

1, 1.2 & 1.6 Tonne
Reach Truck



Capacity:

At 600 mm load centre:

Model GRT 100E – 1000 kg

Model GRT 120E – 1200 kg

Model GRT 160E – 1600 Kg

Standard Equipment:

- 3-phase AC motors for traction, hydraulics and steering guarantee high energy efficiency and maintenance free operation
- Independent electronic controllers for traction, hydraulics and steering are integrated by CAN-Bus technology resulting in synchronized equipment control with high level of safety
- Speed-sensitive electric steering automatically slows the truck down to safe limits while turning
- Programmable turning ratio gives the operator superior control over truck maneuverability
- Ergonomic suspension seat, automotive style accelerator and brake pedals and adjustable steering wheel ensure high level of operator comfort over long working hours
- Fingertip control for all hydraulic functions and travel direction is integrated for one-hand operation. This allows the operator to focus on handling the load
- Braking system is regenerative and electrical. Absence of mechanical brake components makes it virtually maintenance free
- Parking brake is electromagnetic and automatically operates when the operator lifts his foot off the dead man's pedal
- Vulkollan load wheels and drive tyre give superior traction control with a higher tolerance to surface irregularities
- Information display on dash board
 - a) Password protected parameter calibration allows truck performance to be tailored to the application
 - b) On-board diagnostics indicate a fault code on the machine status display. This speeds up fault identification
 - c) LCD display continuously indicates machine status on various parameters
 - d) Travel direction with steer wheel position indicator
 - e) 3 operator selectable performance profiles - Economical/Standard/High (E-S-H) allow setting the machine to match different applications, work environment and operator skills
 - f) Battery discharge indicator with lift lockout

Battery:

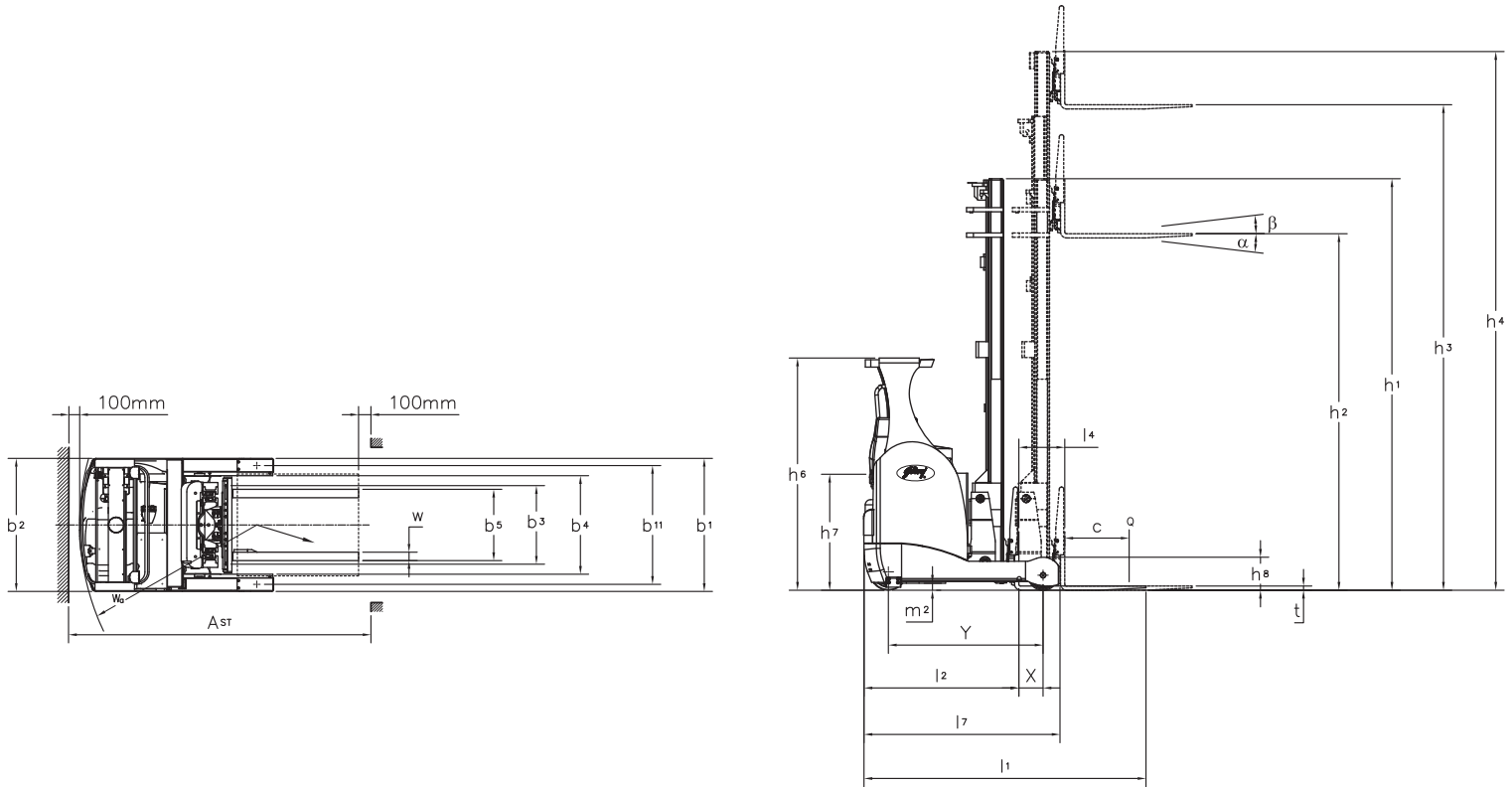
- Battery can be pulled out of the chassis with the reach carriage to be lifted off or rolled out to one side (option)
- 48V traction battery in various capacities from 280 to 620Ah offered to ensure optimum matching with different performance cycles, derated capacities and lift heights

Mast:

- 3 stage full free lift mast with enhanced visibility ISO class 2A forks
- Integral side shifting carriage reduces head length to give superior operation characteristics
- Unique nesting of mast sections with tight running clearances guarantees a robust and stable load handling system
- Hose burst valve prevents sudden lowering of load in case of hose failure



Line Diagram:



NOTE:
Mast Tilt will be a standard offering for mast upto 7430 mm and above 7430 mm. Carriage tilt will be offered or standard inliev of Mast Tilt.

Table 1 - Mast Specification:

Model Description	Mast Type	Base Load Capacity (kg) @ 600mm Load Center	MFH h3 (mm)	OAHL h1 (mm)	OAHR*** h4 (mm)	Free Lift** h2 (mm)	Derated Capacity (kg) at MFH @ 600 mm Load Center	Recommended Battery Options (AH)
Model - GRT 100 E	3 STAGE CVM	1000	5000	2360	5615	1760	1000	280,465, 540, 620
	3 STAGE CVM	1000	6000	2685	6580	2126	1000	280,465, 540, 620
	3 STAGE CVM	1000	6700	2900	7050	2350	750	465, 540, 620
	3 STAGE CVM	1000	7190	3185	7835	2530	650	465, 540, 620
Model - GRT 120 E	3 STAGE CVM	1200	5000	2360	5615	1760	1200	280, 465, 540, 620
	3 STAGE CVM	1200	6000	2685	6580	2126	1200	280, 465, 540, 620
	3 STAGE CVM	1200	6700	2900	7050	2350	950	465, 540, 620
	3 STAGE CVM	1200	7190	3185	7835	2530	850	465, 540, 620
	3 STAGE CVM	1200	7430	3185	8075	2530	800	540,620
Model - GRT 160 E	3 STAGE CVM	1600	5000	2345	5615	1780	1600	465, 540, 700
	3 STAGE CVM	1600	6000	2675	6580	2140	1600	465, 540, 700
	3 STAGE CVM	1600	6700	2945	7340	2350	1600	465, 540, 700
	3 STAGE CVM	1600	7190	3095	7750	2540	1600	465, 540, 700
	3 STAGE CVM	1600	7430	3270	8170	2540	1600	540, 700
	3 STAGE CVM	1600	8200*	3660	8790	3110	1450	540, 700
	3 STAGE CVM	1600	9000*	3880	9545	3350	1350	540, 700

NOTE:
 1) GRT 100/120/160E upto 7430 MFH provided with Mast tilt option. 2) *GRT 160E for Mast of 8200/9000 MFH provided with Carriage tilt option.
 3) GRT 100/120/160E, for Mast tilt option.
 Subtract 815 mm from Free Lift. *With Load Back Rest : OAHR = MFH + 1200 mm.
 4) GRT 160E, for carriage option.
 Subtract 750 mm from Free lift. * With Load Back Rest : OAHR = MFH + 1240 mm.

Table 2 - Specification:

				Godrej	Godrej	Godrej	
Characteristics	1.1	Manufacturer		Godrej	Godrej	Godrej	
	1.2	Model		GRT 100 E	GRT 120 E	GRT160 E	
	1.3	Power unit (Battery, Diesel, LPG / Petrol)		Battery	Battery	Battery	
	1.4	Operation (Manual, Pedestrian, Stand-on, Seated)		Seated	Seated	Seated	
	1.5	Load capacity	Q	kg	1000	1200	1600
	1.6	Load centre	c	mm	600	600	600
	1.7	Load distance (Front overhang)	x	mm	Refer Table 2	Refer Table 2	Refer table 2
	1.8	Wheelbase	y	mm	1290	1375	1460
Weights	2.1	Service weight incl. standard battery		2975	2995	3860	
	2.3	Axle load, w/o load, Front (drive) / Rear (load) weights		1790 / 1155	1790 / 1175	2405 / 1875	
	2.4	Axle load, mast outreached with load, Front (drive) / Rear (load)		680 / 3290	562 / 3510	1005 / 4895	
	2.5	Axle load, mast retracted with load, Front (drive) / Rear (load)		1635 / 2380	1715 / 2520	2005 / 3895	
Wheels & Chassis	3.1	Tyres (S-solid, P-pneumatic)		S	S	S	
	3.2	Tyre size, Front (drive) wheel (OD x width)		343 x 114	343 x 114	343 x 114	
	3.3	Tyre size, Rear (load) wheel (OD x width)		230 x 85	230 x 85	285 x 100	
	3.5	Wheels, Front / Rear (x = driven)		1x/2	1x/2	1x/2	
	3.7	Wheel tread, Rear	b11	mm	995	995	1136
Dimensions	4.1	Tilt (Forward / Backward)	Mast Carriage	$\alpha^\circ / \beta^\circ$	1 / 3	1 / 3	1 / 3
					-	-	2 / 4
	4.2	Overall mast height lowered (OAHL)	h1	mm	Refer Table 1	Refer Table 1	Refer table 1
	4.3	Free lift **	h2	mm	Refer Table 1	Refer Table 1	Refer table 1
	4.4	Maximum fork height (MFH)	h3	mm	Refer Table 1	Refer Table 1	Refer table 1
	4.5	Overall mast height raised (OAHR) ***	h4	mm	Refer Table 1	Refer Table 1	Refer table 1
	4.7	Overhead guard height	h6	mm	2150	2150	2190
	4.8	Seat height	h7	mm	1045	1045	1060
	4.10	Outrigger height	h8	mm	270	270	275
	4.15	Lowered fork height	h13	mm	40	40	40
	4.16	Head room		mm	1150	1150	1150
	4.19	Overall length (without reach)	l1	mm	2400	2400	2660
	4.20	Head length (length to fork face)	l2	mm	1200	1200	1460
	4.21	Overall width (Front / Rear)	b2 / b1	mm	1110 / 1115	1110 / 1115	1270
	4.22	Fork dimensions (Thickness x Width x Length)		mm	40 x 80 x 1200	40 x 80 x 1200	40 x 80 x 1200
	4.23	Fork carriage			Class-II	Class-II	Class-II
	4.24	Fork carriage width (without LBR)	b3	mm	890	890	890
	4.25	Fork spread	b5	mm	160-655	160-655	160-655
	4.26	Width inside straddle	b4	mm	900	900	940
	4.28	Reach travel	l4	mm	Refer Table 2	Refer Table 2	Refer table 2
4.32	Ground clearance (centre of wheelbase)	m2	mm	80	80	95	
4.33	Working aisle width (1000 x 1200 across forks)	Ast	mm	Refer Table 2	Refer Table 2	Refer table 2	
4.34	Working aisle width (800 x 1200 along forks)	Ast	mm	Refer Table 2	Refer Table 2	Refer table 2	
4.35	Turning radius	Wa	mm	1565	1650	1690	
4.37	Length of chassis	l7	mm	1640	1725	1850	
Performance	5.1	Travel speed, laden / unladen		km/h	13.0 / 13.0	13.0 / 13.0	13.0 / 13.0
	5.2	Lift speed, laden / unladen		m/s	0.40 / 0.50	0.40 / 0.50	0.40 / 0.50
	5.3	Lowering speed, laden / unladen		m/s	0.50 / 0.30	0.50 / 0.30	0.50 / 0.30
	5.4	Reach speed, laden / unladen		m/s	0.2 / 0.2	0.2 / 0.2	0.2 / 0.2
	5.7	Max. gradeability, laden / unladen		%	7 / 10	7 / 10	7 / 10
5.10	Service brake			Electric	Electric	Electric	
Drive	6.0	Drive motor			AC	AC	AC
	6.1	Drive motor (60 min rating)		kW	6.5	6.5	6.5
	6.2	Lift motor (15 min rating)		kW	10	10	15
	6.4	Battery voltage / rated capacity (5 hrs)		V/Ah	48 / Refer Table 1	48 / Refer Table 1	48 / Refer Table 1
	6.5	Battery box size		mm	Refer Table 2	Refer Table 2	Refer Table 2
	6.6	Battery weight		kg	Refer Table 2	Refer Table 2	Refer Table 2
Other	8.1	Type of drive control			MOSFET / AC	MOSFET / AC	MOSFET / AC
	8.2	Working pressure for attachments		bar	150	150	170
	8.4	Noise level at operator's ear		dB (A)	<70	<70	<70

All dimensions and specifications indicated above are subjected to variation of +- 15%. All specifications are subject to change without prior notice. Colours shown in the catalogues are indicative colours. Our Standard Colour is Traffic Yellow and Jet Black.

*The image shown in the leaflet are representative. Actual equipment may differ in colour and optional accessories.

Table 3 - Working Aisle Width:

Truck Specification		1.8	4.21	4.20	1.7	4.28	4.35	Load Size		4.33 & 4.34		6.3	6.5	
Mode	Battery Rating (Ah)	Wheel base	Truck Width	Head length	Load Dist.	Reach	Turning R	Length (mm)	Width (mm)	Working Aisle Width (mm)		Battery Size	Battery Weight	
		y (mm)	b2 (mm)	l2 (mm)	x ₁ (mm)	l ⁺ (mm)	Wa (mm)			Intrusive (Ast3)	Non-Intrusive (Ast)	l x w x h (mm)	kg	
GRT 100E	280	1290	1115	1200	320	515	1565	800	1200	2245	2533	Opt. 1	527	
								1200	800	2645	2732	1025 x		
								1000	1200	2445	2672	260 x		
	465	1290	1115	1300	220	415	1565	800	1200	2345	2600	Opt. 2	733	
								1200	800	2745	2823	1025 x		
								1000	1200	2545	2749	360 x		
	540	1290	1115	1350	170	365	1565	800	1200	2395	2635	Opt. 3	968	
								1200	800	2795	2870	1025 x		
								1000	1200	2595	2789	410 x		
	620	1290	1115	1380	140	335	1565	800	1200	2425	2657	Opt. 4	1000	
								1200	800	2825	2898	1025 x		
								1000	1200	2625	2814	440 x		
GRT 120E	280	1375	1115	1200	405	600	1650	800	1200	2245	2568	Opt. 1	527	
								1200	800	2645	2740	1025 x		
								1000	1200	2445	2695	260 x		
	465	1375	1115	1300	305	500	1650	800	1200	2345	2628	Opt. 2	733	
								1200	800	2745	2830	1025 x		
								1000	1200	2545	2768	360 x		
	540	1375	1115	1350	255	450	1650	800	1200	2395	2661	Opt. 3	968	
								1200	800	2795	2876	1025 x		
								1000	1200	2595	2807	410 x		
	620	1375	1115	1380	225	420	1650	800	1200	2425	2681	Opt. 4	1000	
								1200	800	2825	2904	1025 x		
								1000	1200	2625	2830	440 x		
GRT 160E	465	1460	1270	1313	377	592	1690	800	1200	2313	2624	Opt. 1	780	
								1200	800	2713	2805	1220 x		
								1000	1200	2513	2755	280 x		
	540	1460	1270	1383	307	522	1690	800	1200	2383	2667	Opt. 2	885	
								1200	800	2783	2868	1220 x		
								1000	1200	2583	2807	350 x		
	700	1460	1270	1460	230	445	1690	800	1200	2460	2718	Opt. 3	1200	
								1200	800	2860	2939	1220 x		
								1000	1200	2660	2866	427 x		
									1200	1000	2860	2981	790	

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Standard Accessories:



















- Ergonomic suspension seat.
- Overhead Guard.
- Drive unit with 3-Phase 6.5kW AC drive motor for effortless operation.
- Integrated Gearbox and Traction motor.
- High speed 10/15kW AC Hydraulic Lift motor.
- Electromagnetic brakes.
- Electric Horn.
- Key switch.
- Emergency Power Disconnect switch.
- Battery discharge indicator with lift lockout.
- Battery Compartment Rollers.
- Mast tilt and Carriage tilt operation.
- Hour meter.
- Flashing light.

Optional Accessories:

- High capacity battery selection option.
- Battery charger.
- Load back rest.
- MFH restriction + Over ride feature.
- Travel Alarm.
- Battery Changing Trolley.
- Freezer conditioning upto -25 ° C.
- Tool kit.
- Rack Height Assist (upto 9000mm).



Our Range:

					
3-wheel Electric Forklifts 0.8 to 2 tonne	Electric Forklifts 1 to 5 tonne	Diesel Forklifts 1.5 to 4 tonne	Diesel Forklifts 5 to 10 tonne	Diesel Forklifts 12 to 25 tonne	Dock Leveler 9 and 12 tonne
					
Hand Pallet Truck 2.5 tonne	Powered Pallet Truck 1.5 and 2 tonne	Electric Stacker 1.2 and 1.5 tonne	Articulated Forklifts 1.2 to 2 tonne	Reach Truck 1 to 2 tonne	Tow Truck 2, 5 and 6 tonne (Stand up & sit down model)
					
CROWN Warehousing Equipment	KOMATSU Forklifts	TENNANT Industrial Cleaning Equipment	HUBTEX Side Loaders	MERLO	IMER

DISTRIBUTION: Our network of 17 company owned branches brings us closer to customers across India. This also gives us the edge to distribute equipment from global giants including Crown, Komatsu, Merlo, Tennant, Hubtex and Imer in India.

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