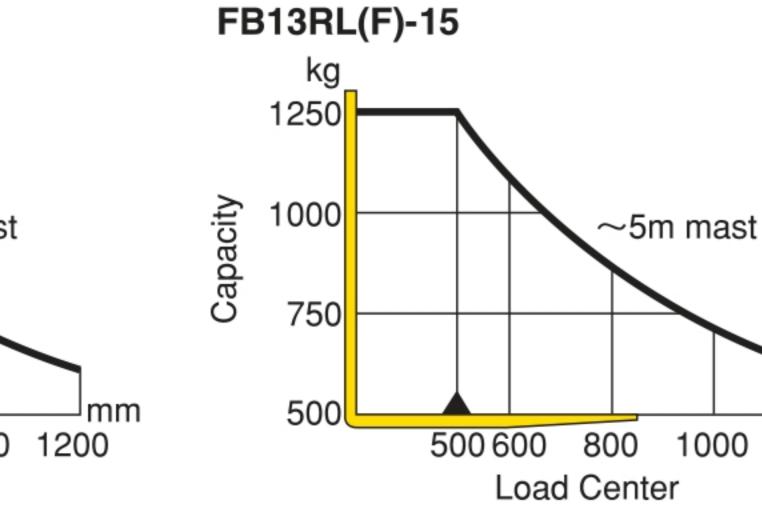
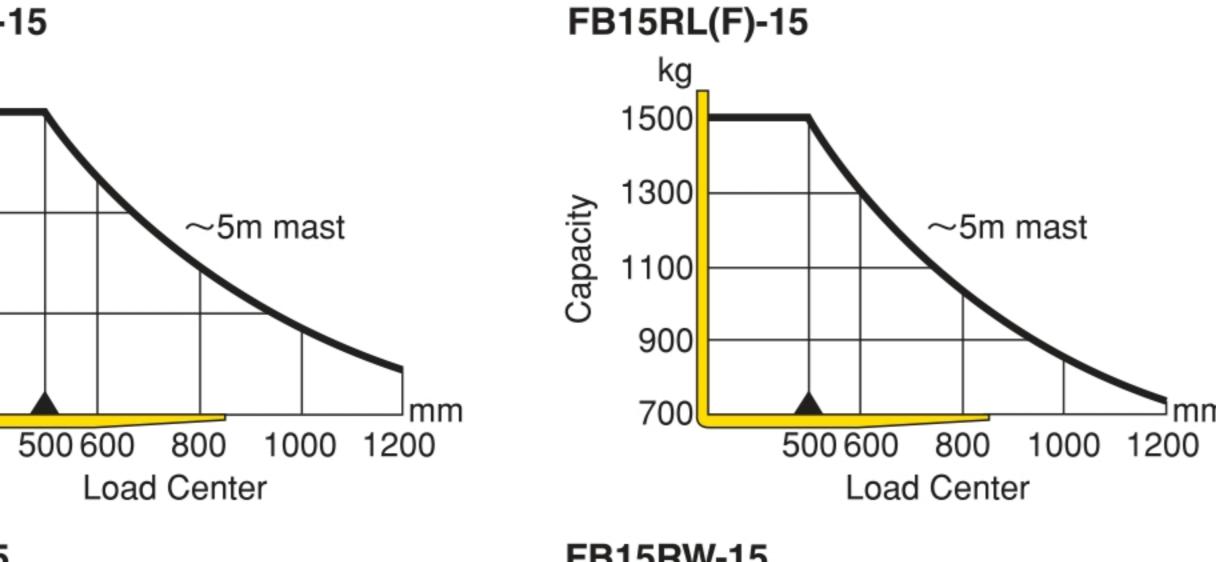
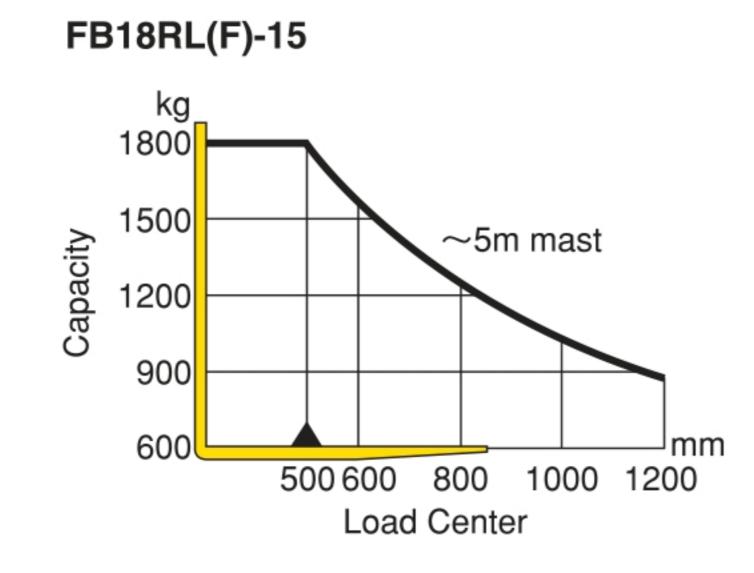
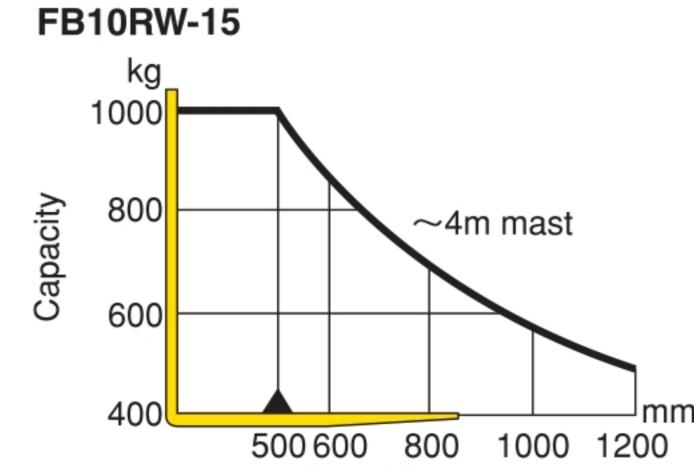
# Capacity chart (2-stage free view mast)

# FB10RL(F)-15 500 600 800 1000 1200

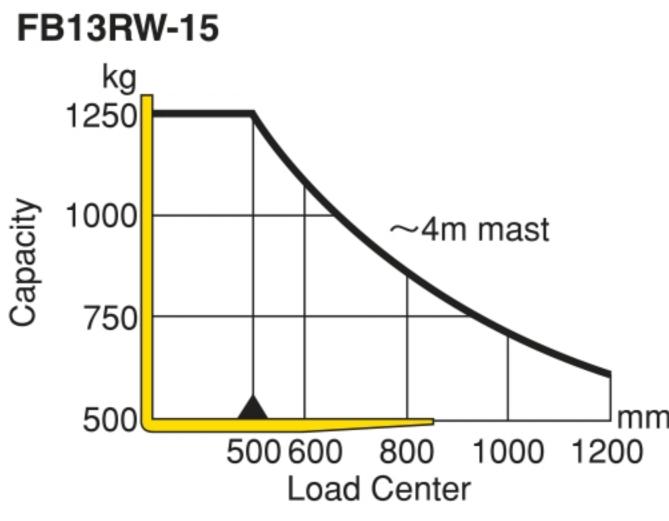


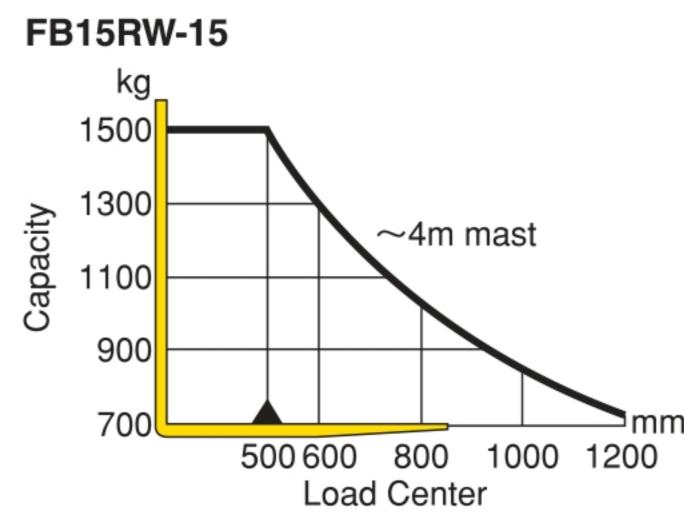






Load Center

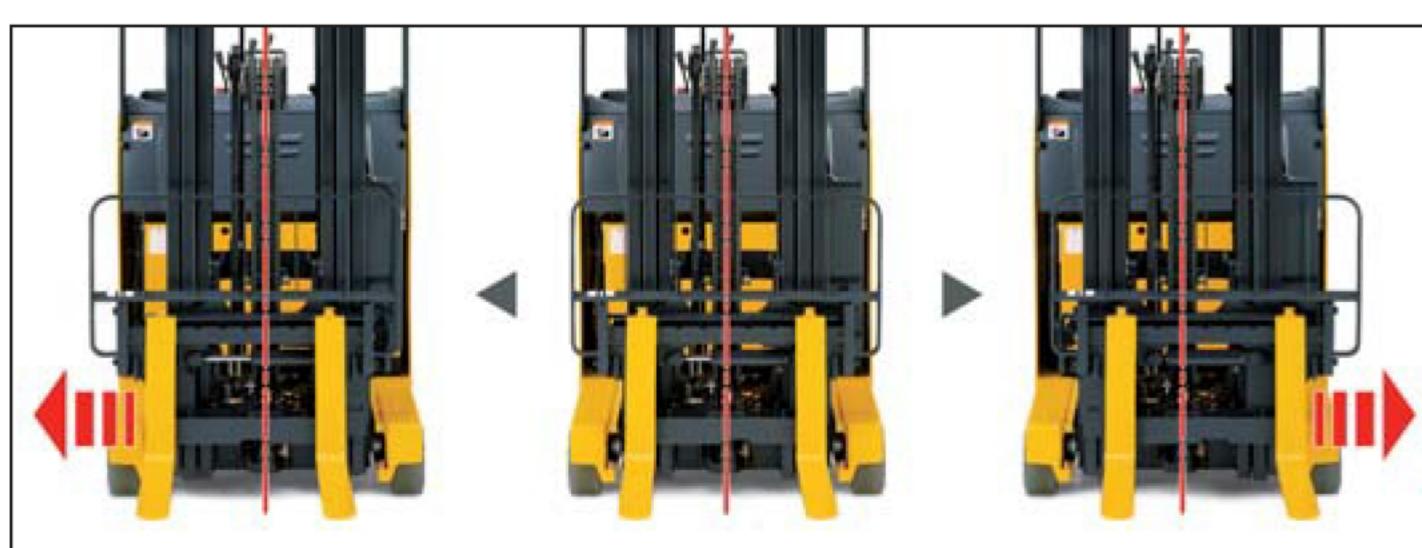




Load capacity except for 500mm load center is reference only.

# Attachments / Options

- Attachments
- Integral Side Sifter



- Hinged Fork
- Roll Clamp
- Rotating Fork
- Fork Positioner

# Options

Bright and energy-saving lamp

LED Head Lights



Load Checker

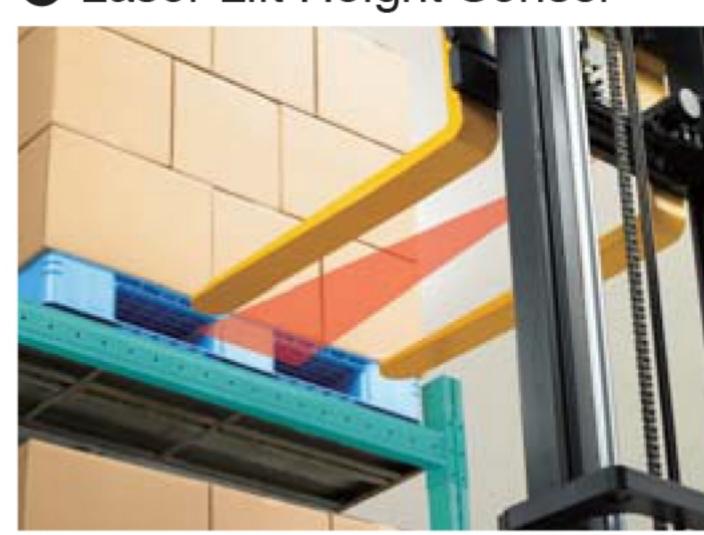


It indicates a rough load value in multiples of 10kg.

LED Yellow Strobe Light



Laser Lift Height Sensor



Newly made available for coldstorage models\*

Guiding laser beam indicates the actual height of the fork accurately, allowing the operator to insert the fork into the pallet safely and quickly. \* Available for limited masts of FB15RLF/18RLF

www.Komatsu.com

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Form No.BR-1.0-1.8tReach-15

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# REACH TRUCKS BATTERY



Photo may include optional equipment

**Economy** 

Komatsu new reach trucks satisfy both outstanding drive performance and considerable reduction in operating cost



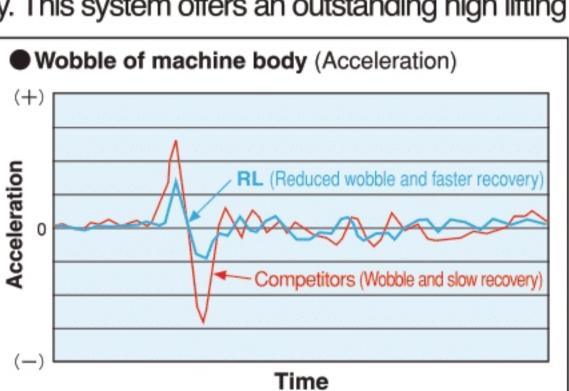
## **Excellent stability, safety and drive performance**

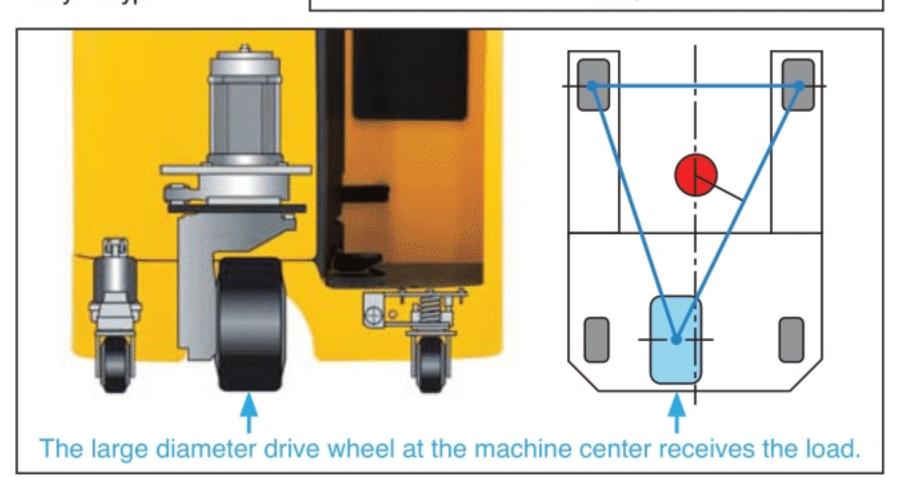


Komatsu center drive system is the key to safe and secure operation

High stability in cargo handling is ensured thanks to a design that enables receiving the load by the center drive wheel. With larger load distribution to the rear wheels, the machine demonstrates excellent longitudinal stability both in reach-in and reach-out operations. The residual capacity is not reduced up to a lifting height of 5 m, load swing is cut considerably. This system offers an outstanding high lifting

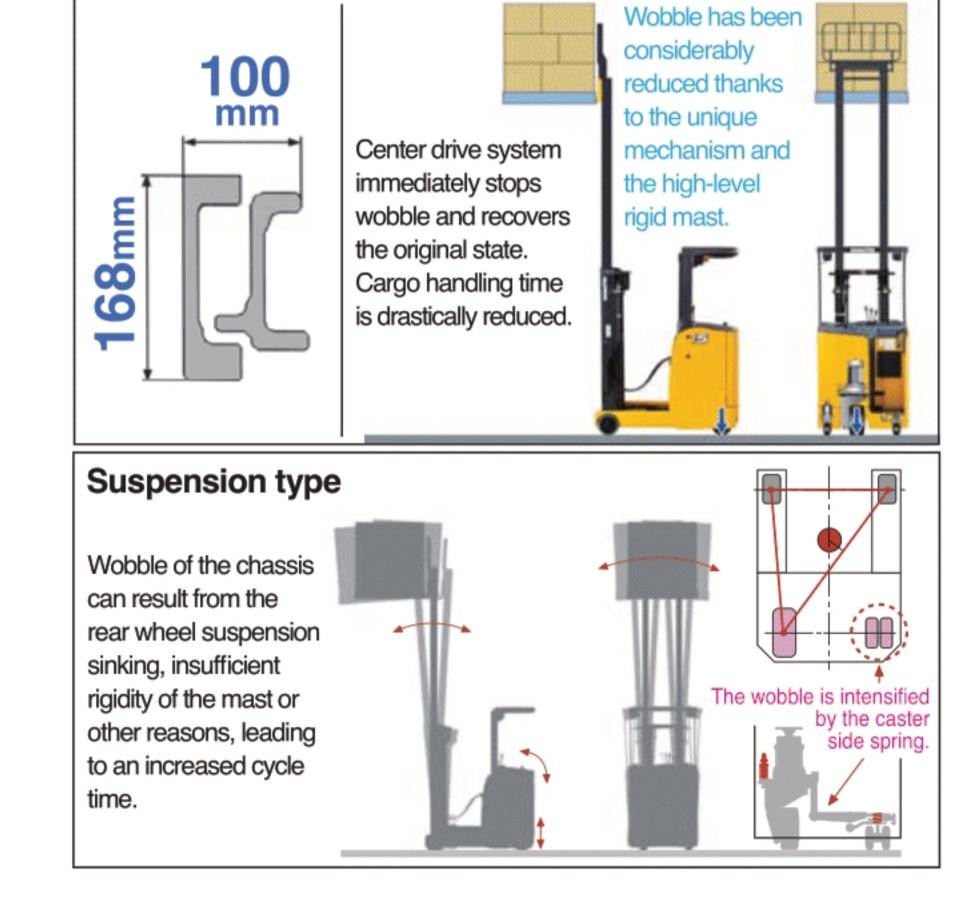
performance. The machine performs jobs energetically with a compact body and reduces cycle time drastically. It offers by far the best operating capacity. \*Only RL type





The new mast has the best rigidity in its class

The outer mast is same profile as the 3.0 ton trucks series, substantially increased stability during cargo handling. The sturdy mast decreases load swing dramatically. Since you don't have to wait for the load swing to dissipate, you can reduce the cycle time drastically.





The viscous damper ensures high turn stability

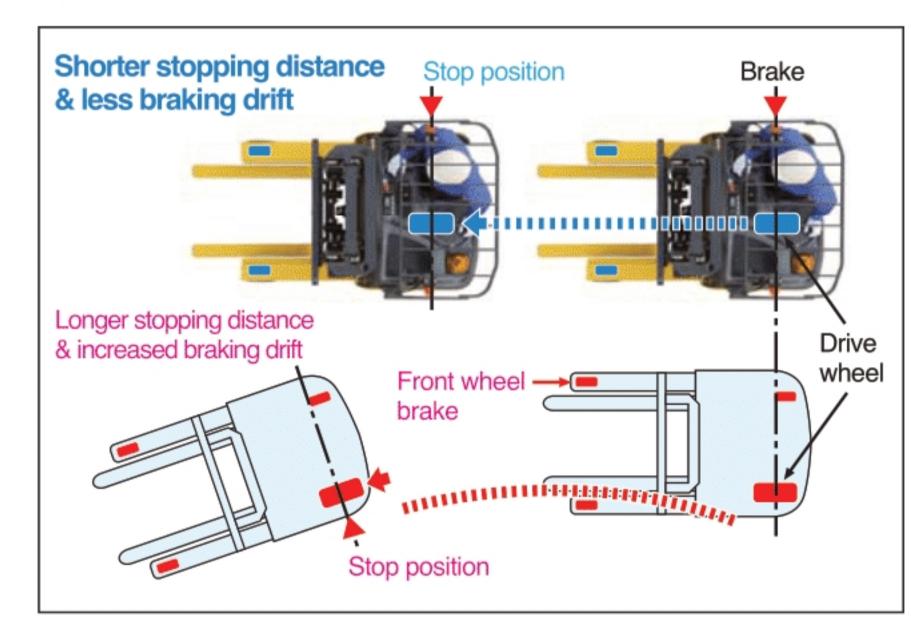
Combined with Komatsu's original Center Drive System, the revolutionary viscous damper, that is employed in Komatsu construction machinery and highly reputed, reduces wobbling of the machine during turning considerably. As the result, the cycle time is reduced.





High gripping performance ensures positive

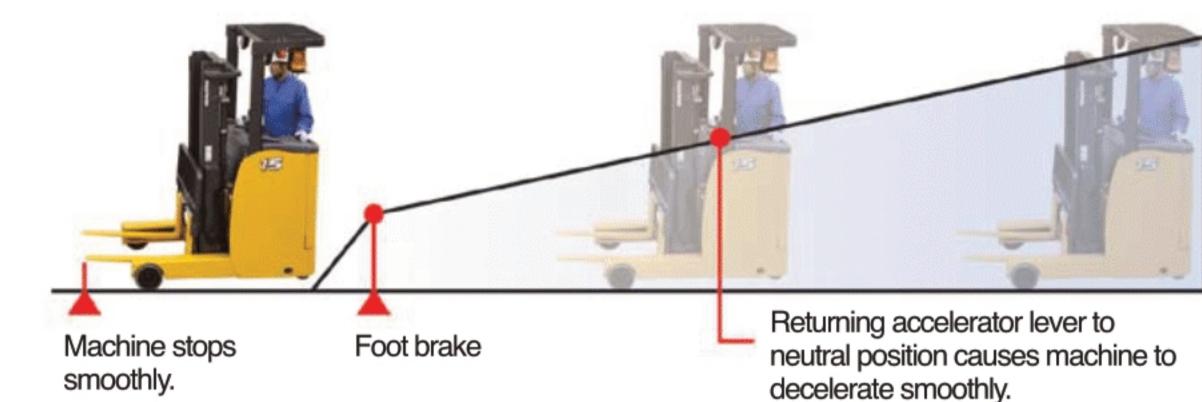
In the Center Drive System, by moving the drive tyre closer to the center of the chassis, the stopping mechanism reduces off-center drift when braking. When starting and braking, drive torque force is transmitted effectively from the tyres to the floor surface ensuring positive traction. This positive drive force results in faster work performance in all floor conditions.



The accelerator neutral regeneration function allows quick and fine control of the machine

\* Ask Komatsu service personnel for adjustment of the accelerator neutral regeneration function.

Since the machine is equipped with the accelerator neutral regeneration function, the operator can perform smooth plugging of the machine. When the accelerator lever is moved to the neutral position, the machine starts to decelerate gradually. This fine control function contributes to prevention of load dropping. In addition, this function reduces the need to use the foot brake, resulting in less operator's fatigue. Thus, comfortable and safe controllability of the machine minimizes stress on the operator drastically.



# Komatsu technologies reduce operating costs



AC motor features high efficiency and low operating cost

AC motors continue to be used as the drive motor and pump motor. Since AC motors feature longer operating time per charge, the time to be used for charging is reduced and longer working hours can be spent on actual work. In addition, AC motors eliminate the need to replace motor brushes and contacts, which is inevitably required for DC motors. Thus, the downtime is reduced and the maintenance cost is also reduced.

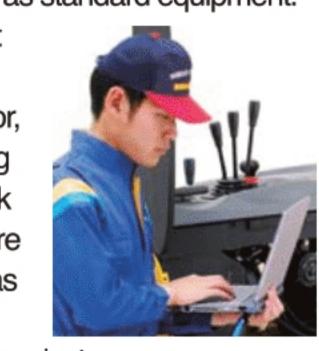




setup are available In addition to the setup function using the meter panel, the machine is equipped with the PC-based setup function\* as standard equipment.

PC-based setup in which finer adjustment and

This function allows independent adjustment of intensity, speed, and other properties of plugging, stopping, starting, brake, accelerator, etc. according to your work and maneuvering feeling of the operator. You can perform quick and precise troubleshooting in case of a failure thanks to this function. Thus, the machine has excellent maintainability.



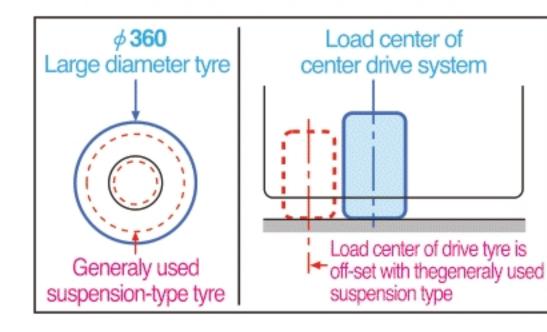
\* Ask Komatsu service personnel to perform the PC-based setup.



Large drive tyre ensures excellent stability

The Center Drive System that has high gripping performance and securely receives the load prevents the drive tyre from running idle when the machine starts to move or is set for

plugging. Combined with implementation of 360 mm largediameter tyre, the tyre life is further extended resulting in reduced tyre replacement cost.





Battery front removal structure reduces workloads and maintenance costs

A battery removal mechanism is employed to facilitate the daily supply of electrolyte to or replacement of the battery. Reduced labor for this periodical work contributes to reduction in time and cost for this task.



# Advanced Komatsu technologies for satisfaction both safety and operator's comfort

#### The Operator Presence Sensing system stops travel and lifting when operator is absent

HOMATSU

The interlock mechanism conforming to ISO 3691-1 safety standards is equipped as standard. If the operator leaves the forklift, the travel motion slows to forward momentum and then stops and lifting also stops. This protects the operator from malfunctions and unforeseen accidents.

Traveling interlocking mechanism cuts power transmission off but not serve to apply the brake.



The lifting work interlock is displayed on the monitoring



The floor switch structure allows easy getting on and off



Travel and lifting are stopped when the operators leaves the compartment

#### Reliable emergency switch to prepare for emergencies

The machine is equipped with the emergency power supply shutoff button to protect the operator and precious cargos in case of emergencies. In an emergency, the electric emergency switch allows the operator to turn off power of the truck with light effort.



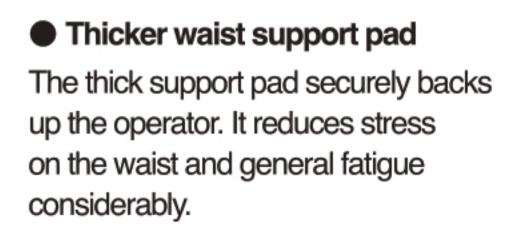
Automatic power off function prevents wasting of battery power

Automatic power off function is installed as standard equipment. If a machine is not operated for 15 minutes, the drive system power automatically goes off. It prevents wasting of battery power.

#### Designs to reduce burden of operator

#### Reduced floor height design

The reduced floor height design has substantially reduced the burden from frequent entering and exiting the machine during work. And the floor mat absorbs vibrations to alleviate operator fatigue.







### Various devices to support high level of work efficiency and safety

Easy- and light-to-operate controls

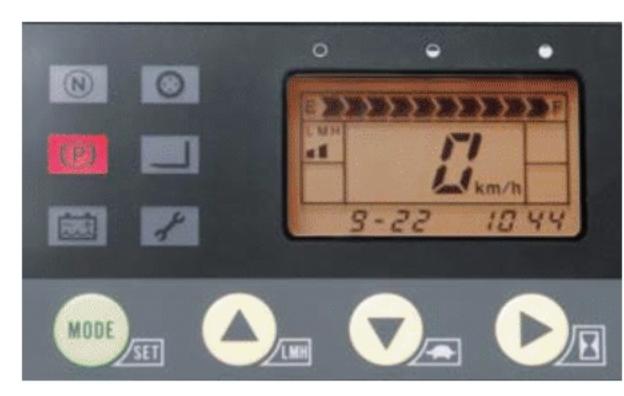
#### Small diameter steering wheel

The steering wheel is located at the optimal place for ease of operation. The compact small diameter steering wheel allows control of the machine with less turn.



#### Backlit meter panel

The size, layout, and shape of the meter panel are optimized. The backlit meter panel is easyto-read and allows the operator to know machine conditions at a glance even in dark places.



#### Assist grip

The assist grip integrated with arm pad is installed as standard equipment. You can operate the accelerator lever while holding the grip.



#### Load backrest

The lower plate of load backrest is inclined to provide good front visibility. This design facilitates position checking during loading and unloading operations.



#### Brake pedal

Pedal effort of the foot brake that is frequently used is lowered to reduce fatigue of the operator.



#### Fork soft-landing device

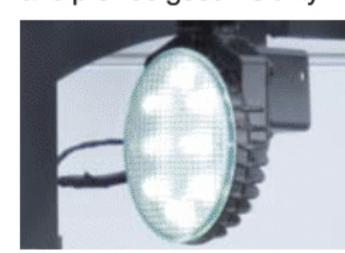
This device automatically decreases lowering speed of the fork immediately before the fork touches the floor. As a result, landing shock of the fork is minimized and the floor is not damaged. Furthermore, landing noise is minimized to provide comfortable work environment.



# Devices to improve safety (optional)

#### LED head light

LED head lights feature longer service life and high brightness and provide good visibility.





#### LED yellow strobe light

LED yellow strobe light features longer service life and is highly visible. This lamp securely calls attention of persons around to the

machine





# Performance property setup function

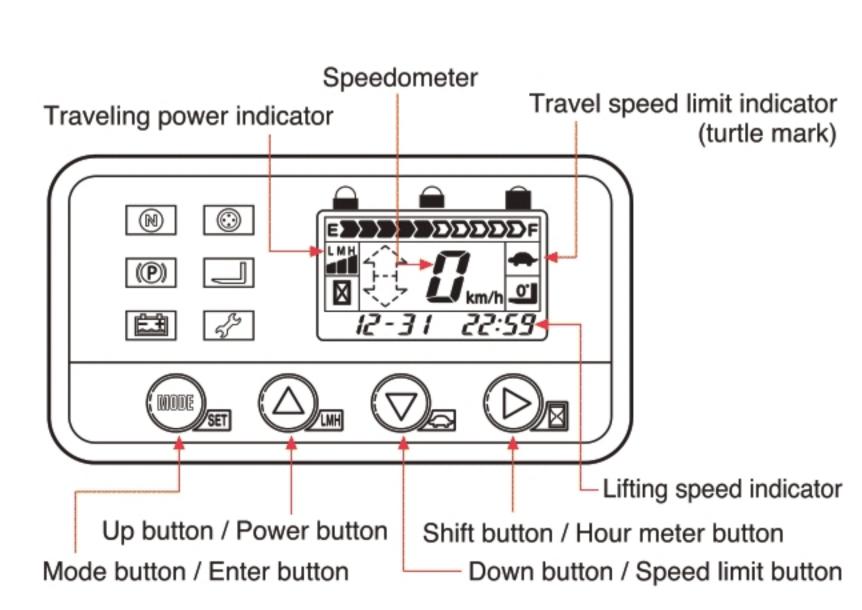
Travel speed and lifting force of the machine are easily set by using buttons according to the work and maneuvering feeling of the operator. In addition, this function allows adjustment of reach speed, lift speed and setting of braking force as well. Finer setting of the machine properties realizes smoother operation.



Each machine property has a wide setting range to meet your requirement.

Brake regeneration	1-100
Soft-start	6 stages
Attachment speed	0-100
Accelerating speed	4 stages
Travel speed limit	

<sup>\*</sup> Ask Komatsu service personnel to perform setting of the machine according to maneuvering feeling of the operator



# Major equipment / Line up

●:Stadard ○:Option △:Available upon request -:N/A S:Adjustable by service mechanic

			Model		DI 1	Turno			DW Type	
_	winment and Eurotian		Model			Type	ED10DL/E\ 15	FB10RW-15	RW Type	FB15RW-15
	quipment and Function	I Customs)		FB10KL(F)-15	FB13RL(F)-15	FB15RL(F)-15	FB18RL(F)-15	FB10RW-15	FB13RW-15	FB15RW-15
IC	S (Intelligent Computer Contro			AC	AC	40	AC	AC	AC	AC
Motors  Drive Motor  Pump Motor  Electric Power Steering (EPS)				AC AC	AC AC	AC AC	AC AC	AC AC	AC AC	AC
				AO	AO	AO	AO	•	•	•
Vi	scous Damper			•	•	•	•	_	_	_
	AN-Bus Network			•	•	•	•	•	•	•
		Traveling Speed Property		•	•	•	•	•	•	•
		Plugging Regeneration Prop	erty	●(S)						
		Brake Regeneration Proper	ty	●(S)						
	Traveling Property	Soft-start Property		●(S)						
dnı	Adjustment	Accelerator Property		●(S)						
Setu		Accelerator Neutral Regeneration	n Property	●(S)						
		Slope Regeneration		●(S)						
		Traveling Speed Control		•	•	•	•	•	•	•
	Hydraulic Operation	Lifting Speed Adjustment		0(0)	0(0)	0(0)	0(0)	0(0)	0(6)	0(0)
	Property Adjustment	Tilting Speed Adjustment Attatchment Speed		●(S) ●(S)						
		Speedometer		(5)	(5)	(3)	(5)	(5)	(3)	(5)
		Forward/Reverse Indicator		•		•	•	•	•	
		Speed Limit Indicator		•	•	•	•	•	•	•
		Calender/Service Meter		•	•	•	•	•	•	•
IM	S	Traveling Power Indicator		•	•	•	•	•	•	•
(In	telligent Monitoring System)	Battery Discharge Indicator		•	•	•	•	•	•	•
		Neutral Start Indicator		•	•	•	•	•	•	•
		Traveling Operator Presence Sensing	Warning Lamp	•	•	•	•	•	•	•
		Lifting Operator Presence Sensing V	aming Lamp	•	•	•	•	•	•	•
		Failure Indicator		•	•	•	•	•	•	•
		Anti-slip Control		•	•	•	•	•	•	•
O	peration Equipment Related		r Boots	•	•	•	•	•	•	•
		Soft-landing Device		•	•	•	•	•	•	•
		Operator Presence Sensing S		•	•	•	•	•	•	•
		(Lifting/Traveling Interlocking M	ecnanism)							
		Emergency Switch Neutral Start System (Travelin	aa / Liftina)							
		Automatic Power Off	ig / Litting)							
		Anti Roll-back						•		
		Travel Speed Limit			•	•	•	•	•	•
		Key-off Lift Lock		•	•	•	•	•	•	•
		Back-up Buzzer			•	•	•	•	•	•
		Load Checker		0	0	0	0	0	0	0
		Forward/Back-up Chime		0	0	0	0	0	0	0
Sa	fety Equipment	Wide-angle Center Mirror		0	0	0	0	0	0	0
		Assist Grip		•	•	•	•	•	•	•
		Head Light		•	•	•	•	•	•	•
		LED Head Light *1		0	0	0	0	0	0	0
		Turn Signal Lamps		0	0	0	0	0	0	0
		Rear Working Light		0	0	0	0	0	0	0
		LED Yellow Strobe Light *1	V-II	0	0	0	0	0	0	0
		Strobe Light	Yellow Red	0	0		0	0		
		(Linked With Key Switch)	Blue	0	0	0	0	0	0	0
		Lamp For Operator's Hand	Dide	0	0	0	0	0	0	0
		Fire Extinguisher		Ö	0	Ö	0	0	0	ő
		Leser Lift Height Sensor		0	0	Ō	Ö	0	Ö	Ō
Su	pportive Equipment	Automatic Lifting Stop Function	n			_				
for Hydraulic Operation		(with Fork Leveling Device)		_	_		0	_	_	_
		Softcarry (Hydraulic Accumulator) *2 Hydraulic Oil Gauge Self-diagnostic System Floor Mat		0	0	0	0	0	0	0
CI	neck Device			•	•	•	•	•	•	•
	IECK DEVICE			•	•	•	•	•	•	•
F	terior			•	•	•	•	•	•	•
		Soft Vinyl Head Guard Cover		0	0	0	0	0	0	0
O	thers	Paper Binder Stationary Battery Charger Battery Front Removal Structure Battery 201AH/5H Battery 225AH/5h		<u> </u>	-	•	• •	• •	•	•
				0		0	0	0	0	0
						•	_			_
				<u> </u>	0			0		_
Ва	attery			0	0	_		0	0	
Charger-related		Battery 240AH/5h Battery 280AH/5h				_	0		_	_
		Battery 312AH/5h		_	_	0	0		_	0
		Battery 370AH/5h		1_	_	Ö	ŏ	_	_	Ö
		Battery 390AH/5h		_	_	Ö	Ö	_	_	Ö
-		dala anti- *O - Aallahla fan O a			_	-			-	

<sup>\*1 :</sup> For normal temperature models only \*2 : Available for 2-stage free view mast only

# ■RL type FB10RL/FB13RL/FB15RL/FB18RL

The RL type employs Komatsu's original Center Drive System and ensures excellent gripping force, even on slippery surfaces. The design keeps residual capacity high and realizes stable drive performance and powerful work.

#### Cold-storage Models

#### FB10RLF/FB13RLF/FB15RLF/FB18RLF

Cold-storage models are designed to operate at temperatures down to -35°C. These models are also suited for operation at room temperature.

#### Major features for Cold-storage Models

- Controller cover Special hydraulic oil and grease
  Anticorrosive coating: Transfer, Load wheel, Drive wheel, Caster wheel, Steering system, Frame, Overhead guard, Service door, Cylinders, Mast, Hydraulic oil tank, Load backrest & fork carriage, Forks.



#### RW type

#### FB10RW/FB13RW/FB15RW

The RW type employs a suspension system, which greatly reduces vibration and shocks when traveling on uneven

floors or over gaps.
It gives greater stability duaring unloaded turns and ensures excellent maneuverability on any worksite.



# Specifications

1	1.2 Model Manufacture's Designation			FB10RL(F)-15	FB13RL(F)-15	FB15RL(F)-15	FB18RL(F)-15	FB10RW-15	FB13RW-15	FB15RW-15		
Section   Section   Proceed   Proceed   Section   Sect	ω 1.3		-									Electric
	÷ 1.4	The state of the s			g, Order Picking	Standing						
	1.5	Rated Capacity	Q1	Rated Capacity	kg	1000	1250	1500	1800	1000	1250	1500
19   Melenbeson   1	1.6	Load Center	С	Load Center	mm	500	500	500	500	500	500	500
13   Membrane	E 1.6.1	Alternative Capacity	Q2	Capacity @ 600mm Loa	ad Center kg	870	1080	1300	1560	870	1080	1300
Example No. Coparing February   Example No. Coparing Februar	1.8	Load Distance	Х	Front Axle Center to For	k Face mm	175	175	175	175	175	175	175
2.4.1   Avice Leading   2.4.2   Avice Leading   2.4.3   Avice Leading   2.4.			у									1350
2.2.1   Mark Forks Endranded   Piort   Ng   995   890   940   99		Service Weight	Includ	<u> </u>								2185
2			Load	ed ————								3230
	10 m											455
2.5.2   Mast Forker Referenced   LoopCode   Form   Mg   1000   1240   13300   14600   10500   12355   1.7.	1 2.4.2	INIASI/FOIKS Exterided	Unlo	aded ————								945 1240
2.5.2   Mast Fore Referenced   Chounder   Fore   Mg   1050   1240   1330   1600   1600   1650   1235   170	Ø 2.4.5 ≥ 2.5											2350
Description   Port   Fig.   Grown   Fort   Fig.   Grown   Fort   Fig.   Grown   Fig.   Fig.   Grown   Fig.   Grown   Fig.   Fig.   Grown   Fig.   Grown   Fig.   Fig.   Fig.   Grown   Fig.   F		Axle Loading	Load	ed —	_							1335
2.31   Vier Dipo   Solid   S			l	Front								705
Solid   Soli	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Unlo	Rear		1305	1375	1470	1575	1300	1370	1480
Section   Paper	$\rightarrow$					Solid						
Section   Additional Wheels	3.2	Tyre Size	Front			φ 260x120	φ 260x120	φ 254x114	φ 254x120	φ 260x120	φ 260x120	φ 254x114
3.5   Namber of Wheel   Front   Fron	13.3		Rear			φ 360x180	φ 360x180	φ 360x180	φ 360x180	φ 330x145	φ 330x145	φ 330x145
3.6   Teacl, Front   10   10   mm   975							· ·	· ·	,	<u> </u>	,	φ 150x80
1		**************************************	_	/Rear(*=driven)								2/1*+2
42   Mast Hight Lowered II with Std. Mast, from Ground mm   1995   199			-			975	975	975	975	975	975	975
Mast Height, Lowered   ht   with Std. Mast   mm   1996	_		-	Farmerd/Daylaward		-	- 0/5	-	-	- 0/5	- 0/5	-
A												3/5
Add			-									1995 105
A			-	· · · · · · · · · · · · · · · · · · ·								3000
A-19   Length, With Std. Forks   11		-	-									3935
Length, with Stat. Forks   11	4.7			THE OCC. MAGE								2245
Registration   Section	4.19											2005
Pin Mount	4.21		b1		mm	1095	1095					1080
Real Properties   Fig.   Fook Carlage   Data   D		Forks	s/e/l	Thickness/Width/Length	n mm	35x100x850	35x100x850	35x100x850	38x100x920	35x100x850	35x100x850	35x100x850
2.86   Width, between Reach Lags   44   mm	·S 4.23	Fork Carriage Class				Pin Mount						
Reach Travel	ē 4.24	Width, Fork Carriage	b3		mm	750	750	750	750	750	750	750
## 4.31 Ground Clearance ## under the Mast ## mm   75   75   75   75   75   75   75	4.26		b4		mm	752	752	752	752	752	752	752
4.32					mm							580
A33   Right Angle Stacking Aisle   Ast   with L1000 x W1200 pallet   mm   2275   2310   2405   2460   2275   2310   22   2355   2450   2475   2340   2355   2450   2475   2450		Ground Clearance	-									75
4.34	200	Dight Apple Ctacking Aigle										80
4.35.1   Turning Radius		Hight Angle Stacking Alsie	-									2405 2450
4.35.2		1 Turning Radius		WILLT E 1200 X VVO00 Palie								1560
## 4.37 Length, without Forks   17			-									555
5.1   Travel Speed (FWD)   Loaded/Unloaded   km/h   9.5/10.5   9			-									1710
Sociation   Soci	_		Load	ded/Unloaded	km/h	9.5/10.5	9.5/10.5	9.5/10.5		9.5/10.5	9.5/10.5	9.5/10.5
Section   Sect	5.2	Lifting Speed	Load	ded/Unloaded	mm/s	350/540	320/540	320/540	300/540	350/540	320/540	320/540
Second   S	g 5.3	Lowering Speed	Load	led/Unloaded	mm/s	500/550	460/550	460/550	460/550	500/550	460/550	460/550
Sample   S	5.4	Reach Speed	Load	aded/Unloaded mm/s		300/300	300/300	300/300	300/300	300/300	300/300	300/300
5.10 Service Brake Operation/Control Mechanical, Disc Mec	0		_		N							6080
5.11 Parking Brake Operation/Control Mechanical, Disc Mec	~ —		_		g %							29
5.12   Steering   St			<u> </u>								-	Mechanical, Disc
6.1 Drive Motor (AC) 60min rating kW 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 6.2 Pump Motor (AC) 5min rating kW 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	10.00	-	<u> </u>	•								Mechanical, Disc
6.2 Pump Motor (AC) 5min rating kW 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	_		_									4.5
6.2.1 PS Motor (DC) 60min rating kW 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	10 CO		_									9.0
6.4 Battery Voltage	621		_									0.3
6.4.1 Battery Capacity, Min. 6.4.2 Battery Capacity, Max. 6.5 Battery Weight, Min. Capacity 8.1 Drive Motor Control 8.1.1 Pump Motor Control 8.1.2 PS Motor Control 8.1.2 PS Motor Control 8.1 Drive Mose FET inverter Mose FET inve	€ 6.4		001111	· · · · · · · · · · · · · · · · · · ·	V							48
6.4.2 Battery Capacity, Max. 6.5 Battery Weight, Min. Capacity  kg 365  MOS-FET inverter  MOS-FET inve	6.4.1		Ah/5-hour									280
6.5 Battery Weight, Min. Capacity kg 365 365 495 495 365 365 495 365 365 495 365 365 495 365 365 495 365 365 495 365 365 495 365 365 495 365 365 365 495 365 365 365 365 495 365 365 365 365 365 365 365 365 365 36	1000											390
8.1   Drive Motor Control   MOS-FET inverter   M								495			365	495
8.1.2 PS Motor Control 8.2 Relief Pressure for Attachment  MOS-FET chopper MOS	8.1						MOS-FET inverter					
0.2   Hollot   Toodar of Allaca   Hor	ဖ 8.1.1	Pump Motor Control				MOS-FET inverter		MOS-FET inverter		MOS-FET inverter		MOS-FET inverter
O.E Homen recoder for recoder for recoder for recoder for recoder for recoder	8.1.2						MOS-FET chopper					
8.2.1   Hydraulic Tank Capacity   Ltr   16   16   16   16   16   16   16   1	8.2											167
	8.2.1	Hydraulic Tank Capacity	Ltr			16	16	16	16	16	16	16

#### Dimensions

