DEVELON

Articulated Dump Truck DA30-5



Engine

| Scania |
|------------------------------------|
| DC09 |
| 5 |
| 375 hp (276 kW) @ 2100 rpm |
| 367 hp (269.9 kW) @ 2100 rpm |
| 1381 ft.·lb. (1873 Nm) @ 1300 rpm |
| 568 in. ³ (9.3 L) |
| 5.1 in. x 5.5 in (130 mm x 140 mm) |
| 24 V, 8 hp (6 kW) |
| 2 x 12 V, 105 AH |
| 24 V, 100 amp |
| Double elements |
| |

Hydraulics

| Main pumps | 77.7 gpm (294 L/min.) |
|----------------------------|-----------------------|
| Relief pressure (main) | 4061 psi (286 kg/cm²) |
| Emergency steer pump | 13.2 gpm (50 L/min.) |
| System pressure (steering) | 3046 psi (214 kg/cm²) |

Travel Speeds

| Travel speed – forward (8) | 3.7 / 5 / 6.8 / 9.9 / 14.3 / 19.9 / 28 / 34.2 mph (6 / 8 / 11 / 16 / 23 / 32 / 45 / 55 km/h) |
|----------------------------|---|
| Travel speed – reverse (4) | 3.7 / 5 / 6.8 / 9.9 mph (6 / 8 / 11 / 16 km/h) |

Environment

| Sound level (2000/14/EC) | 107 dB(A) |
|------------------------------|-----------|
| Cabin sound level (ISO 6396) | 71 dB(A) |

Refill Capacities

| Fuel tank | 95.1 gal. (360 L) |
|------------------------------------|--------------------|
| DEF tank | 18.5 gal. (70 L) |
| Cooling system (radiator capacity) | 11.9 gal. (45 L) |
| Engine oil | 9.2 gal. (35 L) |
| Transmission | 17.7 gal. (67 L) |
| Front differential | 2.5 gal. (9.4 L) |
| Rear differential | Included in tandem |
| Front hub (2) | 2.5 gal. (9.6 L) |
| Tandem housing (2) | 40.9 gal. (155 L) |
| Rear hub (4) | Included in tandem |
| Hydraulic system | 25.1 gal. (95 L) |

Body

| Body volume (2:1) | | 23.3 yd³ (17.8 m³) |
|----------------------------------|--------------------------------|---------------------------|
| Body dumping time | | Up: 12s / Down: 10s |
| l aval annacibo | with tailgate | 18.6 yd³ (14.2 m³) |
| Level capacity | evel capacity without tailgate | 17.8 yd³ (13.6 m³) |
| Hannad assessing | with tailgate | 23.3 yd³ (17.8 m³) |
| Heaped capacity without tailgate | 22 yd³ (16.8 m³) | |
| Density index | | 2809 lb./yd³ (1667 kg/m³) |

Hydraulic Cylinders

| Body tilt (2) bore x stroke | 4.5 in. x 90.2 in. (115 mm x 2290 mm) |
|-----------------------------|---------------------------------------|
| Steering (2) bore x stroke | 3.9 in. x 20.3 in. (100 mm x 515 mm) |

The piston rods and cylinder bodies are made of high-strength steel. A shock-absorbing mechanism is fitted in at the base and rod end of the lift and bucket cylinders and the rod end of the steering cylinders to ensure shock-free operation and extended piston life.

Features



Suspension

- Front: semi-independent, self-leveling hydro-gas suspension
- · Rear: free-swinging tandem housing

Articulation Hinge and Steering

- Articulation hinge with forward-mounted turning ring
- · Steering cylinders (two): double-acting
- Steering approved according to ISO 5010
- Maximum steering angle: 45°
- · Ground-driven emergency steering pump

Driveline

- Full-time 6×6 drive: two transverse differentials, one longitudinal
- Front and rear axle transverse differential: limited-slip diff lock with 45% locking ratio
- Inter-axle longitudinal differential:
- Torque-proportioning differential: integrated into ZF transmission
- Torque distribution: 1/3 to the front axle, 2/3 to the rear axle, 100% lockable
- Tandem housing: gear driven, free-swinging
 Provides equal drive to rear wheels and ensures the best possible ground contact – whatever the ground conditions.

Brake System

- Dual circuit braking system acting on all six wheels
- Approved according to ISO 3450
- All hydraulic-operated brakes with enclosed oil-cooled wet multiple discs on four hubs (braking force distributed to two hubs by tandem gear wheels)
- Spring actuated hydraulic released parking brake, mounted on driveline shaft
- Maximum gradient, parking brake: 15°
- · Automatic transmission retarder as standard

Cab

- Approved to ROPS/FOPS standards (ISO 3471/ISO 3449)
- Low interior sound level: 71 dB(A) (ISO 6395)
- External sound level: 107 dB(A) (ISO 6396)
- · Cab centrally located on rubber mountings
- Hand and arm vibrations less than 2.5 ms² (ISO 5349-2)
- Whole body vibration less than 0.5 ms² (ISO 2631-1)
- · Superior visibility for safer operation
- Superior operating controls location
- Adjustable suspended operator seat
- · Adjustable steering column
- · Climate control heater and air conditioning
- Tilting for service access
- · All-around hand rails



Technical Specifications

Dimensions

| Gross weight | | 112877 lb. (51200 kg) |
|----------------------------|------------|-----------------------|
| Net weight | | 51147 lb. (23200 kg) |
| Payload | | 61729 lb. (28000 kg) |
| | front axle | 28131 lb. (12760 kg) |
| Empty weight distribution | rear axle | 23016 lb. (10440 kg) |
| | front/rear | 55% / 45% |
| | front axle | 34992 lb. (15872 kg) |
| Loaded weight distribution | rear axle | 77885 lb. (35328 kg) |
| | front/rear | 31% / 69% |

Ground Pressures

| ••• | front axle | 15.8 psi (1.11 kg/cm²) |
|------------------|------------------------|------------------------|
| empty | Empty rear axle | 7.0 psi (0.49 kg/cm²) |
| 1 4 - 4 | front axle | 19.7 psi (1.39 kg/cm²) |
| Loaded rear axle | 23.6 psi (1.66 kg/cm²) | |

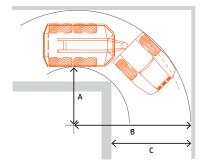
Power to Weight Ratio

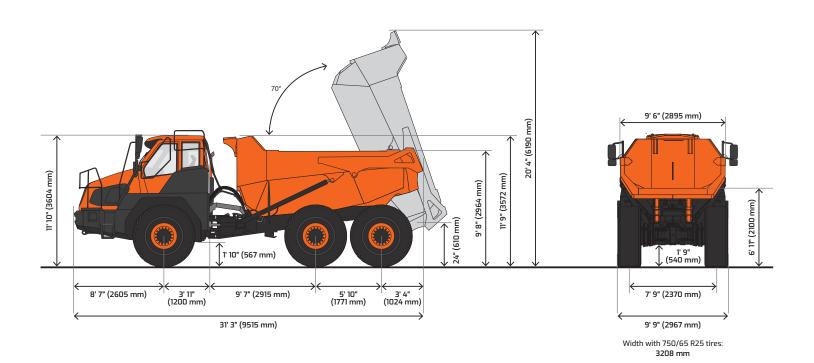
| Empty | 14.16 hp/tn (11.64 kW/t) |
|--------|--------------------------|
| Loaded | 6.41 hp/tn (5.27 kW/t) |

Turning radius according to ISO 7457: **25' 2" (7680 mm)**

A = 12' 9" (3890 mm) B = 26' 4" (8030 mm)

C = 17' 4" (5280 mm)





Standard & Optional Equipment

■ Standard

Optional

Engine

| Emissions, T4 (EPA) | |
|---|---|
| High-pressure common-rail (HPCR) | - |
| Cooled exhaust gas recirculation (CEGR) | |
| Exhaust brake | - |
| Selective catalyst reduction (SCR) | |
| Diesel exhaust fluid (DEF) | - |
| Fuel filter with water separator | |
| Coolant recovery tank | - |
| Dual element dry-type air filter with evacuator | |
| Electronic engine control (ECU) | - |
| Cool-down mode | |
| Diesel-powered coolant heater | - |
| Block heater (110 V) | • |
| · · · · · · · · · · · · · · · · · · · | |

Hydraulic

| Variable displacement axial piston pump | |
|--|--|
| Cooling fan – hydraulic, variable speed | |
| Emergency steering pump (ground driven) – variable displacement radial piston | |

Electrical

| System voltage – 24 V | - |
|---|---|
| Alternator – 24 V, 100 amp | |
| 2 x 12 V batteries, 140 AH reserve capacity | |
| Blade-type fuse panel | |
| Lights, work (halogen): front & rear | • |
| Lights, work (LED): front & rear | • |
| Lights, stop, tail & direction indicators | |
| Rotating beacon | • |
| Hour meter | - |
| Rearview camera | |
| Laptop service port | |
| Self-diagnostics system | • |
| Emergency shutdown switch | • |
| | |

| Controls | |
|---|---|
| Adjustable steering column - Tilting - Telescoping | • |
| Throttle pedal (accelerator) | • |
| Brake pedal | • |
| Gear selector ("trip-tonic") | |
| Body hoist lever | • |
| Adjustable hydrodynamic retarder lever | |
| Switches, console-mounted - Key switch - Parking brake | • |
| Buttons & indicator lights, keypad - Parking lights - Main lights - Engine pre-heater - Hazard lights - Rear axle differential lock - Inter-axle differential lock - Inter-axle differential lock - Retarder control - Fuel heater - Heated seat - Heated mirrors - Rear work lights - Rotating beacon - Work lights - Interior cabin light | |

Cabin

| Steel, all-weather & sound-suppressed | - |
|--|---|
| ROPS (ISO 3471) | - |
| FOPS (ISO 3449) | - |
| Front window with wiper/washer | - |
| Rear window | - |
| Tinted safety glass | - |
| Visor, retractable | - |
| Adjustable sliding side door window | - |
| Defrost | - |
| Lockable doors | - |
| Seat - Air suspension - 2" (51 mm) seat belt - Adjustable height & recline - Adjustable fore/aft - Adjustable armrests | |
| Seat, heated | • |
| Instructor's seat, folding | - |
| Storage for operator's manuals | - |
| Mirror, interior rearview, exterior (2) | - |
| Mirror, exterior, heated | • |
| Fully adjustable HVAC | |
| Multi-function LCD player | - |
| Cigarette lighter | - |
| AM/FM stereo with CD player & MP3 port | - |
| Speakers (2) | - |
| Antenna | - |
| Space for cooler box | |
| Storage | • |
| Power socket, 12 V | • |
| Beverage holder | • |
| Interior light | |
| Guard, rear window | |
| Cab tiliting system | |

Display Monitor & Warnings

| | | _ |
|---|--|---|
| ntrols | Buzzer - Brake system - Parking brake | |
| stable steering column ing | Gauges - Fuel level - DEF level | - Speedometer - Transmission gear indicator |
| ottle pedal (accelerator) | - Engine coolant temperature | - Battery voltage |
| e pedal • | Transmission oil temperature Retarder oil temperature | - Digital clock - Trip meter |
| selector ("trip-tonic") | - Payload meter | - Hour meter |
| y hoist lever | - Gradient meter - Engine rpm | - Fuel consumption |
| stable hydrodynamic retarder lever | Warning & indicator lights | |
| ches, console-mounted / switch king brake | - Seat belt - Error code - SCR warning - Check engine | - Direction signal - Emergency steering - Transmission mode - Transmission lock-up |

- Check engine Engine oil pressure Engine pre-heat engaged Radiator coolant level
- & temperature Air filter Fuel level

- Transmission tock-up
 Transmission oil temp
 Transmission gear indicator
 Retarder oil temperature
- Retarder brake

- Rectarder brake
 Air filter Lubrication system
 Fuel level Body down
 DEF level Parking brake indicator
 Lights (high, main, work, beacon) Payload indicator
- Payload indicator, external

Frame & Suspension

| Articulation hinge | |
|--|---|
| Steering cylinder, double-acting (2) – cushion, retracting | • |
| Turning ring, forward-mounted | • |
| Towing hook, front & rear | • |
| Sloping rear frame | • |
| Independent, hydro-gas cylinder with pressure accumulators | • |
| Tires, radial 23.5 R25 (Techking) | • |
| Tires, radial 23.5 R25 (various brands) | • |
| Tires, radial 750/65R25 (various brands) | • |
| Tire pressure monitoring (certain tires only) | • |
| | |

Driveline

| Transmission, automatic – electronic shift control | - |
|---|---|
| Torque converter lock-up clutch | - |
| 6x6 drive, full-time | - |
| Tandem rear bogey – gear-driven, free-swinging | - |
| Driveline interaxle differential – 1/3 front, 2/3 rear, torque divider, 100% locking ratio | • |
| Front axle transverse differential – limited-slip, 45% locking ratio | • |
| Rear axle transverse differential (1) – limited-slip, 45% locking ratio | • |
| Rear axle transverse differential (1) – clutch-engaged, torque-dependent locking ratio | • |
| Automatic hydrodynamic transmission retarder | - |
| Automatic engine brake | • |
| Braking system, dual circuit | • |
| Hydraulic, wet multiple discs – 4 (front & mid wheels) | • |
| Parking brake, spring-applied hydraulic release – driveshaft mounted | • |
| | |

Rody

| bouy | |
|--|---|
| Body, high-tensile Hb400 steel | • |
| Body (none) | • |
| Lifting cylinder, double-acting (2) – cushion, extending | - |
| Tailgate, scissor type | |
| Tailgate (none) | • |
| Spill guard on front of body | |
| Body heating kit | |
| Body heating | |
| Body lining, standard | • |
| Body lining, full | • |
| Side extensions | • |
| | |

Other

| Automatic lubrication system | - |
|---|---|
| Handrails & service steps | |
| Skid-resistant steps & service platforms | |
| Body lift support | |
| Fire extinguisher | • |
| First aid kit | • |
| Manuals - Operation & Maintenance - Parts - AEM Safety Manual | • |
| DEVELON Fleet Management | - |
| Vandalism protection - Lockable panels - Lockable fluid fill points | |
| Toolkit | • |
| Fast fill | • |
| Mud flaps | - |

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