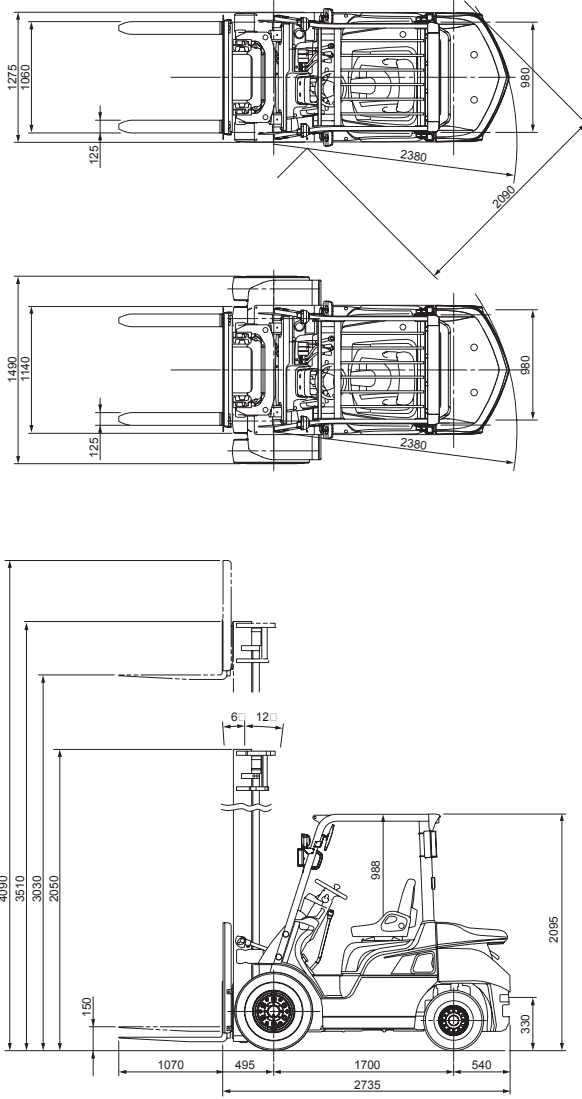
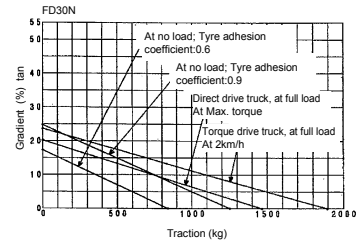
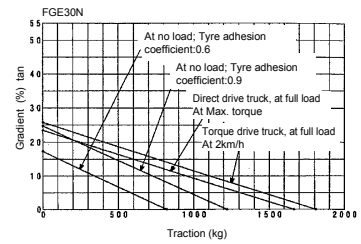
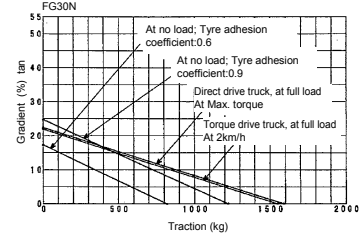


# Specifications/Performance of Standard Forklift Trucks (FG30N, FGE30N, FD30N)

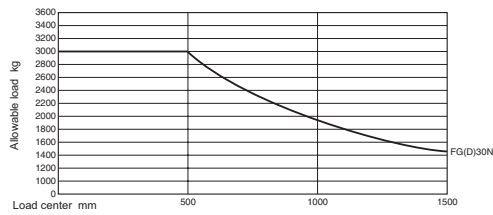
External view



Gradient-traction curve



Maximum load curve



Comparison of 3-ton forklift truck specifications																
Specifications	Manufacturer			Mitsubishi Grendia		Toyota Geneo		Komatsu Leo NEXT		Nissan AGRES		TCM		Sumitomo		
		Model		FGE30N	FD30N	FG30	FD30	FG30	FD30	FG30	FD30	FG30	FD30	FG30	FD30	
	Rated load		kg	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000		
	Load center		mm	500	500	500	500	500	500	500	500	500	500	500		
	Type			Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel	
	Driver position			Seating type	Seating type	Seating type	Seating type	Seating type	Seating type	Seating type	Seating type	Seating type	Seating type	Seating type	Seating type	
	Tyre type	P = Pneumatic tyre C = Solid tyre (no puncture tyre)	Front	P	P	P	P	P	P	P	P	P	P	P	P	
			Rear	P	P	P	P	P	P	P	P	P	P	P	P	
	No. of wheels		Front	2	2	2	2	2	2	2	2	2	2	2	2	
			Rear	2	2	2	2	2	2	2	2	2	2	2	2	
	Market			Japan	Japan	Japan	Japan	Japan	Japan	Japan	Japan	Japan	Japan	Japan	Japan	
Major dimensions	Max. fork height with rated load (2-post mast)		mm	4000	4000	4500	4500	4000	4000	4000	4000	4000	4000	4000	4000	
	Fork height	Max. fork height	mm	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	
		Free fork height (mast height)	mm	145	145	135	135	155	155	155	155	135	135	160	160	
		Free fork height (vehicle height)	mm	-	-	-	-	285	285	-	-	-	-	-	-	
		Backrest outer width	mm	-	-	-	-	-	-	-	-	-	-	-	-	
		Fork	Thickness x width x length	mm	50X125X1070	50X125X1070	45X120X1070	45X120X1070	-X122X1070	-X122X1070	45X122X1070	45X122X1070	45X125X1070	45X125X1070	-X125X1070	-X125X1070
		Fork outer width	mm	250-1000	250-1000	-	-	245-1060	245-1060	-	-	-	-	-	250-1060	250-1060
		Mast tilt angle	Forward/backward	deg	6	6	6	6	6	6	6	6	6	6	6	6
			Backward	deg	12	12	12	12	12	12	12	12	12	12	12	12
	External dimension	Overall length	mm	3805	3805	3815	3815	3775	3775	3775	3780	3780	3730	3730	3775	3775
Overall width		mm	1275	1275	1240	1240	1250	1250	1255	1255	1255	1225	1225	1235	1235	
		Single tyre	mm	1490	1490	1470	1470	1520	1520	1495	1495	1520	1520	1460	1460	
		Double tyre	mm	1710	1710	-	-	-	-	1665	1665	-	-	-	-	
		Special double tyre	mm	2015	2015	2020	2020	2015	2015	2025	2025	2075	2075	2045	2045	
		Mast lowered	mm	4055	4055	4070	4070	4280	4280	4140	4140	4250	4250	4105	4105	
		Mast extended (with BR)	mm	3690	3690	-	-	-	-	-	-	-	-	-	-	
		Mast extended (without BR)	mm	2093	2093	2120	2120	2090	2090	2150	2150	2090	2090	2135	2135	
		Overhead guard	mm	-	-	1075	1075	-	-	-	-	-	-	-	-	
		Seat	mm	2380	2380	2400	2400	2370	2370	2300	2300	2400	2400	2390	2390	
	Min. turning radius	mm	495	495	485	485	490	490	490	490	480	480	480	480		
	Front overhang	mm	4170	4170	-	-	4160	4160	-	-	3720	-	-	-		
	Practical right angle stacking aisle	mm	2325	2325	2085	2085	2325	2325	-	-	-	-	-	-		
	Practical intersecting aisle	mm	-	-	-	-	-	-	-	-	-	-	-	-		
Performance	Travel speed	Torque converter truck	Loaded	km/h	19	19	18.5	19	18.5	19	19.5	19	-	-	-	
			Empty	km/h	19.5	19.5	19	19.5	19.5<19>	19.5	19.5	19	19.5	19.5	19.5	19.5
		Direct transmission truck	Loaded	km/h	19	19	18.5	19	18.5	18.5	19.5	19	-	-	-	
			Empty	km/h	19.5	19.5	19	19.5	19.5<19>	19	19.5	19	19.5	19.5	19.5	19
	Lift speed	Rising speed	Loaded	mm/s	510	-	-	-	-	-	530	-	-	-	-	
			Empty	mm/s	530	-	-	-	-	-	580	-	-	-	-	
		(Electronically-controlled gasoline engine truck)														
		Rising speed	Loaded	mm/s	-	500	510	550	450(515)	520<550>	500	540	450<500>	450<530>	AT:515 MT:495	AT:570 MT:565
			Empty	mm/s	-	530	570	570	500(550)	555<590>	560	580	500<520>	470<550>	-	-
		Lowering speed	Loaded	mm/s	530	530	500	500	400	400	-	-	450	450	-	
		Empty	mm/s	500	500	500	500	500	500	-	-	450	450	-		
Traction	Max. traction (Torque converter truck)	Loaded	N kgf	18600 1900	19300(1970)	18000	19500	1370 13400<1780 17500>	1790 17500<2130 20900>	-	-	-	-	-	-	
	Max. traction (Direct transmission truck)	Loaded	N kgf	16300 1660	19000(1940)	9800	9800	-	-	-	-	-	-	-	-	
	Max. traction (Torque converter truck)	Loaded	N kgf	-	14400(1460)	16500	19500	1340 13100<1840 18000>	1680 16500<2110 20700>	-	-	-	-	-	-	
	Max. traction (Direct transmission truck)	Loaded	N kgf	-	14300(1460)	9800	9800	-	-	-	-	-	-	-	-	
Gradability	Max. gradability (Torque converter truck)	Loaded	%	27	-	25	26	-	-	-	-	-	-	-	-	
	Max. gradability (Direct transmission truck)	Loaded	%	24	-	19	19	-	-	-	-	-	-	-	-	
	Max. gradability (Torque converter truck)	Loaded	%	-	25	22	26	-	-	-	-	-	-	-	-	
	Max. gradability (Direct transmission truck)	Loaded	%	-	20	19	19	-	-	-	-	-	-	-	-	
Weight	Vehicle weight	Torque converter truck (single tyre)	kg	4250	4360	4340	4450	4280	4390	4230	4290	4200<4210>	4310<4340>	4230	4355	
		Direct transmission truck (single tyre)	kg	4290	4400	4340	4450	4280	4390	4230	4290	4200<4210>	4310<4340>	4195	4325	
		Torque converter truck (double tyre)	kg	4280	4390	4370	4480	4330	4440	4235	4295	-	-	4285	4410	
		Direct transmission truck (double tyre)	kg	4320	4430	4370	4480	4330	4440	-	-	-	-	4250	4380	
		Torque converter truck (special double tyre)	kg	-	-	-	-	-	-	4295	4355	-	-	-	-	
		Direct transmission truck (special double tyre)	kg	-	-	-	-	-	-	-	-	-	-	-	-	
Vehicle dimension	tyre size	Single tyre	in	28X9-15-12PR	28X9-15-12PR	28x9-15-12PR	28x9-15-12PR	28X9-15-12PR	28X9-15-12PR	28X9-15-12PR	28X9-15-12PR	28X9-15-12PR	28X9-15-12PR	28x9-15-12PR	28x9-15-12PR	
		Double tyre	in	6.00-15-10PR	6.00-15-10PR	6.00-15-10PR	6.00-15-10PR	6.00-15-10PR	6.00-15-10PR	6.00-15-10PR	6.00-15-10PR	6.00-15-10PR	-	6.00-15-10PR	6.00-15-10PR	
		Special double tyre	in	28X9-15-12PR	28X9-15-12PR	-	-	-	-	28X9-15-12PR	28X9-15-12PR	-	-	-	-	
		Rear tyre	in	6.50-10-10PR	6.50-10-10PR	6.5-10-10PR	6.5-10-10PR	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR	6.5-10-10PR	6.5-10-10PR	
	Wheelbase	mm	1700	1700	1700	1700	1650	1650	1700	1700	1700	1700	1700	1700	1700	
	Tread	Front wheel (single tyre)	mm	1060	1060	1010	1010	1025	1025	1030	1030	1000	1000	1010	1010	
		Front wheel (double tyre)	mm	1140	1140	1105	1105	1150	1150	1140	1140	1170	1170	1105	1105	
		Front wheel (special double tyre)	mm	1200.5	1200.5	-	-	-	-	1210	1210	-	-	-	-	
		Rear wheel	mm	980	980	965	965	965	965	980	980	970	970	990	990	
		Ground clearance	Mast	mm	135	135	-	-	135	135	145	145	140	140	145	145
		Center of wheelbase	mm	190	190	140	140	180	180	-	-	-	-	-	-	
	Brake type			Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	
	Parking brake type			Hand type	Hand type	Hand type	Hand type	Hand type	Hand type	Hand type	Hand type	Hand type	Hand type	Hand type	Hand type	
Electronically-controlled engine	Model			K25E	-	-	-	-	-	K25E	-	-	-	-	-	
	Rated output	PS [kW]		58.6[43.1]	-	-	-	-	-	63.5[47]	-	-	-	-	-	
		rpm		2700	-	-	-	-	-	2700	-	-	-	-	-	
	Max. torque	kgf[Nm]		17[167]	-	-	-	-	-	19.6[192]	-	-	-	-	-	
		rpm		1600	-	-	-	-	1600	-	-	-	-	-		
Engine/Transmission	Engine	Model		S4S	Toyota4Y	Toyota2Z	H20 II <H25>	4D94E<4D98E>	K25	S4S	H20<H25>	C420<V3300>	F2	HA		
	Rated output	PS [kW]		49.1 [38.1]	58 43	66 49	47 34.6<58 42.6>	63 46.3<72 53>	55 40	60 44	44 32.3<58 42.7>	52 38.3<67 50>	54 39.7	66 48.5		
		rpm		2250	2600	2200	2450<2400>	2450<2400>	2300	2400	2300<2400>	2500	2450	2450		
	Max. torque	kgf[Nm]		18.9 [185]	16.5 161	22 215	15.5 152<19 186.3>	19 186.3<22 215.6>	19 186	18.7 183	14.5 142.1<18.3 179.3>	15.7 153.9<23.1 226.4>	16 157	20 196		
		rpm		1700	1800	1600	1600	1800<1700>	1600	1800	1600	1800	1600	1600		
	No. of cylinders			4	4	4	4	4	4	4	4	4	4	4		
	Total displacement	cc		2488	3331	2237	3469	1982<2472>	2775<3318>	2488	3331	1982<2472>	2369<3318>	2184	2977	
Fuel tank capacity	l		66	66	65	65	63	63	-	-	-	-	-	-		
Transmission	Type			Torque converter/ Direct transmission	Torque converter/ Direct transmission	Torque converter/ Direct transmission	Torque converter/ Direct transmission	Torque converter/ Direct transmission	Torque converter/ Direct transmission	Torque converter/ Direct transmission	Torque converter/ Direct transmission	Torque converter/ Direct transmission	Torque converter/ Direct transmission	Torque converter/ Direct transmission	Torque converter/ Direct transmission	
	No. of gears			AT:1 MT:2	AT:1 MT:2	AT:1 MT:2	AT:1 MT:2	AT:1 MT:2	AT:1 MT:2	AT:1 MT:2	AT:1 MT:2	AT:1 MT:2	AT:1 MT:2	AT:1 MT:2	AT:1 MT:2	