

Major equipment

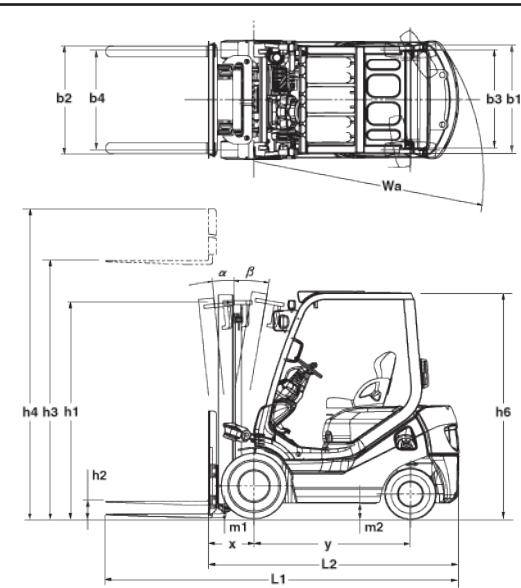
● : Standard ○ : Option ◎ : Standard for BX50

Vehicle type		AX/BX50 Series						High performance model (H type)			
		Standard model				109 Series					
Engine		Gasoline		Diesel		Gasoline	Diesel	Gasoline		Diesel	
Equipment	Transmission	Clutch	TORQFLOW	Clutch	TORQFLOW	TORQFLOW	TORQFLOW	Clutch	TORQFLOW	Clutch	TORQFLOW
Driving/operation	Dual floating structure	●	●	●	●	●	●	●	●	●	●
	New operator's seat with suspension	●	●	●	●	●	●	●	●	●	●
	Small-sized steering wheel	●	●	●	●	●	●	●	●	●	●
	Tiltable steering column	●	●	●	●	●	●	●	●	●	●
	Electric forward/reverse lever (TORQFLOW model)		●		●	●	●		●		●
	Double-cone synchronized clutch (clutch model)	●		●				●		●	
	Combination switch (turn signal light and light switch)	●	●	●	●	●	●	●	●	●	●
	Indicator auto-return mechanism	●	●	●	●	●	●	●	●	●	●
	Full-open step	●	●	●	●	●	●	●	●	●	●
	Under-floor tilt cylinder	●	●	●	●	●	●	●	●	●	●
	Paper binder	●	●	●	●	●	●	●	●	●	●
	Glove box	●	●	●	●	●	●	●	●	●	●
Meters	Meter panel	●	●	●	●	●	●	●	●	●	●
	Hourmeter	●	●	●	●	●	●	●	●	●	●
	Engine water temperature gauge	●	●	●	●	●	●	●	●	●	●
	Torque converter oil temperature gauge		○		○	○	○		○		○
	Fuel gauge	●	●	●	●	●	●	●	●	●	●
Safety indicators	Engine oil pressure warning lamp	●	●	●	●	●	●	●	●	●	●
	Charge warning lamp	●	●	●	●	●	●	●	●	●	●
	Air cleaner element warning lamp	○	○	○	○	○	○	○	○	○	○
	Fuel level warning lamp	○	○	○	○	○	○	○	○	○	○
	Radiator cooling water level warning lamp	○	○	○	○	○	○	○	○	○	○
	Battery electrolyte level warning lamp	○	○	○	○	○	○	○	○	○	○
	Neutral indicator	●	●	●	●	●	●	●	●	●	●
	Sedimenter warning lamp			●	●		●			●	●
Glow indicator			●	●		●			●	●	
Electric components	Full-transistor-type IC distributor	●	●			●		●	●		
	Alternator with built-in IC regulator	●	●	●	●	●	●	●	●	●	●
	Quick auto glow system			●	●		●			●	●
	Neutral safety mechanism	●	●	●	●	●		●	●	●	●
	Auto fuse	●	●	●	●	●	●	●	●	●	●
	Low maintenance battery	●	●	●	●	●	●	●	●	●	●
	Engine key stop mechanism			●	●		●			●	●
	Halogen headlight	●	●	●	●	●	●	●	●	●	●
	Rear combination light	●	●	●	●	●	●	●	●	●	●
	Back-up buzzer	●	●	●	●	●	●	●	●	●	●
Mechanism	Operator Presence Sensing System	○	○	○	○	○	○	○	○	○	○
	Auto choke	●	●			●		●	●		
	Super lift hydraulic system	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎
	Self-adjustment clutch	●		●				●		●	
	Sedimentary with priming pump			●	●		●			●	●
	Cyclone air cleaner	●	●	●	●	●	●	●	●	●	●
	Parking brake with release button	●	●	●	●	●	●	●	●	●	●
	Fully hydrostatic power steering	●	●	●	●	●	●	●	●	●	●
	Soft landing mast system	●	●	●	●	●	●	●	●	●	●
	Non-asbestos brake linings	●	●	●	●	●	●	●	●	●	●
	Non-asbestos clutch disk	●		●				●		●	
	Easy replacement hydraulic oil filter	○	○	○	○	○	○	○	○	○	○
Exterior	Floor mat	●	●	●	●	●	●	●	●	●	●
	Assist grips	●	●		●	●	●	●	●	●	●
	Head guard with front/rear conduits	●	●	●	●	●	●	●	●	●	●
	Wide angle center mirror	●	●	●	●	●	●	●	●	●	●
	Full shield solid-state engine hood	●	●	●	●	●	●	●	●	●	●
	One-touch open floor panel	●	●	●	●	●	●	●	●	●	●
	One-touch removable radiator cover	●	●	●	●	●	●	●	●	●	●
	Engine hood stopper	●	●	●	●	●	●	●	●	●	●
	Engine hood lock	●	●	●	●	●	●	●	●	●	●
	Radiator reservoir tank	●	●	●	●			●	●	●	●
	Wide fork carriage	●	●	●	●	●	●	●	●	●	●
	Resin dashboard cover	●	●	●	●	●	●	●	●	●	●
Jacking points	●	●	●	●	●	●	●	●	●	●	

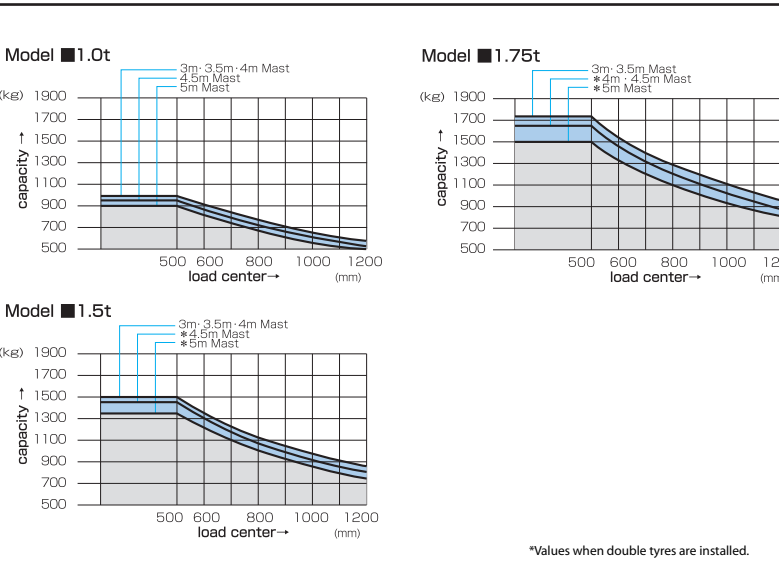
AX50 Series Specifications

		Manufacturer's Designation		FG10-20	FD10-20	FG15-20	FD15-20	FG15H-20	FG18-20	FD18-20	FG18H-20
				TORQFLOW[Clutch]	TORQFLOW[Clutch]	TORQFLOW[Clutch]	TORQFLOW[Clutch]	TORQFLOW[Clutch]	TORQFLOW[Clutch]	TORQFLOW[Clutch]	TORQFLOW[Clutch]
Characteristics	1.2 Model			Gasoline	Diesel	Gasoline	Diesel	Gasoline	Gasoline	Diesel	Gasoline
	1.3 Power Type	Electric, Diesel, Gasoline, LPG		Gasoline	Diesel	Gasoline	Diesel	Gasoline	Gasoline	Diesel	Gasoline
	1.4 Operation Type			Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting
	1.5 Rated Capacity	Q		kg	1000	1000	1500	1500	1500	1750	1750
Weight	1.6 Load Center	c		mm	500	500	500	500	500	500	500
	1.6.1 Alternative Capacity	Q2		kg	910	910	1360	1360	1360	1590	1590
	1.8 Load Distance	x		mm	400	400	405	405	405	405	405
	1.9 Wheelbase	y		mm	1400	1400	1400	1400	1400	1400	1400
Tyres	2.1 Service Weight			kg	2080[2095]	2180[2195]	2450[2465]	2550[2565]	2450[2465]	2645[2660]	2745[2760]
	2.2 Axle Loading	Loaded		kg	355[360]	420[430]	450[455]	520[525]	450[455]	525[530]	595[600]
	2.2.1	Rear		kg	355[360]	420[430]	450[455]	520[525]	450[455]	525[530]	595[600]
	2.3	Unloaded		kg	1065[1075]	1095[1105]	1005[1015]	1035[1045]	1005[1015]	960[970]	990[1000]
Types	3.1 Tyre Type				Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic
	3.2 Tyre Size	Front			6.50-10-10PR(I)	6.50-10-10PR(I)	6.50-10-10PR(I)	6.50-10-10PR(I)	6.50-10-10PR(I)	6.50-10-10PR(I)	6.50-10-10PR(I)
	3.3	Rear			5.00-8-8PR(I)	5.00-8-8PR(I)	5.00-8-8PR(I)	5.00-8-8PR(I)	5.00-8-8PR(I)	5.00-8-8PR(I)	5.00-8-8PR(I)
	3.5 Number of Wheels	Front/Rear (x=driven)			2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2
Dimensions	3.6 Tread, Front	b4		mm	890	890	890	890	890	890	890
	3.7 Tread, Rear	b3		mm	895	895	895	895	895	895	895
	4.1 Tilting Angle	α / β		degree	6/10	6/10	6/10	6/10	6/10	6/10	6/10
	4.2 Mast Height, Lowered	h1		mm	1995	1995	1995	1995	1995	1995	1995
Performance	4.3 Std. Free Lift	h2		mm	135	135	140	140	140	140	140
	4.4 Std. Lift Height	h3		mm	3000	3000	3000	3000	3000	3000	3000
	4.5 Mast Height, Extended	h4		mm	3955	3955	3955	3955	3955	3955	3955
	4.7 Height, Overhead Guard	h6		mm	2030	2030	2030	2030	2030	2030	2030
Others	4.19 Length, with Std. Forks	L1		mm	2965	2965	3160	3160	3160	3200	3200
	4.20 Length, to Fork Face	L2		mm	2195	2195	2240	2240	2240	2280	2280
	4.21 Width, at Tyre	b1		mm	1070	1070	1070	1070	1070	1070	1070
	4.22 Forks	s/e/l		mm	31x100x770	31x100x770	35x100x920	35x100x920	35x100x920	35x100x920	35x100x920
Performance	4.23 Fork Carriage Class	ISO 2328, Type A/B/no			Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2
	4.24 Width, Fork Carriage	b2		mm	970	970	970	970	970	970	970
	4.31 Ground Clearance	m1		mm	120	120	120	120	120	120	120
	4.32 Right Angle	Ast		mm	130	130	130	130	130	130	130
Performance	4.33 Stacking Aisle	Ast		mm	3315	3315	3360	3360	3360	3395	3395
	4.34 Turning Radius	Wa		mm	3515	3515	3560	3560	3560	3595	3595
	5.1 Travel Speed (FWD)	Loaded, 1st/2nd		km/h	19.0[9.0/19.0]	19.0[8.5/19.0]	18.5[8.5/18.5]	18.5[8.5/19.0]	18.5[8.5/18.5]	18.5[8.5/18.5]	18.5[8.5/18.5]
	5.2 Lifting Speed	Unloaded, 1st/2nd		mm/s	19.0[9.0/19.0]	19.5[8.5/19.5]	19.0[9.0/19.0]	19.0[8.5/19.5]	19.0[9.0/19.0]	19.0[9.0/19.0]	19.0[9.0/19.0]
Performance	5.3 Lowering Speed	Loaded		mm/s	580	620	620	620	620	620	620
	5.6 Max. Drawbar Pull	Loaded		KN	640	670	640	670	640	670	640
	5.8 Max. Gradeability	Loaded		%	500	500	500	500	500	500	500
	5.10 Service Brake	Operation/Control			550	550	550	550	550	550	550
Performance	5.11 Parking Brake	Hand/Mechanical			Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic
	5.12 Steering	Type			Hand/Mechanical	Hand/Mechanical	Hand/Mechanical	Hand/Mechanical	Hand/Mechanical	Hand/Mechanical	Hand/Mechanical
	6.4 Battery	Voltage/ Capacity at 5-hour rating		V/ah	FHPS	FHPS	FHPS	FHPS	FHPS	FHPS	FHPS
	7.1 Maker Model				12/33	12/64	12/33	12/64	12/33	12/33	12/33
I.C Engine	7.2 Rated Output, SAE gross			KW	NISSAN K15	Komatsu 4D92E	NISSAN K15	Komatsu 4D92E	NISSAN K21	NISSAN K15	Komatsu 4D92E
	7.3 Rated RPM			min-1	27@2500	35@2450	27@2500	35@2450	27@2500	35@2450	35@2450
	7.3.1 Max. Torque, SAE gross			Nmmin-1	2500	2450	2500	2450	2450	2500	2450
	7.4 No. of Cylinders/Displacement			cm³	113@1600	142@1800	113@1600	142@1800	152@1600	113@1600	142@1800
Others	7.6 Fuel Tank Capacity			Ltr	4-1486	4-2659	4-1486	4-2659	4-2065	4-1486	4-2659
	8.2 Relief Pressure for Attachment			bar	40	40	40	40	40	40	40

Dimensions



Load capacity curve



BX50 Series Specifications

Characteristics	1.2	Model	Manufacturer's Designation			FG20-16	FD20-16	FG20H-16	FD20H-16	FG25-16	FD25-16	FG25H-16	FD25H-16	FG30-16	FD30-16	FD30H-16	FG35AT-16	FD35AT-16	FG20NT-16	FD20NT-16	FG25NT-16	FD25NT-16	FG30NT-16	FD30NT-16	
		Transmission				TORQFLOW[Clutch]	TORQFLOW[Clutch]	TORQFLOW	TORQFLOW[Clutch]	TORQFLOW[Clutch]	TORQFLOW[Clutch]	TORQFLOW	TORQFLOW[Clutch]	TORQFLOW[Clutch]	TORQFLOW[Clutch]	TORQFLOW	TORQFLOW	TORQFLOW	TORQFLOW	TORQFLOW	TORQFLOW	TORQFLOW	TORQFLOW		
	1.3	Power Type	Electric, Diesel, Gasoline, LPG			Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel	Diesel	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel	
	1.4	Operation Type				Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	
	1.5	Rated Capacity	Q	Rated Capacity	kg	2000	2000	2000	2000	2500	2500	2500	2500	3000	3000	3000	3500	3500	2000	2000	2500	2500	3000	3000	
	1.6	Load Center	c	Rated Load Center	mm	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
	1.6.1	Alternative Capacity	Q2	Capacity@600mm Load Center	kg	1810	1810	1810	1810	2270	2270	2270	2270	2720	2720	2720	3180	3180	1810	1810	2270	2270	2720	2720	
	1.8	Load Distance	x	Front Axle Center to Fork Face	mm	460	460	460	460	465	465	465	465	490	490	490	505	505	430	430	435	435	440	440	
	1.9	Wheelbase	y		mm	1650	1650	1650	1650	1650	1650	1650	1650	1700	1700	1700	1700	1700	1400	1400	1400	1400	1450	1450	
Weight	2.1	Service Weight			kg	3220[3230]	3310[3330]	3220	3310[3330]	3590[3600]	3680[3700]	3590	3680[3700]	4210[4230]	4310[4320]	4310[4320]	4910	5010	3230	3330	3630	3730	4070	4170	
	2.2	Axle Loading	Loaded	Front	kg	4670[4680]	4700[4720]	4670	4700[4720]	5420[5430]	5460[5470]	5420	5460[5470]	6390[6400]	6430[6440]	6430[6440]	7440	7480	4600	4630	5350	5380	6250	6240	
	Rear			kg	550[550]	610[610]	550	610[610]	670[670]	720[730]	670	720[730]	820[830]	880[880]	880[880]	970	1030	630	700	780	850	930	930		
	2.3		Unloaded	Front	kg	1480[1480]	1510[1520]	1480	1510[1520]	1430[1430]	1460[1470]	1430	1460[1470]	1600[1610]	1640[1650]	1640[1650]	1820	1860	1250	1280	1140	1170	1260	1250	
	Rear			kg	1740[1750]	1800[1810]	1740	1800[1810]	2160[2170]	2220[2230]	2160	2220[2230]	2610[2620]	2670[2670]	2670[2670]	3090	3150	1980	2050	2490	2560	2810	2920	2920	
Tyres	3.1	Tyre Type				Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	
	3.2	Tyre Size	Front			7.00-12-12PR(I)	7.00-12-12PR(I)	7.00-12-12PR(I)	7.00-12-12PR(I)	7.00-12-12PR(I)	7.00-12-12PR(I)	7.00-12-12PR(I)	7.00-12-12PR(I)	28x9-15-12PR(I)	28x9-15-12PR(I)	28x9-15-12PR(I)	250-15-16PR(I)	250-15-16PR(I)	22 1/4x7 1/2-15/5.50	22 1/4x7 1/2-15/5.50	22 1/4x7 1/2-15/5.50	22 1/4x7 1/2-15/5.50	22 1/4x7 1/2-15/5.50		
	3.3		Rear			6.00-09-10PR(I)	6.00-09-10PR(I)	6.00-09-10PR(I)	6.00-09-10PR(I)	6.00-09-10PR(I)	6.00-09-10PR(I)	6.00-09-10PR(I)	6.00-09-10PR(I)	6.50-10-10PR(I)	6.50-10-10PR(I)	6.50-10-10PR(I)	6.50-10-12PR(I)	6.50-10-12PR(I)	17 3/4x6 1/2-10/5.00	17 3/4x6 1/2-10/5.00	17 3/4x6 1/2-10/5.00	17 3/4x6 1/2-10/5.00	17 3/4x6 1/2-10/5.00		
	3.5	Number of Wheels	Front/Rear (x=driven)			2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	2*/2	
	3.6	Tread, Front	b4		mm	965	965	965	965	965	965	965	965	1005	1005	1005	1060	1060	900	900	900	900	900	900	
	3.7	Tread, Rear	b3		mm	960	960	960	960	960	960	960	960	965	965	965	965	965	885	885	885	885	885	885	
	Dimensions	4.1	Tilting Angle	α / β	Forward/Backward	degree	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/10	6/10	6/10	6/10	6/10	6/10
4.2		Mast Height, Lowered	h1	2-stage Mast	mm	1995	1995	1995	1995	1995	1995	1995	1995	2070	2070	2070	2100	2100	1995	1995	1995	1995	2070	2070	
4.3		Std. Free Lift	h2	2-stage Std. Mast, from Ground	mm	150	150	150	150	155	155	155	155	160	160	160	145	145	150	150	155	155	160	160	
4.4		Std. Lift Height	h3	2-stage Std. Mast, from Ground	mm	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	
4.5		Mast Height, Extended	h4	2-stage Std. Mast	mm	4050	4050	4050	4050	4050	4050	4050	4050	4275	4275	4275	4280	4280	4050	4050	4050	4050	4275	4275	
4.7		Height, Overhead Guard	h6		mm	2070	2070	2070	2070	2070	2070	2070	2070	2090	2090	2090	2105	2105	2025	2025	2025	2025	2025	2025	
4.19		Length, with Std. Forks	L1		mm	3450	3450	3450	3450	3655	3655	3655	3655	3775	3775	3775	3865	3865	3260	3260	3475	3475	3535	3535	
4.20		Length, to Fork Face	L2		mm	2530	2530	2530	2530	2585	2585	2585	2585	2705	2705	2705	2795	2795	2340	2340	2405	2405	2465	2465	
4.21		Width, at Tyre	b1	Single	mm	1150	1150	1150	1150	1150	1150	1150	1150	1235	1235	1235	1290	1290	1090	1090	1090	1090	1090	1090	
4.22		Forks	s/e/l	Thickness x Width x Length	mm	36x122x920	36x122x920	36x122x920	36x122x920	40x122x1070	40x122x1070	40x122x1070	40x122x1070	44x122x1070	44x122x1070	44x122x1070	50x150x1070	50x150x1070	36x122x920	36x122x920	40x122x1070	40x122x1070	44x122x1070	44x122x1070	
4.23		Fork Carriage Class	ISO 2328, Type A/B/no			Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 3	Class 3	Class 3	Class 3	Class 3	Class 2	Class 2	Class 2	Class 2	Class 3	Class 3	
4.24		Width, Fork Carriage	b2		mm	1020	1020	1020	1020	1020	1020	1020	1020	1060	1060	1060	1060	1060	960	960	960	960	940	940	
4.31		Ground Clearance	m1	Under Mast	mm	115	115	115	115	115	115	115	115	135	135	135	135	135	105	105	105	105	105	105	
4.32			m2	at Center of Wheelbase	mm	160	160	160	160	160	160	160	160	185	185	185	185	185	115	115	115	115	115	115	
4.33		Right Angle	Ast	with L1000 x W1200 pallet	mm	3650	3650	3650	3650	3775	3775	3775	3775	3930	3930	3930	4055	4055	3410	3410	3555	3555	3620	3620	
4.34		Stacking Aisle	Ast	with L1200 x W800 pallet	mm	3850	3850	3850	3850	3905	3905	3905	3905	4060	4060	4060	4185	4185	3610	3610	3685	3685	3750	3750	
4.35		Turning Radius	Wa		mm	2190	2190	2190	2190	2240	2240	2240	2240	2370	2370	2370	2480	2480	1980	1980	2050	2050	2110	2110	
Performance		5.1	Travel Speed (FWD)	Loaded, 1st/2nd		km/h	18.5[8.5/18.5]	18.5[8.5/18.5]	19.0	18.5[8.0/18.5]	18.5[8.5/18.5]	18.5[8.5/18.5]	19.0	18.5[8.0/18.5]	18.5[8.5/18.5]	19.0[8.5/18.5]	18.5[8.0/18.5]	18.0	18.0	17.0	17.0	16.5	16.5	16.0	16.0
				Unloaded, 1st/2nd		km/h	19.0[9.0/19.0]	19.0[8.5/19.0]	19.5	19.0[8.5/19.0]	19.0[9.0/19.0]	19.0[8.5/19.0]	19.5	19.0[8.5/19.0]	19.5[9.0/19.5]	19.5[9.0/19.0]	19.0[8.5/19.0]	19.0	19.0	16.5	16.5	16.5	16.5	16.0	16.0
		5.2	Lifting Speed	Loaded		mm/s	545	630	620	660	545	630	620	660	450	520	550	410	450	545	630	545	630	515	520
			Unloaded		mm/s	600	685	670	710	600	685	670	710	500	555	595	450	490	600	685	600	685	550	555	
	5.3	Lowering Speed	Loaded		mm/s	450	450	450	450	450	450	450	450	400	420	420	400	420	450	450	450	450	420	420	
			Unloaded		mm/s	500	500	500	500	500	500	500	500	500	500	500	400	400	500	500					