

KOMATSU

AX50 1.0-1.75ton
Series

Model: FG10T-20

FG10C-20

FD10T-20

FD10C-20

KOMATSU FORKLIFT

● STANDARD SPECIFICATIONS

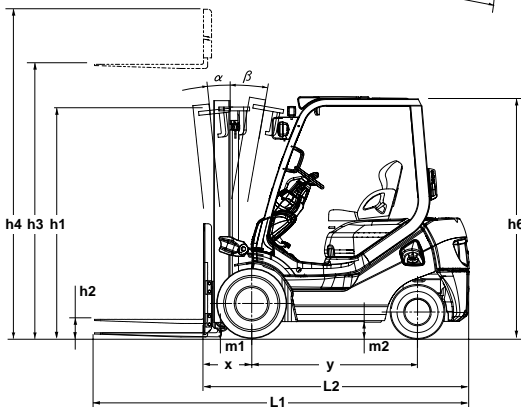
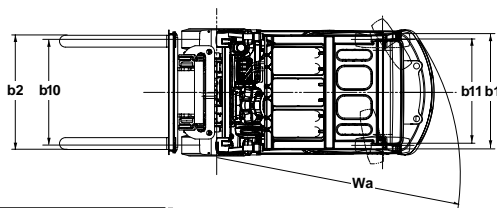
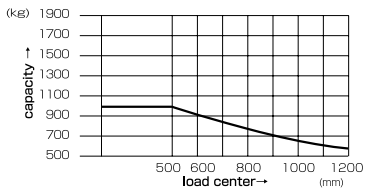
	Characteristics		Manufacturer's Designation		FG10T-20	FG10C-20	FD10T-20	FD10C-20
	1.2	Model						
1.3	Power Type	Electric, Diesel, Gasoline, LPG, Cable		Gasoline		Diesel		
1.4	Operation Type			Sitting		Sitting		
1.5	Rated Capacity	Q		kg	1000	1000		
1.6	Load Center	c		mm	500	500		
1.6.1	Alternative Capacity	Q2	Capacity @600mm Load Center	kg	900	900		
1.8	Load Distance	x	Front Axle Center to Fork Face	mm	400	400		
1.9	Wheelbase	y		mm	1400		1400	
2.1	Service Weight			kg	2080	2120	2180	2220
2.2	Axle Loading	Loaded	Front	kg	2725	2760	2760	2790
2.2.1			Rear	kg	355	360	420	430
2.3		Unloaded	Front	kg	1065	1100	1095	1130
2.3.1			Rear	kg	1015	1020	1085	1090
3.1		Tyre Type			Pneumatic		Pneumatic	
3.2	Tyre Size	Front		6.50-10-10PR(I)		6.50-10-10PR(I)		
3.3		Rear		5.00- 8- 8PR(I)		5.00-8-8PR(I)		
3.5	Number of Wheels	Front/Rear(x=driven)		2/2		2/2		
3.6	Tread, Front	b ₁₀		mm	890	890		
3.7	Tread, Rear	b ₁₁		mm	895	895		
4.1	Tilting Angle	α/β	Forward/Backward	degree	6/10	6/10		
4.2	Mast Height, Lowered	h ₁	2-stage Std. Mast	mm	1995	1995		
4.3	Std. Free Lift	h ₂	2-stage Std. Mast from Ground	mm	135	135		
4.4	Std. Lift Height	h ₃	2-stage Std. Mast from Ground	mm	3000	3000		
4.5	Mast Height, Extended	h ₄	2-stage Std. Mast	mm	3955	3955		
4.7	Height, Overhead Guard	h ₆		mm	2030	2030		
4.19	Length, with Std. Forks	L ₁		mm	2965	2965		
4.20	Length, to Fork Face	L ₂		mm	2195	2195		
4.21	Width, at Tyre	b ₁	Single	mm	1070	1070		
4.22	Forks	s/e/l	Thickness/Width/Length	mm	31x100x770		31x100x770	
4.23	Fork Carriage Class	ISO 2328, Type A/B/no			Class 2, type A		Class 2, type A	
4.24	Width, Fork Carriage	b ₂		mm	970	970		
4.31	Ground Clearance	m ₁	Under Mast	mm	120	120		
4.32		m ₂	at Center of Wheelbase	mm	130	130		
4.33	Right Angle Stacking Aisle	Ast	with L1000xW1200 pallet	mm	3315*	3315*		
4.34		Ast	with L1200xW800 pallet	mm	3515*	3515*		
4.35	Turning Radius	Wa		mm	1915	1915		
Performance	5.1	Travel Speed (FWD)	Loaded,1st/2nd	km/h	19.0	9.0/19.0	19.0	8.5/19.0
			Unloaded,1st/2nd	km/h	19.0	9.0/19.0	19.5	8.5/19.5
	5.2	Lifting Speed	Loaded	mm/s	580		620	
			Unloaded	mm/s	640		670	
	5.3	Lowering Speed	Loaded	mm/s	500		500	
			Unloaded	mm/s	550		550	
	5.6	Max. Drawbar Pull	Loaded, 1.5km/h, 3min rating	KN	10	11	13	14
	5.8	Max. Gradeability	Loaded, 1.5km/h, 3min rating	%	34	38	49	41
	5.10	Service Brake	Operation/Control		Foot/Hydraulic		Foot/Hydraulic	
	5.11	Parking Brake	Operation/Control		Hand/Mechanical		Hand/Mechanical	
5.12	Steering	Type		FHPS		FHPS		
6.4	Battery	Voltage/Capacity at 5-hour rating		V/ah	12/33	12/64		
I.C. Engine	7.1	Make / Model			NISSAN K15		Komatsu 4D92E	
	7.2	Rated Output, SAE net			KW		27.2@2500	
	7.3	Rated RPM			min ⁻¹		2500	
	7.3.1	Max. Torque, SAE net			Nm@min ⁻¹		113@1600	
	7.4	No. of Cylinders/Displacement			cm ³		4-1486	
	7.6	Fuel Tank Capacity			Ltr		40	
	8.2	Relief Pressure for Attachment			bar		172	
8.6	Clutch			T/C		Dry		
8.7	Transmission			TORQFLOW		Synchromesh		

*: Add clearance

T/C: Torque Converter

FG10T-20, FG10C-20, FD10T-20, FD10C-20,

● CAPACITY CHART



● STANDARD EQUIPMENT

- 3.0mH 2-stage free view mast
- Load backrest
- Dual floating Structure
- Soft landing mast system
- Alternator with built-in IC regulator
- Combination switch (turn signal light and light switch)
- Integrated meter panel(Fuel gauge, water temperature gauge, charge warning lamp, hour meter, brake fluid warming lamp, Engine oil pressure gauge, neutral indicator)
- Back-up buzzer
- Auto choke (gasoline)
- New operator's seat with suspension
- Quick auto glow system (diesel)
- Neutral safety mechanism
- Halogen headlight
- Rear combination light
- Cyclone air cleaner

- Engine key stop mechanism (diesel)
- Fully hydrostatic power steering
- Wide angle center mirror

● OPTIONAL EQUIPMENT

- Operator Presence Sensing System (Lifting/Traveling Interlocking Mechanism)
- Steel Cabin
- Protective Resin Head Guard Cover
- Digital Load Checker
- Easy-Replacement Oil Filter
- Mast Tilt angle Meter

AX50 SERIES

● MAST SPECIFICATIONS

2-stage Free View Mast

*mark is the standard mast

Max. Fork Height	Overall Height				Free Lift		Tilting Angle		Capacity at 600mm Load Center		Mast Weight
	Lowered	Extended		Without Load Backrest	With STD Load Backrest	Forward/Backward		Capacity at 500mm Load Center			
		Without Load Backrest	With STD Load Backrest			Front Single Tyre	Front Double Tyre	FG10-20, FD10-20			
		Without Load Backrest	With STD Load Backrest					Front Double Tyres	Pneumatic Single Std. Tread		
mm	mm	mm	mm	mm	mm	degree	kg	kg	kg		
2500	1745	3085	3455	135		6/10	900	1000	900	1000	-28
3000*	1995	3585	3955	135			900	1000	900	1000	380
3300	2145	3885	4255	135			900	1000	900	1000	+17
3500	2245	4085	4455	135			900	1000	900	1000	+28
3700	2345	4285	4655	135			900	1000	900	1000	+43
4000	2545	4585	4955	135			900	1000	900	1000	+83
4300	2695	4885	5255	135		6/6	850	950	850	950	+102
4500	2795	5085	5455	135			850	950	850	950	+113
4700	2920	5285	5655	135			810	900	810	900	+127
5000	3070	5585	5955	135			810	900	810	900	+144

2-stage Full Free View Mast

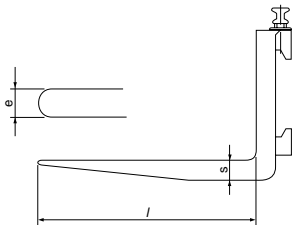
Max. Fork Height	Overall Height				Free Lift		Tilting Angle		Capacity at 600mm Load Center		Mast Weight
	Lowered	Extended		Without Load Backrest	With STD Load Backrest	Forward/Backward		Capacity at 500mm Load Center			
		Without Load Backrest	With STD Load Backrest			Front Single Tyre	Front Double Tyre	FG10-20, FD10-20			
		Without Load Backrest	With STD Load Backrest					Front Double Tyres	Pneumatic Single Std. Tread		
mm	mm	mm	mm	mm	mm	degree	kg	kg	kg		
3000	1995	3595	3965	1430	1060	6/10	900	1000	900	1000	430
3300	2145	3895	4265	1580	1210		900	1000	900	1000	+20
3500	2245	4095	4465	1680	1310		900	1000	900	1000	+35
4000	2545	4595	4965	1980	1610		900	1000	900	1000	+95

3-stage Full Free View Mast

Max. Fork Height	Overall Height				Free Lift		Tilting Angle		Capacity at 600mm Load Center		Mast Weight
	Lowered	Extended		Without Load Backrest	With STD Load Backrest	Forward/Backward		Capacity at 500mm Load Center			
		Without Load Backrest	With STD Load Backrest			Front Single Tyre	Front Double Tyre	FG10-20, FD10-20			
		Without Load Backrest	With STD Load Backrest					Front Double Tyres	Pneumatic Single Std. Tread		
mm	mm	mm	mm	mm	mm	degree	kg	kg	kg		
3700	1795	4315	4685	1230	860	6/6	850	950	850	950	-35
4000	1895	4615	4985	1330	960		810	900	810	900	-20
4300	1995	4915	5285	1430	1060		810	900	810	900	565
4500	2070	5115	5485	1505	1135		810	900	810	900	+15
4700	2145	5315	5685	1580	1210		810	900	810	900	+30
5000	2245	5615	5985	1680	1310		720	800	720	800	+50
5500	2420	6115	6485	1855	1485		720	800	580	650	+80
6000	2595	6615	6985	2030	1660		670	750	400	450	+140

FG10T-20, FG10C-20, FD10T-20, FD10C-20,

● FORK SELECTION

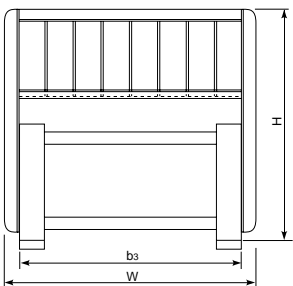


HOOK ON TYPE I
Wt.: Weight of Forks (One Pair) kg

l (mm)	s (mm)	e (mm)	Wt. (kg)
770*	31	100	56
920	35	100	+12
1070	35	100	+20
1150	35	100	+24
1220	35	100	+28
1370	45	100	+54

*mark is the standard fork

● FORK CARRIAGE AND LOAD BACKREST



FG(D)10-20

H	W	b ₃		
		1050	1280	1500
920	○	□	□	□
1070	□	□	□	□
1220	□	□	□	□
1370	□	□	□	□

b₃: Width of fork carriage
H: Height of load backrest
W: Width of load backrest

Note: ○ Standard

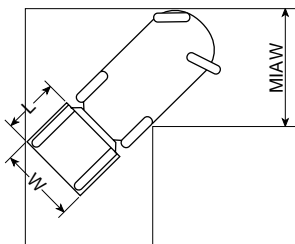
□ Option

Unit: mm

● APPLICABLE TYRE SIZE

		Tyre Size		Rim Size	Tread (mm)	Overall Width (mm)	Additional Weight (kg)
Front	Pneumatic cushion	Single	6.50-10-10PR	5.00Fx10	890	1070	Std.
		Wide Tread	6.50-10-10PR	5.00Fx10TB	921	1097	+6
		DFT	4.50-12-8PR	3.50Dx12DC	1010	1300	+30
		SDFt	6.50-10-10PR	5.00Fx10	1110	1520	+82
		Single	6.50-10	5.00Fx10	890	1070	+46
Rear	Elastic pneumatic cushion	Wide Tread	6.50-10	5.00Fx10TB	921	1097	+56
		DFT	4.50-12	3.00Dx12SDC	1010	1300	+78
		SDFt	6.50-10	5.00Fx10	1110	1520	+174
			5.00-8-8PR	3.00Dx8DT	905		Std.
			5.00-8	3.00Dx8DT	905		+20

● MINIMUM INTERSECTING AISLE



● Minimum Intersecting Aisle Width (MIAW)

PALLET SIZE L x W	FG(D)10-20
800 x 1100	1755
1000 x 1000	1790
1000 x 1100	1805
1000 x 1200	1820
1100 x 1000	1815
1100 x 1100	1825
1100 x 1200	1850
1200 x 1000	1850
1200 x 1100	1870

Unit: mm

Aisle Widths shown in this table are not inclusive any operational clearance.

MEMO

AX50 1.0-1.75ton
Series

Model: FG15T-20

FG15C-20

FG15HT-20

FG15HC-20

FD15T-20

FD15C-20

● STANDARD SPECIFICATIONS

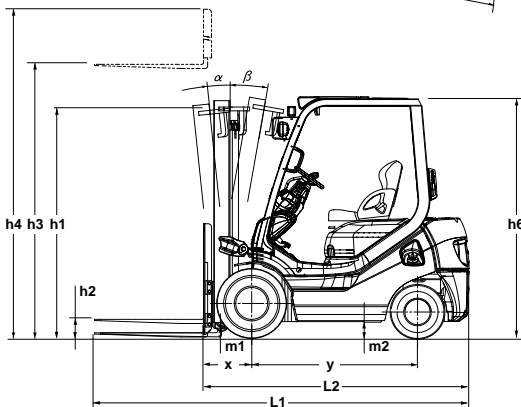
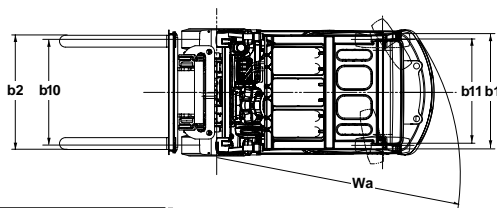
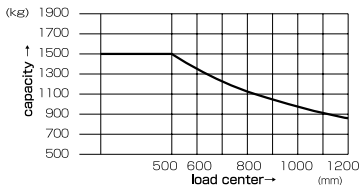
	Characteristics		Manufacturer's Designation		FG15T-20	FG15C-20	FD15T-20	FD15C-20	
	1.2	Model			Gasoline		Diesel		
1.3	Power Type	Electric, Diesel, Gasoline, LPG, Cable							
1.4	Operation Type			Sitting		Sitting			
1.5	Rated Capacity	Q		kg	1500	1500			
1.6	Load Center	c		mm	500	500			
1.6.1	Alternative Capacity	Q2	Capacity @600mm	Load Center	kg	1350	1350		
1.8	Load Distance	x	Front Axle Center to Fork Face	mm	405	405			
1.9	Wheelbase	y		mm	1400	1400			
Weight	2.1	Service Weight		kg	2450	2490	2550	2590	
	2.2	Axle Loading	Loaded	Front	kg	3500	3535	3530	3565
	2.2.1			Rear	kg	450	455	520	525
	2.3		Unloaded	Front	kg	1005	1040	1035	1070
	2.3.1	Rear		kg	1445	1450	1515	1520	
Tyre	3.1	Tyre Type		Pneumatic		Pneumatic			
	3.2	Tyre Size		Front	6.50-10-10PR(I)	6.50-10-10PR(I)			
	3.3			Rear	5.00- 8- 8PR(I)	5.00-8-8PR(I)			
	3.5	Number of Wheels		Front/Rear(x=driven)		2*/2	2*/2		
3.6	Tread, Front	b ₁₀		mm	890	890			
3.7	Tread, Rear	b ₁₁		mm	895	895			
Dimensions	4.1	Tilting Angle	α/β	Forward/Backward	degree	6/10	6/10		
	4.2	Mast Height, Lowered	h ₁	2-stage Std. Mast	mm	1995	1995		
	4.3	Std. Free Lift	h ₂	2-stage Std. Mast from Ground	mm	140	140		
	4.4	Std. Lift Height	h ₃	2-stage Std. Mast from Ground	mm	3000	3000		
	4.5	Mast Height, Extended	h ₄	2-stage Std. Mast	mm	3955	3955		
	4.7	Height, Overhead Guard	h ₆		mm	2030	2030		
	4.19	Length, with Std. Forks	L ₁		mm	3160	3160		
	4.20	Length, to Fork Face	L ₂		mm	2240	2240		
	4.21	Width, at Tyre	b ₁	Single	mm	1070	1070		
	4.22	Forks	s/e/l	Thickness/Width/Length	mm	35x100x920		35x100x920	
	4.23	Fork Carriage Class	ISO 2328, Type A/B/no			Class 2, type A		Class 2, type A	
	4.24	Width, Fork Carriage	b ₂		mm	970	970		
	4.31	Ground Clearance	m ₁	Under Mast	mm	120	120		
4.32	m ₂		at Center of Wheelbase	mm	130	130			
4.33	Right Angle Stacking Aisle	Ast	with L1000xW1200 pallet	mm	3360*	3360*			
4.34		Ast	with L1200xW800 pallet	mm	3560*	3560*			
4.35	Turning Radius	Wa		mm	1955	1955			
Performance	5.1	Travel Speed (FWD)	Loaded,1st/2nd	km/h	18.5	8.5/18.5	18.5	8.5/19.0	
			Unloaded,1st/2nd	km/h	19.0	9.0/19.0	19.0	8.5/19.5	
	5.2	Lifting Speed	Loaded	mm/s	570		620		
			Unloaded	mm/s	640		670		
	5.3	Lowering Speed	Loaded	mm/s	500		500		
			Unloaded	mm/s	550		550		
	5.6	Max. Drawbar Pull	Loaded, 1.5km/h, 3min rating	KN	10	11	13	14	
	5.8	Max. Gradeability	Loaded, 1.5km/h, 3min rating	%	26	27	33	31	
5.10	Service Brake	Operation/Control			Foot/Hydraulic		Foot/Hydraulic		
5.11	Parking Brake	Operation/Control			Hand/Mechanical		Hand/Mechanical		
5.12	Steering	Type			FHPS		FHPS		
6.4	Battery	Voltage/Capacity at 5-hour rating		V/ah	12/33		12/64		
I.C. Engine	7.1	Make / Model			NISSAN K15		Komatsu 4D92E		
	7.2	Rated Output, SAE net		KW	27.2 @ 2500		34.6 @ 2450		
	7.3	Rated RPM		min ⁻¹	2500		2450		
	7.3.1	Max. Torque, SAE net		Nm @ min ⁻¹	113 @ 1600		142 @ 1800		
	7.4	No. of Cylinders/Displacement		cm ³	4-1486		4-2659		
	7.6	Fuel Tank Capacity		Ltr	40		40		
	8.2	Relief Pressure for Attachment		bar	172		172		
8.6	Clutch				T/C	Dry			
8.7	Transmission				TORQFLOW	Synchromesh	TORQFLOW	Synchromesh	

*: Add clearance

T/C: Torque Converter

FG15T-20, FG15C-20, FD15T-20, FD15C-20,

● CAPACITY CHART



● STANDARD EQUIPMENT

- 3.0mH 2-stage free view mast
- Load backrest
- Dual floating Structure
- Soft landing mast system
- Alternator with built-in IC regulator
- Combination switch (turn signal light and light switch)
- Integrated meter panel(Fuel gauge, water temperature gauge, charge warning lamp, hour meter, brake fluid warming lamp, Engine oil pressure gauge, neutral indicator)
- Back-up buzzer
- Auto choke (gasoline)
- New operator's seat with suspension
- Quick auto glow system (diesel)
- Neutral safety mechanism
- Halogen headlight
- Rear combination light
- Cyclone air cleaner

- Engine key stop mechanism (diesel)
- Fully hydrostatic power steering
- Wide angle center mirror

● OPTIONAL EQUIPMENT

- Operator Presence Sensing System (Lifting/Traveling Interlocking Mechanism)
- Steel Cabin
- Protective Resin Head Guard Cover
- Digital Load Checker
- Easy-Replacement Oil Filter
- Mast Tilt angle Meter

● STANDARD SPECIFICATIONS

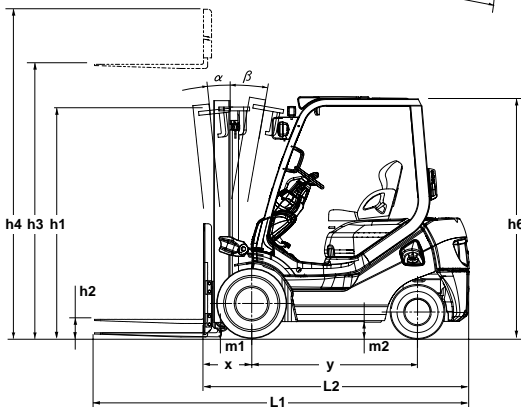
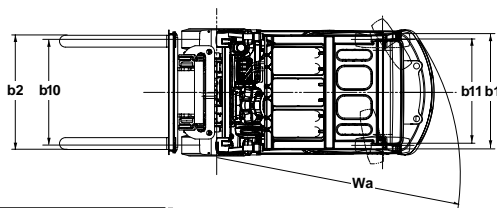
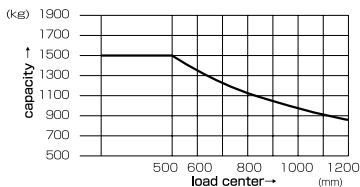
	Characteristics		Manufacturer's Designation		FG15HT-20	FG15HC-20	
	1.2	Model					
1.3	Power Type	Electric, Diesel, Gasoline, LPG, Cable		Gasoline			
1.4	Operation Type			Sitting			
1.5	Rated Capacity	Q		kg	1500		
1.6	Load Center	c		mm	500		
1.6.1	Alternative Capacity	Q ₂	Capacity @600mm Load Center	kg	1350		
1.8	Load Distance	x	Front Axle Center to Fork Face	mm	405		
1.9	Wheelbase	y		mm	1400		
Weight	2.1	Service Weight		kg	2450	2490	
	2.2	Axle Loading	Loaded	Front	kg	3500	3535
	2.2.1			Rear	kg	450	455
	2.3		Unloaded	Front	kg	1005	1040
	2.3.1			Rear	kg	1445	1450
Tyre	3.1	Tyre Type			Pneumatic		
	3.2	Tyre Size	Front		6.50-10-10PR(I)		
	3.3		Rear		5.00- 8- 8PR(I)		
	3.5	Number of Wheels	Front/Rear(x=driven)		2/2		
3.6	Tread, Front	b ₁₀		mm	890		
3.7	Tread, Rear	b ₁₁		mm	895		
Dimensions	4.1	Tilting Angle	α/β	Forward/Backward	degree	6/10	
	4.2	Mast Height, Lowered	h ₁	2-stage Std. Mast	mm	1995	
	4.3	Std. Free Lift	h ₂	2-stage Std. Mast from Ground	mm	140	
	4.4	Std. Lift Height	h ₃	2-stage Std. Mast from Ground	mm	3000	
	4.5	Mast Height, Extended	h ₄	2-stage Std. Mast	mm	3955	
	4.7	Height, Overhead Guard	h ₆		mm	2030	
	4.19	Length, with Std. Forks	L ₁		mm	3160	
	4.20	Length, to Fork Face	L ₂		mm	2240	
	4.21	Width, at Tyre	b ₁	Single	mm	1070	
	4.22	Forks	s _{e/l}	Thickness/Width/Length	mm	35x100x920	
	4.23	Fork Carriage Class	ISO 2328, Type A/B/no			Class 2, type A	
	4.24	Width, Fork Carriage	b ₂		mm	970	
	4.31	Ground Clearance	m ₁	Under Mast	mm	120	
4.32	m ₂		at Center of Wheelbase	mm	130		
4.33	Right Angle Stacking Aisle	Ast	with L1000xW1200 pallet	mm	3360*		
4.34		Ast	with L1200xW800 pallet	mm	3560*		
4.35	Turning Radius	Wa		mm	1955		
Performance	5.1	Travel Speed (FWD)	Loaded, 1st/2nd	km/h	18.5	8.5/18.5	
			Unloaded, 1st/2nd	km/h	19.0	9.0/19.0	
	5.2	Lifting Speed	Loaded	mm/s	590		
			Unloaded	mm/s	640		
	5.3	Lowering Speed	Loaded	mm/s	500		
			Unloaded	mm/s	550		
	5.6	Max. Drawbar Pull	Loaded, 1.5km/h, 3min rating	KN	15	14	
	5.8	Max. Gradeability	Loaded, 1.5km/h, 3min rating	%	37	35	
5.10	Service Brake	Operation/Control		Foot/Hydraulic			
5.11	Parking Brake	Operation/Control		Hand/Mechanical			
5.12	Steering	Type		FHPS			
6.4	Battery	Voltage/Capacity at 5-hour rating		V/ah			
I.C. Engine	7.1	Make / Model			NISSAN K21		
	7.2	Rated Output, SAE net			KW		
	7.3	Rated RPM			34.6@2450		
	7.3.1	Max. Torque, SAE net			min ⁻¹		
	7.4	No. of Cylinders/Displacement			2450		
	7.6	Fuel Tank Capacity			Nm@min ⁻¹		
	7.6	Fuel Tank Capacity			152@1600		
Others	8.2	Relief Pressure for Attachment			cm ³		
	8.6	Clutch			4-2065		
	8.7	Transmission			Ltr		
	8.7	Transmission			40		
8.2	Relief Pressure for Attachment			bar			
8.6	Clutch			172			
8.7	Transmission			T/C			
8.7	Transmission			Dry			
8.7	Transmission			TORQFLOW			
8.7	Transmission			Synchromesh			

*: Add clearance

T/C: Torque Converter

FG15HT-20, FG15HC-20

● CAPACITY CHART



● STANDARD EQUIPMENT

- 3.0mH 2-stage free view mast
- Load backrest
- Dual floating Structure
- Soft landing mast system
- Alternator with built-in IC regulator
- Combination switch (turn signal light and light switch)
- Integrated meter panel(Fuel gauge, water temperature gauge, charge warning lamp, hour meter, brake fluid warming lamp, Engine oil pressure gauge, neutral indicator)
- Back-up buzzer
- Auto choke (gasoline)
- New operator's seat with suspension
- Quick auto glow system (diesel)
- Neutral safety mechanism
- Halogen headlight
- Rear combination light
- Cyclone air cleaner

- Engine key stop mechanism (diesel)
- Fully hydrostatic power steering
- Wide angle center mirror

● OPTIONAL EQUIPMENT

- Operator Presence Sensing System (Lifting/Traveling Interlocking Mechanism)
- Steel Cabin
- Protective Resin Head Guard Cover
- Digital Load Checker
- Easy-Replacement Oil Filter
- Mast Tilt angle Meter

AX50 SERIES

● MAST SPECIFICATIONS

2-stage Free View Mast

*mark is the standard mast

Max. Fork Height	Overall Height			Free Lift		Tilting Angle		Capacity at 600mm Load Center		Mast Weight
	Lowered	Extended		Without Load Backrest	With STD Load Backrest	Forward/Backward		500mm Load Center		
		Without Load Backrest	With STD Load Backrest			Front Single Tyre	Front Double Tyre	FG15-20, FD15-20, FG15H-20		
								Front Double Tyres	Pneumatic Single Std. Tread	
mm	mm	mm	mm	mm	degree	kg	kg	kg		
2500	1745	3085	3455	140	6/10	1350	1500	1350	1500	-28
3000*	1995	3585	3955	140		1350	1500	1350	1500	380
3300	2145	3885	4255	140		1350	1500	1350	1500	+17
3500	2245	4085	4455	140		1350	1500	1350	1500	+28
3700	2345	4285	4655	140		1350	1500	1350	1500	+43
4000	2545	4585	4955	140		1350	1500	1350	1500	+83
4300	2695	4885	5255	140	6/6	1300	1450	1260	1400	+102
4500	2795	5085	5455	140		1300	1450	1260	1400	+113
4700	2920	5285	5655	140		1210	1350	1080	1200	+127
5000	3070	5585	5955	140		1210	1350	1030	1150	+144

2-stage Full Free View Mast

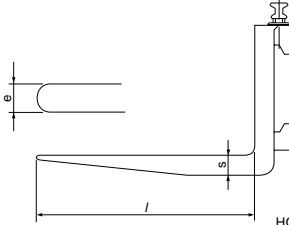
Max. Fork Height	Overall Height			Free Lift		Tilting Angle		Capacity at 600mm Load Center		Mast Weight	
	Lowered	Extended		Without Load Backrest	With STD Load Backrest	Forward/Backward		500mm Load Center			
		Without Load Backrest	With STD Load Backrest			Front Single Tyre	Front Double Tyre	FG15-20, FD15-20, FG15H-20			
								Front Double Tyres	Pneumatic Single Std. Tread		
mm	mm	mm	mm	mm	mm	degree	kg	kg	kg		
3000	1995	3595	3965	1435	1065	6/10	1350	1500	1350	1500	430
3300	2145	3895	4265	1585	1215		1350	1500	1350	1500	+20
3500	2245	4095	4465	1685	1315		1350	1500	1350	1500	+35
4000	2545	4595	4965	1985	1615		1350	1500	1350	1500	+95

3-stage Full Free View Mast

Max. Fork Height	Overall Height			Free Lift		Tilting Angle		Capacity at 600mm Load Center		Mast Weight	
	Lowered	Extended		Without Load Backrest	With STD Load Backrest	Forward/Backward		500mm Load Center			
		Without Load Backrest	With STD Load Backrest			Front Single Tyre	Front Double Tyre	FG15-20, FD15-20, FG15H-20			
								Front Double Tyres	Pneumatic Single Std. Tread		
mm	mm	mm	mm	mm	mm	degree	kg	kg	kg		
3700	1795	4315	4685	1235	865	6/6	1350	1500	1350	1500	-35
4000	1895	4615	4985	1335	965		1300	1450	1300	1450	-20
4300	1995	4915	5285	1435	1065		1260	1400	1260	1400	565
4500	2070	5115	5485	1510	1140		1210	1350	1170	1300	+15
4700	2145	5315	5685	1585	1215		1210	1350	1170	1300	+30
5000	2245	5615	5985	1685	1315		1170	1300	990	1100	+50
5500	2420	6115	6485	1860	1490		1120	1250	720	800	+80
6000	2590	6615	6985	2035	1665		990	1100	540	600	+140

FG15T-20, FG15C-20, FD15T-20, FD15C-20, FG15HT-20, FG15HC-20

● FORK SELECTION



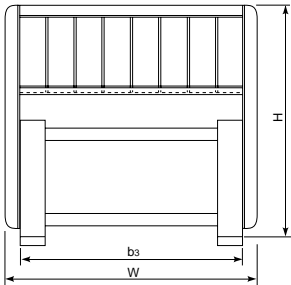
HOOK ON TYPE I

Wt.: Weight of Forks (One Pair) kg

l (mm)	s (mm)	e (mm)	Wt. (kg)
770	35	100	-6
920*	35	100	68
1070	35	100	+8
1150	35	100	+12
1220	35	100	+16
1370	45	100	+42
1520	45	100	+50
1670	45	100	+56

*mark is the standard fork

● FORK CARRIAGE AND LOAD BACKREST



FG(D)15-20, FG15H-20

	W	1050	1280	1500
H	b3	970	1200	1350
920	○	□	□	□
1070	□	□	□	□
1220	□	□	□	□
1370	□	□	□	□

b3: Width of fork carriage

H: Height of load backrest

W: Width of load backrest

Note: ○ Standard

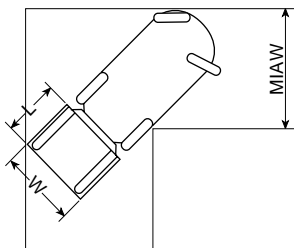
□ Option

Unit: mm

● APPLICABLE TYRE SIZE

		Tyre Size		Rim Size	Tread (mm)	Overall Width (mm)	Additional Weight (kg)
Front	Pneumatic	Single	6.50-10-10PR	5.00Fx10	890	1070	Std.
		Wide Tread	6.50-10-10PR	5.00Fx10TB	921	1097	+6
		DFT	4.50-12-8PR	3.50Dx12DC	1010	1300	+30
		SDFT	6.50-10-10PR	5.00Fx10	1110	1520	+82
Rear	Elastic cushion	Single	6.50-10	5.00Fx10	890	1070	+46
		Wide Tread	6.50-10	5.00Fx10TB	921	1097	+56
		DFT	4.50-12	3.00Dx12SDC	1010	1300	+78
		SDFT	6.50-10	5.00Fx10	1110	1520	+174
Rear	Elastic cushion		5.00-8-8PR	3.00Dx8DT	905		Std.
			5.00-8	3.00Dx8DT	905		+20

● MINIMUM INTERSECTING AISLE



● Minimum Intersecting Aisle Width (MIAW)

PALLET SIZE L x W	FG(D)15-20
	FG15H-20
800 x 1000	1795
800 x 1100	1795
1000 x 1000	1825
1000 x 1100	1840
1000 x 1200	1855
1100 x 1000	1855
1100 x 1100	1860
1100 x 1200	1885
1200 x 1000	1885
1200 x 1100	1905

Unit: mm

Aisle Widths shown in this table are not inclusive any operational clearance.

AX50 1.0-1.75ton
Series

Model: FG18T-20

FG18C-20

FG18HT-20

FG18HC-20

FD18T-20

FD18C-20

● STANDARD SPECIFICATIONS

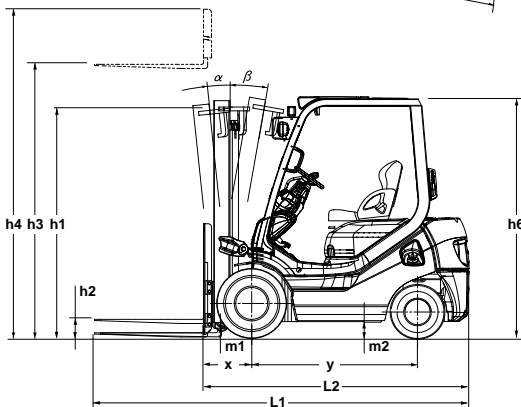
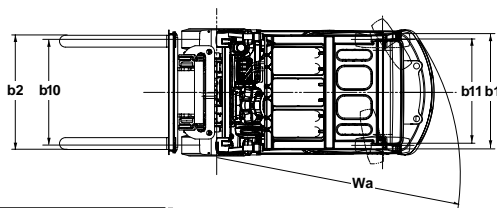
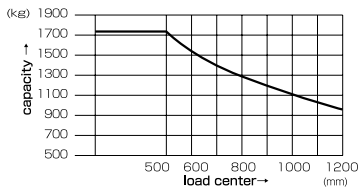
			FG18T-20		FG18C-20		FD18T-20		FD18C-20					
	Characteristics		Manufacturer's Designation											
1.2	Model													
1.3	Power Type		Electric, Diesel, Gasoline, LPG, Cable		Gasoline		Diesel							
1.4	Operation Type				Sitting		Sitting							
1.5	Rated Capacity		Q	kg	1750		1750							
1.6	Load Center		c	mm	500		500							
1.6.1	Alternative Capacity		Q2	Capacity @600mm Load Center	kg		1570		1570					
1.8	Load Distance		x	Front Axle Center to Fork Face	mm		405		405					
1.9	Wheelbase		y		mm		1400		1400					
Weight		Service Weight			kg	2645	2685	2745	2785					
2.2	Axle Loading		Loaded		Front	kg	3870	3905	3900	3935				
2.2.1					Rear	kg	525	530	595	600				
2.3			Unloaded		Front	kg	960	995	990	1025				
2.3.1					Rear	kg	1685	1690	1755	1760				
Tyre			Tyre Type				Pneumatic		Pneumatic					
3.2	Tyre Size		Front		6.50-10-10PR(I)		6.50-10-10PR(I)							
3.3			Rear		5.00- 8- 8PR(I)		5.00-8-8PR(I)							
3.5	Number of Wheels		Front/Rear(x=driven)		27/2		27/2							
3.6	Tread, Front		b ₁₀	mm	890		890							
3.7	Tread, Rear		b ₁₁	mm	895		895							
Dimensions		4.1 Tilting Angle		α/β	Forward/Backward	degree	6/10		6/10					
4.2	Mast Height, Lowered		h ₁	2-stage Std. Mast	mm	1995		1995						
4.3	Std. Free Lift		h ₂	2-stage Std. Mast from Ground	mm	140		140						
4.4	Std. Lift Height		h ₃	2-stage Std. Mast from Ground	mm	3000		3000						
4.5	Mast Height, Extended		h ₄	2-stage Std. Mast	mm	3955		3955						
4.7	Height, Overhead Guard		h ₆		mm	2030		2030						
4.19	Length, with Std. Forks		L ₁		mm	3200		3200						
4.20	Length, to Fork Face		L ₂		mm	2280		2280						
4.21	Width, at Tyre		b ₁	Single	mm	1070		1070						
4.22	Forks		s/e/l	Thickness/Width/Length	mm	35x100x920		35x100x920						
4.23	Fork Carriage Class		ISO 2328, Type A/B/no			Class 2, type A		Class 2, type A						
4.24	Width, Fork Carriage		b ₂		mm	970		970						
4.31	Ground Clearance		m ₁	Under Mast	mm	120		120						
4.32			m ₂	at Center of Wheelbase	mm	130		130						
4.33	Right Angle Stacking Aisle		Ast	with L1000xW1200 pallet	mm	3395*		3395*						
4.34			Ast	with L1200xW800 pallet	mm	3595*		3595*						
4.35	Turning Radius		Wa		mm	1990		1990						
Performance		5.1 Travel Speed (FWD)		Loaded, 1st/2nd		km/h	18.5	8.5/18.5	18.5	8.5/18.5				
				Unloaded, 1st/2nd		km/h	19.0	9.0/19.0	19.0	8.5/19.0				
		5.2 Lifting Speed		Loaded		mm/s	570		620					
				Unloaded		mm/s	640		670					
		5.3 Lowering Speed		Loaded		mm/s	500		500					
				Unloaded		mm/s	550		550					
5.6	Max. Drawbar Pull		Loaded, 1.5km/h, 3min rating		KN	10	11	13	14					
5.8	Max. Gradeability		Loaded, 1.5km/h, 3min rating		%	25	24	29	28					
5.10	Service Brake		Operation/Control			Foot/Hydraulic		Foot/Hydraulic						
5.11	Parking Brake		Operation/Control			Hand/Mechanical		Hand/Mechanical						
5.12	Steering		Type			FHPS		FHPS						
6.4	Battery		Voltage/Capacity at 5-hour rating		V/ah	12/33		12/64						
I.C. Engine		7.1 Make / Model				NISSAN K15		Komatsu 4D92E						
7.2	Rated Output, SAE net				KW	27.2 @2500		34.6 @2450						
7.3	Rated RPM				min ⁻¹	2500		2450						
7.3.1	Max. Torque, SAE net				Nm @ min ⁻¹	113 @1600		142 @1800						
7.4	No. of Cylinders/Displacement				cm ³	4-1486		4-2659						
7.6	Fuel Tank Capacity				Ltr	40		40						
Others		8.2 Relief Pressure for Attachment				bar		172						
8.6	Clutch					T/C	Dry	T/C	Dry					
8.7	Transmission					TORQFLOW	Synchromesh	TORQFLOW	Synchromesh					

*: Add clearance

T/C: Torque Converter

FG18T-20, FG18C-20, FD18T-20, FD18C-20

● CAPACITY CHART



● STANDARD EQUIPMENT

- 3.0mH 2-stage free view mast
- Load backrest
- Dual floating Structure
- Soft landing mast system
- Alternator with built-in IC regulator
- Combination switch (turn signal light and light switch)
- Integrated meter panel(Fuel gauge, water temperature gauge, charge warning lamp, hour meter, brake fluid warming lamp, Engine oil pressure gauge, neutral indicator)
- Back-up buzzer
- Auto choke (gasoline)
- New operator's seat with suspension
- Quick auto glow system (diesel)
- Neutral safety mechanism
- Halogen headlight
- Rear combination light
- Cyclone air cleaner

- Engine key stop mechanism (diesel)
- Fully hydrostatic power steering
- Wide angle center mirror

● OPTIONAL EQUIPMENT

- Operator Presence Sensing System (Lifting/Traveling Interlocking Mechanism)
- Steel Cabin
- Protective Resin Head Guard Cover
- Digital Load Checker
- Easy-Replacement Oil Filter
- Mast Tilt angle Meter

● STANDARD SPECIFICATIONS

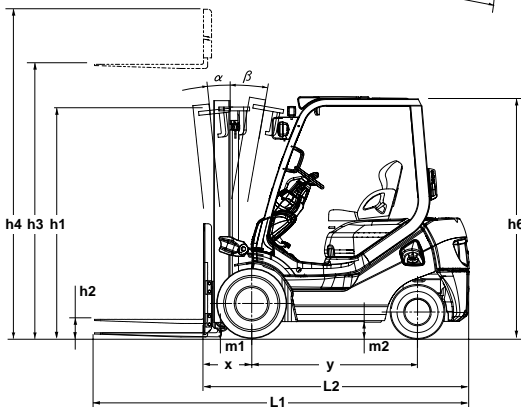
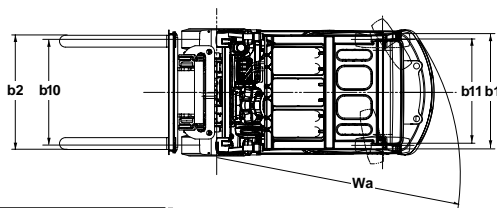
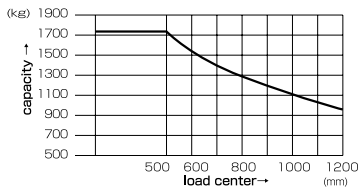
	1.2 Model		Manufacturer's Designation		FG18HT-20	FG18HC-20		
Characteristics	1.3 Power Type		Electric, Diesel, Gasoline, LPG, Cable		Gasoline			
	1.4 Operation Type				Sitting			
	1.5 Rated Capacity		Q		kg	1750		
	1.6 Load Center		c		mm	500		
	1.6.1 Alternative Capacity		Q ₂	Capacity @600mm Load Center	kg	1570		
	1.8 Load Distance		x	Front Axle Center to Fork Face	mm	405		
	1.9 Wheelbase		y		mm	1400		
	Weight	2.1 Service Weight				kg	2645	2685
		2.2.1 Axle Loading	Loaded	Front	kg	3870	3905	
Rear				kg	525	530		
Unloaded			Front	kg	960	995		
		Rear	kg	1685	1690			
Tyre	3.1 Tyre Type				Pneumatic			
	3.2 Tyre Size		Front		6.50-10-10PR(I)			
	3.3		Rear		5.00- 8- 8PR(I)			
	3.5 Number of Wheels		Front/Rear(x=driven)		2/2			
	3.6 Tread, Front		b ₁₀		mm	890		
	3.7 Tread, Rear		b ₁₁		mm	895		
	Dimensions	4.1 Tilting Angle		α/β	Forward/Backward	degree	6/10	
4.2 Mast Height, Lowered		h ₁	2-stage Std. Mast	mm	1995			
4.3 Std. Free Lift		h ₂	2-stage Std. Mast from Ground	mm	140			
4.4 Std. Lift Height		h ₃	2-stage Std. Mast from Ground	mm	3000			
4.5 Mast Height, Extended		h ₄	2-stage Std. Mast	mm	3955			
4.7 Height, Overhead Guard		h ₆		mm	2030			
4.19 Length, with Std. Forks		L ₁		mm	3200			
4.20 Length, to Fork Face		L ₂		mm	2280			
4.21 Width, at Tyre		b ₁	Single	mm	1070			
4.22 Forks		s/l/l	Thickness/Width/Length	mm	35x100x920			
4.23 Fork Carriage Class		ISO 2328, Type A/B/no			Class 2, type A			
4.24 Width, Fork Carriage		b ₂		mm	970			
4.31 Ground Clearance		m ₁	Under Mast	mm	120			
4.32		m ₂	at Center of Wheelbase	mm	130			
4.33 Right Angle Stacking Aisle		Ast	with L1000xW1200 pallet	mm	3395*			
4.34		Ast	with L1200xW800 pallet	mm	3595*			
4.35 Turning Radius		Wa		mm	1990			
Performance	5.1 Travel Speed (FWD)		Loaded, 1st/2nd	km/h	18.5	8.5/18.5		
			Unloaded, 1st/2nd	km/h	19.0	9.0/19.0		
	5.2 Lifting Speed		Loaded	mm/s	590			
			Unloaded	mm/s	640			
	5.3 Lowering Speed		Loaded	mm/s	500			
			Unloaded	mm/s	550			
	5.6 Max. Drawbar Pull		Loaded, 1.5km/h, 3min rating	KN	15	14		
	5.8 Max. Gradeability		Loaded, 1.5km/h, 3min rating	%	33	32		
	5.10 Service Brake		Operation/Control		Foot/Hydraulic			
	5.11 Parking Brake		Operation/Control		Hand/Mechanical			
5.12 Steering		Type		FHPS				
6.4 Battery		Voltage/Capacity at 5-hour rating		V/ah				
I.C. Engine	7.1 Make / Model				NISSAN K21			
	7.2 Rated Output, SAE net				KW			
	7.3 Rated RPM				min ⁻¹			
	7.3.1 Max. Torque, SAE net				Nm@ min ⁻¹			
	7.4 No. of Cylinders/Displacement				cm ³			
	7.6 Fuel Tank Capacity				Ltr			
	7.6				40			
Others	8.2 Relief Pressure for Attachment				bar			
	8.6 Clutch				T/C			
	8.7 Transmission				Dry			
				TORQFLOW				
				Synchromesh				

*: Add clearance

T/C: Torque Converter

FG18HT-20, FG18HC-20

● CAPACITY CHART



● STANDARD EQUIPMENT

- 3.0mH 2-stage free view mast
- Load backrest
- Dual floating Structure
- Soft landing mast system
- Alternator with built-in IC regulator
- Combination switch (turn signal light and light switch)
- Integrated meter panel(Fuel gauge, water temperature gauge, charge warning lamp, hour meter, brake fluid warning lamp, Engine oil pressure gauge, neutral indicator)
- Back-up buzzer
- Auto choke (gasoline)
- New operator's seat with suspension
- Quick auto glow system (diesel)
- Neutral safety mechanism
- Halogen headlight
- Rear combination light
- Cyclone air cleaner

- Engine key stop mechanism (diesel)
- Fully hydrostatic power steering
- Wide angle center mirror

● OPTIONAL EQUIPMENT

- Operator Presence Sensing System (Lifting/Traveling Interlocking Mechanism)
- Steel Cabin
- Protective Resin Head Guard Cover
- Digital Load Checker
- Easy-Replacement Oil Filter
- Mast Tilt angle Meter

AX50 SERIES

● MAST SPECIFICATIONS

2-stage Free View Mast

*mark is the standard mast

Max. Fork Height	Overall Height			Free Lift		Tilting Angle		Capacity at 600mm Load Center		Capacity at 500mm Load Center	Mast Weight
	Lowered	Extended		Without Load Backrest	With STD Load Backrest	Forward/Backward		FG18-20, FD18-20, FG18H-20			
		Without Load Backrest	With STD Load Backrest			Front Single Tyre	Front Double Tyre	Front Double Tyres	Pneumatic Single Std. Tread		
mm	mm	mm	mm	mm	degree		kg	kg	kg		
2500	1745	3085	3455	140	6/10		1570 / 1750		1570 / 1750	-28	
3000*	1995	3585	3955	140			1570 / 1750		1570 / 1750	385	
3300	2145	3885	4255	140			1570 / 1750		1570 / 1750	+17	
3500	2245	4085	4455	140			1570 / 1750		1570 / 1750	+28	
3700	2345	4285	4655	140			1570 / 1750		1530 / 1700	+43	
4000	2545	4585	4955	140	6/6	6/10	1570 / 1750		1480 / 1650	+83	
4300	2695	4885	5255	140	6/6		1480 / 1650		1350 / 1500	+102	
4500	2795	5085	5455	140			1480 / 1650		1350 / 1500	+113	
4700	2920	5285	5655	140			1350 / 1500		1080 / 1200	+127	
5000	3070	5585	5955	140			1350 / 1500		1030 / 1150	+144	

2-stage Full Free View Mast

Max. Fork Height	Overall Height			Free Lift		Tilting Angle		Capacity at 600mm Load Center		Capacity at 500mm Load Center	Mast Weight
	Lowered	Extended		Without Load Backrest	With STD Load Backrest	Forward/Backward		FG18-20, FD18-20, FG18H-20			
		Without Load Backrest	With STD Load Backrest			Front Single Tyre	Front Double Tyre	Front Double Tyres	Pneumatic Single Std. Tread		
mm	mm	mm	mm	mm	mm	degree		kg	kg	kg	
3000	1995	3595	3965	1435	1065	6/10		1570 / 1750		1570 / 1750	430
3300	2145	3895	4265	1585	1215			1570 / 1750		1570 / 1750	+20
3500	2245	4095	4465	1685	1315			1570 / 1750		1570 / 1750	+35
4000	2545	4595	4965	1985	1615	6/6	6/10	1570 / 1750		1480 / 1650	+95

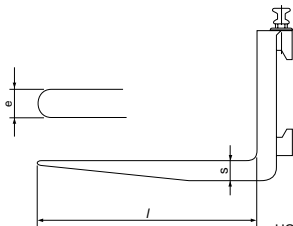
3-stage Full Free View Mast

Max. Fork Height	Overall Height			Free Lift		Tilting Angle		Capacity at 600mm Load Center		Capacity at 500mm Load Center	Mast Weight
	Lowered	Extended		Without Load Backrest	With STD Load Backrest	Forward/Backward		FG18-20, FD18-20, FG18H-20			
		Without Load Backrest	With STD Load Backrest			Front Single Tyre	Front Double Tyre	Front Double Tyres	Pneumatic Single Std. Tread		
mm	mm	mm	mm	mm	mm	degree		kg	kg	kg	
3700	1795	4315	4685	1235	865	6/6		1530 / 1700		1530 / 1700	-35
4000	1895	4615	4985	1335	965			1530 / 1700		1480 / 1650	-20
4300	1995	4915	5285	1435	1065			1480 / 1650		1350 / 1500	565
4500	2070	5115	5485	1510	1140			1440 / 1600		1260 / 1400	+15
4700	2145	5315	5685	1585	1215			1440 / 1600		1260 / 1400	+30
5000	2245	5615	5985	1685	1315			1390 / 1550		1030 / 1150	+50
5500	2420	6115	6485	1860	1490			1350 / 1500		760 / 850	+80
6000	2595	6615	6985	2035	1665			1030 / 1150		450 / 500	+140

“Load capacity at 600mm load center reference only”

FG18T-20, FG18C-20, FD18T-20, FD18C-20, FG18HT-20, FG18HC-20

● FORK SELECTION



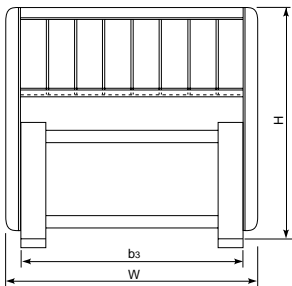
HOOK ON TYPE I

Wt.: Weight of Forks (One Pair) kg

l (mm)	s (mm)	e (mm)	Wt. (kg)
770	35	100	-6
920*	35	100	68
1070	35	100	+8
1150	35	100	+12
1220	35	100	+16
1370	45	100	+42
1520	45	100	+50
1670	45	100	+56

*mark is the standard fork

● FORK CARRIAGE AND LOAD BACKREST



FG(D)18-20, FG18H-20

	W	1050	1280	1500
H	bs	970	1200	1350
920		○	□	□
1070		□	□	□
1220		□	□	□
1370		□	□	□

bs: Width of fork carriage

H: Height of load backrest

W: Width of load backrest

Note: ○ Standard

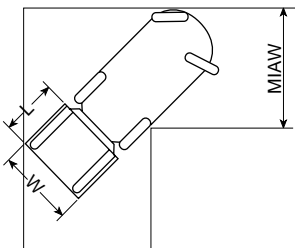
□ Option

Unit: mm

● APPLICABLE TYRE SIZE

		Tyre Size		Rim Size	Tread (mm)	Overall Width (mm)	Additional Weight (kg)
Front	Pneumatic cushion	Single	6.50-10-10PR	5.00Fx10	890	1070	Std.
		Wide Tread	6.50-10-10PR	5.00Fx10TB	921	1097	+6
		DFT	4.50-12-8PR	3.50Dx12DC	1010	1300	+30
	Elastic cushion	SDFT	6.50-10-10PR	5.00Fx10	1110	1520	+82
		Single	6.50-10	5.00Fx10	890	1070	+46
		Wide Tread	6.50-10	5.00Fx10TB	921	1097	+56
Rear	Elastic cushion	DFT	4.50-12	3.00Dx12SDC	1010	1300	+78
		SDFT	6.50-10	5.00Fx10	1110	1520	+174
	Pneumatic cushion		5.00-8-8PR	3.00Dx8DT	905		Std.
			5.00-8	3.00Dx8DT	905		+20

● MINIMUM INTERSECTING AISLE



● Minimum Intersecting Aisle Width (MIAW)

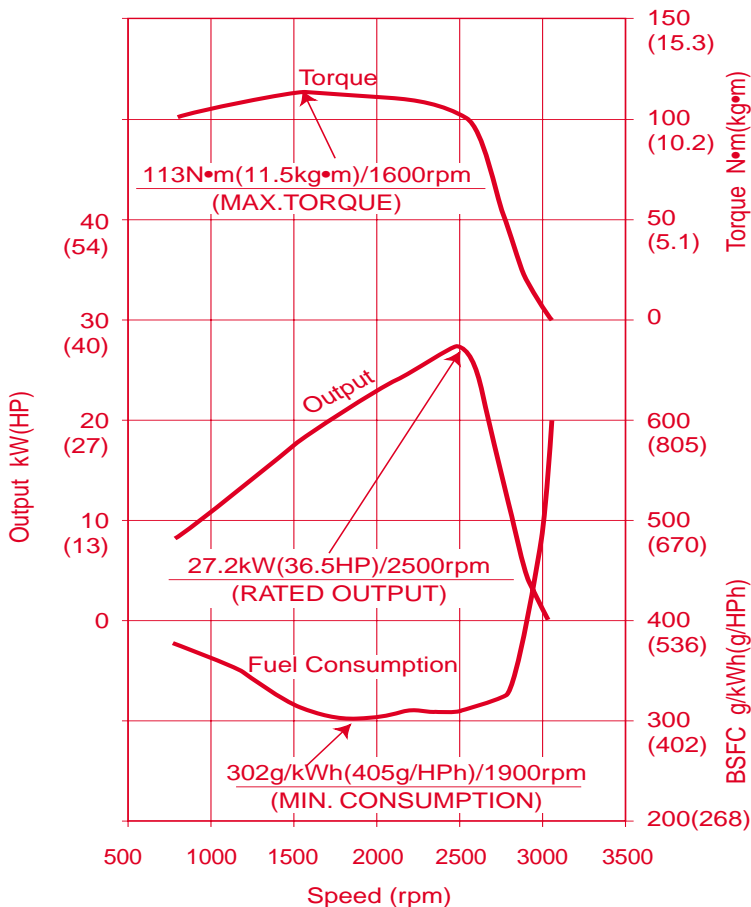
PALLET SIZE	FG(D)18-17
L x W	FG18H-20
800 x 1000	1810
800 x 1100	1810
1000 x 1000	1840
1000 x 1100	1855
1000 x 1200	1870
1100 x 1000	1870
1100 x 1100	1880
1100 x 1200	1900
1200 x 1000	1900
1200 x 1100	1915

Unit: mm

Aisle Widths shown in this table are not inclusive any operational clearance.

ENGINE PERFORMANCE CURVE

ENGINE MODEL NISSAN K15		APPLICATION FG10-20, FG15-20, FG18-20	
BORE:	75.5 mm	NO. OF CYLINDERS	4
STROKE:	83 mm	PISTON DISPLACEMENT	1486 cc

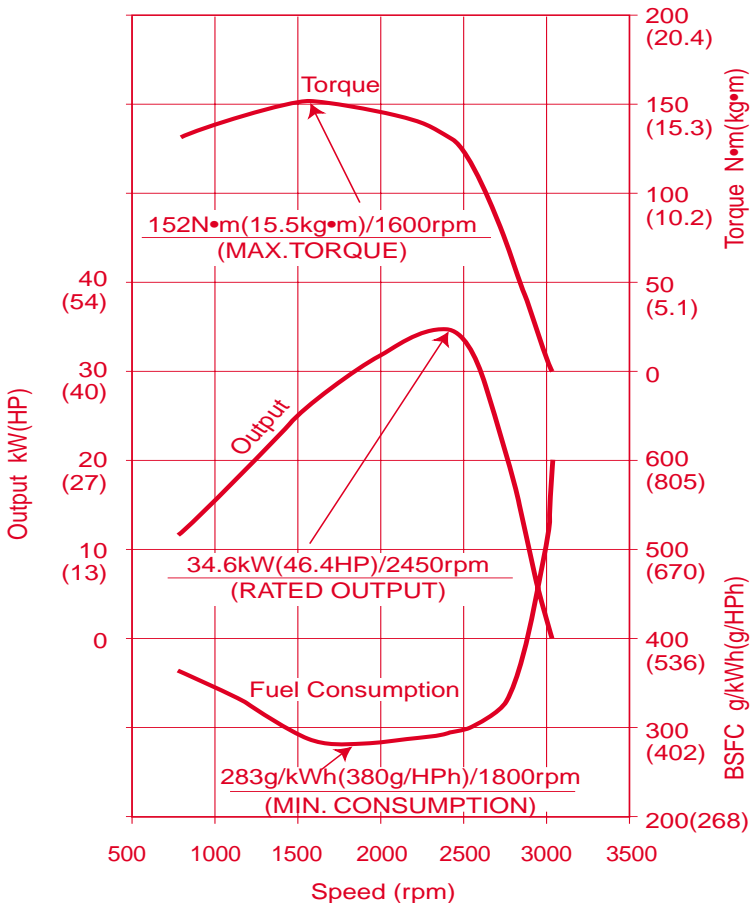


1. THIS PERFORMANCE IS APPLIED UNDER CONDITIONS OF 25°C (77°F) (AMBIENT TEMPERATURE) 750mm Hg (100 kPa) (ATMOSPHERIC PRESSURE) AND 7.5mm Hg (1 kPa) (VAPOR PRESSURE).

2. THE ENGINE PERFORMANCE VALUES ARE BASED ON SAE NET. ON THIS PATING, THE ENGINE IS TESTED WITH ALL ACCESSORIES INSTALLED, INCLUDING A FULL EXHAUST SYSTEM, ALL PUMP, THE ALTERNATOR, THE STARTER, AND FAN.

ENGINE PERFORMANCE CURVE

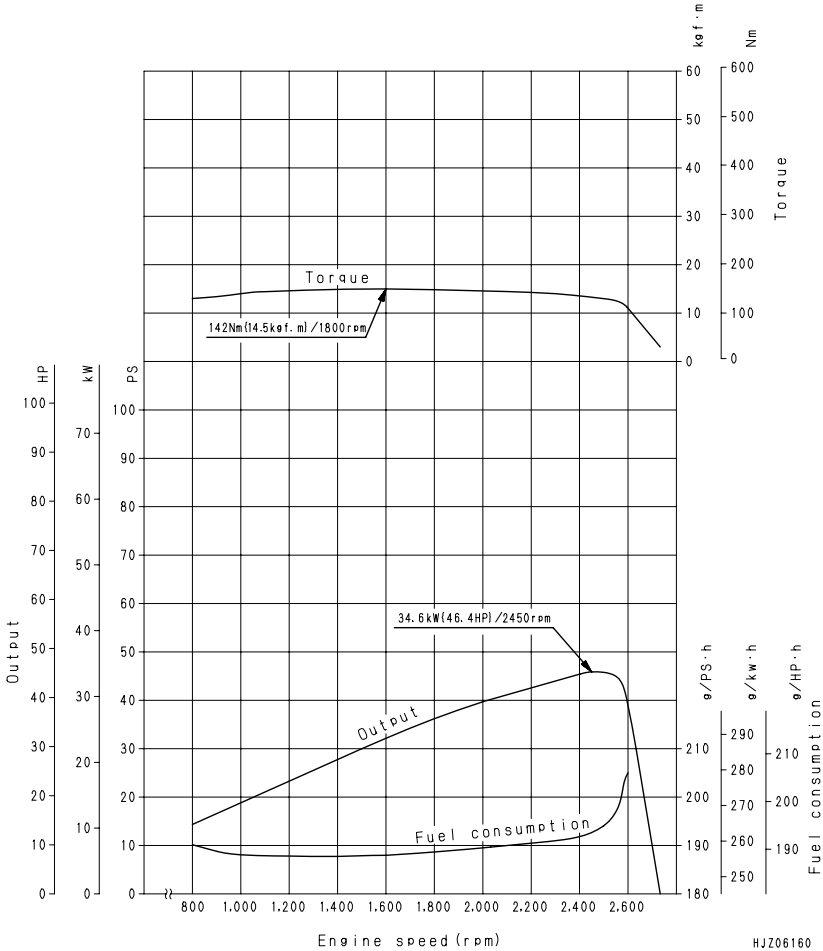
ENGINE MODEL NISSAN K21		APPLICATION FG15H-20, FG18H-20	
BORE:	89 mm	NO. OF CYLINDERS	4
STROKE:	83 mm	PISTON DISPLACEMENT	2065 cc



1. THIS PERFORMANCE IS APPLIED UNDER CONDITIONS OF 25°C (77°F) (AMBIENT TEMPERATURE) 750mm Hg (100 kPa) (ATMOSPHERIC PRESSURE) AND 7.5mm Hg (1 kPa) (VAPOR PRESSURE).
2. THE ENGINE PERFORMANCE VALUES ARE BASED ON SAE NET. ON THIS PATING, THE ENGINE IS TESTED WITH ALL ACCESSORIES INSTALLED, INCLUDING A FULL EXHAUST SYSTEM, ALL PUMP, THE ALTERNATOR, THE STARTER, AND FAN.

ENGINE PERFORMANCE CURVE

ENGINE MODEL KOMATSU 4D92E	APPLICATION FD15-20, FD18-20
BORE: 92 mm	NO. OF CYLINDERS 4
STROKE: 100 mm	PISTON DISPLACEMENT 2659 cc



HJ206160

1. THIS PERFORMANCE IS APPLIED UNDER CONDITIONS OF 25°C (77°F) (AMBIENT TEMPERATURE) 750mm Hg (100 kPa) (ATMOSPHERIC PRESSURE) AND 7.5mm Hg (1 kPa) (VAPOR PRESSURE).
2. THE ENGINE PERFORMANCE VALUES ARE BASED ON SAE NET. ON THIS PATING, THE ENGINE IS TESTED WITH ALL ACCESSORIES INSTALLED, INCLUDING A FULL EXHAUST SYSTEM, ALL PUMP, THE ALTERNATOR, THE STARTER, AND FAN.

● **Lifting and Lowering speed by Mast**

2-stage Free View Mast (mm/s)

	AX	FG10	FG15	FG15H	FG18	FG18H
Lifting Speed	Loaded	580	570	590	570	590
	Unloaded	640	640	640	640	640
Lowering Speed	Loaded	500	500	500	500	500
	Unloaded	550	550	550	550	550
	AX	FD10	FD15	FD18		
Lifting Speed	Loaded	620	620	620		
	Unloaded	670	670	670		
Lowering Speed	Loaded	500	500	500		
	Unloaded	550	550	550		

2-stage Full Free View Mast (mm/s)

	AX	FG10	FG15	FG15H	FG18	FG18H
Lifting Speed	Loaded	500	490	510	490	510
	Unloaded	545	545	560	545	555
Lowering Speed	Loaded	490	490	490	490	490
	Unloaded	460	460	460	460	460
	AX	FD10	FD15	FD18		
Lifting Speed	Loaded	550	550	550		
	Unloaded	580	580	580		
Lowering Speed	Loaded	490	490	490		
	Unloaded	460	460	460		

3-stage Full Free View Mast (mm/s)

	AX	FG10	FG15	FG15H	FG18	FG18H
Lifting Speed	Loaded	530	520	540	540	535
	Unloaded	560	560	580	560	570
Lowering Speed	Loaded	500	490	490	490	490
	Unloaded	480	480	480	480	480
	AX	FD10	FD15	FD18		
Lifting Speed	Loaded	585	575	575		
	Unloaded	595	595	595		
Lowering Speed	Loaded	490	490	490		
	Unloaded	480	480	480		

MEMO
