Body Up | Exhaust Brake |
| Brake Cooling Oil Pressure | Front Brake Accumulator Pressure |
| Brake Cooling Oil Temperature | Headlight High Beam |
| Differential Lock | Headlights Active |
| Direction Indicators | Hydraulic Oil Filter Change |
| Dropbox High/Low Oil Pressure | Hydraulic Oil Level Low |
| Dropbox High Oil Temperature | Low Fuel |
| Dropbox High Ratio Selected | Parking Brake |
| Dropbox Low Ratio Selected | Rear Brake Accumulator Pressure |
| Engine Air Filter Change | Secondary Steering |
| Engine 'CHECK' | Transmission Check |
| Engine Coolant Level Low | Transmission High Oil Temperature |
| Engine Oil Pressure Low | Transmission Retarder |
| Engine Over-speed Active | |

OTHER OPTIONS

| | |
|-----------------------|--------------------------------|
| Automatic Lubrication | Telematics Systems |
| Fire Extinguisher | Seat Heated |
| First Aid Kit | Tool Kit |
| Parking Brake Guard | Cold Weather Starting Packages |

DIMENSIONS



DIMENSIONS

| | | |
|---|-------------|----------|
| A | 12 ft 11 in | 3945 mm |
| B | 12 ft 3 in | 3740 mm |
| C | 11 ft 8 in | 3550 mm |
| D | 2 ft 0 in | 605 mm |
| E | 6 ft 0 in | 1840 mm |
| F | 8 ft 6 in | 2595 mm |
| G | 11 ft 3 in | 3360 mm |
| H | 4 ft 11 in | 1495 mm |
| I | 10 ft 1 in | 3087 mm |
| J | 4 ft 4 in | 1310 mm |
| K | 9 ft 10 in | 2990 mm |
| L | 6 ft 5 in | 1950 mm |
| M | 5 ft 10 in | 1780 mm |
| N | 36 ft 4 in | 11117 mm |
| O | 2 ft 9 in | 905 mm |
| P | 8 ft 1 in | 2470 mm |
| Q | 10 ft 4 in | 3140 mm |
| R | 22 ft 9 in | 6930 mm |
| S | 18 ft 7 in | 5658 mm |
| T | 18 ft 3 in | 5570 mm |
| U | 10 ft 3 in | 3130 mm |
| V | 10 ft 11 in | 3315 mm |

WEIGHTS

| | | | |
|--------------------------------|------------|----------|--|
| Net Distribution | | | |
| Front Axle | 36155 lbs | 16400 kg | |
| Bogie Axle, Leading | 16500 lbs | 7500 kg | |
| Bogie Axle, Trailing | 16368 lbs | 7440 kg | |
| Vehicle, Net | 69203 lbs | 31390 kg | |
| Payload | 83775 lbs | 38000 kg | |
| Gross Distribution | | | |
| Front Axle | 38845 lbs | 17620 kg | |
| Bogie Axle, Leading / Trailing | 56438 lbs | 25600 kg | |
| Vehicle Gross | 151500 lbs | 68820 kg | |
| Bare Chassis | 54444 lbs | 24760 kg | |
| Body | 11905 lbs | 5400 kg | |
| Hoists, pair | 1455 lbs | 660 kg | |

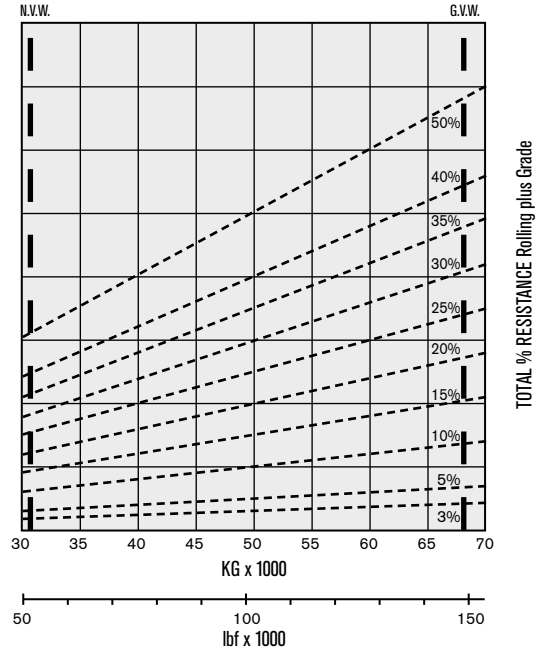
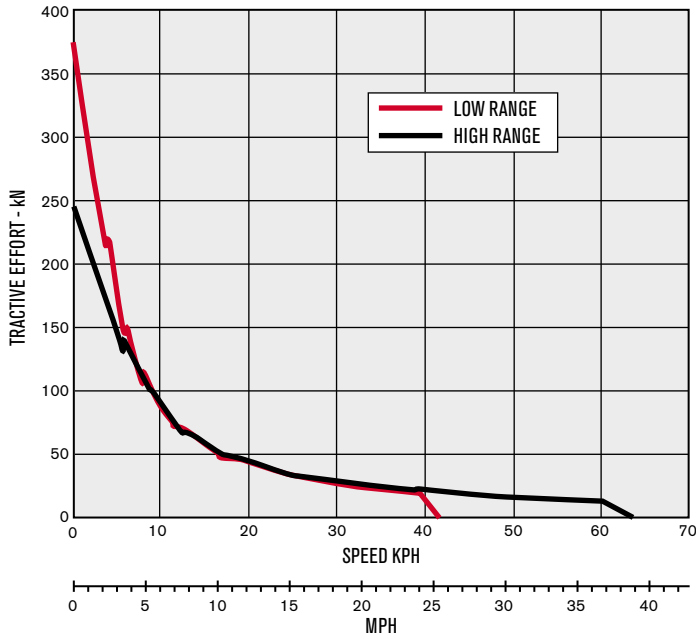
GROUND PRESSURE

These figures are at 15% shrinkage of unloaded radius and specified weights using

| Tires | | 23.5 R25 | | |
|-------|----------|----------|----------|---------|
| | | Unloaded | Loaded | |
| Front | 16.2 psi | 112 kPa | 17.5 psi | 121 kPa |
| Rear | 7.7 psi | 53 kPa | 26.1 psi | 180 kPa |

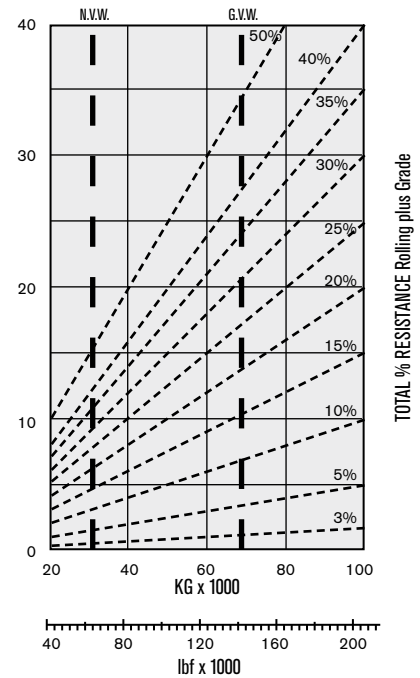
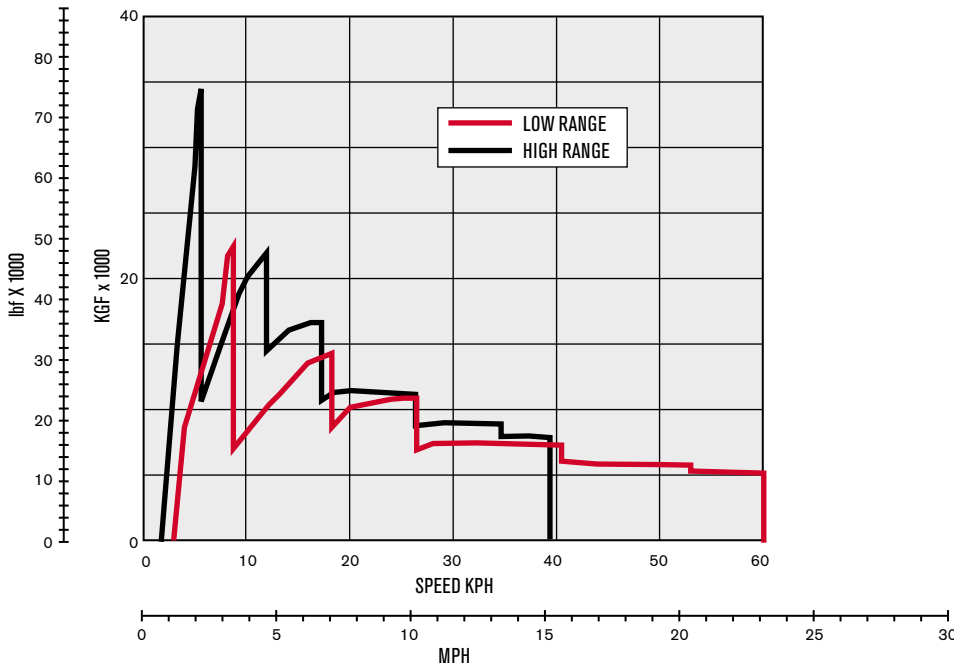
GRADEABILITY

Unit equipped with 23.5 R25 tires. Graphs based on 2% Rolling Resistance.



RETARDATION

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



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AUTO TRANS spol. s r.o.
Konecchlumského 513, 506 01 Jičín
telefon: +420 493 538 066
e-mail: info@atsjicin.cz

Prodej vozidel a strojů
+420 733 539 789
+420 603 497 392
prodej@atsjicin.cz



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