

D20/25/30/33S-9 D35C-9

NEW 9 SERIES FORKLIFTS

Pneumatic Diesel 2.0to 3.5 ton Complied with Euro Stage V



Excellent Operator Comfort

Operator comfort

Compact steering wheel makes it comfortable because you don't move your arms big when driving. Slim steering column take up less space and it makes easier for operator to get out of the truck. And also, 9 series using the Telescopic steering column NEW You can adjust column to the operator's posture.

- Compact Steering Wheel: diameter -70mm
- Slim & Telescopic steering column -75mm



Convenience specifications

Document clip and USB port are located within the reach of the operator, it is easy to manage work papers and convenient to charge mobile phones.

In addition, convenience options such as cup holder and room light are available.

Improved visibility

- IC type mast is applied from 2t~3.3t model. Mast width for 2 to 2.5t is similar to the 7 series. However, for the 3 ton to 3.3 ton class, the mast width is significantly reduced compared to that of the 7 series, ensuring the operator's view.
- Enlarged rounded glass and cowl design provide better front/upper visibility.
- FCU cowl height: -40mm lowered
- Cabin glass area: Enlarged by 8%
- Rounded glass (Top / Front / Rear)

Full color LCD display NEW

5-inch LCD monitor is standard, 7-inch LCD monitor is an option. It is bright and clear, so it has good visibility outdoors. So you can check easily various information and data on the monitor.

Air conditioner and heater (Option)

You can work comfortably without being affected by the external environment.

- Ergonomically designed air vent layout
- Air volume control
- Compressor on/off control (Air conditioner)
- Inner / External air circulation control
- Air filter to prevent dust inflow

Spacious leg room

The knee clearance is widened and tilt cylinder is removed from the floor plate, it allows more spacious leg room.

- Knee clearance : Enlarged by 15%
- Leg room area: Enlarged by 72%Entrance width: Enlarged by 72%

Lower step plate

The step plate of the truck is lowered, so it takes less power and get into the truck comfortably.

- Step plate height: -20mm

By applying this function, it is possible to work even if the operator does not step on Accel when the truck is stopped.

- Idle RPM increased from 800 to 950

Auto throttle up NEW





Reliable durability and safety

Upgraded cooling performance

With the option to be used during heavy duty, you can operator the 9 Series without worry, even in hard application.

	[unit: °C]	Standard cooling system	Cooling system for heavy duty (Option)			
	Coolant	102.7	99			
	Transmission oil	101.3	92.5			
	Remark	Proper for normal operation and conditions	Proper for heavy and hard application NEW			

Durability and high residual capacity NEW

By applying Aux weight, the noise and vibration of 2 ton 9 series is reduced. The life of the parts will be extended. And 9 series can lift more weight at the same height with the aux weight structure.



VCU (Vehicle Control Unit)

Various safety functions are applied to the VCU, so It ensures operator's safety.

• Seat belt switch on/off NEW

When activating this function, You need to fasten the seat belt after seating in order to operate the truck.

Reverse lock

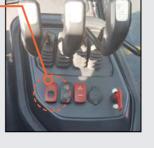
When moving forward and changing to reverse, it is possible only when the truck speed is 3 km or less.

Speed limit

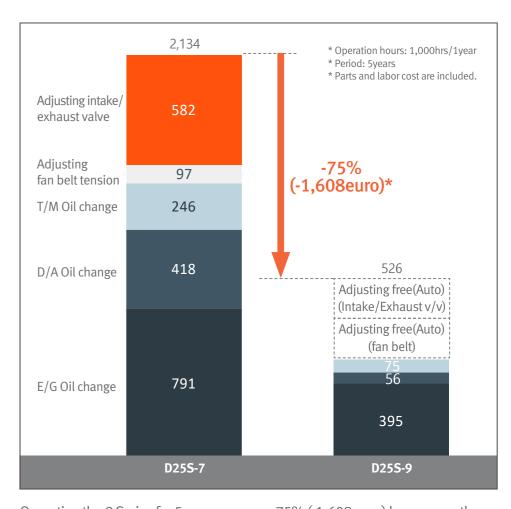
You can adjust the forward / reverse Truck speed differently.

• EPB (Electronic Parking Brake) NEW

Electric parking brake is applied as standard. It prevents unexpected safety accident. When you repeat working for a short time after stopping and getting off the truck, the parking brake is automatically activated for safety. It also has a single button, which is great for taking advantage of the interior space.



TCO is down by 75% compared to the 7 series



Operating the 9 Series for 5 years can save 75% (-1,608 euro) less money than the 7 Series. Also, by reducing downtime, it is possible to increase operating time.

Longer service interval

- Engine oil: 500hr \rightarrow 1,000hr
- Transmission oil: 1,000hr \rightarrow 2,000hr
- Drive axle oil: $500hr \rightarrow 2,000hr$

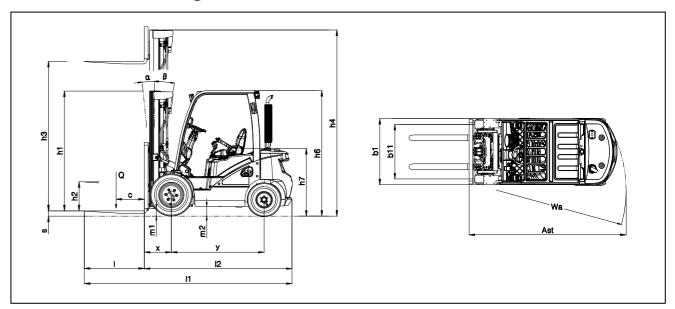
Maintenance free engine

- Adjusting clearance for intake & exhaust valve : 1,000hr → No adjusting (Auto)
- Tension adjusting of fan belt: 1,000hr → No adjusting (Auto)
- Bosch fuel injector applied

Technical Data according to VDI 2198

	1.2	Model designation	_		Danc o	Darc o	D20C 0	D22C 0	Darc o
	1.2	Model designation			D20S-9	D25S-9	D30S-9	D33S-9	D35C-9
<u>C</u>	1.3	Drive: Diesel, Gasoline, LP			diesel	diesel	diesel	diesel	diesel
arac	1.4	Operator type	0	l	rider-seated	rider-seated	rider-seated	rider-seated	rider-seated
Characteristics	1.5	Load Capacity	Q	kg	2000	2500	3000	3250	3500
tics	1.6	Load Center	С	mm	500	500	500	500	500
	1.8	Load Distance: Center of Driveaxle to fork	Х	mm	TBD	TBD	TBD	TBD	TBD
	1.9	Wheelbase	У	mm	1700	1700	1700	1700	1700
₩e	2.1	Service weight		kg	3830	4030	4530	4615	4720
Weight	2.2	Axle Loading, Laden Front/Rear		kg	4977/853	5724/806	6518/1012	6892/973	7302/918
	2.3	Axle Loading, Unladen Front/Rear		kg	1825/2005	1780/2250	1780/2750	1760/2855	1755/2965
	3.1	Tyres: pneumatic (P), superelastic (SE), cushion (C)			P 7.00.45.42	P	P	P	P
	3.2	Tyre size, Front (Single/Dual)			7.00x15-12	7.00x15-12	7.00x15-12	7.00x15-12	7.00x15-12
Tyres	3.3	Tyre size, Rear			6.50x10-10	6.50x10-10	6.50x10-10	6.50x10-10	6.50x10-10
Ň	3.5	Wheels, number Front/Rear (x = driven wheels)			2/2	2/2	2/2	2/2	2/2
	3.6	Tread, Front	b11	mm	975	975	982	982	1026
	3.7	Tread, Rear	b12	mm	1000	1000	1000	1000	1000
	4.1	Tilt of Mast/Fork carriage Forward/Backward	α/β	0	6/10	6/10	6/10	6/10	6/10
	4.2	Height, Mast lowered	h1	mm	2175	2175	2165	2165	2165
	4.3	Free Lift	h2	mm	152	152	152	152	152
	4.4	Lift	h3	mm	3230	3230	3230	3230	3000
	4.5	Height, Mast Extended	h4	mm	4490	4490	4490	4490	4260
	4.7	Height of Overhead Guard(Cabin)	h6	mm	2183	2183	2183	2183	2183
	4.8	Height of Seat	h7	mm	1026	1026	1026	1026	1026
	4.19	Overall Length	l1	mm	TBD	TBD	TBD	TBD	3809
Dimensions	4.20	Length to Forkface	l2	mm	2530	2595	2700	2730	2765
ensio	4.21	Overall Width	b1/b2	mm	1170	1170	1197	1197	1255
ons	4.22	Fork Dimensions	s/e/l	mm	40x100x1050	40x100x1050	45x125x1050	45x125x1050	45x125x1050
	4.23	Fork carriage ISO 2328, class/type A,B			II	II	III	III	III
	4.24	Fork carriage width	b3	mm	TBD	TBD	TBD	TBD	TBD
	4.31	Ground Clearance, laden, below mast	m1	mm	115	115	105	105	105
	4.32	Ground Clearance, center of wheelbase	m2	mm	143	143	143	143	143
	4.34.1	Aisle withd for pallets 1,000 x 1,200 crossways	Ast	mm	TBD	TBD	TBD	TBD	TBD
	4.34.2	Aisle withd for pallets 800 x 1,200 crossways	Ast	mm	TBD	TBD	TBD	TBD	TBD
	4.35	Turning Radius	Wa	mm	2220	2265	2365	2395	2420
	4.36	Internal Turning Radius	b13	mm	TBD	TBD	TBD	TBD	TBD
	5.1	Travel Speed, Laden/Unladen		km/h	20/21	20/21	19/20	19/20	20/21
70	5.2	Lift Speed, Laden/Unladen		m/s	0.61/0.65	0.60/0.65	0.59/0.65	0.51/0.56	0.50/0.56
erfoi	5.3	Lowering Speed, Laden/Unladen		m/s	0.51/0.45	0.51/0.45	0.51/0.45	0.51/0.45	0.51/0.45
Performance data	5.5	Drawbar pull, Laden/Unladen(@ 1.6km/h)		N	17780	17770	18470	18360	17700
nce (5.6	Max. Drawbar pull, Laden/Unladen		N	19860	19900	20830	20720	19920
data	5.7	Gradeability, Laden/Unladen(@ 1.6km/h)		%	33.6	28.7	25.7	24.1	22.2
	5.8	Max. Gradeability, Laden/Unladen		%	38.1	32.5	29.3	27.4	25.1
	5.10	Service Brake			foot/hyd	foot/hyd	foot/hyd	foot/hyd	foot/hyd
	7.1	Engine Manufacturer/type			•	DI/D24NAP TIER-4	DI/D24NAP TIER-4	DI/D24NAP TIER-4	DI/D24NAP TIER-4
Com	7.2	Engine power according to DIN ISO1585		kW	45.6	45.6	45.6	45.6	45.6
bust	7.3	Rated Speed		min-1	2200	2200	2200	2200	2200
Combustion Engine	7.3.1	Torque at 1/min		N∙m	262/1600	262/1600	262/1600	262/1600	262/1600
Eng	7.4	Number of Cylinders/Displacement		-/cm3	4/2392	4/2392	4/2392	4/2392	4/2392
ine	7.5	Fuel Consumption according to VDI Cycle		l/h or kg/h	4	4	4	4	4
	7.10	Battery Voltage/normal capacity		V/Ah	12/85	12/85	12/85	12/85	12/85
Adc	10.1	Operating pressure for attachments		bar	156	156	156	156	156
litio	10.2	Oil volume for attachments		l/min	76.5	76.5	76.5	76.5	76.5
Addition Data	10.4	Fuel Tank Capacity		l	58	58	58	58	58
ita	10.7	Sound level at th driver's ear according to EN 12 053	_	dB(A)	TBD	TBD	TBD	TBD	TBD

Dimensional Drawing



Optional Extras	●:Sī
CHASSIS	
CAN-BUS COMMUNICATIONS	
ANTI MOISTURE ELECTRIC CONNECTORS	
OIL COOLED DISC BRAKES	
ELECTRONIC PARKING BRAKE	
LIFT EYE - 4 HOIST ON FRAME	(
CAMERA - REAR VIEW	(
STD/ECO/HIGH MODE	
CABIN	
MODULAR CABIN A/B/C, FULL CABIN	(
SUN VISOR	(
ROOF TILT	(
SUNGLASS CASE	
REAR WIPER	(
HEATER	(
AIR CONDITIONER	(
SEAT	
STATIC(SEARS) / SUSPENSION (SEARS)	(
SUSPENSIN (GRAMMER)	(
LIGHT	
WORKING LIGHT - FRONT, LED	
WORKING LIGHT - REAR, LED	(
WORKING LIGHT - 2 REAR LIGHT, LED	(
COMBINATION LIGHT	(
STROBE LIGHT - RED/AMBER, ABOVE/BELOW	(
SAFETY LIGHT - FRONT, ALWAYS ON/ ACVIVATED BY GEAR	(
SAFETY LIGHT - REAR, ALWAYS ON/ ACVIVATED BY GEAR	(
SAFETY LIGHT - FRONT& REAR, ALWAYS ON/ ACVIVATED BY GEA	R (
SAFETY FENCE LIGHT - BLUE/RED	(
SAFETY	
OPERATOR SENSING SYSTEM(OSS)	
STRAP,STATIC GROUND	(
SEAT BELT INTERLOCK	(
BACK UP ALARM - INSIDE	
BACK UP ALARM - OUTSIDE / AUDIBLE(SMART)	(
REAR GRAB BAR & HORN W/ HORN SWITCH	(
HOMOLOGATION - CE	
SPEED LIMIT	
EXHAUST MUFFLER - VERTICAL / SPARK ARRESTOR	
REFLECT DECAL On CTWT	(

DODUCTIVITY	
PRODUCTIVITY	
AUTO TILT LEVELING	0
HYDRAULIC ACCUMULATOR	0
NEIGHT SCALE - PRESSURE SENSING / LOADCELL	0
CONVENIENCE	
ARGE ENTRY GRAB BAR - LH/RH	•
THICK FLOORMAT	
5" DISPLAY - MONO COLOR	•
7" MULTI FUNCTIONAL DISPLAY - FULL COLOR	0
TELESCOPIC STEERING COLUMN	•
POWER JACK	
JSB PORT	•
OVERHEAD TOP COVER - POLY	0
SOUND SUPPRESSION	0
OPERATOR FAN	0
AUDIO	0
ROOM LIGHT(Reading Light)	0
(NOB,STEERING	•
REAR VIEW MIRRORS	
PANORAMIC MIRROR	0
MONO-PEDAL	0
KEYLESS IGNITION	0
CUP HOLDER	0
CLIP BOARD	•
FUEL CAP	0
HAEVY DUTY	
FAN SPEED INCREASE	0
RADIATOR SCREEN	0
JNDER PROTECTION - BELLY PLATE / ENGINE GUARD	0
PRE CLEANER	0
/ENTED SIDE PANEL	0
MUD GUARD - SINGLE / FRONT / REAR	0
SEMI FISHERY (ANTI-CORROSION)	0
FOUNDRY PACKAGE	0
ANTI DUST PACKAGE	0
OPEN CORE RADIATOR	0
TILT CYLINDER BOOTS	0
ENGINE BLOCK HEATER	0
SERVICEABILITY	
TOOLLESS FLOOR SIDE PANEL	•
TOOLLESS FLOOR PLATE	
TMS BASIC	0
TMS PREMIUM	0

Note: Specification values quoted in this spec sheet have been rounded, exclude Load Backrest and other attachments. Performance may vary due to operating conditions. Products and specifications are subject to change without prior notice.

Note: Option features are will be categorized in final sales material version.
- New options / Improved options / Packages for applications