STAND-ON REACH TRUCK

RBS-CB1 Series 1.0 – 3.0 TON

MITSUBISHI FORKLIFT TRUCKS

EXTRAORDINARY

Pushing the Boundaries of Efficiency and Versatility

The Mitsubishi RBS-CB1 Series of stand on reach trucks is pushing the boundaries of efficiency and versatility in the robust and rapidly- evolving warehouse and logistics environment. This innovative truck promises refined performance through outstanding features like superb hydraulics, regenerative braking system, multi-mode settings and on-board diagnostics — wholly customized to meet the demanding needs of the shop floor.

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PERFORMANCE

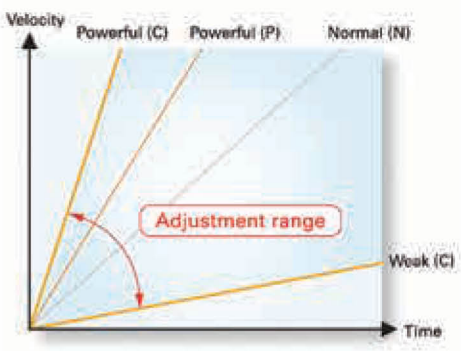
Advanced AC Technology

Mitsubishi's highly-advanced AC technology powers all its trucks that are renowned for optimal control and exceptional performance. A multifunctional centralized control system features intelligent integration of sensitive hydraulic functions, multiple driving modes, and precise power management.

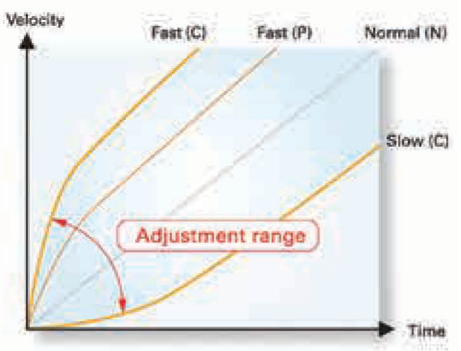
Customizing Operation Characteristics

Attuned to the user's spectrum of needs, the RBS-CB1 truck is sensitized to various ground conditions, including a full range of loads, speeds and modes. Its operation feeling feature is equipped for customizing acceleration, lever characteristics and response as the situation dictates. Through its unique password-protected administrative screen, the user can swiftly adjust the coordinates and manage truck performance with ease and in comfort.

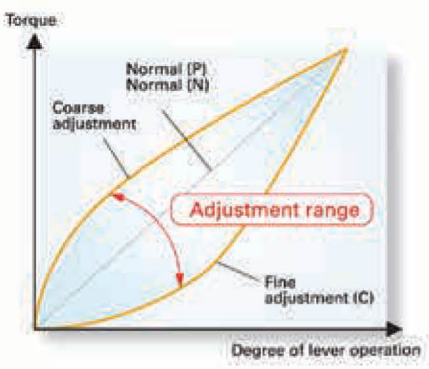
Acceleration



Response



Lever characteristics

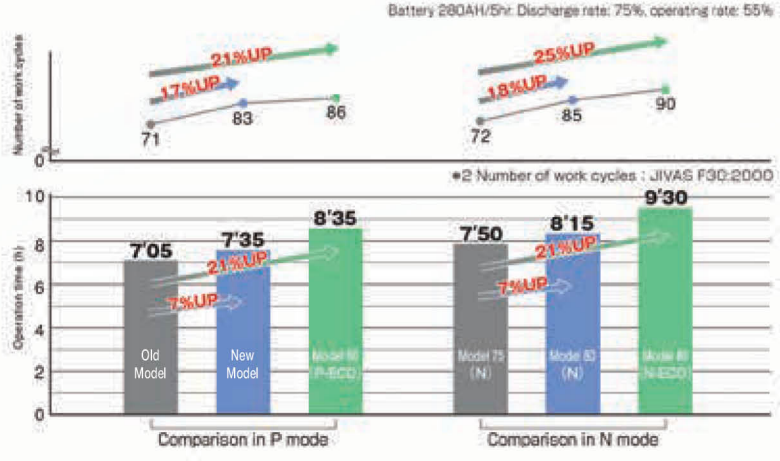


INCREASED ENERGY EFFICIENCY

ECO

Energy reduction by 15% is achieved seamlessly through enhanced engineering and improved hydraulic piping. An Eco mode switch retains the conditions of the PNC mode that reduces power consumption (speed and acceleration), and extends operation time.

Operation time and number of work cycles*2 of RBS15CB1



SUPERIOR ADVANTAGES

Improved Stability

A newly-designed control linkage has remarkably improved the truck's overall superiority and stability, enlarging the swing angle while moving on rough ground.

A re-positioned swing lock cylinder better absorbs the movement of the control linkage, which enhances horizontal stability and the anti-slip function, and steadies the truck to lift multiple loads and make tight turns effortlessly.

Additionally, an intelligent suspension system strengthens stability on the move.

STABILITY LOCK FUNCTION

The location of the swing lock cylinder is changed to absorb the movement of the control linkage effectively.

- Left load wheel has constant contact with the ground even when turning
- Improvement of horizontal stability
- Improvement of anti-slip function
- Improvement of stability when lifting a load

Improved Mast Rididity

Critical to stability and safety, improved mast rigidity ensures superior performance with no disruption. Mast swing is reduced through an enhanced outer mast and side plate, further ensuring stability and efficiency. An improved reach cylinder with a smaller diameter also strengthens the shock-absorbing structure and achieves energy conservation.

Reinforcement of outer mast to reduce mast swing

- The same mast channel as RBS20CB1 is used for the RBS15-18CB1
- **Simplex, Duplex mast:**

  RBS15CB1 Lifting height: 4,700 mm or more

  RBS18CB1 Lifting height: 4,000 mm or more
- **Triplex mast:** RBS15CB1 All height
- A beam is added to the outer mast for Triplex

Improvement of reach cylinder

- Shock absorbing structure
- Smaller diameter: Contributing to energy conservation

Reinforcement of mast side plate to reduce mast swing

- Improvement of mast looseness:
  Strict adjustment of shims for mast rollers.

SUPREME SA

EMERGENCY STOP SWITCH

In the RBS-CB1 Series, this stop switch interrupts the electric power source rather than disconnecting from the battery plug. Such a direct power cut-off mode enhances safety more effectively in an emergency situation.

TRAVEL HYDRAULIC INTERLOCK

The operating interlock system meets strict safety measures, including ISO3691, and ensures riding comfort and efficient hydraulic operations. It automatically disables operations when the user is either out of the compartment, or in a wrong or unsafe position. The independent presence switch pedal prompts the user to take a safer posture during hydraulic operations. The alarm sounds if the situation is not right, while the travelling operation stops via its regenerative brakes before the hydraulic system halts.

FETY

Supreme safety was a top priority when designing the RBS-CB1 trucks. Refined ergonomics aside, the truck also boasts unique safety and security features, including anti-slip control, travel hydraulic interlock, emergency stop switch, and simple passcode entry system.

SIMPLE PASSCODE ENTRY SYSTEM

A simple passcode entry system protects the truck against its unauthorized operation, underscoring an important security design. This indispensable feature aids effective and easy security and safety management.

4 patterns of password settings are available

ANTI-SLIP CONTROL

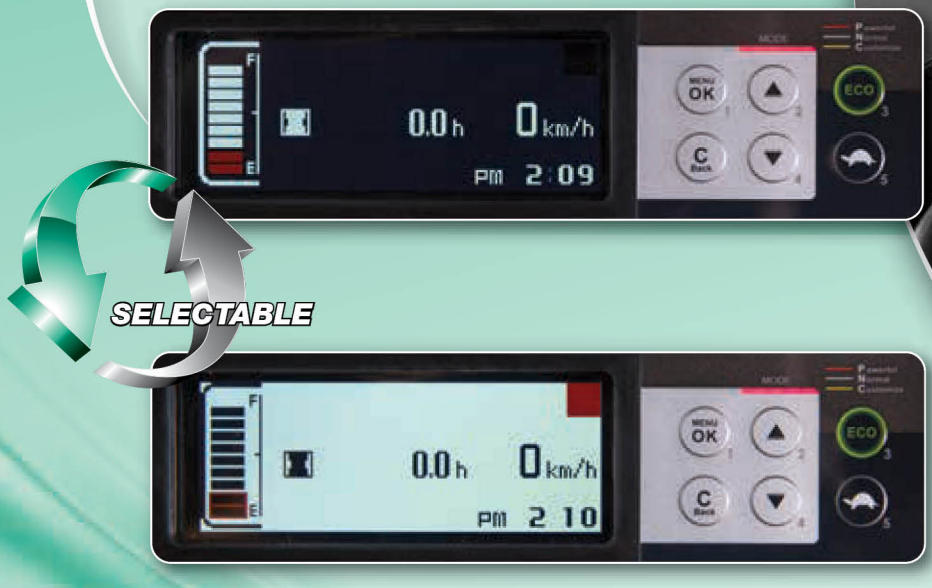
The anti-slip system calculates drive wheel slippage by detecting load wheel rotation and drivewheel rotation speeds through sensors. It then reduces the torque precisely in line with various speed calibrations to suppress slippage, ensuring the utmost safety.

Anti Slip detection on load wheel

SOLID PRO

AWARENESS

Transmissive LCD monitors accentuate clarity and visibility even when exposed to bright sunlight outdoors. The display with enlarged text effectively highlights the onscreen information. The displays are easy to comprehend, so monitoring is effortless.



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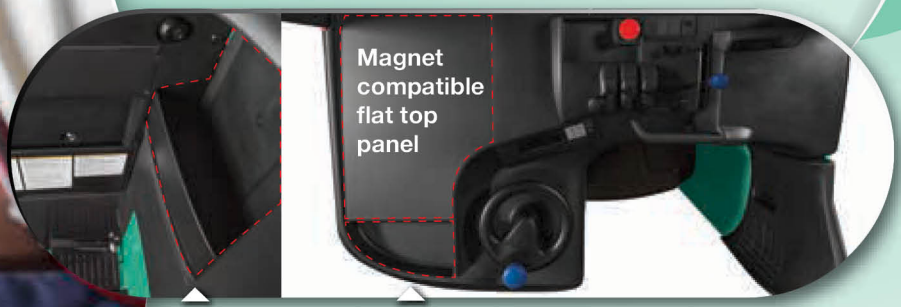
DUCTIVITY

COMFORT

The RBS-CB1 Series is the industry standard bearer for user comfort. User conveniences include a glove compartment and a flat, magnetic document table for ease of placement and retrieval. Not offered by other brands is a compartment for storing stationery. A review of the linkage structure has led to a lower floor height without enlarging the caster wheels—ideal for the user's ease of entry and exit.



Large glove compartment

For storage of pens and small articles

CONTROL

Upgraded control elements, such as an industry-certified hand grip, contribute to overall ease of entry or exit comfort. A large, adjustable cushioned waist pad reduces user impact-stress injury and fatigue through ergonomic posturing, and also improves holding effect. The inclined steering wheel, set at an optimum angle, ensures further ease of operation.

Inclined steering wheel
The steering is set in the optimum angle for ease of operation

Hand grip
(conforming to ISO3691)
Supports ease of ingress or egress

Waist pad
A large soft cushion pad reduces operator's fatigue, and improves holding effect

SPECIFICATIONS RBS10(N)-30(L)CB1

STANDARD SPECIFICATIONS

		Item	Summary		Unit	Narrow Chassis			Long Wheel Base			Long Wheel Base		
Type	1	Model				RBS10NCB1	RBS12NCB1	RBS12CB1	RBS12LCB1	RBS15CB1	RBS18CB1	RBS15LCB1	RBS18LCB1	RBS20CB1
	2	Capacity			kg	1000	1200	1200	1200	1500	1800	1500	1800	2000
	3	Load center			mm	500	500	500	500	500	500	500	500	500
	4	Motor type				AC	AC	AC	AC	AC	AC	AC	AC	AC
Dimensions	5	Lift height		H_3	mm	3000	3000	3000	4000	3000	3000	4000	4000	3000
	6	Free lift		H_2	mm	400	400	400	400	400	405	400	405	400
	7	Tilt angle	Down/Up	d/u	deg	3/5	3/5	3/5	3/5	3/5	3/5	3/5	3/5	3/5
	8	Fork size	Length/Width/Thickness	l/b/s	mm	850/100/35	850/100/35	850/100/35	850/100/35	850/100/35	920/100/38	850/100/35	920/100/38	920/122/40
	9	Fork setting	Min./Max	C	mm	225 ~ 635	225 ~ 635	225 ~ 735	225 ~ 735	225 ~ 735	225 ~ 735	225 ~ 735	225 ~ 735	285 ~ 765
	10	Length	Overall length	L_1	mm	1885	1885	1920	1920	2010	2085	2010	2175	2205
	11		Frame	L	mm	1475	1585	1575	1635	1705	1885	1885	1935	1915
	12		To fork face	L_2	mm	1035	1035	1070	1070	1160	1165	1160	1255	1285
	13	Reach stroke		E	mm	475	585	540	600	590	770	770	770	675
	14	Overall width	Overall width	B	mm	990	990	1090	1090	1090	1090	1090	1090	1190
	15		Between legs		mm	655	655	750	750	750	750	750	750	820
	16		Frame		mm	990	990	1090	1090	1090	1090	1090	1090	1190
	17	Height	Leg		mm	275	275	275	275	275	275	275	275	290
	18		Mast lowered height	H_1	mm	1995	1995	1995	2495	1995	1995	2495	2495	2050
	19		Mast extended height	H_4	mm	3900	3900	3900	4900	3900	3900	4900	4900	3950
	20		Overhead guard height	H_5	mm	2220	2220	2220	2220	2220	2220	2220	2220	2280
	21	Front overhang	Reach out	x	mm	175	175	175	175	185	190	185	190	195
	22	Floor height			mm	265	265	265	265	265	265	265	265	315
	23	Min. turning radius		Wa	mm	1350	1455	1455	1510	1580	1760	1760	1810	1785
	24	Right angle turning aisle width	1100×1100 pallet (incl. 200mm clearance)		mm	1725	1765	1795	1815	1855	1930	1930	1960	2015
	25	Right angle stacking aisle width	1100×1100 pallet (incl. 200mm clearance)	Ast	mm	2520	2540	2575	2585	2670	2715	2715	2795	2815
Performance	26	Travel speed	Laden/Unladen		km/h	9.5/10.5	9.5/10.5	10.5/10.5	10.5/10.5	9.5/10.5	9.5/10.5	9.5/10.5	9.5/10.5	10/11.5
	27	Lift speed	Laden/Unladen		mm/s	265/450	240/450	320/540	320/540	310/540	300/540	310/540	300/540	290/490
	28	Max. Gradeability	3 min. rating, 1.5km/h and over		%	10/14.3	10/14.3	10/14.3	10/14.3	10/14.3	10/14.3	10/14.3	10/14.3	10/14.3
	29	Service weight	With standard battery		kg	1765	1855	1965	2065	2080	2230	2310	2430	2765
Wheel and tire	30	Number of wheels	Load/Drive/Caster			2/1/2	2/1/2	2/1/2	2/1/2	2/1/2	2/1/2	2/1/2	2/1/2	2/1/2
	31	Tyre	Load		mm	ϕ254 x 114 (Urethane)	ϕ254 x 114 (Urethane)	ϕ254 x 114 (Urethane)	ϕ254 x 114 (Urethane)	ϕ254 x 114 (Urethane)	ϕ254 x 114 (Urethane)	ϕ254 x 114 (Urethane)	ϕ254 x 114 (Urethane)	ϕ267 x 114 (Urethane)
	32		Drive		mm	ϕ330 x 145 (Rubber)	ϕ330 x 145 (Rubber)	ϕ330 x 145 (Rubber)	ϕ330 x 145 (Rubber)	ϕ330 x 145 (Rubber)	ϕ330 x 145 (Rubber)	ϕ330 x 145 (Rubber)	ϕ330 x 145 (Rubber)	ϕ380 x 165 (Rubber)
	33		Caster		mm	ϕ178 x 73 (Rubber)	ϕ178 x 73 (Rubber)	ϕ178 x 73 (Rubber)	ϕ178 x 73 (Rubber)	ϕ178 x 73 (Rubber)	ϕ178 x 73 (Rubber)	ϕ178 x 73 (Rubber)	ϕ178 x 73 (Rubber)	ϕ204 x 76 (Rubber)
	34	Wheelbase		y	mm	1105	1215	1205	1265	1335	1515	1515	1515	1515
	35	Tread	Front		mm	875	875	975	975	975	975	975	975	1075
	36		Rear		mm	565	565	640	640	640	640	640	640	695
	37	Road clearance	Center of wheelbase		mm	80	80	80	80	80	80	80	80	78
	38	Service brake	Mech./Hydr./Electr./Pneum.			Mech.	Mech.	Mech.	Mech.	Mech.	Mech.	Mech.	Mech.	Mech.
	39	Parking brake	Foot/Hand/Deadman			Deadman	Deadman	Deadman	Deadman	Deadman	Deadman	Deadman	Deadman	Deadman
Drive unit and control	40	Battery	Voltage/Capacity (5hr. Rating)		V/Ah	24/420	24/420	48/210	48/210	48/290	48/290	48/290	48/290	48/350
	41		Mass (w/case) (min/max)		kg	306 (300/450)	306 (300/450)	340 (340/450)	340 (340/450)	460 (450/750)	460 (450/750)	460 (450/750)	460 (450/750)	532 (525/900)
	42	Drive motor	60 min. rating		kW	2.6	2.6	4.3	4.3	4.3	4.3	4.3	4.3	5.0
	43		Control			AC	AC	AC	AC	AC	AC	AC	AC	AC
	44	Hydraulic motor	5 min. rating		kW	6.0	6.0	8.8	8.8	8.8	8.8	8.8	8.8	11.0
	45		Control			AC	AC	AC	AC	AC	AC	AC	AC	AC
	46	Power steering motor	60 min. rating		kW	0.22	0.22	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	47		Control			DC	DC	DC	DC	DC	DC	DC	DC	DC
	48	Charger (option)	Type (built-in/stationary)			Stationary	Stationary	Stationary	Stationary	Stationary	Stationary	Stationary	Stationary	Stationary
	49		Charging method			Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
	50		Input		ϕ/V	3/(400/200)	3/(400/200)	3/(400/200)	3/(400/200)	3/(400/200)	3/(400/200)	3/(400/200)	3/(400/200)	3/(400/200)
	51		Capacity		kVA	3.4(400) 3.8(200)	3.4(400) 3.8(200)	3.8	3.8	4.7	4.7	4.7	4.7	6.5

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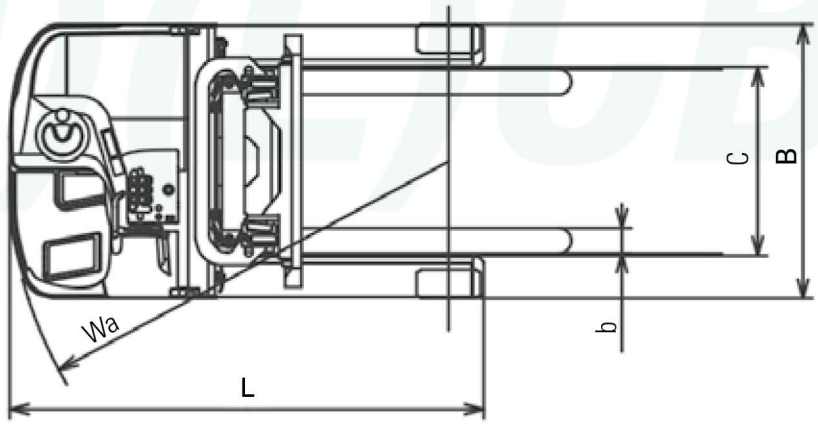
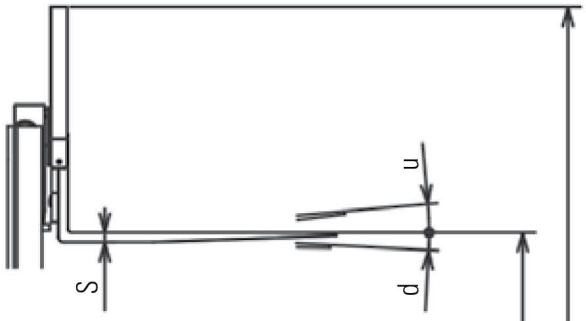
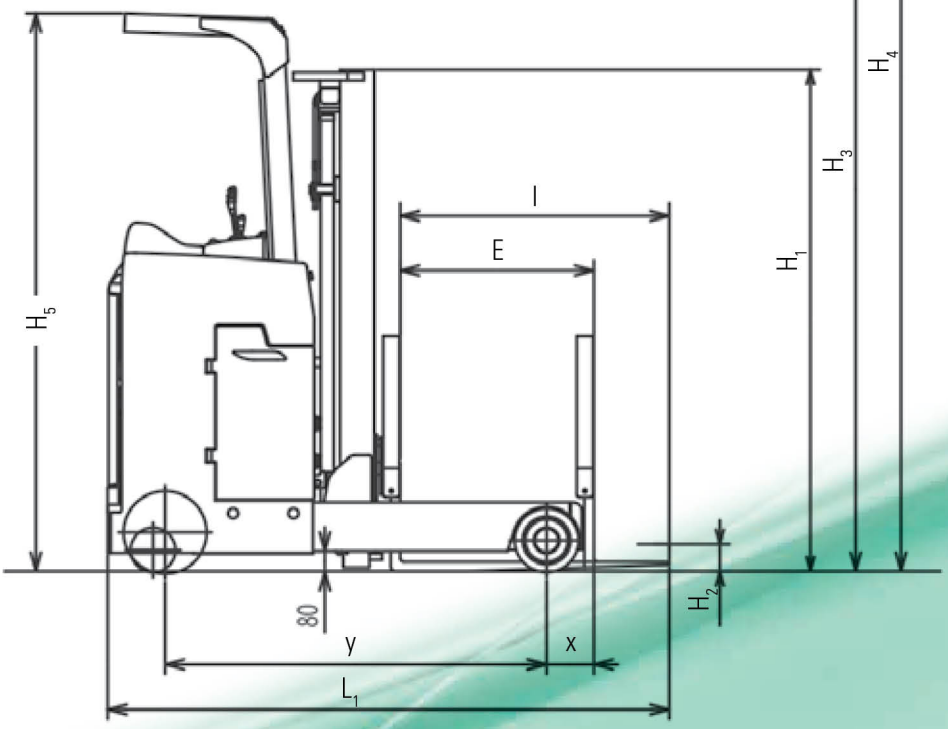
		Long Wheel Base		
RBS25CB1	RBS30CB1	RBS20LCB1	RBS25LCB1	RBS30LCB1
2500	3000	2000	2500	3000
500	500	500	500	500
AC	AC	AC	AC	AC
3000	3000	4000	4000	4000
400	125	400	400	405
3/5	3/5	3/5	3/5	3/5
920/122/40	1070/122/44	920/122/40	920/122/40	1070/122/44
285 ~ 765	285 ~ 765	285 ~ 765	285 ~ 765	285 ~ 765
2205	2460	2205	2245	2560
2085	2185	2085	2155	2385
1285	1390	1285	1325	1490
845	835	845	870	935
1190	1230	1190	1190	1230
820	795	820	820	795
1190	1190	48/350	1190	1190
290	295	290	290	295
2050	2050	2550	2550	2550
3950	4050	4950	4950	5050
2280	2280	2280	2280	2280
195	190	195	190	190
315	315	315	315	315
1955	2050	1955	2020	2250
2090	2160	2090	2125	2265
2865	2970	2865	2915	3105
9.5/11.5	9.0/11.0	10/11.5	9.5/11.5	9.0/11.0
270/490	220/400	290/490	270/490	220/400
10/14.3	10/14.3	10/14.3	10/14.3	10/14.3
2845	3210	2925	2995	3390
2/1/2	2/1/2	2/1/2	2/1/2	2/1/2
ϕ267 x 114 (Urethane)	ϕ267 x 135 (Urethane)	ϕ267 x 114 (Urethane)	ϕ267 x 114 (Urethane)	ϕ267 x 135 (Urethane)
ϕ380 x 165 (Rubber)	ϕ380 x 165 (Rubber)	ϕ380 x 165 (Rubber)	ϕ380 x 165 (Rubber)	ϕ380 x 165 (Rubber)
ϕ204 x 76 (Rubber)	ϕ204 x 76 (Rubber)	ϕ204 x 76 (Rubber)	ϕ204 x 76 (Rubber)	ϕ204 x 76 (Rubber)
1685	1785	1685	1755	1985
1075	1095	1075	1075	1095
695	695	695	695	695
78	78	78	78	78
Mech.	Mech.	Mech.	Mech.	Mech.
Deadman	Deadman	Deadman	Deadman	Deadman
48/350	48/370	48/350	48/350	48/370
532 (525/900)	575 (560/900)	532 (525/900)	532 (525/900)	575 (560/900)
5.0	5.0	5.0	5.0	5.0
AC	AC	AC	AC	AC
11.0	11.0	11.0	11.0	11.0
AC	AC	AC	AC	AC
0.3	0.3	0.3	0.3	0.3
DC	DC	DC	DC	DC
Stationary	Stationary	Stationary	Stationary	Stationary
Automatic	Automatic	Automatic	Automatic	Automatic
3/(400/200)	3/(400/200)	3/(400/200)	3/(400/200)	3/(400/200)
6.5	5.2	6.5	6.5	5.2







Battery Side Loading

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