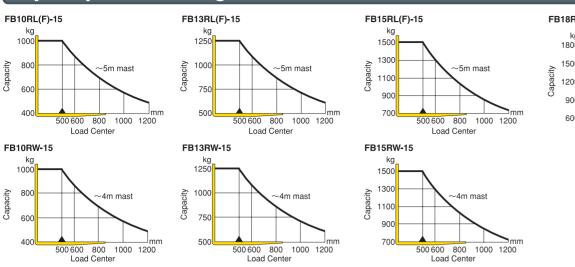
Capacity chart (2-stage free view mast)



FB18RL(F)-15 1800 1500 5m mast 1200 900 500 600 800 1000 1200 Load Center

Load Checker

71

multiples of 10kg.

Load capacity except for 500mm

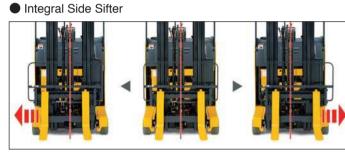
load center is reference only.

KOMATSU



Attachments / Options

Attachments



- Hinged Fork
- Roll Clamp
- Rotating Fork



Options Bright and energy-saving lamp



LED Yellow Strobe Light



It indicates a rough load value in

1 km

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

Printed in Japan 0312-1-03 IP.KAI



Form No.BR-1.0-1.8tReach-15

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Photo may include optional equipment

Productivity

& **Economy**

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

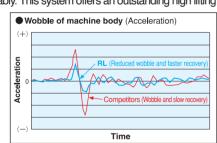


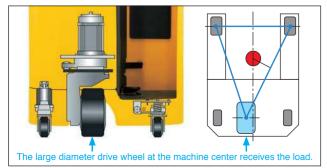
Excellent stability, safety and drive performance

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

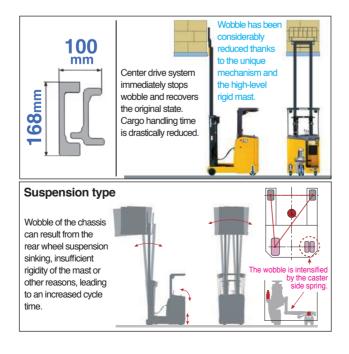
performance. The machine performs jobs energetically with a compact body and reduces cycle time drastically. It offers by far the best operating capacity. *Only RL type





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





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

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.



smoothly

Komatsu technologies reduce operating costs

AC motor features high efficiency and low operating cost

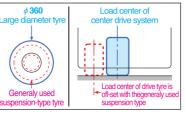
AC motors continue to be used as the drive motor and pump motor. Since AC motors feature longer operating time per charge, the time to be used for charging is reduced and longer working hours can be spent on actual work. In addition, AC motors eliminate the need to replace motor brushes and contacts,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



Large drive tyre ensures excellent stability

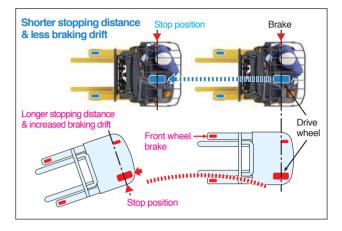
The Center Drive System that has high gripping performance and securely receives the load prevents the drive tyre from running idle when the machine starts to move or is set for

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

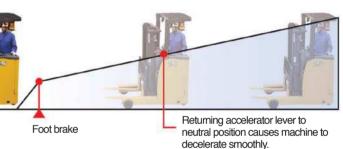




In the Center Drive System, by moving the drive tyre closer to the center of the chassis, the stopping mechanism reduces off-center drift when braking. When starting and braking, drive torgue force is transmitted effectively from the tyres to the floor surface ensuring positive traction. This positive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



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



PC-based setup in which finer adjustment and 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.

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.

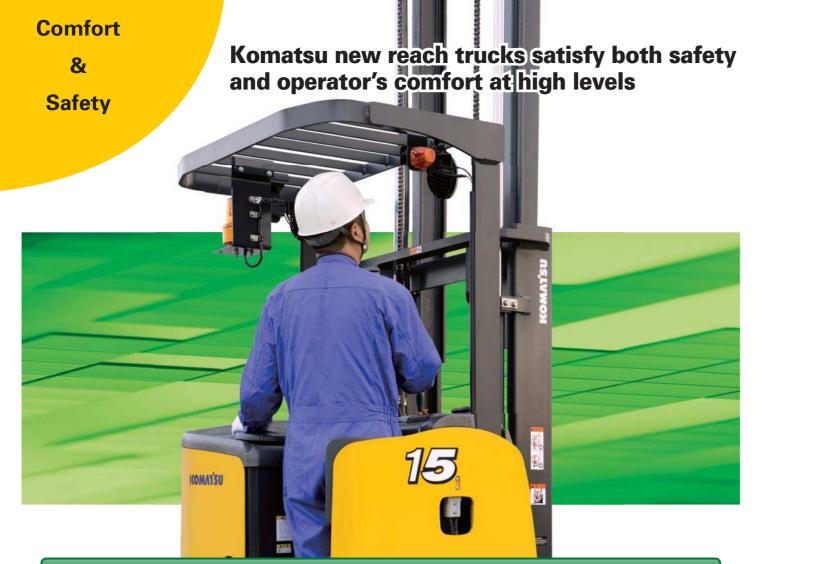


* Ask Komatsu service personnel to perform the PC-based setup.

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 lifting work interlock is

displayed on the monitoring

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

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.



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.

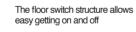


system

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.





operator fatique.

Travel and lifting are stopped when the operators leaves the compartment

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
- Thicker waist support pad The thick support pad securely backs up the operator. It reduces stress on the waist and general fatigue considerably.





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.



operate the accelerator lever while holding the grip.

Load backrest

Assist grip



Backlit meter panel

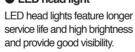
The size, layout, and shape of the meter panel are optimized. The backlit meter panel is easyto-read and allows the operator to know machine conditions at a glance even in dark places.





Devices to improve safety (optional)

LED head light





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

Soft-start	6 stag
Attachment speed	0- 1
Accelerating speed	4 stag
Travel speed limit	

Ask Komatsu service personnel to perform setting of the achine according to maneuvering feeling of the operator



The assist grip integrated with arm pad is installed as standard equipment. You can



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.



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





Speedomete Travel speed limit indicator Traveling power indicator (turtle mark) (P) 1-100 0. 12-31 22:59 ges 100 ges Lifting speed indicator Up button / Power button Shift button / Hour meter button Mode button / Enter button Down button / Speed limit button

Major equipment / Line up

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

		Model		RL	Гуре			RW Type	
Equipment and Function		. 1	FB10RL(F)-15	FB13RL(F)-15	FB15RL(F)-15	FB18RL(F)-15	FB10RW-15	FB13RW-15	FB15RW-1
CS (Intelligent Computer Contro	System)		•	•	•	•	•	•	•
oo (intelligent oornpater oontro	Drive Motor		AC	AC	AC	AC	AC	AC	AC
otors	Pump Motor		AC	AC	AC	AC	AC	AC	AC
	Electric Power Steering (EPS)		•	•	•	•	•	•	•
iscous Damper	Electric Forver Occorning (EFO)		•	•	•	•	_	_	_
AN-Bus Network				•	•	•	•	•	•
AIN-DUS INCLIVOIR	Traveling Speed Property		•	•	•	•	•	•	•
			•(S)	•(S)	•(S)	•(S)		-	
	Plugging Regeneration Proper	ly	. ,				•(S)	•(S)	(S)
	Brake Regeneration Property	(S)	•(S)	•(S)	(S)	•(S)	•(S)	(S)	
Traveling Property	Soft-start Property	(S)	•(S)	•(S)	(S)	•(S)	•(S)	(S)	
djustment	Accelerator Property	(S)	•(S)	•(S)	•(S)	•(S)	•(S)	●(S)	
	Accelerator Neutral Regeneration F	•(S)	•(S)	•(S)	•(S)	•(S)	•(S)	•(S)	
	Slope Regeneration	•(S)	•(S)	•(S)	•(S)	•(S)	•(S)	•(S)	
	Traveling Speed Control	•	•	•		•	•	•	
Hydraulic Operation	Lifting Speed Adjustment	•						•	
Property Adjustment	Tilting Speed Adjustment		•(S)	•(S)	•(S)	•(S)	•(S)	•(S)	•(S)
	Attatchment Speed		•(S)	•(S)	•(S)	•(S)	•(S)	•(S)	•(S)
	Speedometer		•	•	•		•	•	•
	Forward/Reverse Indicator		•	•	•	•	•	•	•
	Speed Limit Indicator		•	•	•	•	•	•	•
IMS	Calender/Service Meter		•	•	•	•	•	•	
	Traveling Power Indicator		•	•	•	•	•	•	•
ntelligent Monitoring System)	Battery Discharge Indicator		•	•		•	•	•	•
- 5.,,	Neutral Start Indicator		•	•	•	•	•	•	•
	Traveling Operator Presence Sensing Wa	ming Lamp	•	•	•	•	•	•	•
	Lifting Operator Presence Sensing War		•	•	•	•	•	•	•
	Failure Indicator		•	•	•	•	•	•	•
	Anti-slip Control		•	•	•	•	•	•	•
peration Equipment Related	Operatring Lever With Rubber B	Boots	•	•	•	•	•	•	•
operation Equipment neiated	Soft-landing Device		•	•	•	•	•	•	•
	Operator Presence Sensing Sys	etom	-	-	-	_	-		
			•	•	•	•	•	•	•
	(Lifting/Traveling Interlocking Mec	nanisin)	•	•	•	•	•	•	•
	Emergency Switch Neutral Start System (Traveling / Lifting)				•	•	•	•	
		/ Linung)	-			-			
	Automatic Power Off	•	•	•	•	•	•	•	
	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
afety 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		0	0	0	0	0	0	0
	Onder Links	Yellow	0	0	0	0	0	0	0
	Strobe Light	Red	0	0	0	0	0	0	0
	L(Linked With Key Switch)	Blue	0	0	0	0	0	0	0
	Lamp For Operator's Hand		0	0	Ö	0	0	0	0
	Fire Extinguisher		0	0	0	0	0	0	0
	Leser Lift Height Sensor		0	0	0	0	0	0	0
Supportive Equipment for Hydraulic Operation	Automatic Lifting Stop Function								L ~
	(with Fork Leveling Device) Softcarry (Hydraulic Accumulator) *2		_	-	0	0	-	-	-
			0	0	0	0	0	0	0
	Hydraulic Oil Gauge	// 2		•	•	•	•	•	•
heck Device	Self-diagnostic System Floor Mat		•	•	•	•	•	•	•
								-	
xterior			•	•	•	•	•	•	•
	Soft Vinyl Head Guard Cover		0	0	0	0	0	0	0
Others Battery Charger-related	Paper Binder		•	•	•	•	• 	• •	0
	Stationary Battery Charger		0	0	0	0	0	0	0
	Battery Front Removal Structure	Э	•	•	•	•	•	•	•
	Battery 201AH/5H		0	0	-	-	0	0	_
	Battery 225AH/5h		0	0	-	-	0	0	-
	Battery 240AH/5h		0	0	-	-	0	0	-
	Battery 280AH/5h		-	-	0	0	-	-	0
	Battery 312AH/5h		_	-	0	0	-	-	0
	Battery 370AH/5h		-	-	0	0	-	-	0
	Battery 390AH/5h		_	_	Ö	0	-	_	0

*1 : 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

1.2	Model	Manufacture's Designation				FB10RL(F)-15	FB13RL(F)-15	FB15RL(F)-15	FB18RL(F)-15	FB10RW-15	FB13RW-15	FB15RW-15
, 1.3	Power Type	Electric, Diesel, Gasoline, LPG, Cable				Electric	Electric	Electric	Electric	Electric	Electric	Electric
1.4	Operation Type	Pedestrian, Driver Standing, Sitting, Order Picking				Standing	Standing	Standing	Standing	Standing	Standing	Standing
1.5	Rated Capacity	Q1	Rate	d Capacity	kg	1000	1250	1500	1800	1000	1250	1500
1.6	Load Center	С	Load	Center	mm	500	500	500	500	500	500	500
1.4 1.5 1.6 1.6.1			Capa	acity @ 600mm Load Ce	nter kg	870	1080	1300	1560	870	1080	1300
1.8			Front	Axle Center to Fork Fac	e mm	175	175	175	175	175	175	175
1.9	Wheelbase	у			mm	1110	1250	1350	1500	1110	1250	1350
2.1 2.4 2.4.1 2.4.2 2.4.2 2.4.3 2.5	Service Weight	Including Mir		Capacity Battery, see line 6.5	kg	1985	2000	2175	2255	1985	2000	2185
			d a d	Front	kg	2545	2845	3235	3610	2545	2845	3230
	Axle Loading Mast/Forks Extended	Load	aea	Rear	kg	440	405	440	445	440	405	455
				Front	kg	895	880	940	960	900	880	945
		Unloa	aded	Rear	kg	1090	1120	1235	1295	1085	1120	1240
				Front	kg	1935	2010	2345	2455	1935	2015	2350
2.5.1	Axle Loading	Loa	ded	Rear	kg	1050	1240	1330	1600	1050	1235	1335
2.5.2	Mast/Forks Retrancted			Front	kg	680	625	705	680	685	630	705
2.5.3	-	Unk	aded	Rear	kg	1305	1375	1470	1575	1300	1370	1480
3.1	Tyre Type	-				Solid	Solid	Solid	Solid	Solid	Solid	Solid
3.2	Tyre Size	Front			¢ 260x120	¢ 260x120	φ 254x114	φ 254x120	φ 260x120	¢ 260x120	¢ 254x114	
3.3	·		Rear			φ 360x120	φ 360x120	φ 360x180	φ 260x180	φ 330x145	φ 330x145	φ 234x114 φ 330x145
3.4			Additional Wheels			φ 127x90	φ 127x90	φ 127x90	φ 127x90	φ 150x80	φ 150x80	φ 330x143 φ 150x80
3.5	Number of Wheel	Front/Rear(*=driven)			2/1*+2	2/1*+2	2/1*+2	2/1*+2	2/1*+2	2/1*+2	φ 130x80 2/1*+2	
3.6	Tread, Front	b10			mm	975	975	975	975	975	975	975
3.0	Tread, Rear	b10			mm	- 975	975	975	975	975	975	975
4.1	Tilting Angle	α/β	Eco	ard/Backward		3/5	3/5	3/5	3/5	3/5	3/5	3/5
		· ·			degree							
4.2 4.3 4.4	Mast Height, Lowered	h1 with Std. Mast			mm	1995	1995	1995	1995	1995	1995	1995
	Std, Free Lift		h2 with Std. Mast, from Ground mm			105	105	105	105	105	105	105
	Std, Lift Height		h3 with Std. Mast, from Ground mm			3000	3000	3000	3000	3000	3000	3000
4.5	Mast Height, Extended	h4 with Std. Mast mm			3935	3935	3935	3935	3935	3935	3935	
4.7	Height, Overhead Guard	h6 mm			2245	2245	2245	2245	2245	2245	2245	
4.19	Length, with Std. Forks	I1 mm			1905	1905	2005	2075	1905	1905	2005	
4.21	Width, at Tyre	b1	b1 mm			1095	1095	1095	1095	1080	1080	1080
€ 4.22	Forks	s/e/	Thick	ness/Width/Length	mm	35x100x850	35x100x850	35x100x850	38x100x920	35x100x850	35x100x850	35x100x850
4.23	Fork Carriage Class					Pin Mount	Pin Mount	Pin Mount	Pin Mount	Pin Mount	Pin Mount	Pin Mount
4.22 4.23 4.24 4.26 4.26 4.28 4.31 4.32	Width, Fork Carriage	b3	b3		mm	750	750	750	750	750	750	750
	Width, between Reach Legs	b4	b4 mm			752	752	752	752	752	752	752
	Reach Travel	14 mm			440	580	580	730	440	580	580	
	Ground Clearance	m1	unde	r the Mast	mm	75	75	75	75	75	75	75
	Right Angle Stacking Aisle	m2	at the	e center of Wheelbase	mm	80	80	80	80	80	80	80
4.33		Ast		L1000 x W1200 pallet	mm	2275	2310	2405	2460	2275	2310	2405
4.34		Ast		L1200 x W800 pallet	mm	2340	2355	2450	2475	2340	2355	2450
4.35.1	Turning Radius	Wa			mm	1325	1465	1560	1715	1325	1465	1560
		Wb			mm	670	555	555	555	670	555	555
4.33.2	Length, without Forks	17				1470	1610	1710	1860	1470	1610	1710
5.1	Travel Speed (FWD)		l dod/Li-	nloaded	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	9.5/10.5
5.1	Lifting Speed			nloaded	mm/s	350/540	320/540	320/540	300/540	350/540	320/540	320/540
5.0							460/550	460/550	460/550	500/550	460/550	460/550
5.3	Lowering Speed	Loaded/Unloaded mm/s Loaded/Unloaded mm/s				500/550						
5.4 5.6 5.8	Reach Speed				mm/s	300/300	300/300	300/300	300/300	300/300	300/300	300/300
5.6	Max. Drawbar Pull	3min rating N				5880	5880	5880	5880	6080	6080	6080
5.8	Max. Gradeability			.5Km/h, 3min rating	%	32	31	28	27	32	32	29
5.10	Service Brake		ration/0			Mechanical, Disc	Mechanical, Disc	Mechanical, Disc	Mechanical, Disc	Mechanical, Disc	Mechanical, Disc	Mechanical, Dis
5.11 5.12	Parking Brake	Operation/Control			Mechanical, Disc	Mechanical, Disc	Mechanical, Disc	Mechanical, Disc	Mechanical, Disc	Mechanical, Disc	Mechanical, Dis	
	Steering				Electric Power Steering	·	Electric Power Steering	~	Electric Power Steering	- · · ·	Electric Power Stee	
6.1 6.2 6.2 6.4 6.4 6.4.1 6.4.2	Drive Motor (AC)	60min rating kW			4.5	4.5	4.5	4.5	4.5	4.5	4.5	
	Pump Motor (AC)	5min rating kW				9.0	9.0	9.0	9.0	9.0	9.0	9.0
	PS Motor (DC)	60min rating kW V Ah/5-hour Ah/5-hour kg				0.3	0.3	0.3	0.3	0.3	0.3	0.3
	Battery Voltage					48	48	48	48	48	48	48
	Battery Capacity, Min.					201	201	280	280	201	201	280
	Battery Capacity, Max.					240	240	390	390	240	240	390
6.5	Battery Weight, Min. Capacity					365	365	495	495	365	365	495
8.1	Drive Motor Control				3	MOS-FET inverter	MOS-FET inverter	MOS-FET inverter	MOS-FET inverter	MOS-FET inverter	MOS-FET inverter	MOS-FET invert
	Pump Motor Control					MOS-FET inverter	MOS-FET inverter	MOS-FET inverter	MOS-FET inverter	MOS-FET inverter	MOS-FET inverter	MOS-FET invert
8.1.1 8.1.2 8.2	PS Motor Control					MOS-FET chopper	MOS-FET chopper	MOS-FET chopper	MOS-FET chopper	MOS-FET chopper	MOS-FET chopper	MOS-FET chopp
8.2	Relief Pressure for Attachment				bar	167	167	167	167	167	167	167
10.2	I HONELLI LESSURE IUL ALLAUTITIETIL	1			Ltr		167	16	167			
8.2.1	Hydraulic Tank Capacity					16				16	16	16

Dimensions

