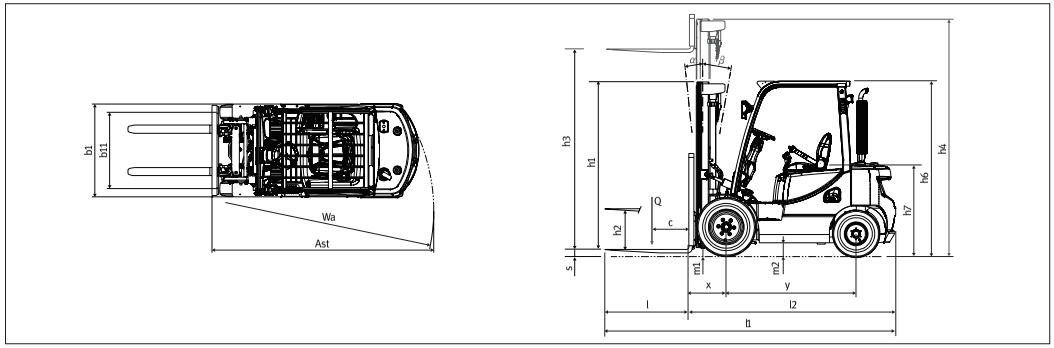

D33S-7

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities								
					D33S-7								
					Tilt Angle						Load Capacities		
			With Load Backrest	With Load Backrest	Single Pneu.		Double Pneu		Single Solid		Single Pneu.	Double Pneu	Single Solid
					FWD	BWD	FWD	BWD	FWD	BWD	LC 500mm	LC 500mm	LC 500mm
	mm	mm	mm	mm	deg	deg	deg	deg	deg	deg	kg	kg	kg
STD	2,030	1,565	3,290	152	6	10	6	10	6	10	3,250	3,250	3,250
	2,580	1,840	3,840	152	6	10	6	10	6	10	3,250	3,250	3,250
	2,950	2,025	4,210	152	6	10	6	10	6	10	3,250	3,250	3,250
	3,230	2,165	4,490	152	6	10	6	10	6	10	3,250	3,250	3,250
	3,500	2,415	4,765	152	6	10	6	10	6	10	3,250	3,250	3,250
	3,800	2,565	5,065	152	6	10	6	10	6	10	3,250	3,250	3,250
	3,950	2,640	5,215	152	6	10	6	10	6	10	3,175	3,250	3,250
	4,350	2,840	5,615	152	6	5	6	10	6	10	3,175	3,250	3,250
	4,960	3,140	6,215	152	6	3	6	10	6	8	2,450	3,125	3,200
FF	2,580	1,840	3,840	640	6	10	6	10	6	10	3,250	3,250	3,250
	2,950	2,025	4,210	825	6	10	6	10	6	10	3,250	3,250	3,250
	3,230	2,165	4,490	965	6	10	6	10	6	10	3,250	3,250	3,250
	3,600	2,415	4,865	1,215	6	10	6	10	6	10	3,250	3,250	3,250
FFT	3,900	1,890	5,165	690	6	8	6	8	6	8	3,250	3,250	3,250
	4,290	2,025	5,570	825	6	8	6	8	6	8	3,250	3,250	3,250
	4,730	2,165	5,990	965	6	3	6	8	6	8	2,900	3,175	3,250
	5,560	2,515	6,815	1,315	6	3	6	8	6	5	1,750	2,975	3,050
	6,010	2,665	7,265	1,465	6	3	6	5	6	3	1,350	2,875	2,950

D35C-7

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities								
					D35S-7								
					Tilt Angle						Load Capacities		
			With Load Backrest	With Load Backrest	Single Pneu.		Double Pneu		Single Solid		Single Pneu.	Double Pneu	Single Solid
					FWD	BWD	FWD	BWD	FWD	BWD	LC 500mm	LC 500mm	LC 500mm
	mm	mm	mm	mm	deg	deg	deg	deg	deg	deg	kg	kg	kg
STD	1,800	1,565	3,290	152	6	10	6	10	6	10	3,500	3,500	3,500
	2,350	1,840	3,610	152	6	10	6	10	6	10	3,500	3,500	3,500
	2,720	2,025	3,980	152	6	10	6	10	6	10	3,500	3,500	3,500
	3,000	2,165	4,260	152	6	10	6	10	6	10	3,500	3,500	3,500
	3,495	2,415	4,760	152	6	10	6	10	6	10	3,500	3,500	3,500
	3,655	2,565	4,915	152	6	10	6	10	6	10	3,500	3,500	3,500
	3,805	2,640	5,065	152	6	10	6	10	6	10	3,500	3,500	3,500
	4,205	2,840	5,465	152	6	8	6	10	6	10	3,425	3,425	3,500
	4,805	3,140	6,065	152	6	3	6	8	6	8	3,250	3,275	3,375
FF	2,350	1,840	3,610	640	6	10	6	10	6	10	3,500	3,500	3,500
	2,720	2,025	3,980	825	6	10	6	10	6	10	3,500	3,500	3,500
	3,000	2,165	4,260	965	6	10	6	10	6	10	3,500	3,500	3,500
	3,495	2,415	4,755	1,215	6	10	6	10	6	10	3,500	3,500	3,500
FFT	3,555	1,890	4,815	690	6	8	6	8	6	8	3,400	3,400	3,400
	3,960	2,025	5,220	825	6	8	6	8	6	8	3,400	3,400	3,400
	4,380	2,165	5,640	965	6	5	6	8	6	8	3,375	3,375	3,400
	4,820	2,335	6,085	1,135	6	3	6	8	6	8	3,250	3,250	3,350
	5,205	2,515	6,465	1,315	6	3	6	8	6	5	2,600	3,150	3,250
	5,655	2,665	6,915	1,465	6	3	6	8	6	3	1,975	3,050	3,150

Note: These load capacities are based on the standard chassis without side shifter.

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7-Series Forklifts

Pneumatic Diesel 2.0 to 3.5 ton Series

D20/25/30/33S-7, D35C-7
Euro Stage IIIB

Building your tomorrow today

Technical Data according to VDI 2198

Characteristics	1.1	Manufacturer			Doosan	Doosan	Doosan	Doosan	Doosan
	1.2	Model			D20S-7	D25S-7	D30S-7	D33S-7	D35C-7
	1.3	Drive			diesel	diesel	diesel	diesel	diesel
	1.4	Operator type			seated	seated	seated	seated	seated
	1.5	Load Capacity	Q	kg	2,000	2,500	3,000	3,250	3,500
	1.6	Load Center	c	mm	500	500	500	500	500
	1.8	Load Distance: Center of Drive axle to fork	x	mm	480	480	485	485	495
	1.9	Wheelbase	y	mm	1,625	1,625	1,700	1,700	1,700
Weight	2.1	Service weight		kg	3,690	4,065	4,565	4,750	4,915
	2.2	Axle Loading, loaded, front/rear		kg	4,965/725	5,695/870	6,575/990	6,960/1,040	7,355/1,060
	2.3	Axle Loading, unloaded, front/rear		kg	1,750/1,940	1,680/2,385	1,870/2,695	1,825/2,925	1,805/3,110
Tyres	3.1	Tyres: pneumatic (P), solid (E)			P/E	P/E	P/E	P/E	P/E
	3.2	Tyre size, Front			7.00x15-12	7.00x15-12	28x9x15-12	28x9x15-12	250x15-18
	3.3	Tyre size, Rear			6.50x10-10	6.50x10-10	6.50x10-10	6.50x10-12	6.50x10-12
	3.5	Wheels, number Front/Rear (x = driven wheels)			2x/2	2x/2	2x/2	2x/2	2x/2
	3.6	Tread, Front	b11	mm	975	975	982	982	1,026
	3.7	Tread, Rear	b12	mm	1,000	1,000	1,000	1,000	1,000
Dimensions	4.1	Tilt of Mast/Fork carriage Forward/Backward	α/β	°	6/10	6/10	6/10	6/10	6/10
	4.2	Height, Mast lowered	h1	mm	2,175	2,175	2,165	2,165	2,165
	4.3	Free Lift	h2	mm	147	147	152	152	152
	4.4	Lift	h3	mm	3,230	3,230	3,230	3,230	3,000
	4.5	Height, Mast Extended	h4	mm	4,490	4,490	4,490	4,490	4,260
	4.7	Height of Overhead Guard (Cabin)	h6	mm	2,183	2,183	2,183	2,183	2,183
	4.8	Height of Seat	h7	mm	1,026	1,026	1,026	1,026	1,026
	4.19	Overall Length	l1	mm	3,565	3,630	3,744	3,774	3,809
	4.20	Length to Forkface	l2	mm	2,530	2,595	2,700	2,730	2,765
	4.21	Overall Width	b1/b2	mm	1,170	1,170	1,197	1,197	1,255
	4.22	Fork Dimensions	s/e/l	mm	40X100X1,050	40X100X1,050	45X125X1,050	45X125X1,050	45X125X1,050
	4.23	Fork carriage ISO 2328, class/type A,B			II/A	II/A	III/A	III/A	III/A
	4.24	Fork carriage width	b3	mm	1,103	1,103	1,115	1,115	1,115
	4.31	Ground Clearance, loaded, 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 width for pallets 1,000 x 1,200 crossways	Ast	mm	3,900	3,945	4,050	4,080	4,115
	4.34.2	Aisle width for pallets 800 x 1,200 lengthways	Ast	mm	4,100	4,145	4,250	4,280	4,315
	4.35	External Turning Radius	Wa	mm	2,220	2,265	2,365	2,395	2,420
	4.36	Internal Turning Radius	b13	mm	775	775	761	761	761
Performance data	5.1	Travel Speed, loaded/unloaded		km/h	21/22	21/22	20/21	20/21	20/21
	5.2	Lift Speed, loaded/unloaded		m/s	0.53/0.58	0.52/0.58	0.51/0.58	0.48/0.54	0.47/0.54
	5.3	Lowering Speed, loaded/unloaded		m/s	0.50/0.45	0.50/0.45	0.50/0.45	0.50/0.45	0.50/0.45
	5.5	Drawbar pull, loaded/unloaded (@ 1.6km/h)		N	17,540/17,250	17,540/17,410	18,230/17,850	18,130/17,870	17,440/17,220
	5.6	Max. Drawbar pull, loaded/unloaded		N	19,580/19,130	19,610/19,330	20,520/19,880	20,410/19,910	19,630/19,130
	5.7	Gradeability, loaded/unloaded (@ 1.6km/h)		%	33.0/54.4	28.0/48.6	25.5/43.5	24.0/41.6	22.0/39.1
	5.8	Max. Gradeability, loaded/unloaded		%	37.5/62.3	30.4/53.3	28.8/49.6	27.0/47.3	24.8/44.2
	5.10	Service Brake			foot/hydraulic	foot/hydraulic	foot/hydraulic	foot/hydraulic	foot/hydraulic
Combustion Engine	7.1	Engine Manufacturer/type			Doosan/ D24NAP	Doosan/ D24NAP	Doosan/ D24NAP	Doosan/ D24NAP	Doosan/ D24NAP
	7.2	Engine power according to DIN ISO1585		kW	46	46	46	46	46
	7.3	Rated Speed		min-1	2,200	2,200	2,200	2,200	2,200
	7.3.1	Torque at 1/min		N•m	262/1,600	262/1,600	262/1,600	262/1,600	262/1,600
	7.4	Number of Cylinders/Displacement		-/cm3	4/2,392	4/2,392	4/2,392	4/2,392	4/2,392
	7.10	Battery Voltage/normal capacity		V/Ah	12/85	12/85	12/85	12/85	12/85
Addition Data	10.1	Operating pressure for attachments		bar	156	156	156	156	156
	10.2	Oil flow for attachments		l/min	26	26	26	26	26
	10.4	Fuel Tank Capacity		l	51	51	51	51	51
	10.7	Sound level at th driver's ear according to EN 12 053		dB(A)	80	80	80	80	80

Note: Specification values quoted in this specification sheet have been rounded. Performance may vary depending on operating conditions.
Products and specifications are subject to improvement and change without prior notice.

MAST SPECIFICATION and RATED CAPACITIES

D20S-7

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities								
					D20S-7								
					Tilt Angle						Load Capacities		
			With Load Backrest	With Load Backrest	Single Pneu.		Double Pneu		Single Solid		Single Pneu.	Double Pneu	Single Solid
					FWD	BWD	FWD	BWD	FWD	BWD	LC 500mm	LC 500mm	LC 500mm
	mm	mm	mm	mm	deg	deg	deg	deg	deg	deg	kg	kg	kg
STD	2,030	1,575	3,290	147	6	10	6	10	6	10	2,000	2,000	2,000
	2,580	1,850	3,840	147	6	10	6	10	6	10	2,000	2,000	2,000
	2,950	2,035	4,210	147	6	10	6	10	6	10	2,000	2,000	2,000
	3,230	2,175	4,490	147	6	10	6	10	6	10	2,000	2,000	2,000
	3,500	2,425	4,765	147	6	10	6	10	6	10	2,000	2,000	2,000
	3,800	2,575	5,065	147	6	10	6	10	6	10	2,000	2,000	2,000
	3,950	2,650	5,215	147	6	10	6	10	6	10	2,000	2,000	2,000
	4,350	2,850	5,615	147	6	10	6	10	6	10	2,000	2,000	2,000
	4,960	3,150	6,215	147	6	5	6	10	6	10	1,900	1,925	1,975
FF	2,580	1,850	3,840	645	6	10	6	10	6	10	2,000	2,000	2,000
	2,950	2,035	4,210	830	6	10	6	10	6	10	2,000	2,000	2,000
	3,230	2,175	4,490	970	6	10	6	10	6	10	2,000	2,000	2,000
	3,600	2,425	4,865	1,220	6	10	6	10	6	10	2,000	2,000	2,000
FFT	3,900	1,875	5,165	670	6	8	6	8	6	8	2,000	2,000	2,000
	4,290	2,015	5,570	805	6	8	6	8	6	8	2,000	2,000	2,000
	4,730	2,150	5,990	945	6	8	6	8	6	8	1,950	1,950	2,000
	4,805	2,175	6,065	970	6	5	6	8	6	8	1,950	1,925	2,000
	5,560	2,500	6,815	1,295	6	3	6	8	6	8	1,650	1,825	1,875
	6,010	2,650	7,265	1,445	6	3	6	8	6	5	1,300	1,750	1,825

D25S-7

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities								
					D25S-7								
					Tilt Angle						Load Capacities		
			With Load Backrest	With Load Backrest	Single Pneu.		Double Pneu		Single Solid		Single Pneu.	Double Pneu	Single Solid
					FWD	BWD	FWD	BWD	FWD	BWD	LC 500mm	LC 500mm	LC 500mm
	mm	mm	mm	mm	deg	deg	deg	deg	deg	deg	kg	kg	kg
STD	2,030	1,575	3,290	147	6	10	6	10	6	10	2,500	2,500	2,500
	2,580	1,850	3,840	147	6	10	6	10	6	10	2,500	2,500	2,500
	2,950	2,035	4,210	147	6	10	6	10	6	10	2,500	2,500	2,500
	3,230	2,175	4,490	147	6	10	6	10	6	10	2,500	2,500	2,500
	3,500	2,425	4,765	147	6	10	6	10	6	10	2,500	2,500	2,500
	3,800	2,575	5,065	147	6	10	6	10	6	10	2,500	2,500	2,500
	3,950	2,650	5,215	147	6	10	6	10	6	10	2,500	2,500	2,500
	4,350	2,850	5,615	147	6	5	6	10	6	10	2,500	2,500	2,500
	4,960	3,150	6,215	147	6	3	6	10	6	10	2,075	2,450	2,500
FF	2,580	1,850	3,840	645	6	10	6	10	6	10	2,500	2,500	2,500
	2,950	2,035	4,210	830	6	10	6	10	6	10	2,500	2,500	2,500
	3,230	2,175	4,490	970	6	10	6	10	6	10	2,500	2,500	2,500
	3,600	2,425	4,865	1,220	6	10	6	10	6	10	2,500	2,500	2,500
FFT	3,900	1,875	5,165	670	6	8	6	8	6	8	2,500	2,500	2,500
	4,290	2,015	5,570	805	6	5	6	8	6	8	2,500	2,500	2,500
	4,730	2,150	5,990	945	6	3	6	8	6	8	2,450	2,500	2,500
	4,805	2,175	6,065	970	6	3	6	8	6	8	2,350	2,475	2,475
	5,560	2,500	6,815	1,295	6	3	6	8	6	8	1,525	2,325	2,400
	6,010	2,650	7,265	1,445	6	3	6	8	6	5	1,175	2,250	2,300

D30S-7

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities								
					D30S-7								
					Tilt Angle						Load Capacities		
			With Load Backrest	With Load Backrest	Single Pneu.		Double Pneu		Single Solid		Single Pneu.	Double Pneu	Single Solid
					FWD	BWD	FWD	BWD	FWD	BWD	LC 500mm	LC 500mm	LC 500mm
	mm	mm	mm	mm	deg	deg	deg	deg	deg	deg	kg	kg	kg
STD	2,030	1,565	3,290	152	6	10	6	10	6	10	3,000	3,000	3,000
	2,580	1,840	3,840	152	6	10	6	10	6	10	3,000	3,000	3,000
	2,950	2,025	4,210	152	6	10	6	10	6	10	3,000	3,000	3,000
	3,230	2,175	4,490	152	6	10	6	10	6	10	3,000	3,000	3,000
	3,500	2,415	4,765	152	6	10	6	10	6	10	3,000	3,000	3,000
	3,800	2,565	5,065	152	6	10	6	10	6	10	3,000	3,000	3,000
	3,950	2,640	5,215	152	6	10	6	10	6	10	3,000	3,000	3,000
	4,350	2,840	5,615	152	6	5	6	10	6	10	3,000	3,000	3,000
	4,960	3,140	6,215	152	6	3	6	10	6	10	2,525	2,900	2,975
FF	2,580	1,840	3,840	640	6	10	6	10	6	10	3,000	3,000	3,000
	2,950	2,025	4,210	825	6	10	6	10	6	10	3,000	3,000	3,000
	3,230	2,165	4,490	965	6	10	6	10	6	10	3,000	3,000	3,000
	3,600	2,415	4,865	1,215	6	10	6	10	6	10	3,000	3,000	3,000
FFT	3,900	1,890	5,165	690	6	8	6	8	6	8	2,900	2,900	2,900
	4,290	2,025	5,570	825	6	8	6	8	6	8	2,900	2,900	2,900
	4,730	2,165	5,990	965	6	3	6	8	6	8	2,900	2,900	2,900
	4,805	2,190	6,065	990	6	3	6	8	6	8	2,825	2,900	2,900
	5,560	2,515	6,815	1,315	6	3	6	8	6	5	1,850	2,750	2,825
	6,010	2,665	7,265	1,465	6	3	6	5	6	3	1,425	2,675	2,750

Note: These load capacities are based on the standard chassis without side shifter.