

D160S-7

Mast type	Maximum Fork Height	Maximum Lowered Height	Full Extended Height	Free Lift	Rated Load Capacities				
					With Load Backrest	With Load Backrest	Tilt Angle		Load Capacities
							Double Pneumatic		Double Pneumatic
							FWD	BWD	LC 600mm
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		

DV180S-7

Mast type	Maximum Fork Height	Maximum Lowered Height	Full Extended Height	Free Lift	Rated Load Capacities				
					With Load Backrest	With Load Backrest	Tilt Angle		Load Capacities
							Double Pneumatic		Double Pneumatic
							FWD	BWD	LC 1200mm
mm	mm	mm	mm	deg	deg	kg			
STD	3,000	3,235	4,705	0	10	10	18,000		
	3,500	3,485	5,205	0	10	10	18,000		
	4,500	3,985	6,205	0	10	10	18,000		
	5,000	4,235	6,705	0	10	10	18,000		
FFT	4,500	2,930	5,920	1,550	10	10	17,000		
	5,000	3,100	6,430	1,720	10	10	17,000		
	6,000	3,430	7,420	2,050	10	10	16,250		

DV250S-7

Mast type	Maximum Fork Height	Maximum Lowered Height	Full Extended Height	Free Lift	Rated Load Capacities				
					With Load Backrest	With Load Backrest	Tilt Angle		Load Capacities
							Double Pneumatic		Double Pneumatic
							FWD	BWD	LC 1200mm
mm	mm	mm	mm	deg	deg	kg			
STD	3,500	3,600	5,310	0	12	10	25,000		
	4,000	3,850	5,810	0	12	10	25,000		
	5,000	4,350	6,810	0	12	10	25,000		
	5,600	4,650	7,410	0	12	10	24,815		

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



7-Series Forklifts

Pneumatic Diesel 10 to 25 ton Series

Euro Stage IV



EUD160S7-171009v4EN (October 2017)



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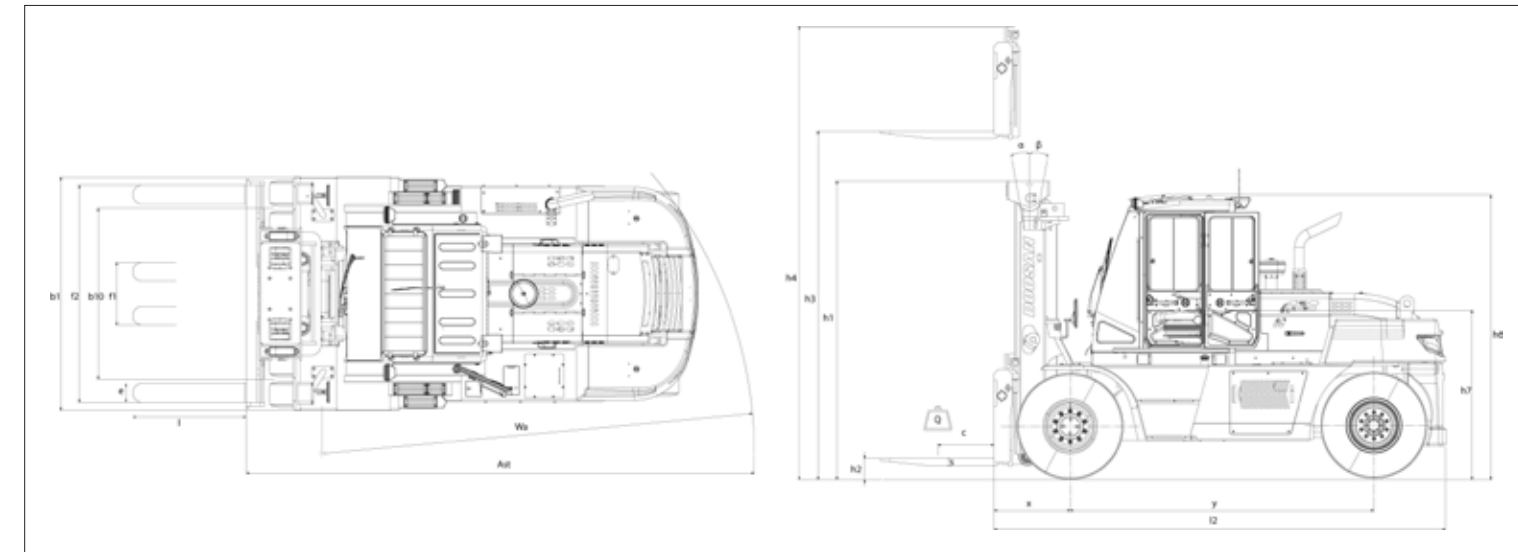
GENERAL SPECIFICATIONS

Euro Stage IV

CHARACTERISTICS		Euro Stage IV								
1.1	Manufacturer			Doosan	Doosan	Doosan	Doosan	Doosan	Doosan	
1.2	Model			D100S-7	D120S-7	D140S-7	D160S-7	DV180S-7	DV250S-7	
1.3	Power type			diesel	diesel	diesel	diesel	diesel	diesel	
1.4	Operator type			driver-seated	driver-seated	driver-seated	driver-seated	driver-seated	driver-seated	
1.5	Capacity	at rated load center	Q	kg	10,000	12,000	14,000	16,000	18,000	25,000
1.6	Load center		c	mm	600	600	600	600	1,200	1,200
1.8	Load moment constant		x	mm	755	770	815	815	1,000	1,120
1.9	Wheel base		y	mm	3,000	3,000	3,250	3,250	3,750	4,250
WEIGHT										
2.1	Service weight	unloaded		kg	15,190	16,190	17,995	18,995	26,400	38,500
2.2	Axle load	loaded, front/rear		kg	21,985/3,205	24,960/3,230	28,630/3,365	31,525/3,470	41,210/3,190	57,897/5,603
2.3	Axle load	unloaded, front/rear		kg	7,470/7,720	7,480/8,710	8,640/9,355	8,665/10,330	12,650/13,750	19,250/19,250
WHEELS AND CHASSIS										
3.1	Tires	P=pneumatic, E=solid			P/E	P/E	P/E	P/E	P	P
3.2	Tire size	front			10.00x20-16PR	10.00x20-16PR	12.00x20-18PR	12.00x20-18PR	12.00 R20	14.00-24-28PR
3.3	Tire size	rear			10.00x20-16PR	10.00x20-16PR	12.00x20-18PR	12.00x20-18PR	12.00 R20	14.00-24-28PR
3.5	Number of wheels	front/rear (x=driven)			x4/2	x4/2	x4/2	x4/2	x4/2	x4/2
3.6	Track width	front	b10	mm	1,724	1,724	1,825	1,825	1,858	2,200
3.7	Track width	rear	b11	mm	1,860	1,860	1,910	1,910	1,976	2,140
DIMENSIONS										
4.1	Tilt mast/fork carriage	forward/backward	α/β	°	15/12	15/12	15/12	15/12	10/9	12/10
4.2	Closed mast height		h1	mm	2,970	2,970	3,170	3,170	3,485	3,850
4.3	Free lift		h2	mm	0	0	0	0	0	0
4.4	Maximum fork height	with STD 2-stage mast	h3	mm	3,000	3,000	3,000	3,000	3,500	4,000
4.5	Extended mast height		h4	mm	4,470	4,470	4,670	4,670	5,205	5,810
4.7	Height over overhead guard	(cabin)	h6	mm	2,890 (2,990)	2,890 (2,990)	2,950 (3,050)	2,950 (3,050)	(2,930)	(3,310)
4.8	Seat height		h7	mm	1,455	1,455	1,526	1,526	1,800	2,150
4.20	Length to fork face		l2	mm	4,490	4,505	4,830	4,830	5,595	6,350
4.21	Overall width		b1	mm	2,350	2,350	2,490	2,490	2,540	3,050
4.22	Forks (thickness x width x length)		s,e,l	mm	70x200x1,350	80x200x1,350	85x200x1,350	85x200x1,350	100x250x2,400	110x250x2,400
	Fork spacing	min x max	f1, f2	mm	470x2,140	470x2,140	470x2,290	470x2,290	710x2,394	800x2,600
4.23	Carriage	ISO-class			n/a	n/a	n/a	n/a	n/a	n/a
4.31	Ground clearance	loaded, at the lowest point	m1	mm	270	270	270	270	210	290
4.32	Ground clearance	loaded, center of wheel base	m2	mm	360	360	370	370	325	380
4.33	Aisle width for pallets 1000x1200, wide		Ast	mm	6,245	6,260	6,635	6,635	7,320	8,270
4.34	Aisle width for pallet 800x1200, long		Ast	mm	6,045	6,060	6,435	6,435	7,120	8,070
4.35	Outer turning radius		Wa	mm	4,290	4,290	4,620	4,620	5,120	5,950
4.36	Inner turning radius		b13	mm	1,545	1,545	1,710	1,710	1,818	2,374
PERFORMANCE										
5.1	Travel speed	loaded/unloaded		km/h	34/37	33/36	26/30	25/29	39/42	37/40
5.2	Lift speed	loaded/unloaded		mm/s	410/470	400/470	370/430	360/430	380/410	310/340
5.3	Lowering speed	loaded/unloaded		mm/s	430/410	430/410	430/410	430/410	400/350	400/350
5.5	Drawbar pull	loaded, at 1.6 km/h		kg	9,430	9,350	10,590	10,520	15,399/14,650	23,516/22,708
5.7	Gradeability	loaded		%	42	36	36	32	35.6	36.0
5.10	Service brake				disc	disc	disc	disc	disc	disc
IC ENGINE										
7.1	Engine Manufacturer/type				Doosan DLo6P	Doosan DLo6P	Doosan DLo6P	Doosan DLo6P	Doosan DLo8P	Doosan DLo8P
7.2	Engine power			kW/rpm	128.7	128.7	128.7	128.7	183.7	213.3
7.3	Rated Speed			min-1	2,100	2,100	2,100	2,100	2,100	2,100
7.3.1	Torque at 1/min			N•m	725.7/1,400	725.7/1,400	725.7/1,400	725.7/1,400	1,157/1,300	1,236/1,300
7.4	Cylinders/displacement			cc	6/5,890	6/5,890	6/5,890	6/5,890	6/7,640	6/7,640
7.9	Battery voltage			V	24	24	24	24	24	24
10.1	Hydraulic pressure for attachments			bar	160	160	160	160	185	220

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	Full Extended Height	Free Lift	Rated Load Capacities		
					Tilt Angle		Load Capacities
					Double Pneumatic		Double Pneumatic
			With Load Backrest	With Load Backrest	FWD	BWD	LC 600mm
	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
	6,000	4,665	7,665	0	15	12	10,000
FFT	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	Full Extended Height	Free Lift	Rated Load Capacities		
					Tilt Angle		Load Capacities
					Double Pneumatic		Double Pneumatic
			With Load Backrest	With Load Backrest	FWD	BWD	LC 600mm
	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
	6,000	4,665	7,665	0	15	12	12,000
FFT	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

D140S-7

Mast type	Maximum Fork Height	Maximum Lowered Height	Full Extended Height	Free Lift	Rated Load Capacities		
					Tilt Angle		Load Capacities
					Double Pneumatic		Double Pneumatic
			With Load Backrest	With Load Backrest	FWD	BWD	LC 600mm
	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
	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