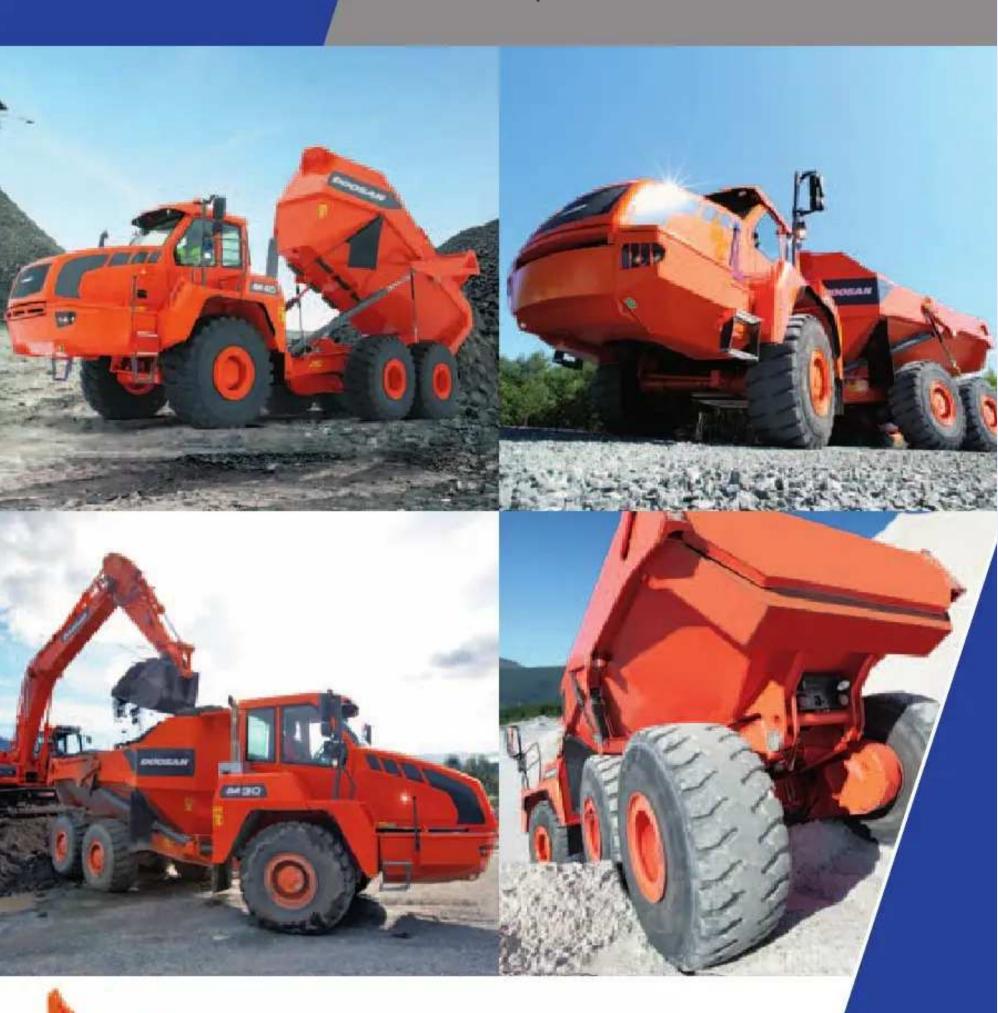
💿 31 sh tn (28000 kg) - 44 sh tn (40000 kg)



23.3 yd³ (17.8 m³) - 31.9 yd³ (24.4 m³)

DA30 - DA40 | Articulated Dump Truck





New generation of Doosan Articulated Dump Trucks

Reliable machinery for challenging conditions

Doosan strives to be a pioneer in the field of product development and performance. With the new generation of DOOSAN Articulated Dump Trucks, the product features have been refined and innovated to meet the tough demands of the future. Our philosophy is to stay one step ahead of the competition and always deliver a full range of Articulated Dump Trucks to suit the market.



Doosan ADTs

Our goal has been to develop a new line of advanced, reliable and cost effective Articulated Dump Trucks, loaded with significant competitive advantages.

Thanks to a new, modern design and state-of-the-art technical features, Doosan ADTs offer you all the benefits you expect from an Articulated Dump Truck:

Power

2

Traction

Productivity Stability

Scandinavian durability with Korean excellence

Aiming at the best

During the design phase of our new ADTs, the quality standards were further enhanced by Doosan expertise and reliable processes, creating best-in-class Articulated Dump Trucks that will give you complete satisfaction in all terrain conditions.

Thanks to more of thirty years dedicated to product development, the new generation of Doosan trucks provides innovative drivetrain and fatigue-proof structures.



The Doosan network is your best support

Thanks to the Doosan dealer support network and its fully owned parts distribution centers, we can provide parts distribution worldwide.





New productivity standards



PRODUCTIVITY

Exclusive transmission

The Doosan ADTs use reliable transmissions that feature smooth and equal gear shifting abilities.

As a result, there is a maximum transfer of net power from the transmission to all 6 wheels, providing maximum traction and best-in-class fuel efficiency.

Downhill speed modulation

4

Downhill braking can be increased or decreased simply by "dosing" the accelerator pedal.

Convenient dump lever

A new fingertip-controlled body hoist/dump lever is conveniently located next to the gear lever. This location allows the operator to have full control over body hoisting and dumping with little strain to the wrist or arm. The floating feature on the body down function ensures a smooth, jolt-free lowering of the body to the rest position.



POWER

The Doosan ADT concept offers a larger load capacity in all weight categories.

Additional load capacity, combined with superior power and traction, allow for improved productivity.

The unique advantages of the Doosan ADTs permanent six-wheel drive, the free swinging rear tandem, the front mounted turning ring, the independent front wheel suspension and the 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 over 55 km/h.

New engines - lower emissions / higher torque

Doosan ADTs use only proven, reliable and powerful diesel engines with excellent torque which achieve low fuel consumption and fulfil Tier II regulation requirements. **Total cost of ownership**

By combining the newest Scania engines, ZF transmissions and our unique free swinging tandem drive, the running cost in terms of cost per tonne transported, is unrivalled in

the market. Minimum fuel consumption is achieved whilst the lock up clutch is immediately engaged, avoiding any slippage and therefore loss of power.

5

Safe in all conditions



STABILITY

Bogie suspension

Doosan ADTs free-swinging rear tandem bogie and the special articulation system offer excellent performance and the best possible ground contact in soft and uneven terrain. **Rear frame**

Thanks to the sloping rear frame, the load of the truck is distributed equally among the 6 tyres. This ensures a lower centre of gravity, greater stability, better tractive effort and less tyre wear, unlike our competitors.

Unique front wheel concept

One of the main highlights of the Doosan ADT design is the location in the front of the turning ring in relation to the articulation point, which always ensures equal weight distribution to the front wheels.

Equal weight distribution to the front wheels makes it possible to use the differential locks while maintaining manoeuvrability.

Our unique independent front wheel suspension allows for maximum ground contact and shock absorption.

SAFETY

Thanks to the unique design of the forward-mounted turning ring, sloping rear frame and free swinging tandem bogie, weight is distributed equally throughout the truck, providing excellent stability. The rear tandem ensures the tyres are in continuous contact with the ground for more stability and thus the best safety in the market.

"Over Centre of Gravity" safety feature

During tipping of the body, this feature prevents a "sticky" load from lifting the front half of the truck.

The system slows down the tipping speed when the load starts to pull the hoist cylinders backwards.



TRACTION

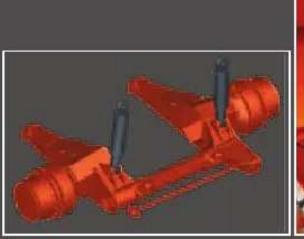
The unique Doosan ADT design offers permanent six-wheel drive which ensures stability and equal weight distribution to accommodate all job applications.

The Doosan ADTs superior driveline ensures maximum traction and durability.

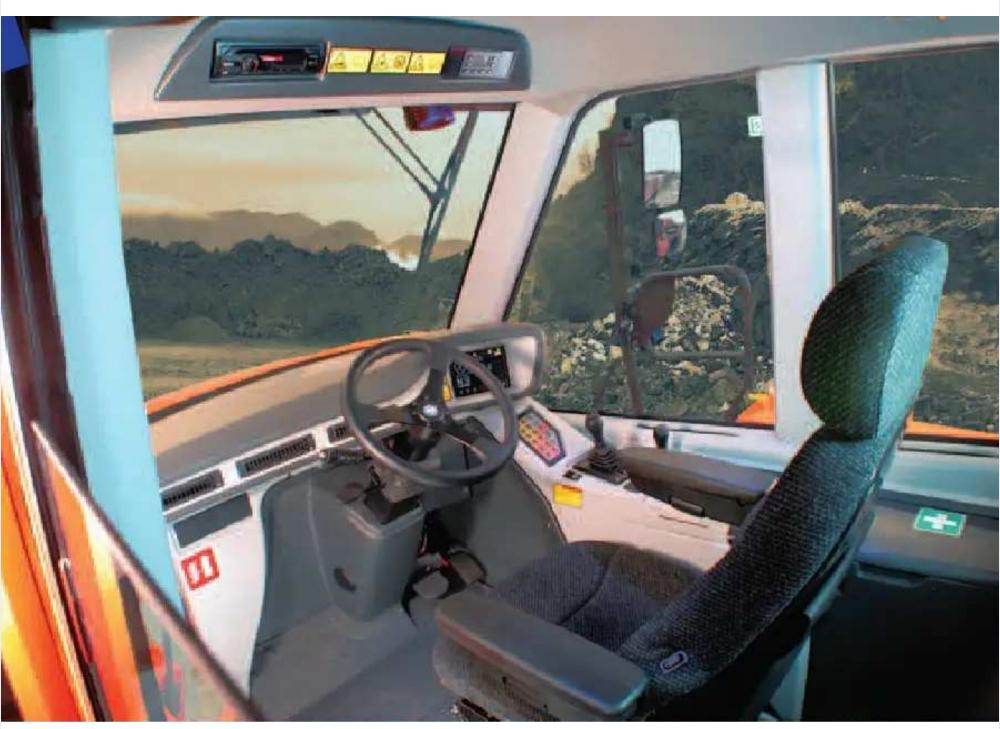
Semi-independent front suspensior

New hydro-pneumatic system specially designed for DA40. Low ground-bearing pressure

Thanks to the combination of the sloping rear frame for better weight distribution and the free swinging tandem, the ground bearing pressure of our ADTs is equal to that of a traditional machine equipped with flotation tyres.







Climate control

Hot / cool box

Air suspension seat

Tiltable and telescopic steering



OPERATE IN COMFORT & SIMPLICITY

Quietest truck in the industry

- The ROPS/FOPS cab is equipped with climate control and an high quality operator seat with air suspension to provide excellent comfort. Precise steering, good visibility and low noise levels [DA30: 72 dB(A) & DA40: 71 dB(A)] provide a comfortable and quiet cab environment
- The sloping hood provides an excellent view from the operator's position
- The cab is mounted on a special rubber suspension in order to reduce vibration and noise transfer into the cab

Best-in-class operator environment

Doosan ADTs are powered by industry-leading engines that achieve low fuel consumption and meet the latest Tier II regulations in addition to all noise regulations. Doosan ADTs provide exceptional operator comfort with low cab vibration and noise levels.



When operating becomes easy

00

Body hoist lever

Simply by pressing a button on the body hoist lever, the operator can automatically apply engine rpm when raising the body, increasing overall productivity without having to apply the accelerator pedal.

CONTROLLABILITY

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, allowing you to work in safe conditions. "Tip-tropic" gearshift

This feature enables the operator to run the truck in both automatic and manual gears to ensure the smoothest possible

gear shifts and momentum while operating the truck. **Excellent all-round visibility**

Thanks to the excellent position and the use of special "wide angle" side mirrors, the operator is assured of having excellent all-round visibility for safer operation.





LCD colour monitor panel

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



Touch pac

- Reduced retarder force (affects both retarder and engine exhaust brake)
- Diesel fuel heater ON/OFF
- Interaxle differential lock
- Override button
- Heated seat ON/OFF (optional)
- Cab roof and mirror arm front lights ON/OFF
- Rotating beacon ON/OFF (optional)

Reliability to maximise uptime



Built in-house using highly reliable components Doosan ADTs are among the most reliable dump trucks in the industry thanks to the long history of using proven first-class components and manufacturing procedures.

With in-house control of all machining and robotic welding, Doosan is able to maximise the quality of all its assemblies.

Doosan ADTs use proven, specifically designed engine and transmission components tested not only by our suppliers, but also by rigorous "Doosan Reliability Growth" processes.

Turning ring

Axles





Maintenance and serviceability is a breeze



Excellent Service Accessibility

- The hood has a wide opening (up to 83°) to provide accessibility 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. This allows tilting of the cabin without disconnecting.

 The factory-fitted automatic central lubrication system is fully incorporated in the design of our ADTs.
 Thanks to the Vehicle Control Unit (VCU), the grease

is only pumped when necessary.

Easy maintenance



Automatic lubricatior system



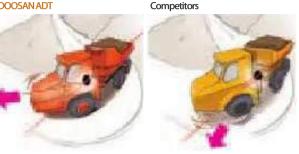
Zooming in on Doosan ADTs - Turning ring

Forward mounted turning ring

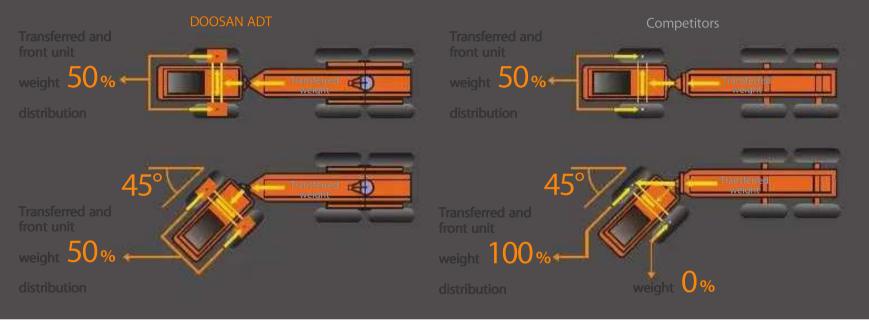
One of the main innovative features in the Doosan ADT design is the location of the turning ring in relation to the articulation point. The turning ring is located in front of the articulation point, ensuring equal weight distribution to the front wheels in all operating situations, including during maximum turning. Equal weight distribution to the front wheels makes it possible to use the differential with only 45 % locking value. This ensures drive to both front wheels in all situations without completely locking up the wheels. With many of our competitors, the turning ring is located behind the point of articulation, resulting in an unequal weight distribution to the front wheels. The combination of unequal weight distribution to the front wheels and the use of a 100 % differential lock can cause steering difficulties and also result in higher







stress on the driveline and increased, uneven tyre wear.



Unique sloping frame for improved weight distribution

The frame design of Doosan ADTs is similar to that used by manufacturers of rigid frame dump trucks. The frame is sloped downward from the hinge points to provide equal weight distribution on all axles when the truck is fully loaded. As a result, a lower centre of gravity is obtained, giving better stability.







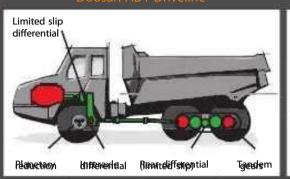


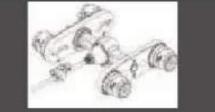
the latest Tier II engine technology from Scania features:

- Wastegate turbocharger
- · Networthimplified previous pleaternies cope with
- New engine block
- Simplified fuel management system

Zooming in on Doosan ADTs – Driveline

The single driveline requires the use of only one longitudinal differential lock to have an optimal rear drive train. Combined with the use of only 2 state-of-the-art limited slip differentials, Doosan ADTs will always deliver best-in-class traction. One easy-to-lock differential is used in the rear, ensuring the best drive comfort. By contrast, our competitors use 2 rear differentials connected by an interaxle drivethrough system which is subject to damage from the outside, loss of power and premature wear.







Rect: where black over the wind-up

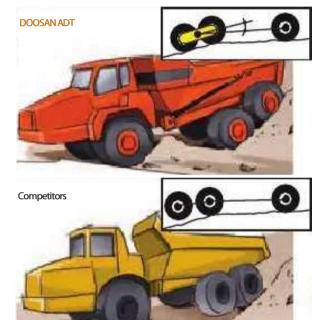


Free-swinging tandem bogie

The unique tandem drive ensures maximum productivity and allows easy loading of the truck in almost all positions and applications. Our competitors use rigid axles which cause movement on the centre or rear axle, resulting in loss of traction and driver discomfort.

Continuous contact with the ground

The tandem bogie enables the wheels to be in continuous contact with the ground for better tractive effort, stability and safety. As there is only one differential, the driveline is more efficient with less loss of power and reduced wear of parts.



Front wheel suspension The unique independent front suspension allows free movement of one side, ensuring maximum contact with the ground and excellent shock absorption.



The oil-cooled wet disc brakes on the DA40 provide high braking performance and excellent durability.

Dry disc brakes are open and exposed to dirt

and water. Wet brakes are not affected by these With less servicing intervals, wet disc brakes last longer and are especially advantageous in very adverse conditions such as in deep mud and



The air-cooled disc brakes on the DA30 do not require forced cooling like most competitors.



Transmission

Unique Doosan ADT design – Front-mounted differential

Since the differential is mounted directly on the transmission, the total length of the truck is reduced. This design results in better weight distribution and a smaller turning circle, an important advantage in confined areas.

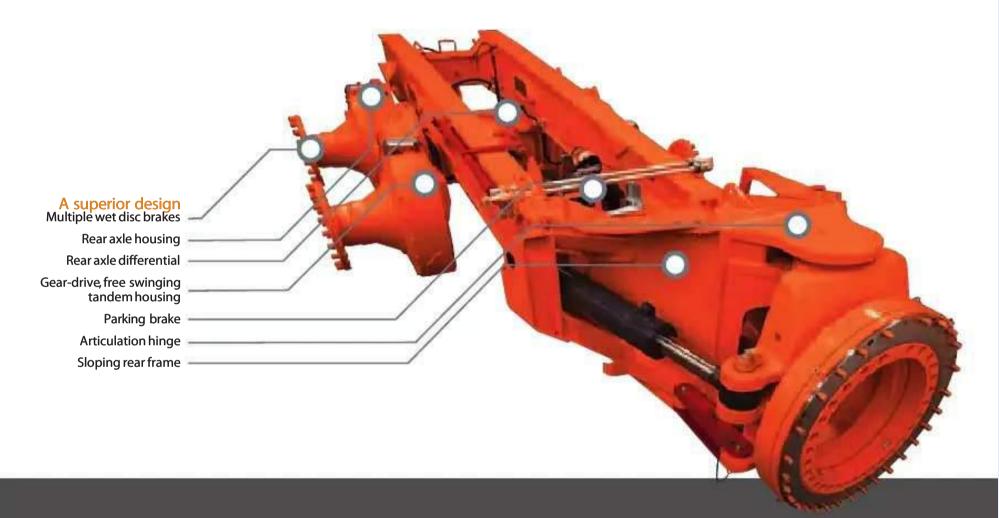
FR400 trazemissions to be designed specifically for Doosan ADTs.



Unique design of Doosan ADTs

DOOSAN Articulated Dump Trucks have permanent 6-wheel drive for equal power distribution while the free-swinging rear tandem bogie and the special articulation system offer excellent driving performance. The articulation hinge is positioned behind the turning ring to ensure equal weight distribution. The sloping rear frame provides a lower centre of gravity and improves the overall stability of the truck, ensuring fast and easy tipping of the body for increased productivity in even the most demanding conditions.

Many DOOSAN articulated dump trucks have worked more than 25000 hours without a major overhaul of the engine. A fully automatic transmission and smooth gear-shifting provide maximum convenience and comfort, allowing the operator to concentrate on the work at hand.



TOP 10 ADVANTAGES OF DOOSAN ARTICULATED DUMP TRUCKS

- Low operating cost
- Excellent performance in difficult terrain
- Independent front suspension ensures maximum ground contact and stability
- The sloping rear frame ensures a low centre of gravity, good stability and excellent weight distribution to the front axle
- Improved driver comfort and easy operation

- Easy and safe access to the cab
- Free-swinging rear tandem bogie ensures the best possible ground contact
- Front-mounted turning ring ensures equal weight distribution to the front axle in all situations
- Permanent 6-wheel drive, a significant advantage in rugged terrain
- Easy maintenance

* Standard equipment

	DA30	DA40
Armrest at operator seat	- I · I	•
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 side)	•	•
Windshield wiper and washer		•
Mirror	•	•
Protection for rear window		
Emergency steering, ground-driven	•	•
Towing hook, front and rear	•	•
Mud flaps		•
Automatic lubrication system	•	•
Engine exhaust brake	•	•
Transmission retarder brake	•	•
Rear view camera	•	•
Radio/CD/MP3		•
Work light front, at the top of the cab	· · ·	•
Cab tilting system	•	•
Emergency shutdown switch	•	•
Wet disc brake	•	•
Anti-slip steps & platform	•	•
Space for cooler box	•	•
Storage room		•
Electronic climate control		

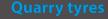
* Optional equipment

	DA30	DA40
BODY OPTIONS		· · · · ·
Top tailgate	Std	•
Spill guard on front of body	•	<u> </u>
Body heating system	- U.U	•
Body lining standard		•
Body lining full		•
Side extensions (upon request)	- (i •)	•
Payload meter	· · ·	•
CAB OPTIONS		
High comfort seat	•	•
Heated operator seat	•	•
Heated mirror	•	•
Sliding window (right side)	•	•
OTHER		
Webasto heating system (heat up the cooling system)	•	•
Electrical engine heater	•	•
Fire extinguisher	•	•
First aid kit	•	•
Beacon		•
Light bar	•	•
Speed limitation		•
Work light kit (rear and front)	•	•
Work light kit (rear and front) LED	•	•
Tool kit	•	•
Warning triangle	•	•
Fast fill	•	•
TYRE OPTIONS		
Quarry	•	•
Earthmoving	• .	•
Flotation tyres	•	•

Heated body

Fast fill

6

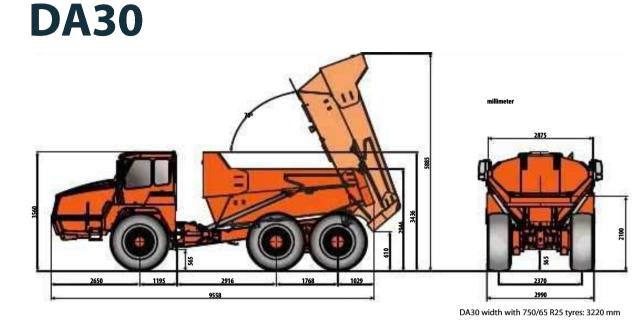


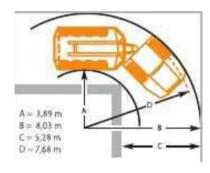


High flotation tyres

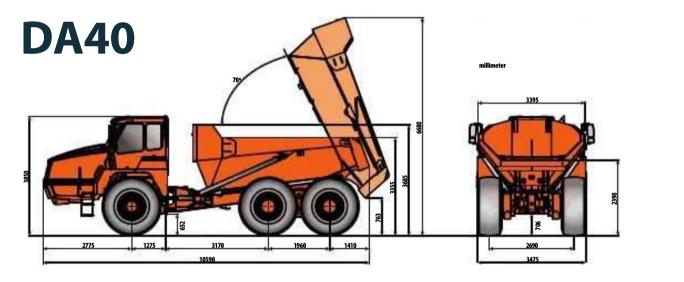


Technical specifications

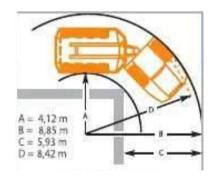




Turning radius according to ISO 7457: 7.68 m



DA40 width with 875/65 R29 tyres: 3630 mm



Turning radius according to ISO 7457: 8.42 m

DA30 - DA40

Suspension	 Front: DA30: Independent with long life rubber springs and hydraulic shock absorbers Front: DA40: Independent with two hydro-pneumatic cylinders 	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 x 6 drive with two transverse differentials and one longitudinal Front axle transverse differential: Limited-slip diff lock with 45 % locking ratio DA40: Rear axle transverse differential: Limited-slip diff lock with 45% locking ratio DA30: Rear axle transverse differential: clutch-engaged diff lock with torque dependent locking ratio 	 Inter-axle longitudinal differential: Torque-proportioning differential, integrated into the 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 all round 	 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 DA30: 72 dB(A) - DA40: 71 dB(A) (ISO 6394) The cab is centrally located on rubber mountings Hand and arm vibrations are less than 2.5 ms² according to 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

	DA30	DA40
Body Body volume Material Tilt cylinders Tipping time Body Sloping frame Level capacity (with / without tailgate) Heaped capacity (with / without tailgate) Density index	17.8 m ³ – 23.3 yd ³ Hardened abrasion-resistant steel plates (HB40 Single stage, double-acting Up: 10 sec. / Down: 9 sec. Designed for exhaust heating Down from the hinge point 14.2 m ³ / 13.6 m ³ – 18.6 yd ³ / 17.8 yd ³ 17.8 m ³ / 16.8 m ³ – 23.3 yd ³ / 22 yd ³ 1.64 t/m ³	24.4 m ³ – 31.9 yd ³ D0) Hardened abrasion-resistant steel plates (HB400) Single stage, double-acting Up: 10 sec. / Down: 9 sec. Designed for exhaust heating Down from the hinge point 20.4 m ³ / 19.6 m ³ – 26.7 yd ³ / 25.6 yd ³ 26 m ³ / 24.4 m ³ – 47.1 yd ³ / 31.9 yd ³ 1.64 t/m ³
Weights Empty: Front axle Rear axle Loaded: Front axle Rear axle Pay load Total weight (loaded)	11900 kg – 26235 lb 11500 kg – 25353 lb 16600 kg – 36597 lb 34800 kg – 76721 lb 28000 kg – 31 sh tn 51400 kg – 113317 lb	14500 kg – 31967 lb 15800 kg – 34833 lb 21200 kg – 46738 lb 49100 kg – 108247 lb 40000 kg – 44 sh tn 70300 kg – 154985 lb
Net weight	23400 kg – 51588 lb NOTE: All weights include a full fuel tank and oper	30300 kg – 66800 lb
Power to weight ratio Empty Loaded	Net Power vs Ton 12.1 kW/t 5.47 kW/t	Net Power vs Ton 12 kW/t 5.20 kW/t
Ground pressures Empty: Front axle Rear axle Loaded: Front axle	Standard 23.5 x 25 tyres with 15% sinkage 104 kPa 53 kPa 141 kPa	Standard 29.5 x 25 tyres with 15% sinkage 88 kPa 48 kPa 130 kPa
Loaded: Front axie Rear axle Capacities Fuel Tank	141 kPa 162 kPa 335 l	130 kPa 152 kPa 530 l
Hydraulic System Engine Cooling System Transmission Engine Crankcase Front Reduction Gear Rear Differential Tandem Housing Rear Reduction Gear	123 45 75 33 2 x 11 16 2 x 48 4 x 7	209 50 75 44 2 x 7.5 46 2 x 140
Speeds 1st 2nd 3rd 4th 5th 6th 7th 8th	Forward Reverse 5 km/h 5 km/h 8 km/h 8 km/h 11 km/h 11 km/h 15 km/h 16 km/h 22 km/h 30 km/h 42 km/h 55 km/h	Forward Reverse 5 km/h 5 km/h 8 km/h 8 km/h 11 km/h 11 km/h 16 km/h 16 km/h 23 km/h 32 km/h 45 km/h 55 km/h
Engine Complies with Tier II for emissions Power rating (ISO 3046) (ISO 9249) No. of cylinders Gross Torque Engine exhaust brake Cylinder volume Bore diameter x stroke	Scania DC 9, water-cooled,diesel engine with turbo charger and air to air intercooler 375 HP (276 kW) 365 HP (268 kW) 5 (in line) 1873 Nm @ 1300 rpm Yes 9.3 litres 127 x 140 mm	Scania DC 13, water-cooled,diesel engine with turbo charger and air to air intercooler 500 HP (368 kW) 490 HP (360 kW) 6 (in line) 2373 Nm @ 1300 rpm Yes 12.7 litres 130 x 160 mm
Air filter Transmission	Dry type ZF 8 EP320 electronically-controlled automatic trans with retarder	Dry type smission ZF 8 EP420 electronically-controlled automatic transmission with retarder
Hydraulic system Pumps	The torque converter has automatic lock-up in all 1 variable displacement piston pump for steering & for cooling fan, brakes & auxiliaries	
Delivery	320 l/min @ 2200 rpm	320 l/min @ 2200 rpm
Filtration	One return flow filter 280 bar	One return flow filter 280 bar
Steering Circuit Electrical system Alternator Batteries	210 bar 24V 100A 2 x 12V 140Ah (series connected to give 24V)	210 bar 24V 100A
Starter Tyres	7.5 HP (5.5 kW)	7.5 HP (5.5 kW)

Tyres

Standard

23.5 R25 two star radial

29.5 R25 two star radial



Construction Equipment

Machine Tools

Engines

The spirit of challenge and innovation has led Doosan. We started out as a small store in Seoul in 1896 and have expanded into a global company. Today we are engaged in the infrastructure support business (ISB), which encompasses industrial facilities, machinery, heavy equipment and construction. You can also see the Doosan brand in various other industries.

You are invited to take a closer look at the new world that is being built by Doosan, visit us at: www.doosaninfracore.com and www.doosanequipment.eu

Doosan Infracore Construction Equipment

A partner you can trust



Finance your ambitions

Financial Solutions

Doosan Infracore Financial Services (DI FS) is specialised in creating financing solutions to meet a wide variety of needs.

Contact your local dealer for more information. where you are, you'll get the service you



www.doosanequipment.eu

Always a dealer near you

Our well-developed dealer network has the knowledge and experience to take the best care of our Doosan customers. No matter where you are, you'll get the service you

expect - and can rely on!

Parts & Service

- Complete parts & service support for all Doosan products
- Highest quality genuine parts
- Large, dedicated staff of factory-trained

aftermarket professionals in the field

