

Articulated Dump Truck **DA30**





Maximum power (ISO 3046): 375 HP Maximum payload: 28 m t Body capacity heaped (with/without tailgate): 17.8 / 16.8 m³



Doosan Group – Building your tomorrow today

Be part of the great Doosan family

The Doosan Group - founded in 1896 and headquartered in Seoul, South Korea - is one of the fastest-growing companies in the world:

- With more than 37,500 employees in 38 countries, we are a major player in a variety of industries worldwide.
- A global leader in the Infrastructure Support Business (ISB), with 56 subsidiaries and 3,700 distributors worldwide.
- Dramatic growth over the past two decades, with an annual Doosan Group revenue rising from €2.4 billion in 1998 to €12.8 billion in 2016.

Doosan Group – a top player worldwide



Doosan Infracore

• Among the world's Top 5 manufacturers of construction equipment



Doosan Bobcat

- A leading company in the design, manufacture, marketing, distribution and service of small equipment and attachments for construction,
 World N° 1 in desa
 World N° 1 in heat
- agriculture, and landscaping

 Leading position in the global compact equipment market
- N° 1 in North America for SSL, CTL and MEX



Doosan Heavy Industries & Construction

- World N° 1 in desalination plant construction
 World N° 1 in heat recovery steam generator
- market • World N° 1 in mould & tool steel
- World N° 3 in crankshafts



Doosan Engineering & Construction

- A pioneering leader in construction of residential and public buildings, civil works and industrial facilities.
- World N° 1 chemical process equipment products









Doosan Infracore Construction Equipment

Creating construction equipment for over 40 years

For over 40 years, we've been building a global production and business network to become one of the world's foremost construction equipment manufacturers.

A solid partner, close to you

A truly global player in every respect, we have large-scale factories, sales subsidiaries and dealers all over the world.



Doosan facilities in Europe

From machine manufacturer... to full solution provider

To ensure the highest trade-in and residual values, our parts and service support professionals maintain the performance, productivity and reliability that you expect of our products throughout their lifetime.

Ask your dealer for a full range of services designed especially for you!

As your local specialist, your dealer ensures that you receive the maximum benefit from our integrated package. Plan ahead to ensure the success of your equipment!

















Doosan approved Genuine parts attachments

Extension of warranty

Financial solutions

Maintenance contract

Telematics

Monitoring systems



Experience the Doosan product range!



Articulated Dump Trucks

Wheel Loaders

Wheeled Excavators

Mini Excavators

Crawler Excavators

Take a tour of the DA30

▶ Productivity

The DA30 offers best-in-class ground clearance & ground bearing pressure. Combined with superior torque at low engine RPM, superior power and traction, we offer you the best productivity.

• Operator's environment: Ergonomic controls, most spacious cab in the market, high-class seat, Bluetooth radio with USB, and much more...

◎ Operate at ease: Upgraded monitor panel, new control panel for more convenient use, payload meter, rear-view camera, body tip boost button, etc.

● Power: Scania DC 09 engine: 276 kW (370 HP) at 2100 rpm with electronic exhaust brake.

> Maneuverability: Unique design of rear frame, body, front-mounted differential and transmission make the Doosan machine the most compact ADT in its class, which results in smallest turning radius and outstanding stability.

• Automatic limited slip differential: Push 1 button to engage the longitudinal differential lock.

Total cost of ownership 🖌

Safety highlights: Gradient meter with body flip-over protection, Over Centre of Gravity function, all around cab hand rails, superior stability and front cab access.

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DABO

Doosan ADTs deliver one of the most competitive operation costs, thanks to the combination of fuel-efficient powertrain, proven design, low-maintenance components, overall durability & unmatched traction.

© Body: Steel plates with 400 HB hardness. Capacity without/with tailgate: 16.8/17.8 m³. Tailgate, body heating & wear plates available as optional equipment.

DOOSAN CONNECT

© Telematics: Monitor your fleet online. As standard, Doosan Connect system with dual mode (satellite, GSM). Check productivity, fuel consumption, system warnings, maintenance status, etc.

© Brake systems: Oil-cooled wet disc brakes (lifetime up to 15,000 hours). Standard electronic engine brake, hydraulic transmission retarder & parking brake.



Service accessibility: New cab tilting system for quick and easy maintenance under the cab.

● New driveline: New limited-slip rear differential and lower running cost, thanks to reduced number of oils and extended transmission oil change interval.

Top performance and fuel efficiency



D The power to raise productivity

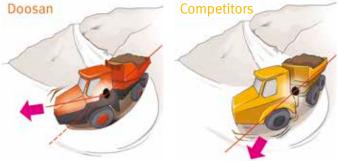
The Doosan ADT concept offers a larger load capacity in all weight categories. Additional load capacity, combined with superior power and traction, improve productivity. The unique advantages of the Doosan ADT's permanent 6-wheel drive, free-swinging rear tandem, front-mounted turning ring, independent front wheel suspension, and sloping rear frame provide excellent driving stability with equal weight distribution and superior traction. The Doosan Articulated Dump Truck is designed to work under very tough conditions and travel up to 55 km/h.











Engines - lower emissions / higher torque

Doosan ADTs use only proven, reliable and powerful SCR and EGR diesel Scania engines with excellent torque, which achieve low fuel consumption and fulfill Stage IV (Tier 4 final) European regulation requirements.

New self-leveling hydro-gas front suspension

The DA₃o's design was based on the successful and proven design of the DA₄o. It has been upgraded with the self-leveling system for better shock absorption in changing operating conditions.

Payload meter

Our standard payload & load count meter provides the Doosan operator and owner with an immediate indication of the productivity.

Downhill speed modulation

The new electronic engine brake & the hydraulic transmission retarder work simultaneously when dosing the accelerator pedal. On top of that, you can modulate the retarder power by the lever under the steering wheel.

Transportability

Thanks to its less than 3-meter width, the DA30 can be moved easily from one site to another.

Forward-mounted turning ring

The turning ring is located in front of the articulation point, ensuring equal weight distribution to the front wheels in all operating situations, including maximum turning. The equal weight distribution enables you to use the differential with only 45% locking value - ensuring drive to both front wheels in all situations, without completely locking the wheels.

New rear differential

The rear differential was changed to the limited-slip type to ensure that the wheels have a good grip with the ground at all times.

Traction

The unique Doosan ADT's design offers permanent 6-wheel drive, ensuring stability and equal weight distribution to accommodate all job applications. The Doosan ADTs superior driveline ensures maximum traction and durability.

Front-mounted articulation hinge

2 limited-slip differentials

1 manual differential lock

Sloping rear frame

Gear-driven tandem axle



Design simplicity: Permanent 6-wheel drive, together with the ground following rear tandem and our special front-mounted turning ring, provide equal power & weight distribution and excellent operating performance. The sloping rear frame provides a lower centre of gravity - improving the ADT's overall stability, and ensuring fast and easy tipping of the body for increased productivity.

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DOOS

Operate in comfort

Quietest truck in the industry

The spacious ROPS/FOPS cab is equipped with climate control and a high-quality operator seat with air suspension to provide excellent comfort. Precise steering, good visibility, low noise levels (72 dB(A), ISO6395) and optional vertical movement provide additional comfort and quiet.

- The sloping hood gives the operator an excellent view
- The cab is mounted on a special rubber suspension to reduce vibration and conduction of noise into the cab



Best-in-class operator environment

The new DA30 cab was designed based on the feedback received directly from hundreds of Doosan operators. This resulted in upgrade of the cab in features and functions required by the market, including: hand grip on the right side, foot rest, improved storage room, USB charger, Bluetooth radio, all around rails outside the cab, additional lever for retarder control and a number of other new features.

High-comfort air-suspension seat

Because a highly comfortable seat means a lot to every operator, we provide an air-suspension seat with armrest as standard.

One key solution

To enter and safely operate your Doosan ADT, you need just 1 key to lock and unlock all the doors and also start the engine.

Self-leveling, hydro-gas front suspension

New suspension system has outstanding performance in rough terrain due to big shock absorption capacity of the hydraulic suspension cylinders. On top of that, the self-leveling system can adjust to match changing working conditions.

Storage compartments and hot/cool box

Plenty of storage spaces, plus extra room designed to fit cool/hot box with additional 12V power supply.

MP₃, DAB and Bluetooth

Standard radio supports all modern features like MP3, DAB and Bluetooth

Climate control

Our specially designed climate control is easy to operate and highly efficient - keeping you comfortable at all times.

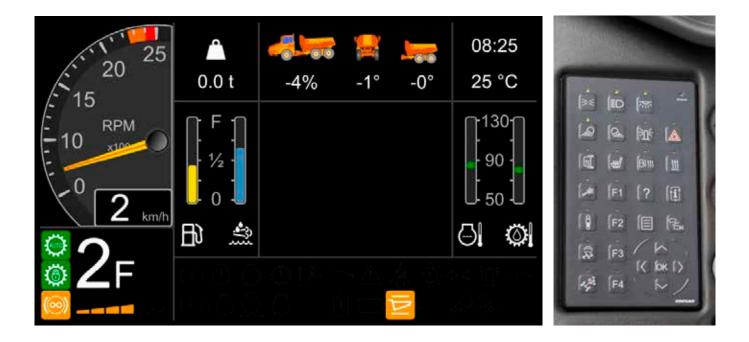


Total control in all simplicity

Operate at ease in your comfort zone

The Doosan ADT is one of the industry's simplest trucks to operate and at the same time offers a large number of functions. Comfortably seated in this class-leading operator cab, you'll enjoy easy operation combined with excellent efficiency. And thanks to the upgraded monitor panel, you'll operate in your comfort zone.

- Bigger indications
- Multiple languages
- Integrated payload meter (as standard)
- Diagnostic section with transmission and hydraulic oil level check function
- Gradient meter indication for increased safety while operating
- Integrated rear-view camera



LCD color monitor panel

- 7" color display, resolution 800 x 480 pixels
- Shows all necessary information for driving and handling the machine
- Rear-view camera image embedded in instrumentation graphics
- Backlight dimming according to ambient light conditions
- Sub-menus for additional and diagnostic functions

Touch pad

- Diesel fuel heater ON/OFF
- Inter-axle differential lock
- Override button
- \bullet Cab roof and mirror arm front lights ON/OFF
- Rotating beacon ON/OFF (optional)
- Operating work-lights ON/OFF

Differential activation

With automatic limited slip differentials, automatic and manual transmission shift, power steering, "simple touchpad" and "easy to read" display, every ADT is as simple to use & operate as possible.

Body hoist lever

The new body hoist lever is easy to operate and fingertip controlled. This electronically managed hoist lever incorporates a higher body up speed and an automatic body down feature, with soft touch down, to keep you safe at all times.

"Tip-tronic" gear shift

To ensure the smoothest possible gear shifts and momentum, you can run the truck in both automatic and manual gears.

Retarder force modulation lever

New lever located on the right-hand side below the steering wheel enables operator to choose from 4 power modes. On top of that, the gas pedal is responsible for retarder power reduction.





Body hoist lever with boost button

All-round visibility

Simple maintenance with great uptime

Excellent service accessibility

- The hood's wide opening (up to 83°) provides excellent access to the engine for easy maintenance
- The tilting cab allows the same clear access to the transmission and hydraulic components
- All electrical and AC connections are at the rear of the cab, allowing the cab to be tilted while maintaining connections
- The factory-fitted automatic central lubrication system is fully incorporated in the design of our ADTs. Thanks to the Vehicle Control Unit (VCU), grease is pumped only when necessary
- The new EP transmission is specially designed for easier maintenance







Training Center

Located in the heart of Europe, near Prague (Czech Republic), the Doosan Academy is a dynamic center of knowledge where Product, Service and Doosan University training courses are held.

The facilities include a modern building that can accommodate all of the product ranges, and an outdoor training area where we conduct field exercises and product testing with the fleet of Doosan machines and attachments.

Filters

All filters are centralised for quicker and easier accessibility.

Global Doosan network

With a network of Doosan dealers & Parts Distribution centers worldwide, your Doosan trucks can be serviced & maintained wherever you are.

Telematics

The Doosan Connect system is available for reading out vehicle operating & production parameters remotely, and providing you with total ease-ofmind. Keep day-by-day overview on the machine's productivity, status and condition.





SCR with NO DPF: Building further on the success of the Stage IIIB engines, the new Stage IV Scania engine has no need for a DPF filter to meet the Stage IV emissions requirements.



DOOSAN CONNECT

WORK EFFICIENCY MANAGEMENT

JOB SITE MANAGEMENT

DOSAN



PREVENTIVE MAINTENANCE

PROACTIVE SERVICE

OPERATION TREND Total operation hours and operation hours by mode

FUEL EFFICIENCY* Fuel level and fuel consumption

LOCATION GPS and geo-fence

REPORTS Operation report & utilization

WARNING & ALERT Detect machine warnings, antenna disconnection, and geo/time fence

FILTER & OIL MANAGEMENT Preventive maintenance by item replacement cycle

TELEMATICS TERMINAL

Terminal device is installed and connected to a machine to get machine data.

TELECOMMUNICATION

Doosan provides Dual mode (Mobile, Satellite) communication to maximize communication coverage.

DOOSANCONNECT WEB

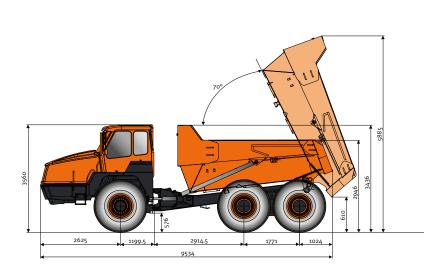
Users can monitor machine status from DoosanCONNECT Web.

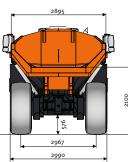
*Functions may not be applied to all models. Please contact your sales representative for more information on this feature.

Technical specifications

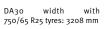
D Body	DA30
Body volume (without tailgate)	16.8 m ³ – 23.3 yd ³
laterial	Hardened abrasion-resistant steel plates (400 HB)
ilt cylinders	Single stage, double-acting
ipping time	Up: 12 sec. / Down: 10 sec.
ody	Designed for exhaust heating
loping frame	Down from the hinge point
evel capacity (with / without tailgate)	14.2 m ³ / 13.6 m ³ – 18.6 yd ³ / 17.8 yd ³
eaped capacity (with / without tailgate)	17.8 m ³ / 16.8 m ³ – 23.3 yd ³ / 22.0 yd ³
ensity index	1.64 t/m ³
Weights	
mpty: Front axle	11900 kg – 26235 lb
mpty: Rear axle	9800 kg = 20235 lb
ax. load: Front axle	16700 kg - 36817 lb
ax. load: From axe	34800 kg - 76721 lb
	28000 kg - 70721 lb 28000 kg - 31 sh th
ay load	
otal weight (loaded)	49700 kg - 113317 lb
et weight OTT- All weighte include a full fuel tank and an aratar	21700 kg – 51588 lb
DTE: All weights include a full fuel tank and operator.	
Power to weight ratio (Net Power vs Ton)	
npty	12.7 kW/t
oaded	5.55 kW/t
Ground pressures	Standard 23.5 × 25 tyres with 15% sinkage
mpty: Front axle	114.7 kPa – 16.6 psi
mpty: Rear axle	55.4 kPa – 8.0 psi
oaded: Front axle	159.1 kPa – 23.1 psi
oaded: Rear axle	166.0 kPa – 24.1 psi
Capacities	
uel Tank	335
ydraulic System	210 l
ngine Cooling System	45 l
ransmission	67 l
ingine Crankcase	33.5 l
ront Reduction Gear	2 × 11 l
andem Housing	115 l
ear Reduction Gear	4 × 7 l
dblue® tank	38 l
Speeds	Forward – Reverse
orward 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8	6 - 8 - 11 - 16 - 23 - 32 - 45 - 55 km/h
ear 1 – 2 – 3 – 4	6 - 8 - 11 - 16 km/h
	0 0 11 10 (11/11
> Engine	Scania DC 9, water-cooled, diesel engine
omplies with Stage IV of EU Directive 97/68/EC for emissions	with turbo charger and air-to-air intercooler
ower rating ISO 3046 / ISO 14396 @ 2100 rpm	375 HP (276 kW) / 362 HP (270 kW)
o. of cylinders	5 (in line)
ross Torque	1873 Nm @ 1300 rpm
ngine exhaust brake	Yes
ylinder volume	9.3 litres
ore diameter × stroke	
ir filter	130 × 140 mm
	Dry type
Transmission	
lectronically-controlled automatic transmission	ZF 8 EP320
th retarder. The torque converter has automatic lock-up in all gears.	
Hydraulic system	
variable displacement piston pump for steering & tipping for cooling fan, brakes & auxiliaries	305 l/min @ 2100 rpm
Itration	One return flow filter
ain safety valves pressures, tipping / steering circuit	280 / 210 bar
Electrical system	
atteries	2 × 12V 140Ah (series connected to give 24V)
tarter	7.5 HP (5.5 kW)
Iternator	24V 100A
	24*100/
Tires	
	23.5 R25 two star radial

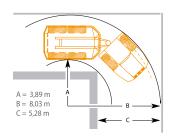
DA30





Unit: mm





Turning radius according to ISO 7457: 7.68 m



Special features

DA30 special 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.
- ▶ The steering is approved according to ISO 5010.
- ► Max. steering angle: 45°.
- ► Ground-driven emergency steering pump.

Driveline

- ► Full-time 6 × 6 drive with two transverse differentials and one longitudinal.
- ▶ Front axle transverse differential: Limited-slip diff lock with 45% locking ratio.
- ▶ Rear axle transverse differential: Limited-slip diff lock with 45% locking ratio.
- ► Inter-axle longitudinal differential:
- •Torque-proportioning differential, integrated into the ZF transmission.
- $\cdot \text{Torque distribution:} \\$
- 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.
- ► Max. gradient, parking brake: 20°.
- ► Automatic engine brake as standard.
- ► Automatic transmission retarder as standard.

Cab

- ► Approved to ROPS/FOPS standards (ISO 3471, ISO 3449).
- ► Low interior sound level: 72 dB(A) (ISO 6395).
- ► External sound level: 108 dB(A) (ISO 6396).
- ► The cab is centrally located on rubber mountings.
- ▶ Hand and arm vibrations are less than 2.5 ms² (ISO 5349-2).
- ▶ Whole body vibration is less than 0.5 ms² according to 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.



Standard and optional equipment

⊃ Engine	DA30
Scania, Stage IV compliant, SCR, EGR, water-cooled, diesel engine with turbo charger and air-to-air intercooler	•
No DPF	•
Hydraulic system	
1 variable displacement piston pump for steering & tipping	•
One return flow filter	•
Cab & Interior	
Armrest at operator seat	•
Headrest at operator seat	•
Safety belt at operator and instructor seat	•
Adjustable steering column	
All instrumentation in LCD display	
Cigarette lighter and ashtray	•
12V charging point	•
Retractable roller sunblind	•
Tinted safety glass	
Sliding window (left & right side)	
Windshield wiper and washer	•
Mirror	•
Protection for rear window	•
Emergency steering, ground-driven	•
Radio/CD/MP3	
Work light front, at the top of the cab	
Cab tilting system	
Emergency shutdown switch	•
Anti-slip steps & platform	•
Cool box compartment	•
Storage room	•
Electronic climate control	•
Front light protector (Lexan)	•
High-comfort seat (vertical and longitudinal suspension)	•
Heated operator seat	•
Heated mirror	•
Electrically adjustable mirrors	•

Safety

Gradient meter with anti-flip-over protection system	•
Payload meter & cycle counter	•
Wet disc brake	•
Rear-view camera	•
Hammer for emergency escape	•
Hand rails on the fenders	0
Seat belt green warning light	0
Blue or orange flashing reverse light	0
White noise alarm	0

Other

Engine exhaust brake	•
Transmission retarder brake	•
Automatic lubrication system	•
Mud flaps	•
Towing hook, front and rear	•
Doosan Connect Telematic system	•
Tail gate	0
Webasto heating system (heat up the cooling system)	0
Electrical engine heater	0
Fire extinguisher	0
First aid kit	
Beacon	0
Light bar	0
Speed limitation	0
Work light kit (rear and front)	0
Work light kit (rear and front) LED	0
Tool kit	0
Warning triangle	
Fast fill	
Tire pressure monitoring system (may not be available with all tires)	
Electric diesel refueling pump	0

C Tires options

Quarry	0
Earthmoving	0
Flotation tires	0

Standard:	
Optional:	

Some of these options may be standard in some markets. Some of these options may not be available for certain markets. Please check with your local DOOSAN dealer for more information about availability or to adapt your machine to your application needs.



Side extensions



Tail gate



LED lights



High-comfort seat



Heated body



Quarry tires



Fast fill



High flotation tyres





