



**D140S-7**

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities		
					D140S-7		
			With Load Backrest	With Load Backrest	Tilt Angle		Load Capacities
					Double Pneumatic		Double Pneumatic
FWD	BWD	LC600mm					
	mm	mm	mm	mm	deg	deg	kg
STD	3,000	3,170	4,670	0	15	12	14,000
	3,500	3,420	5,170	0	15	12	14,000
	4,000	3,670	5,670	0	15	12	14,000
	4,500	3,920	6,170	0	15	12	14,000
	5,000	4,370	6,870	0	15	12	14,000
	5,500	4,620	7,370	0	15	12	14,000
	6,000	4,870	7,870	0	15	12	13,925
FFT	3,700	2,930	5,330	1,380	15	8	14,000
	4,000	3,030	5,630	1,480	15	8	14,000
	4,500	3,195	6,130	1,645	15	8	13,950
	5,000	3,360	6,630	1,815	15	8	13,525
	5,500	3,530	7,130	1,980	15	8	13,100
	6,000	3,695	7,630	2,145	15	8	12,675

**D160S-7**

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities		
					D160S-7		
			With Load Backrest	With Load Backrest	Tilt Angle		Load Capacities
					Double Pneumatic		Double Pneumatic
FWD	BWD	LC600mm					
	mm	mm	mm	mm	deg	deg	kg
STD	3,000	3,170	4,670	0	15	12	16,000
	3,500	3,420	5,170	0	15	12	16,000
	4,000	3,670	5,670	0	15	12	16,000
	4,500	3,920	6,170	0	15	12	16,000
	5,000	4,370	6,870	0	15	12	16,000
	5,500	4,620	7,370	0	15	12	15,950
	6,000	4,870	7,870	0	15	12	15,475
FFT	3,700	2,930	5,330	1,380	15	8	16,000
	4,000	3,030	5,630	1,480	15	8	16,000
	4,500	3,195	6,130	1,645	15	8	15,525
	5,000	3,360	6,630	1,815	15	8	15,075
	5,500	3,530	7,130	1,980	15	8	14,600
	6,000	3,695	7,630	2,145	15	8	14,150

Note : Mast Specifications & Rated Capacities are based on standard chassis with dual pneumatic tire and without side shifter.

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AUTHORIZED DEALER



**7 Series Forklifts**  
**Pneumatic Diesel 10 to 16 ton Series**  
EPA Tier IV / Euro Stage IV

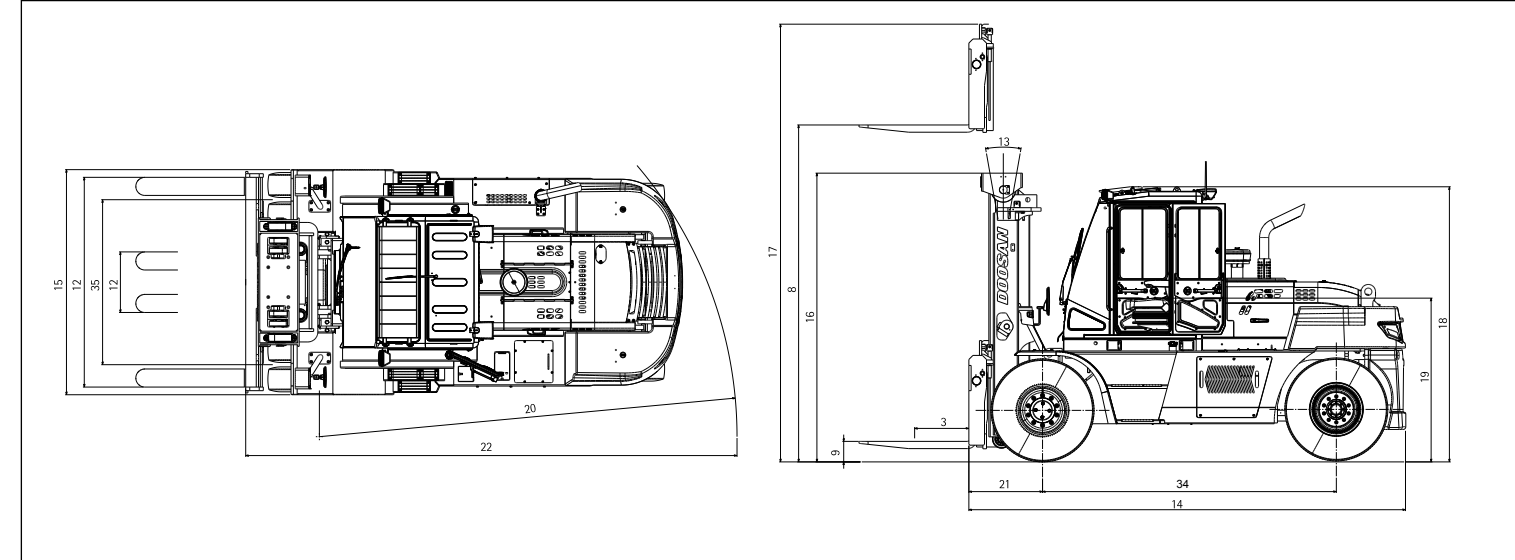
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# GENERAL SPECIFICATIONS

CHARACTERISTICS				Tier IV / Stage IV			
1	Model			D100S-7	D120S-7	D140S-7	D160S-7
2	Capacity	at rated load center	kg	10,000	12,000	14,000	16,000
3	Load center	Distance	mm	600	600	600	600
4	Power type	Electric, Diesel, Gasoline, LP-Gas		Diesel	Diesel	Diesel	Diesel
5	Operator type	Stand-on, Driver-seated		Driver-seated	Driver-seated	Driver-seated	Driver-seated
6	Tire type	P=pneumatic, E=solid		P/E	P/E	P/E	P/E
7	Wheels(x=driven)	Number, front/rear		x4/2	x4/2	x4/2	x4/2
DIMENSIONS							
8	Maximum fork height	with STD 2-stage mast	mm	3,000	3,000	3,000	3,000
9	Free lift		mm	0	0	0	0
10	Fork carriage	ISO class		n/a	n/a	n/a	n/a
11	Forks	Thickness x Width x Length	mm	70x200x1,350	80x200x1,350	85x200x1,350	85x200x1,350
12		Fork spacing (min X Max)	mm	470x2,140	470x2,140	470x2,290	470x2,290
13	Tilt of mast	Forward / Backward	deg	15/12	15/12	15/12	15/12
14	Overall Dimensions	Length to forkface	mm	4,490	4,505	4,830	4,830
15		Width	mm	2,350	2,350	2,490	2,490
16		Mast lowered height	mm	2,970	2,970	3,170	3,170
17		Mast extended height	mm	4,470	4,470	4,670	4,670
18		Overhead guard height (Cabin)	mm	2,890(2,990)	2,890(2,990)	2,950(3,050)	2,950(3,050)
19	Seat height	mm	1,455	1,455	1,526	1,526	
20	Minimum outside Turning Radius		mm	4,290	4,290	4,620	4,620
21	Load moment constant		mm	755	770	815	815
22	90°stacking aisle (add load length and clearance)		mm	5,045	5,060	5,435	5,435
PERFORMANCE							
23	Speed	Travel, loaded/unloaded	km/h	34/37	33/36	26/30	25/29
24		Lift, loaded/unloaded	mm/s	410/470	400/470	370/430	360/430
25		Lowering, loaded/unloaded	mm/s	430/410	430/410	430/410	430/410
26	Drawbar pull	at 1.6 km/h, loaded	kg	9,430	9,350	10,590	10,520
27	Gradeability	at 1.6 km/h, loaded	%	42	36	36	32
WEIGHT				Full Cabin			
28	Total weight	Unloaded	kg	15,190	16,190	17,995	18,995
29	Axle load	with load, front/rear	kg	21,985/3,205	24,960/3,230	28,630/3,365	31,525/3,470
30		without load, front/rear	kg	7,470/7,720	7,480/8,710	8,640/9,355	8,665/10,330
CHASSIS							
31	Tires	Number of front/rear		4/2	4/2	4/2	4/2
32		Size, front		10.00X20-16PR	10.00X20-16PR	12.00X20-18PR	12.00X20-18PR
33		Size, rear		10.00X20-16PR	10.00X20-16PR	12.00X20-18PR	12.00X20-18PR
34	Wheel base		mm	3000	3000	3250	3250
35	Tread	Front/Rear	mm	1,724/1,860	1,724/1,860	1,825/1,910	1,825/1,910
36	Ground clearance	loaded, at the lowest point	mm	270	270	270	270
37		loaded, at center of wheelbase	mm	360	360	370	370
38	Brakes	Service brake		Disc	Disc	Disc	Disc
39		Parking brake		Rachet	Rachet	Rachet	Rachet
DRIVE							
40	Battery	Voltage/Capacity	V/AH	24/100	24/100	24/100	24/100
41	Engine	Manufacturer/Model		DI/DLo6P	DI/DLo6P	DI/DLo6P	DI/DLo6P
42		Rated output (at rpm)	ps/rpm	175/2,100	175/2,100	175/2,100	175/2,100
43			kW/rpm	128.8/2,100	128.8/2,100	128.8/2,100	128.8/2,100
44		Max. Torque	Nm/rpm	725.9/1,400	725.9/1,400	725.9/1,400	725.9/1,400
45	Transmission	Cycle/Cylinders/Displacement	cc	4/6/5,890	4/6/5,890	4/6/5,890	4/6/5,890
46		Type		Full Auto	Full Auto	Full Auto	Full Auto
47	Operating pressure	No. speeds forward/reverse		3/3	3/3	3/3	3/3
		System/Attachment	bar	190/160	210/160	210/160	225/160

Note : Specification values quoted in this specification sheet have been rounded. Performance may vary due to operation conditions. Products and specifications are subject to improvement and change without prior notices.

# DIMENSIONAL DRAWING



# MAST SPECIFICATIONS and RATED CAPACITIES

## D100S-7

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities		
					D100S-7		
					Tilt Angle		Load Capacities
					Double Pneumatic		Double Pneumatic
					FWD	BWD	LC600mm
	mm	mm	mm	mm	deg	deg	kg
STD	3,000	2,965	4,465	0	15	12	10,000
	3,500	3,215	4,965	0	15	12	10,000
	4,000	3,465	5,465	0	15	12	10,000
	4,500	3,715	5,965	0	15	12	10,000
	5,000	4,165	6,665	0	15	12	10,000
	5,500	4,415	7,165	0	15	12	10,000
FFT	6,000	4,665	7,665	0	15	12	10,000
	4,000	2,815	5,500	1,385	15	10	10,000
	4,500	2,980	6,000	1,550	15	10	10,000
	5,000	3,145	6,500	1,720	15	10	10,000
	5,500	3,315	7,000	1,885	15	10	10,000
	6,000	3,480	7,500	2,050	15	10	10,000

## D120S-7

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities		
					D120S-7		
					Tilt Angle		Load Capacities
					Double Pneumatic		Double Pneumatic
					FWD	BWD	LC600mm
	mm	mm	mm	mm	deg	deg	kg
STD	3,000	2,965	4,465	0	15	12	12,000
	3,500	3,215	4,965	0	15	12	12,000
	4,000	3,465	5,465	0	15	12	12,000
	4,500	3,715	5,965	0	15	12	12,000
	5,000	4,165	6,665	0	15	12	12,000
	5,500	4,415	7,165	0	15	12	12,000
FFT	6,000	4,665	7,665	0	15	12	12,000
	4,000	2,815	5,495	1,400	15	10	12,000
	4,500	2,980	5,995	1,565	15	10	12,000
	5,000	3,145	6,495	1,735	15	10	12,000
	5,500	3,315	6,995	1,900	15	10	11,800
	6,000	3,480	7,495	2,065	15	10	11,425

Note : Mast Specifications & Rated Capacities are based on standard chassis with dual pneumatic tire and without side shifter.