

Shop Manual

FORKLIFT
TRUCK

FD200-7
FD250-7

SERIAL NUMBERS FD200- 2601 and up
 FD250- 3601

KOMATSU

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Foreword





This manual describes the correct procedure for inspection, maintenance and troubleshooting in order to maintain the performance of lift trucks and secure workers' safety.
Utilize this manual sufficiently for higher services.

Precautions

It is important to pay attention to safety when you start any work. Never attempt any work where there is danger to yourself or to other persons. In this manual, works requiring high safety precautions are marked with . Take safety measures whenever performing those works.

Symbol

Important safety and quality portions of Shop Manual are marked with the following symbols so that Shop Manual will be utilized sufficiently.

Symbol	Item	Remarks
	Safety	A matter which needs special safety attention when work is performed
	Caution	A matter which especially needs technical attention or quality maintenance attention when work is performed
	Tightening torque	Tightening torque of a part which needs special attention in assembly work
	Coat	A portion to be coated with adhesive, grease, etc. in assembly work

10. Outline

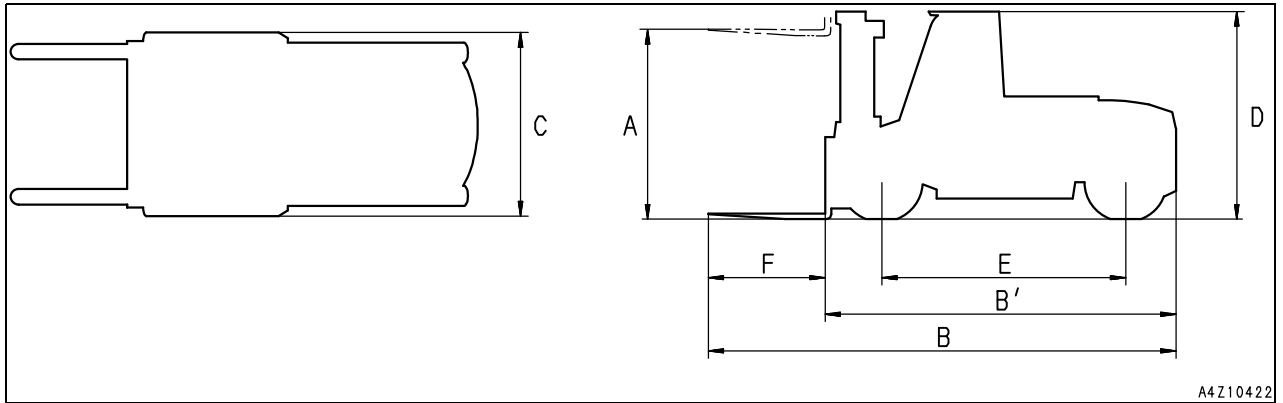
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Specifications

Lift truck with fork specification

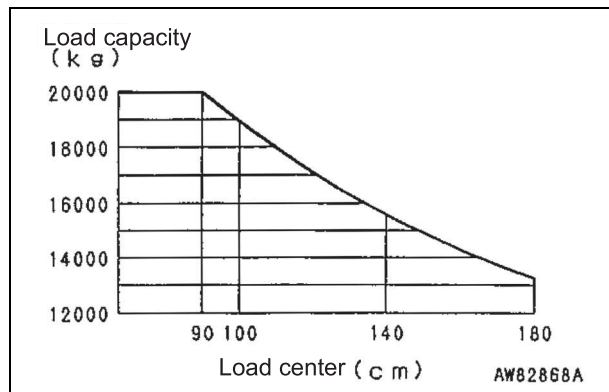
Item			Unit	FD200-7	FD250-7
Rated capacity			kN	196 [163]	245
			kgf	20,000 [16,600]	25,000
Load center			mm	900 [1,220]	1,220
Max. lifting height		A	mm	3,000	
Mast tilting angle (forward/backward)			deg.	6/12	
Fork lifting speed	With load		mm/s	270	275
Max. travel speed	Forward		km/h	28	32
Number of gear speeds	Forward/Reverse		—	F4/R4	
Gradeability	1.5km/h		%	17	18
Min. turning radius			mm	5,250	5,850
Overall length	Fork end	B	mm	7,205 [7,905]	8,695 [8,800]
	Fork face (Truck length)	B'	mm	5,385 [5,485]	6,275 [6,380]
Overall width		C	mm	3,095	
Overall height	Top of cab	D	mm	3,705	
	Mast height, lowered		mm	3,640	3,800
Wheelbase		Ev	mm	3,700	4,400
Tread	Front wheel		mm	2,230	
	Rear wheel		mm	2,265	
Min. ground clearance			mm	325	305
Fork opening width			mm	950 to 2,500 [940 to 2,730]	1,010 to 2,500 [970 to 2,760]
Fork size	Length	F	mm	1,820 [2,420]	2,420 [2,420]
	Width x Thickness		mm	280×95 [280×100]	310×107 [310×107]
Fuel tank capacity:			ℓ	400	600
Tire size	Front wheel		—	14.00-24-20PR	14.00-24-24PR
	Rear wheel		—	14.00-24-20PR	14.00-24-24PR
Service weight			kg	27,670 [28,500]	32,850 [33,500]
Engine	Manufacturer		—	KOMATSU	
	Name		—	SAA6D107-1-A	SAA6D107-1-B
	Rated output		kW/{HP}/rpm	122{164}/2,200	154{206}/2,200
	Max. torque		Nm/{kgm}/rpm	575{58.6}/1,600	931{95}/1,500
	No. of cylinders - Displacement		ℓ{cc}	6-6.69{6,690}	

[] :Value of hydraulic fork positioner with side shift function

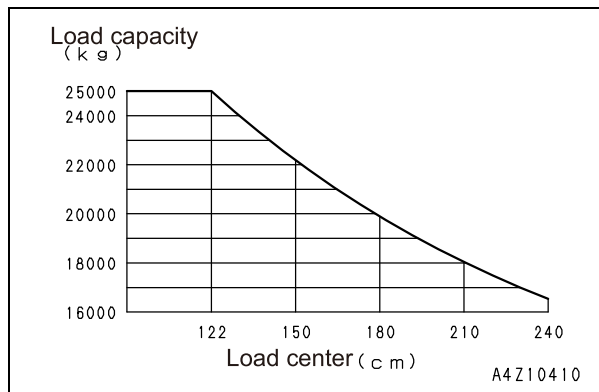


Load capacity curve

Fork specification FD200-7



FD250-7



Side shift type fork mover spec.

