

Pro-7 Series Forklifts

Pneumatic Diesel 4,000 to 7,000 lb Series

Tier-4



Lifting Your Dreams

About Doosan

Values that drive future growth

Trust in people is the foundation on which Doosan has built its success.

Since our inception 100 years ago, Doosan has maintained a 'people first' management philosophy which encourages the growth and development of the individuals that it employs. This philosophy was best communicated by Doosan's First Chairman, the late Too Pyung Park in which he stated that, "Business is not meant to make profits, but to help people grow". This sentiment continues to define our way of conducting business and lends credence to the methods we utilize to develop and motivate our staff.

Doosan - the oldest and fastest growing company in Korea

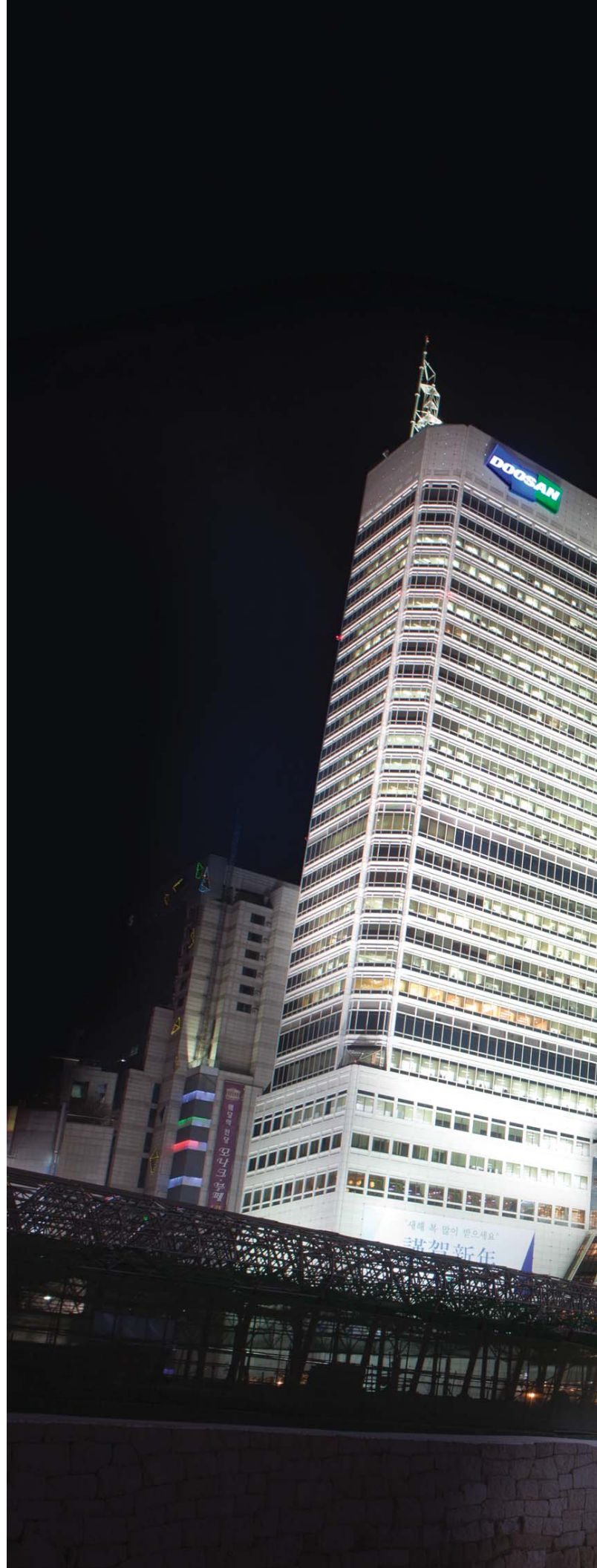
Doosan has a long recorded history, beginning operations in 1896. We have greatly expanded our operations and business interests, seeing the most growth within the past decade.

We are a global Infrastructure Support Business (ISB)

Through a focused effort and reorganization of our business portfolio, Doosan has moved from a mainly consumer goods emphasis to an ISB concentration.

A Global Company

Doosan has expanded its reach to include Sales, Service, and manufacturing centers throughout the world. Doosan's international employees make up 50 percent of all of its worldwide staff and its international offices generate more than 60 percent of the company's annual total sales.





In a nutshell...

- The Pro-7 Series meets strict Tier IV emission standards
- Advanced piston design, injector and cylinder head swirl for the reduction of particulate matter
- Improvements to oil-cooled disc brakes friction material extends disc life up to 100%
- Increased cooling capacity for improved reliability and performance
- New Doosan G2 engines include an electronically controlled common rail high pressure fuel system for improved performance, low exhaust gas emissions, low noise and vibration, and better fuel efficiency over previous Yanmar engine offerings



Diesel Oxidation Catalyst (DOC) and Selective Catalyst Reduction (SCR) to meet EPA Tier IV standards

Engine exhaust is transformed by SCR to reduce nitrogen oxides (NOx). The combination of SCR with Diesel Exhaust Fluid creates a DOC that turns harmful NOx into innocuous nitrogen and water vapor.

Optional Electronic Transmission Control Module for increased operator ease and functionality

This optional module replaces the inching cable with a proportional valve and angle sensor and serves to reduce operator pedal effort by 19% while also minimizing shock transferred during shifts.

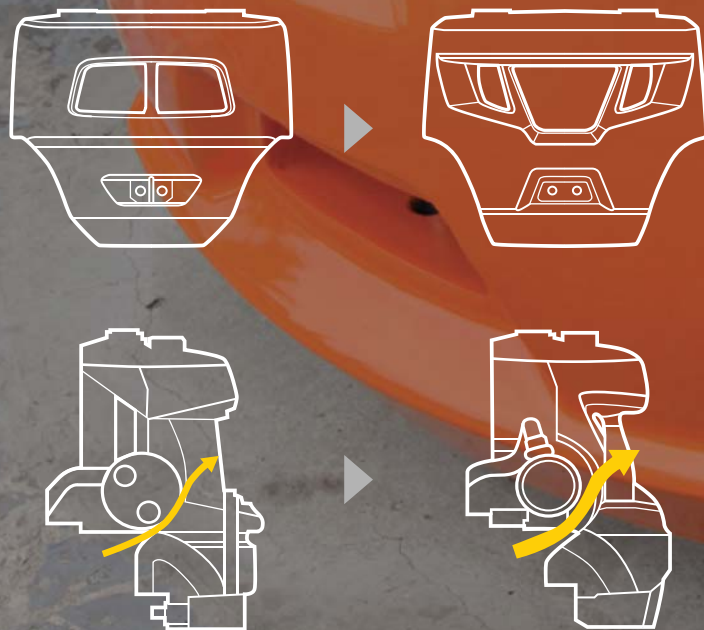
Improved performance, fuel efficient, & low emissions - all essential for tackling your tough jobs the right way.

Doosan's D24A electronic controlled engine with common rail high pressure fuel injection system operates at 26,000 psi and offers improved forklift performance, low exhaust emissions, low noise and vibration, and better fuel efficiency.

This advanced engine improves overall torque by 45% (ft-lbs) over previously used models and makes use of a waste gate turbocharger intercooler for favorably increasing forklift performance and fuel efficiency.

Counterweight

The newly redesigned counterweight area not only conveys a sleek, modern appearance, but it also helps to facilitate an improvement in the flow of air through the unit's cooling module.



THE PRO-7 SERIES FORKLIFTS

4,000 to 7,000 lb Series

Dual Engine Modes

When operating in heavy-duty applications, with the press of a switch, operators can easily switch from STD operating mode to ECO operating mode. This action helps to reduce the maximum engine range & reduce the torque curve for greater fuel savings.



Easy Serviceability

Performing general maintenance is easy work with a hood that opens wide up to 70 degrees. Additionally, a tool-less side cover and removable floor plate makes accessing internal parts quick and painless.



Powerful Air Cleaner

Pro-7 Series units come equipped with a dual element air cleaner that provides 10% more capacity over previously designed units. In addition, air flow is precisely monitored by a Mass Air Flow (MAF) sensor controlled by an electronically controlled module.



Oil- Cooled Disc Brakes (OCDB)

All Doosan 4,000 lb to 7,000 lb series forklifts come equipped with Oil Cooled Disc Brakes (OCDBs). The improved friction material used in the construction of our OCDBs extends disc life up to 100% as compared to previous models.



High Capacity Heater (Optional)

In addition to offering increased heating capacity over its predecessor, two directional louvers allow for better control of heat adding to the comfort levels of the operator and provides the added benefit as a windshield defroster in cold environments.



Electronically Controlled Transmission (Optional)

The Electronically Controlled Transmission Control Module successfully replaces the inching cable with a proportional valve and angle sensor. This upgrade reduces pedal effort by 19% and minimizes the shock transferred during shifts creating better functionality for the operator and guaranteeing that your load is safely transported to its desired location.

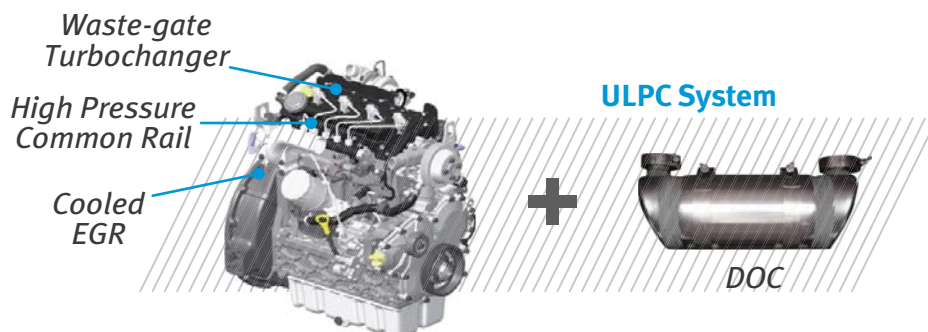


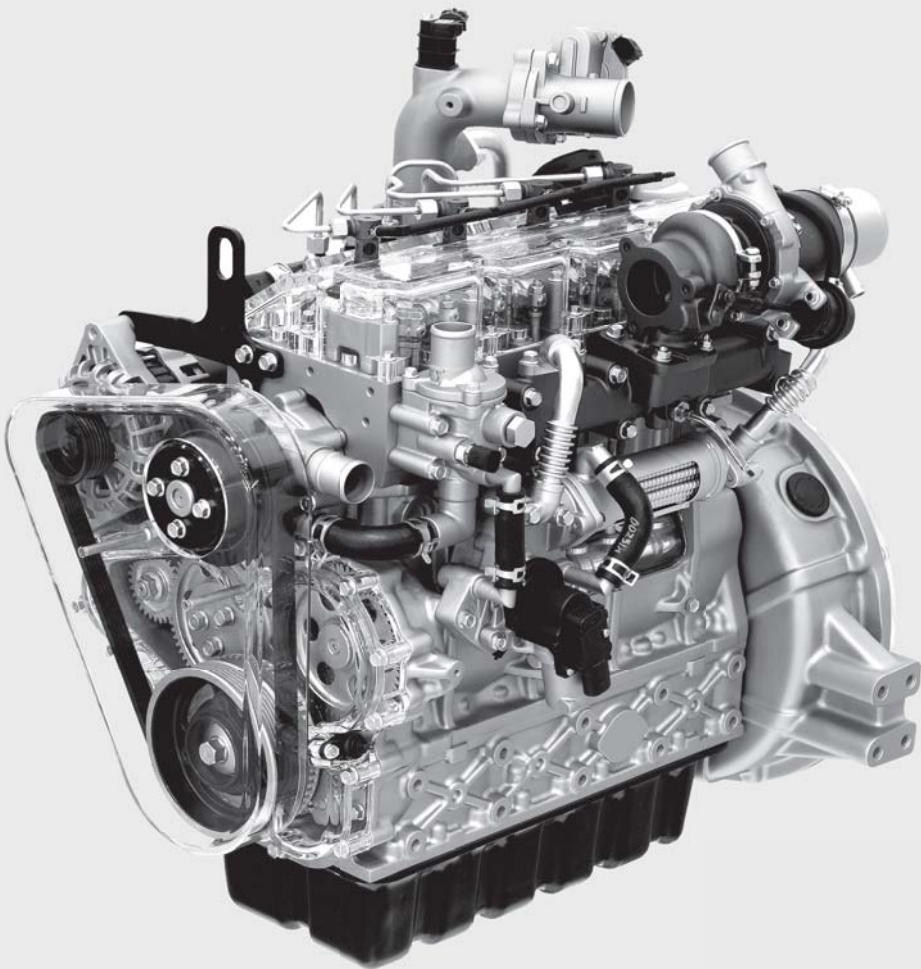
Powerful & Fuel Efficient for extreme performance

Doosan's D24A engine has been developed with two goals in mind: to provide customers with a powerful and robust engine that is both fuel efficient and is beneficial in helping to improve overall productivity. And we've designed just that; an engine that is capable of noteworthy performance in the most extreme applications.

After Treatment System

-Ultra Low PM Combustion (ULPC) system : The Pro-7 Series utilizes a ULPC system to help minimize the pollutants expelled into the air when the forklift is in operation.





ENGINE PERFORMANCE

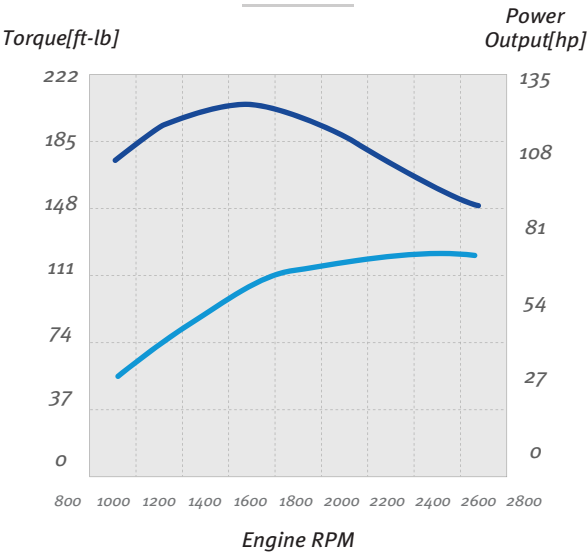
Doosan’s D24A, 2.4 liter diesel engine provides high torque at low rpm or engine speeds all while reducing fuel consumption and meeting EPA Tier IV regulations.

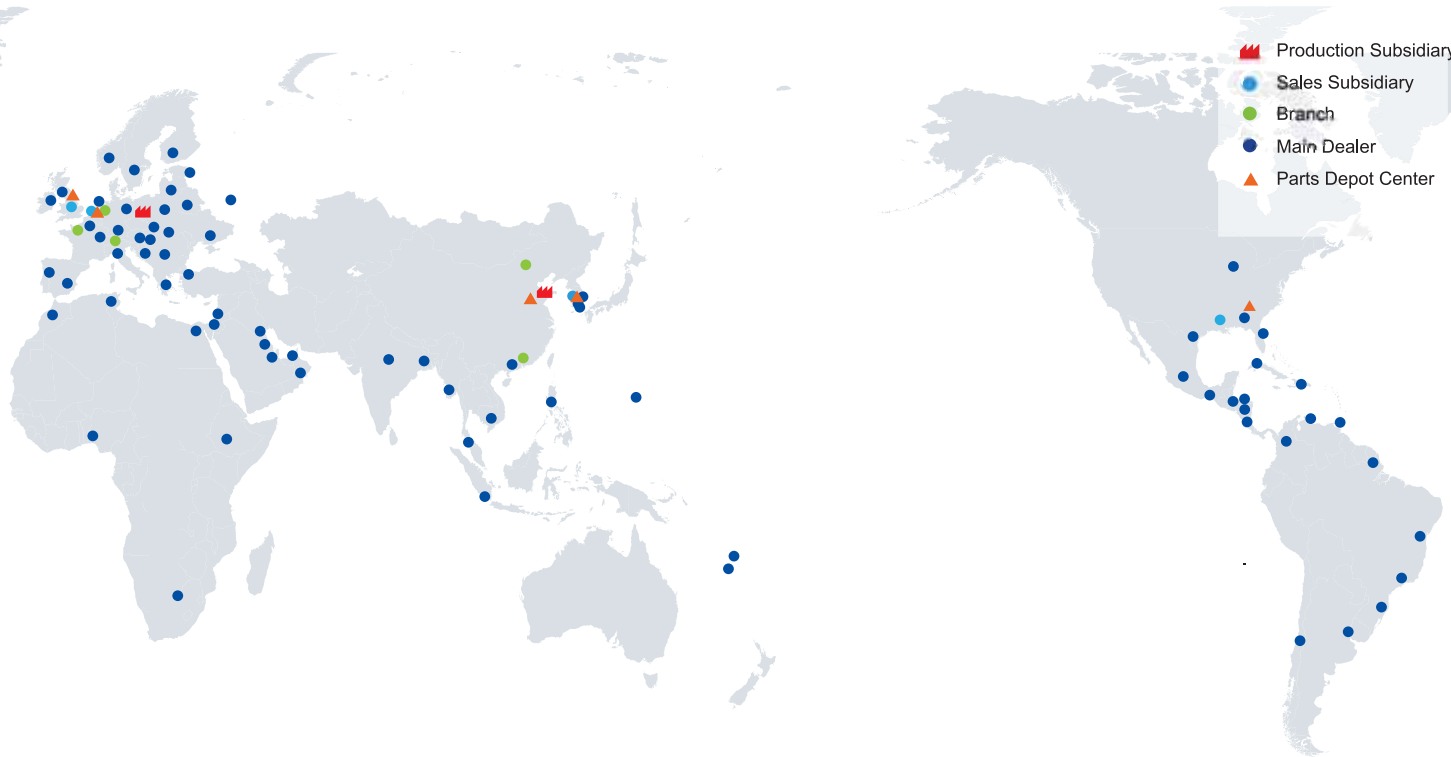
Specifications:

- D24A, Tier IV Electronically controlled engine
- 4 cylinder/4 cycle/2,392cc
- High torque at low rpm: 193 ft-lb/rpm

Category	Unit	Doosan
Model	-	D25S-7
Engine	-	Doosan D24A
Rated output	Hp / rpm	62 / 2,200
Max. torque	ft-lb/ rpm	193 / 1,600
Displacement	cc	2,392

PERFORMANCE

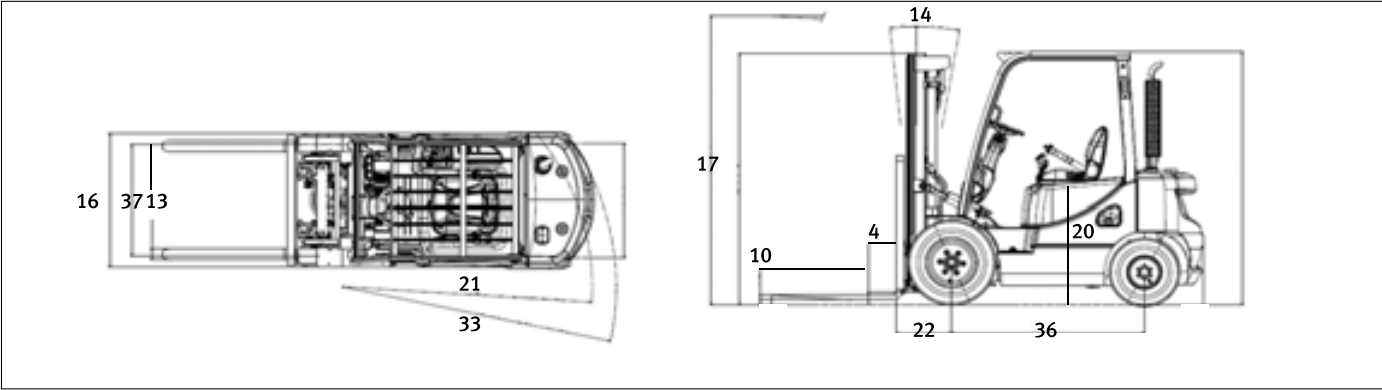




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Pro-7 Series Forklifts
Pneumatic Diesel 4,000 to 7,000 lb Series
Tier-4

D33S-7

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities											
					D33S-7											
					Tilt Angle						Load Capacities					
					Single Pneu.		Double Pneu		Single Solid		Single Pneu.		Double Pneu		Single Solid	
					FWD	BWD	FWD	BWD	FWD	BWD	LC 500mm	LC 24in	LC 500mm	LC 24in	LC 500mm	LC24in
	in/mm	in/mm	in/mm	in/mm	deg	deg	deg	deg	deg	deg	kg	lb	kg	lb	kg	lb
STD	80/2030	62/1565	130/3290	6/152	6	10	6	10	6	10	3250	6500	3250	6500	3250	6500
	102/2580	72/1840	151/3840	6/152	6	10	6	10	6	10	3250	6500	3250	6500	3250	6500
	116/2950	80/2025	166/4210	6/152	6	10	6	10	6	10	3250	6500	3250	6500	3250	6500
	127/3230	85/2165	177/4490	6/152	6	10	6	10	6	10	3250	6500	3250	6500	3250	6500
	138/3500	95/2415	188/4765	6/152	6	10	6	10	6	10	3250	6500	3250	6500	3250	6500
	150/3800	1012565	199/5065	6/152	6	10	6	10	6	10	3250	6500	3250	6500	3250	6500
	156/3950	104/2640	205/5215	6/152	6	10	6	10	6	10	3175	6500	3250	6500	3250	6500
	171/4350	112/2840	221/5615	6/152	6	10	6	10	6	10	3175	6500	3250	6500	3250	6500
	195/4960	124/3140	245/6215	6/152	6	5	6	10	6	10	2450	5400	3125	6350	3200	6500
FF	102/2580	72/1840	151/3840	25/640	6	10	6	10	6	10	3250	6500	3250	6500	3250	6500
	116/2950	80/2025	166/4210	32/825	6	10	6	10	6	10	3250	6500	3250	6500	3250	6500
	127/3230	85/2165	177/4490	38/965	6	10	6	10	6	10	3250	6500	3250	6500	3250	6500
	142/3600		192/4865	48/1215	6	10	6	10	6	10	3250	6500	3250	6500	3250	6500
FFT	154/3900	74/1890	203/5165	27/690	6	8	6	8	6	8	3250	6500	3250	6500	3250	6500
	169/4290	80/2025	219/5570	32/825	6	8	6	8	6	8	3250	6500	3250	6500	3250	6500
	186/4730	85/2165	236/5990	38/965	6	3	6	8	6	8	2900	6300	3175	6450	3250	6500
	219/5560	99/2515	268/6815	268/1315	6	3	6	8	6	5	1750	3950	2975	6050	3050	6200
	237/6010	105/2665	286/7265	286/1465	6	3	6	5	6	3	1350	3050	2875	5850	2950	6050

D35C-7

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities											
					D35C-7											
					Tilt Angle						Load Capacities					
					Single Pneu.		Double Pneu		Single Solid		Single Pneu.		Double Pneu		Single Solid	
					FWD	BWD	FWD	BWD	FWD	BWD	LC 500mm	LC 24in	LC 500mm	LC 24in	LC 500mm	LC 24in
	in/mm	in/mm	in/mm	in/mm	deg	deg	deg	deg	deg	deg	kg	lb	kg	lb	kg	lb
STD	71/1800	62/1565	120/3060	6/152	6	10	6	10	6	10	3500	7000	3500	7000	3500	7000
	93/2350	72/1840	142/3610	6/152	6	10	6	10	6	10	3500	7000	3500	7000	3500	7000
	107/2720	80/2025	157/3980	6/152	6	10	6	10	6	10	3500	7000	3500	7000	3500	7000
	118/3000	85/2165	168/4260	6/152	6	10	6	10	6	10	3500	7000	3500	7000	3500	7000
	138/3495	95/2415	187/4760	6/152	6	10	6	10	6	10	3500	7000	3500	7000	3500	7000
	144/3655	101/2565	194/4915	6/152	6	10	6	10	6	10	3500	7000	3500	7000	3500	7000
	150/3805	104/2640	199/5065	6/152	6	10	6	10	6	10	3500	7000	3500	7000	3500	7000
	166/4205	112/2840	215/5465	6/152	6	10	6	10	6	10	3425	6950	3425	6950	3500	7000
	189/4805	124/3140	239/6065	6/152	6	5	6	10	6	10	3250	6650	3275	6650	3375	6850
FF	93/2350	72/1840	142/3610	25/640	6	10	6	10	6	10	3500	7000	3500	7000	3500	7000
	107/2720	80/2025	157/3980	32/825	6	10	6	10	6	10	3500	7000	3500	7000	3500	7000
	118/3000	85/2165	168/4260	38/965	6	10	6	10	6	10	3500	7000	3500	7000	3500	7000
	138/3495	95/2415	187/4755	48/1215	6	10	6	10	6	10	3500	7000	3500	7000	3500	7000
FFT	140/3555	74/1890	190/4815	27/690	6	8	6	8	6	8	3400	7000	3400	7000	3400	7000
	156/3960	80/2025	206/5220	32/825	6	8	6	8	6	8	3400	7000	3400	7000	3400	7000
	172/4380	85/2165	222/5640	38/965	6	8	6	8	6	8	3375	6850	3375	6850	3400	7000
	190/4820	92/2335	240/6085	45/1135	6	3	6	8	6	8	3250	6600	3250	6650	3350	6800
	205/5205	99/2515	255/6465	52/1315	6	3	6	8	6	5	2600	5800	3150	6450	3250	6600
	223/5655	105/2665	272/6915	58/1465	6	3	6	8	6	3	1975	4450	3050	6200	3150	6400



AUTHORIZED DEALER

Lifting Your Dreams



CHARACTERISTICS				TIER-4				
1	MANUFACTURER			DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN
2	MODEL			D2o5-7(D24A)	D255-7(D24A)	D3o5-7(D24A)	D335-7(D24A)	D35 C-7(D24A)
3	CAPACITY	at rated load center	lb	4000	5000	6000	6500	7000
4	LOAD CENTER	distance	in	19.7	19.7	19.7	19.7	19.7
5	POWERTYPE	electric, diesel, gas, LPG-gas		diesel	diesel	diesel	diesel	diesel
6	OPERATOR TYPE	stand-on, ride-seated		rider-seated	rider-seated	rider-seated	rider-seated	rider-seated
7	TIRES	C=cushion, P=pneumatic		p	p	p	p	p
8	WHEELS(x=driven)	number of front/rear		2/2	2/2	2/2	2/2	2/2
DIMENSIONS								
9	LIFT WITHSTD TWO-STAGE MAST	maximum fork height with rated load	in	127	127	127	127	127
10		free lift	in	6	6	6	6	6
11	FORK CARRIAGE	ISO class		II	II	III	III	III
12	FORKS	thickness x width x length	in	1.8x4x40	1.8x4x40	1.8x5x41.3	1.8x5x41.3	1.8x5x41.3
13		fork spacing (maximum x minimum)	in	10.8x40.8	10.8x40.8	11.3x41.1	11.3x41.1	11.3x41.1
14	TILT OF MAST	forward/backward	deg	6/10	6/10	6/10	6/10	6/10
15	OVERALL DIMENSIONS	length to fork face	in	100	102	106.5	107.5	109
16		width	in	46	46	47	47	49.5
17		mast lowered height	in	85.6	85.6	85.2	85.2	85.2
18		mast extended height	in	176.8	176.8	176.8	176.8	167.7
19		overhead guard height	in	86	86	86	86	86
20		seat height	in	40.5	40.5	40.5	40.5	40.5
21	OUTSIDE TURNING RADIUS		in	87.5	89	93	94.5	95.5
22	LOAD MOMENTCONSTANT		in	19	19	19	19	19.5
23	90° STACKING AISLE		in	106.5	108	112	113.5	115
23a	90° INTERSECTING AISLE		in	77.5	79	80.5	83	85.5
PERFORMANCE								
24	SPEED	travel, loaded/unloaded	mph	13/13.7	13/13.7	12.4/13	12.4/13	12.4/13
25		lift, loaded/unloaded	fpm	104.3/114	102.4/114	100.4/114	94.5/106.5	92.5/106.5
26		lowering, loaded/unloaded	fpm	98.5/88.5	98.5/88.5	98.5/88.5	98.5/88.5	98.5/88.5
27	DRAWBAR PULL	at 1.6km/h/r, loaded/unloaded	lb	3950/3880	3950//3925	4100/4025	4080/4025	3925/3880
28	GRADEABILITY	at 1.6km/h/r, loaded/unloaded	%	33	28	25.5	24	22
29	ACCELERATION	time reached at max speed, loaded/unloaded	sec					
WEIGHT								
30	TOTAL WEIGHT at unloaded		lb	8135	8960	10065	10470	10835
31	AXLE LOAD	at loaded, front/rear	lb	10945/1600	12555/1915	14495/2185	15345/2290	16215/2335
32		at unloaded, front/rear	lb	3860/4275	3705/5255	4125/5940	4025/6445	3980/6855
CHASSIS								
33	TIRES	number of front/rear		2/2	2/2	2/2	2/2	2/2
34		front size		7.00x15-12	7.00x15-12	28x9x15-12	28x9x15-12	250x15-18
35		rear size		6.50x10-10	6.50x10-10	6.50x10-10	6.50x10-12	6.50x10-12
36	WHEEL BASE		in	64	64	67	67	67
37	TREAD	front/rear	in	38.5/39.5	38.5/39.5	38.5/39.5	38.5/39.5	40.5/39.5
38	GROUND CLEARANCE	at loaded, the lowest point	in	4.5	4.5	4.1	4.1	4.1
39		at loaded, center of wheelbase	in	5.6	5.6	5.6	5.6	5.6
40	SEVCE BRAKE			foot/hyd	foot/hyd	foot/hyd	foot/hyd	foot/hyd
41	PARKING BRAKE			hand/mech	hand/mech	hand/mech	hand/mech	hand/mech
DRIVE								
42	BATTERY	voltage/capacity	V/AH	12/85	12/85	12/85	12/85	12/85
43	ENGINE	manufacturer/model		D1/D24ATIER-4	D1/D24ATIER-4	D1/D24ATIER-4	D1/D24ATIER-4	D1/D24ATIER-4
44		rated output / rpm	kw(hp)	45.6(62)/2200	45.6(62)/2200	45.6(62)/2200	45.6(62)/2200	45.6(62)/2200
45		max. torque / rpm	N-m	262/1600	262/1600	262/1600	262/1600	262/1600
46		cycle/cylinders/displacement	cc	4/4/2392	4/4/2392	4/4/2392	4/4/2392	4/4/2392
47	TRANSMISSION	type		powershift	powershift	powershift	powershift	powershift
48		number of speeds forward/reverse		1/1	1/1	1/1	1/1	1/1
49	OPERATING PRESSURE	system/attachment	bar	181/156	195/156	220/156	240/156	240/156
PERFORMANCE(ECO Mode)								
50	SPEED	travel, loaded/unloaded	mph	12.4/13	12.4/13	11.8/12.4	11.8/12.4	11.8/12.4
51		lift, loaded/unloaded	fpm	96.5/104.5	94.5/104.5	92.5/104.5	88.5/98.5	86.5/98.5
52		lowering, loaded/unloaded	fpm	98.5/88.5	98.5/88.5	98.5/88.5	98.5/88.5	98.5/88.5
53	DRAWBAR PULL	at 1.6km/h/r, loaded/unloaded	lb	3670/3615	3660/3650	3815/3750	3790/3750	3790/3750
54	GRADEABILITY	at 1.6km/h/r, loaded/unloaded	%	31	26	23.5	22	20

*ECO Mode engine setting
- Low 800±25rpm / High 2,200±50rpm / Stall 1,850±100rpm

MAST SPECIFICATION and RATED CAPACITIES

D2oS-7

Mast type	Maxmum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities											
					D2oS-7											
					Tilt Angle						Load Capacities					
					Single Pneu.		Double Pneu		Single Solid		Single Pneu.		Double Pneu		Single Solid	
			With Load Backrest	With Load Backrest	FWD	BWD	FWD	BWD	FWD	BWD	LC 500mm	LC 24in	LC 500mm	LC 24in	LC 500mm	LC 24in
	in/mm	in/mm	in/mm	in/mm	deg	deg	deg	deg	deg	deg	kg	lb	kg	lb	kg	lb
STD	80/2030	62/1575	130/3290	6/147	6	10	6	10	6	10	2000	4000	2000	4000	2000	4000
	102/2580	73/1850	151/3840	6/147	6	10	6	10	6	10	2000	4000	2000	4000	2000	4000
	116/2950	80/2035	166/4210	6/147	6	10	6	10	6	10	2000	4000	2000	4000	2000	4000
	127/3230	86/2175	177/4490	6/147	6	10	6	10	6	10	2000	4000	2000	4000	2000	4000
	138/3500	95/2425	188/4765	6/147	6	10	6	10	6	10	2000	4000	2000	4000	2000	4000
	150/3800	101/2575	199/5065	6/147	6	10	6	10	6	10	2000	4000	2000	4000	2000	4000
	156/3950	104/2650	205/5215	6/147	6	10	6	10	6	10	2000	4000	2000	4000	2000	4000
	171/4350	112/2850	221/5615	6/147	6	10	6	10	6	10	2000	4000	2000	4000	2000	4000
	195/4960	124/3150	245/6215	6/147	6	5	6	10	6	10	1900	3750	1925	3900	1975	4000
FF	102/2580	73/1850	151/3840	25/645	6	10	6	10	6	10	2000	4000	2000	4000	2000	4000
	116/2950	80/2035	166/4210	33/830	6	10	6	10	6	10	2000	4000	2000	4000	2000	4000
	127/3230	86/2175	177/4490	38/970	6	10	6	10	6	10	2000	4000	2000	4000	2000	4000
	142/3600	95/2425	192/4865	48/1220	6	10	6	10	6	10	2000	4000	2000	4000	2000	4000
FFT	154/3900	75/1900	203/5165	27/695	6	8	6	8	6	8	2000	4000	2000	4000	2000	4000
	169/4290	80/2035	219/5570	33/830	6	8	6	8	6	8	2000	4000	2000	4000	2000	4000
	186/4730	86/2175	236/5990	38/970	6	8	6	8	6	8	1950	3950	1950	3950	2000	4000
	219/5560	99/2525	268/6815	52/1320	6	3	6	8	6	8	1650	3650	1825	3700	1875	3850
	237/6010	105/2675	286/7265	58/1470	6	3	6	8	6	5	1300	2900	1750	3550	1825	3700
	256/6500	115/2915	306/7760	67/1710	6	3	6	8	6	3	975	2200	1675	3450	1750	3550

D25S-7

Mast type	Maxmum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities											
					D25S-7											
			With Load Backrest	With Load Backrest	Tilt Angle						Load Capacities					
					Single Pneu.		Double Pneu		Single Solid		Single Pneu.		Double Pneu		Single Solid	
					FWD	BWD	FWD	BWD	FWD	BWD	LC 500mm	LC 24in	LC 500mm	LC 24in	LC 500mm	LC24in
	in/mm	in/mm	in/mm	in/mm	deg	deg	deg	deg	deg	deg	kg	lb	kg	lb	kg	lb
STD	80/2030	62/1575	130/3290	6/147	6	10	6	10	6	10	2500	5000	2500	5000	2500	5000
	102/2580	73/1850	151/3840	6/147	6	10	6	10	6	10	2500	5000	2500	5000	2500	5000
	116/2950	80/2035	166/4210	6/147	6	10	6	10	6	10	2500	5000	2500	5000	2500	5000
	127/3230	86/2175	177/4490	6/147	6	10	6	10	6	10	2500	5000	2500	5000	2500	5000
	138/3500	95/2425	188/4765	6/147	6	10	6	10	6	10	2500	5000	2500	5000	2500	5000
	150/3800	101/2575	199/5065	6/147	6	10	6	10	6	10	2500	5000	2500	5000	2500	5000
	156/3950	104/2650	205/5215	6/147	6	10	6	10	6	10	2500	5000	2500	5000	2500	5000
	171/4350	112/2850	221/5615	6/147	6	10	6	10	6	10	2500	5000	2500	5000	2500	5000
	195/4960	124/3150	245/6215	6/147	6	5	6	10	6	10	2075	4600	2450	4950	2500	5000
FF	102/2580	73/1850	151/3840	25/645	6	10	6	10	6	10	2500	5000	2500	5000	2500	5000
	116/2950	80/2035	166/4210	33/830	6	10	6	10	6	10	2500	5000	2500	5000	2500	5000
	127/3230	86/2175	177/4490	38/970	6	10	6	10	6	10	2500	5000	2500	5000	2500	5000
	142/3600	95/2425	192/4865	48/1220	6	10	6	10	6	10	2500	5000	2500	5000	2500	5000
FFT	154/3900	75/1900	203/5165	27/695	6	8	6	8	6	8	2500	5000	2500	5000	2500	5000
	169/4290	80/2035	219/5570	33/830	6	8	6	8	6	8	2500	5000	2500	5000	2500	5000
	186/4730	86/2175	236/5990	38/970	6	8	6	8	6	8	2450	5000	2500	5000	2500	5000
	219/5560	99/2525	268/6815	52/1320	6	3	6	8	6	8	1525	3400	2325	4750	2400	4850
	237/6010	105/2675	286/7265	58/1470	6	3	6	8	6	5	1175	2600	2250	4550	2300	4700
	256/6500	115/2915	306/7760	67/1710	6	3	6	8	6	3	875	1950	2150	4400	1850	4200