



D100S/D120S/D140S/D160S-7

## 7 SERIES FORKLIFTS

Pneumatic Tire Diesel

22,000 lb. to 36,000 lb. Capacity



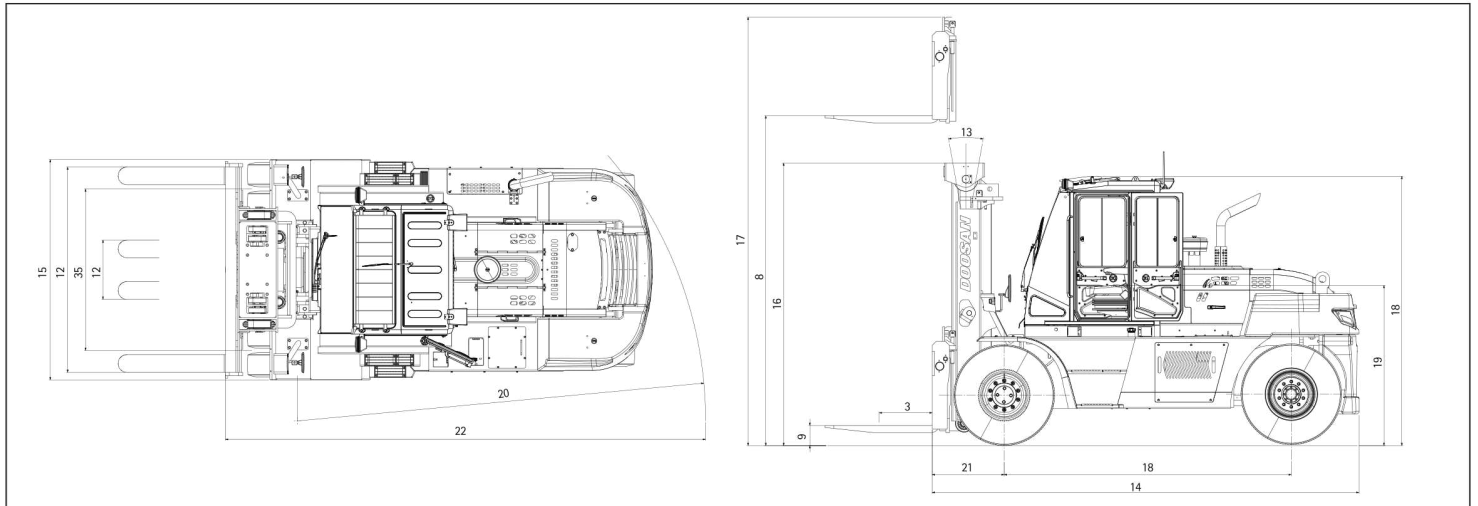
**LIFTING YOUR DREAMS**

# SPECIFICATIONS

CHARACTERISTICS							
1	Model			D100S-7	D120S-7	D140S-7	D160S-7
2	Capacity	at Rated Load Center	lb.	22,000	26,000	31,000	36,000
3	Load Center	Distance	in.	24	24	24	24
4	Power Type	Electric, Diesel, Gasoline, LP-Gas		Diesel	Diesel	Diesel	Diesel
5	Operator Type	Stand-On, Rider-Seated		Rider-Seated	Rider-Seated	Rider-Seated	Rider-Seated
6	Tire Type	C=Cushion, P=Pneumatic		P	P	P	P
7	Wheels (x = Drive)	Number, Front/Rear		x4/2	x4/2	x4/2	x4/2
DIMENSIONS							
8	Maximum Fork Height	w/ STD 2-Stage Mast	in.	118.1	118.1	118.1	118.1
9	Free Lift		in.	0	0	0	0
10	Fork Carriage	ISO Class		5	5	5	5
11	Forks	Thickness x Width x Length	in. (mm)	2.7 x 7.87 x 53.1 (70 x 200 x 1,350)	3.3 x 7.87 x 53.1 (85 x 200 x 1,350)	3.3 x 7.87 x 53.1 (85 x 200 x 1,350)	3.3 x 7.87 x 53.1 (85 x 200 x 1,350)
12		Fork Spacing (Min. x Max.)	in. (mm)	18.5 x 84.2 (470 x 2,140)	18.5 x 84.2 (470 x 2,140)	18.5 x 90.2 (470 x 2,290)	18.5 x 90.2 (470 x 2,290)
13	Tilt of Mast	Forward/Backward	deg.	15/12	15/12	15/12	15/12
14	Overall Dimensions	Length to Fork Face	in.	176.8	177.4	190.2	190.2
15		Width	in.	92.5	92.5	98.0	98.0
16		Mast Lowered Height ~ OAL	in.	117.0	117.0	124.8	124.8
17		Mast Extended Height ~ MFH	in.	176.0	176.0	183.9	183.9
18		Overhead Guard Height (Cabin)	in.	113.8 (117.7)	113.8 (117.7)	116.1 (120.1)	116.1 (120.1)
19		Seat Height	in.	71.9	71.9	74.2	74.2
20	Minimum Outside Turning Radius		in.	168.9	168.9	181.9	181.9
21	Load Moment Constant		in.	29.7	30.3	32.0	32.0
22	90° Stacking Aisle	Add Load Length and Clearance	in.	198.6	199.2	214.0	214.0
PERFORMANCE							
23	Speed	Ttravel, Loaded/Unloaded	mph	21.1/23.0	20.5/22.4	16.2/18.6	15.5/18.0
24		Lift, Loaded/Unloaded	fpm	80.7/92.5	78.7/92.5	72.8/84.6	70.9/84.6
25		Lowering, Loaded/Unloaded	fpm	84.6/80.7	84.6/80.7	84.6/80.7	84.6/80.7
26	Drawbar Pull	@ 1.6 km/h, Loaded	lb.	20,790	20,613	23,347	23,193
27	Gradeability	@ 1.6 km/h, Loaded	%	42.0	36.0	36.0	32.0
WEIGHT				Full Cabin			
28	Total Weight	Unloaded	lb.	33,490	35,690	39,675	41,880
29	Axle Load	w/ Load, Front/Rear	lb.	48,480/7,010	54,450/7,240	63,415/7,255	70,665/7,210
30		w/o Load, Front/Rear	lb.	16,470/17,020	16,490/19,200	19,050/20,625	19,105/22,775
CHASSIS							
31	Tires	Number of Front/Rear		4/2	4/2	4/2	4/2
32		Size, Front		10.00 X 20-16PR	10.00 X 20-16PR	12.00 X 20-18PR	12.00 X 20-18PR
33		Size, Rear		10.00 X 20-16PR	10.00 X 20-16PR	12.00 X 20-18PR	12.00 X 20-18PR
34	Wheel base		in.	118.1	118.1	128.0	128.0
35	Tread	Front/Rear	in.	1,724/1,860	1,724/1,860	1,825/1,910	1,825/1,910
36	Ground clearance	Loaded, at the Lowest Point	in.	270	270	270	270
37		Loaded, at Center of Wheelbase	in.	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/DL06P	DI/DL06P	DI/DL06P	DI/DL06P
42		Rated Output (@ rpm)	HP/rpm	172.6/2,100	172.6/2,100	172.6/2,100	172.6/2,100
			kW/rpm	128.7/2,100	128.7/2,100	128.7/2,100	128.7/2,100
43		Max. Torque	lb-ft/rpm	535/1,400	535/1,400	535/1,400	535/1,400
			Nm/rpm	725.7/1,400	725.7/1,400	725.7/1,400	725.7/1,400
44		Cycle/Cylinders/Displacement	cc	4/6/5890	4/6/5,890	4/6/5,890	4/6/5,890
45	Transmission	Type		Full Auto	Full Auto	Full Auto	Full Auto
46		No. of Speeds Forward/Reverse		3/3	3/3	3/3	3/3
47	Operating pressure	System/Attachment	psi	2,755/2,320	3,045/2,320	3,045/2,320	3,265/2,320

Note : Specification values quoted in this specification sheet has 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 & RATED CAPACITIES

### D100S-7

Mast Type	Maximum Fork Height		Fully Lowered Height		Fully Extended Height		Free Lift		Rated Load Capacities			
					With Load Backrest		With Load Backrest		D100S-7			
									Tilt Angle		Load Capacities	
									Double Pneumatic		Double Pneumatic	
mm	in	mm	in	mm	in	mm	in	FWD deg	BWD deg	LC 600mm kg	LC 24in lb	
STD	3,000	118	2,965	117	4,465	176	0	0	15	12	10,000	22,000
	3,500	138	3,215	127	4,965	195	0	0	15	12	10,000	22,000
	4,000	157	3,465	136	5,465	215	0	0	15	12	10,000	22,000
	4,500	177	3,715	146	5,965	235	0	0	15	12	10,000	22,000
	5,000	197	4,165	164	6,665	262	0	0	15	12	10,000	22,000
	5,500	217	4,415	174	7,165	282	0	0	15	12	10,000	22,000
	6,000	236	4,665	184	7,665	302	0	0	15	12	10,000	22,000
FFT	4,000	157	2,815	111	5,500	217	1,385	55	15	10	10,000	22,000
	4,500	177	2,980	117	6,000	236	1,550	61	15	10	10,000	22,000
	5,000	197	3,145	124	6,500	256	1,720	68	15	10	10,000	22,000
	5,500	216	3,315	131	7,000	276	1,885	74	15	10	10,000	22,000
	6,000	236	3,480	137	7,500	295	2,050	81	15	10	10,000	22,000

### D120S-7

Mast Type	Maximum Fork Height		Fully Lowered Height		Fully Extended Height		Free Lift		Rated Load Capacities			
					With Load Backrest		With Load Backrest		D120S-7			
									Tilt Angle		Load Capacities	
									Double Pneumatic		Double Pneumatic	
mm	in	mm	in	mm	in	mm	in	FWD deg	BWD deg	LC 600mm kg	LC 24in lb	
STD	3,000	118	2,965	117	4,465	176	0	0	15	12	12,000	26,450
	3,500	138	3,215	127	4,965	195	0	0	15	12	12,000	26,450
	4,000	157	3,465	136	5,465	215	0	0	15	12	12,000	26,450
	4,500	177	3,715	146	5,965	235	0	0	15	12	12,000	26,450
	5,000	197	4,165	164	6,665	262	0	0	15	12	12,000	26,450
	5,500	217	4,415	174	7,165	282	0	0	15	12	12,000	26,450
	6,000	236	4,665	184	7,665	302	0	0	15	12	12,000	26,450
FFT	4,000	157	2,815	111	5,495	216	1,400	55	15	10	12,000	26,450
	4,500	177	2,980	117	5,995	236	1,565	62	15	10	12,000	26,450
	5,000	197	3,145	124	6,495	256	1,735	68	15	10	12,000	26,450
	5,500	216	3,315	131	6,995	275	1,900	75	15	10	11,800	25,850
	6,000	236	3,480	137	7,495	295	2,065	81	15	10	11,425	25,850

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

# MAST SPECIFICATIONS & RATED CAPACITIES

## D140S-7

Mast Type	Maxmum Fork Height		Fully Lowered Height		Fully Extended Height		Free Lift		Rated Load Capacities			
					With Load Backrest		With Load Backrest		D140S-7			
					Tilt Angle		Load Capacities					
					Double Pneumatic		Double Pneumatic					
	mm	in	mm	in	mm	in	mm	in	FWD deg	BWD deg	LC 600mm kg	LC 24in lb
STD	2,900	114	2,950	116	4,400	173	0	0	15	12	14,000	30,850
	3,000	118	3,170	125	4,670	184	0	0	15	12	14,000	30,850
	3,500	138	3,420	135	5,170	204	0	0	15	12	14,000	30,850
	4,000	157	3,670	144	5,670	223	0	0	15	12	14,000	30,850
	4,500	177	3,920	154	6,170	243	0	0	15	12	14,000	30,850
	5,000	197	4,370	172	6,870	270	0	0	15	12	14,000	30,850
	5,500	217	4,620	182	7,370	290	0	0	15	12	14,000	30,850
6,000	236	4,870	192	7,870	310	0	0	15	12	13,925	30,500	
FFT	3,700	146	2,930	115	5,330	210	1,380	54	15	8	14,000	30,850
	4,000	157	3,030	119	5,630	222	1,480	58	15	8	14,000	30,850
	4,500	177	3,195	126	6,130	241	1,645	65	15	8	13,950	30,550
	5,000	197	3,360	132	6,630	261	1,815	71	15	8	13,525	29,650
	5,500	217	3,530	139	7,130	281	1,980	78	15	8	13,100	28,700
	6,000	236	3,695	145	7,630	300	2,145	84	15	8	12,675	27,800

## D160S-7

Mast Type	Maxmum Fork Height		Fully Lowered Height		Fully Extended Height		Free Lift		Rated Load Capacities			
					With Load Backrest		With Load Backrest		D160S-7			
					Tilt Angle		Load Capacities					
					Double Pneumatic		Double Pneumatic					
	mm	in	mm	in	mm	in	mm	in	FWD deg	BWD deg	LC 600mm kg	LC 24in lb
STD	2,900	114	2,950	116	4,400	173	0	0	15	12	16,000	36,000
	3,000	118	3,170	125	4,670	184	0	0	15	12	16,000	36,000
	3,500	138	3,420	135	5,170	204	0	0	15	12	16,000	36,000
	4,000	157	3,670	144	5,670	223	0	0	15	12	16,000	36,000
	4,500	177	3,920	154	6,170	243	0	0	15	12	16,000	36,000
	5,000	197	4,370	172	6,870	270	0	0	15	12	16,000	36,000
	5,500	217	4,620	182	7,370	290	0	0	15	12	15,950	34,900
6,000	236	4,870	192	7,870	310	0	0	15	12	15,475	33,950	
FFT	3,700	146	2,930	115	5,330	210	1,380	54	15	8	16,000	35,750
	4,000	157	3,030	119	5,630	222	1,480	58	15	8	16,000	35,100
	4,500	177	3,195	126	6,130	241	1,645	65	15	8	15,525	34,050
	5,000	197	3,360	132	6,630	261	1,815	71	15	8	15,075	33,000
	5,500	217	3,530	139	7,130	281	1,980	78	15	8	14,600	31,950
	6,000	236	3,695	145	7,630	300	2,145	84	15	8	14,150	30,950

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

PSCT4D100-V2\_SPEC

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