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Godrej | MATERIAL HANDLING

PRO Series Reach Truck 1 to 2 tonne

MOVE YOUR BUSINESS TO THE NEXT LEVEL

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RUN YOUR BUSINESS 24X7

Operator safety and comfort are at the epicentre of every equipment design. Our newly designed range of Godrej Reach Trucks lives up to this principle. Operation in tough conditions with long duty cycles meets the needs of operators, guaranteeing following benefits

1. New Frame design & best-in-class turning performance enable Godrej PRO Reach Trucks to work in aisles as narrow as 2.6 metres

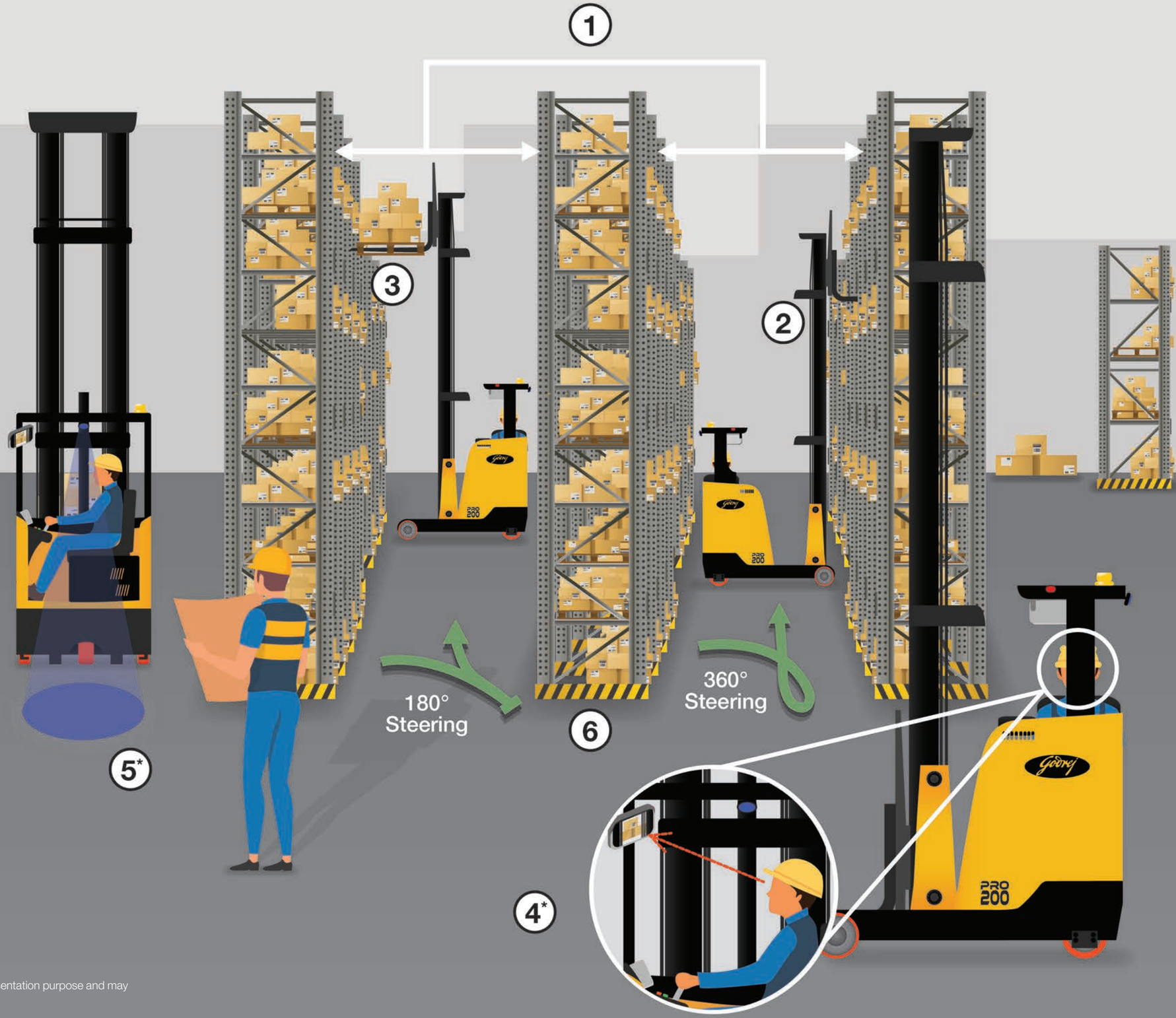
2. ** Lift up to 12 metres high and utilize warehouse space to the max

3. Industry leading lifting capacity at heights enhances storage volume in warehouse

4. Camera with colour monitor provides real-time visibility of stacking/de-stacking operations especially at higher heights, boosting operator confidence and productivity

5. Safety accessories such as blue light, travel alarm and more help improve warehouse safety

6. 180^{0} or 360^{0} steering mechanism can be selected based on application thus increasing operational efficiency



*Accessories shown may not be part of standard equipment
**Available only in GRT-HL range
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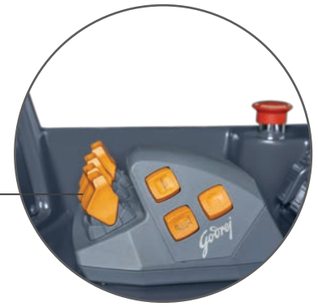
DESIGNED WITH THE OPERATOR IN MIND

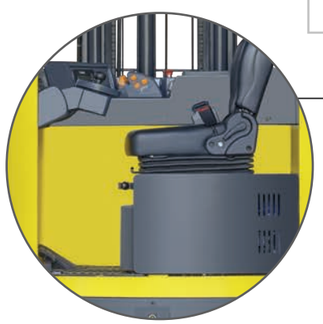
Dynamic Response Steering (DRS) system
The PRO Reach Trucks are equipped with DRS, an electronically weighted steering, for full control and more confident driving.



Ergonomically designed and positioned controls
- Controls are arranged precisely where operator intuitively find it.
- **Godrej Operator Reach Arm Console (GORAC)** ensures essential hydraulic controls at the fingertips for better productivity and efficiency.

Regenerative braking
Each time the operator takes his foot off the accelerator, the motor direction tends to reverse. It acts like a generator and produces current to charge the battery. It also slows the truck in a controlled manner. Regen braking also prolongs brake life.

Digital display
LCD display keeps the operator informed of all critical operating parameters. Built-in diagnostics make fault detection easy.



Ample leg room
Comfortable leg space ensures easy entry-exit and provides operators with restful working space, and hence, higher productivity.

Suspension seat
A 6-way adjustable, suspension seat accommodates operator's weight, making the seat ideal for long work hours. Seat belt interlock system ensures equipment doesn’t move in the absence of a seat belt, for higher operator’s safety.

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ENHANCING SAFETY OF OPERATOR, MACHINE AND MATERIAL

Speed reduction while turning
Smart Curve Control Technology detects Reach Truck turn movements and reduces speed up to 30% while turning, thereby providing the operator enhanced stability and control.

Automatic steer interlock on traction and pump
Steering is one of the most critical functions of a truck. Travel and lift functions are automatically disabled in case of any steering malfunction to ensure the safety of operator and truck.

All wheel braking

- Braking force is simultaneously applied on all three wheels to ensure the truck comes to a stable and quick stop even from top speed.
- It also guarantee the absolute stability of the truck during loading and unloading operations in the racks.

High visibility design
Carefully designed overhead guard grille, an off-center free lift cylinder and thoughtful routing of hoses and placement of tie bars - everything combines to give the operator excellent visibility of the forks and load from the floor to higher height.

Safety even in low light
LED lights provide reliable and intense optical illumination, ensuring operability and safety in low light conditions.

Operator safety ensured at all times
A presence sensing pedal placed near the entry has to be constantly depressed by the operator's left foot. Taking his foot off this pedal will bring all truck operations to a halt. This ensures the operator stays within the safe confines of the machine at all times. It acts as activated parking brake when there is no operator on the truck.

Interactive display for easy settings, better decision making
LCD screen shares vital information on speed, movement, battery charge and fault codes, assisting in diagnostics to make informed decisions.

Lift lockout indicator
Disables lifting function at 20% battery charge level. Urges operator to place battery for charging. Protects battery by preventing deep discharge.

Operator presence Switch
OPS prevents any unmanned operations by stopping all functions if the operator is not seated properly.

PERFORMANCE BOOSTING OPTIONS

- **Rack Height Location Assist** quickly raises the forks to pre-programmed levels, leaving only the final adjustment to the operator
- **Fork Height Indicator** displays the actual fork height in real time
- **Load Indicator** ensures the operator always lifts a safe load
- **Biometric / PIN** access ensures only authorized personnel operate the reach truck
- **Load Backrest** supports taller loads and prevents any loose objects from falling back towards the operator cab
- **Camera and colour monitor** helps safe and quick pallet handling, especially at higher racking levels
- **Fork Height Restriction and Override** ensure safe operations in low ceiling areas
- **Modifications for Drive-in and Shuttle Racking** add versatility to operate in these systems
- **Battery Roll-out and Changing Trolley** make battery changing fast, easy and safe.
- **Travel alarm, Blue Light and Red Halo Lights** alert pedestrians and other truck operators about the presence of the Reach truck
- **Safelog** for fleet monitoring & truck condition monitoring helps monitor various truck parameters and alerts in case of any potential faults

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TECHNICAL SPECIFICATION

Characteristics	1.1	Manufacturer	-	-	Godrej	Godrej	Godrej	Godrej	Godrej	Godrej
	1.2	Model Designation	-	-	GRT100E PRO	GRT120E PRO	GRT140E PRO	GRT160E PRO	GRT180E PRO	GRT200E PRO
	1.3	Power Source	-	-	Battery	Battery	Battery	Battery	Battery	Battery
	1.4	Operation Type	-	-	Transverse Seat	Transverse Seat	Transverse Seat	Transverse Seat	Transverse Seat	Transverse Seat
	1.5	Load Capacity	Q	Kg	1000	1200	1400	1600	1800	2000
	1.6	Load Centre	c	mm	600	600	600	600	600	600
	1.7	Load Distance (Front overhang)	x	mm	Refer table 2	Refer table 2	Refer table 2	Refer table 2	Refer table 2	Refer table 2
	1.8	Load distance, Mast reached forward	x1	mm	215	215	215	215	215	215
	1.9	Wheelbase	y	mm	1290	1375	1410	1460	1460	1518
Weight	2.1.1	Service or Net Weight incl. Battery	-	Kg	2950	3250	3650	3950	4150	4675
	2.3	Axial Loading, w.o. load	Front/Rear	Kg	1625 / 1325	1785 / 1465	2010 / 1640	2175 / 1775	2285 / 1865	2575 / 2100
	2.4	Axial Loading forks forward, with Load	Front/Rear	Kg	540 / 3410	610 / 3840	680 / 4370	760 / 4790	805 / 5145	910 / 5765
	2.5	Axial Loading forks retracted, with Load	Front/Rear	Kg	1360 / 2590	1535 / 2915	1740 / 3310	1850 / 3700	1990 / 3960	2120 / 4555
Tyres, chassis	3.1	Tyres (S = Solid) (C=Cushion) (SE=Superelastic)	-	-	Solid	Solid	Solid	Solid	Solid	Solid
	3.2	Tyre size (OD x width)	Front	mm	343 x 140	343 x 140	343 x 140	343 x 140	343 x 140	343 x 140
	3.3	Tyre size (OD x width)	Rear	mm	308 x 100	308 x 100	308 x 100	308 x 100	308 x 100	308 x 100
	3.4	Wheels, number Front / rear (x = driven)	Front / Rear	mm	1x / 2	1x / 2	1x / 2	1x / 2	1x / 2	1x / 2
	3.5	Track Width (Drive)	-	mm	0	0	0	0	0	0
	3.6	Track Width - Rear (Load Wheel)	b11	mm	1155	1155	1155	1155	1155	1155
Dimensions	4.1	Mast/Fork Carriage Tilt Forward/Backward α°/β°	Mast Tilt Fork Tilt	α°/β°	1 / 3 -	1 / 3 -	1 / 3 2 / 4	1 / 3 2 / 4	1 / 3 2 / 4	1 / 3 2 / 4
	4.2	Overall mast height lowered (OAHL)	h1	mm	Refer table 1	Refer table 1	Refer table 1	Refer table 1	Refer table 1	Refer table 1
	4.3	Free lift *	h2	mm	Refer table 1	Refer table 1	Refer table 1	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	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	Refer table 1	Refer table 1	Refer table 1
	4.7	Over head guard height (Cab)	h6	mm	2190	2190	2190	2190	2190	2190
	4.8	Seat height	h7	mm	1060	1060	1060	1060	1060	1060
	4.10	Outtrigger height	h8	mm	330	330	330	330	330	330
	4.15	Lowered fork height	h13	mm	40	40	40	40	40	40
	4.16	Head room	-	mm	1130	1130	1130	1130	1130	1130
	4.19	Overall length (without reach)	l1	mm	Refer table 2	Refer table 2	Refer table 2	Refer table 2	Refer table 2	Refer table 2
	4.20	Head length (length to fork face)	l2	mm	Refer table 2	Refer table 2	Refer table 2	Refer table 2	Refer table 2	Refer table 2
	4.21	Overall width	b2 / b1	mm	1270 / 1270	1270 / 1270	1270 / 1270	1270 / 1270	1270 / 1270	1270 / 1270
	4.22	Fork dimension (Thickness x Width x Length)	s x e x l	mm	40 x 80 x 1200	40 x 80 x 1200	40 x 80 x 1200	40 x 80 x 1200	40 x 80 x 1200	40 x 80 x 1200
	4.23	Fork Carriage ISO 2328, Class/Type A,B	-	-	Class-II	Class-II	Class-II	Class-II	Class-II	Class-II
	4.24	Fork Carriage width (without LBR)	b3	mm	890	890	890	890	890	890
	4.25	Fork Spread (Distance between fork arms)	b5	mm	160 - 655	160 - 655	160 - 655	160 - 655	160 - 655	160 - 655
	4.26	Width inside straddle (Distance between wheel arms)	b4	mm	940	940	940	940	940	940
	4.28	Reach Travel	l4	mm	Refer table 2	Refer table 2	Refer table 2	Refer table 2	Refer table 2	Refer table 2
	4.31	Floor or ground clearance laden, below mast	m1	mm	95	95	95	95	95	95
	4.32	Floor or ground clearance, centre of wheelbase	m2	mm	72	72	72	72	72	72
	4.33	Floor or ground clearance, At lowest point		mm	30	30	30	30	30	30
	4.33	Aisle width for pallets 1000 x 1200 crossways	Ast	mm	Refer table 2	Refer table 2	Refer table 2	Refer table 2	Refer table 2	Refer table 2
	4.34	Aisle width for pallets 800 x 1200 crossways	Ast	mm	Refer table 2	Refer table 2	Refer table 2	Refer table 2	Refer table 2	Refer table 2
	4.35	Turning Radius	Wa	mm	1520	1605	1635	1690	1690	1740
	4.37	Length of chassis	l7	mm	1700	1785	1820	1870	1870	1930
Performance	5.1	Travel speed	laden / unladen	Km/h	13.0 / 13.0	13.0 / 13.0	13.0 / 13.0	13.0 / 13.0	11.0/11.0	11.0 / 11.0
	5.2	Lift speed	laden / unladen	m/sec	0.45 / 0.5	0.4 / 0.5	0.35 / 0.5	0.35 / 0.5	0.35 / 0.5	0.3 / 0.5
	5.3	Lowering speed	laden / unladen	m/sec	0.5 / 0.45	0.5 / 0.45	0.5 / 0.4	0.5 / 0.4	0.5 / 0.4	0.5 / 0.4
	5.4	Reach Speed	laden / unladen	%	0.12	0.12	0.12	0.12	0.12	0.12
	5.7	Gradeability	laden / unladen	%	7 / 10	7 / 10	7 / 10	7 / 10	7 / 10	7 / 10
	5.8	Max. gradeability	laden / unladen	%	8 / 12	8 / 12	8 / 12	8 / 12	8 / 12	8 / 12
	5.10	Service brake	-	-	Electric / Hydraulic	Electric / Hydraulic	Electric / Hydraulic	Electric / Hydraulic	Electric / Hydraulic	Electric / Hydraulic
Engine	6.0	Drive motor	-	-	AC	AC	AC	AC	AC	AC
	6.1	Drive motor, at S2 60 min rating	-	Kw	6.4	6.4	6.4	6.4	6.4	6.4
	6.2	Lift motor, at S3 15%	-	Kw	15	15	15	15	15	15
	6.4	Battery voltage / rated capacity	-	V/Ah	48 / Refer Table 1	48 / Refer Table 1	48 / Refer Table 1	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	Refer Table 2	Refer Table 2	Refer Table 2
	6.6	Battery weight	-	Kg	Refer Table 2	Refer Table 2	Refer Table 2	Refer Table 2	Refer Table 2	Refer Table 2
Others	8.1	Type of drive control	-	-	Mosfet / AC	Mosfet / AC	Mosfet / AC	Mosfet / AC	Mosfet / AC	Mosfet / AC
	8.2	Operating pressure for attachment	-	bar	160	160	160	160	160	160
	8.3	Oil flow pressure for attachment	-	l/min	20	20	20	20	20	20
	8.4	Noise level at operator's ear as per EN12053	-	dB (A)	< 70	< 70	< 70	< 70	< 70	< 70

Note: All dimensions and specifications are subject to variations within ±15%

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TECHNICAL SPECIFICATION

Table 1 - 3 STAGE CVM Mast Specification:

Description	Base Load Capacity (kg) .@ 600mm Load Center	Maximum Fork Height (MFH) h3 (mm)	Overall Height Lowered (OAHL) h1 (mm)	Overall Height Raised (OAHR)*** h4 (mm)	Free Lift** h2 (mm)	Derated Capacity (kg) at MFH .@ 600mm Load Center	Recommended Battery options (AH)
GRT100E PRO	1000	5000	2470	5730	1780	1000	280, 465,
GRT100E PRO	1000	6700	3135	7505	2350	750	465,
GRT120E PRO	1200	5000	2475	5730	1780	1200	280, 465, 560
GRT120E PRO	1200	6700	3135	7505	2350	950	465, 560
GRT120E PRO	1200	7430	3460	8350	2540	800	465, 560
GRT140E PRO	1400	5000	2475	5730	1780	1400	465, 560
GRT140E PRO	1400	6700	3135	7505	2350	1400	465, 560
GRT140E PRO	1400	7430	3460	8350	2540	1200	465, 560
GRT140E PRO	1400	8200*	3800	8930	3110	1100	465, 560
GRT140E PRO	1400	9000*	4070	9730	3350	1000	465, 560
GRT160E PRO	1600	5000	2475	5730	1780	1600	465, 560, 775
GRT160E PRO	1600	6700	3135	7505	2350	1600	465, 560, 775
GRT160E PRO	1600	7430	3460	8350	2540	1600	465, 560, 775
GRT160E PRO	1600	8200*	3800	8930	3110	1450	560, 775
GRT160E PRO	1600	9000*	4070	9730	3350	1350	560, 775
GRT160E PRO	1600	10000*	4440	10725	3750	1050	560, 775
GRT160E PRO	1600	10600*	4760	11495	3900	900	560, 775
GRT180E PRO	1800	5000	2475	5730	1780	1800	560, 775
GRT180E PRO	1800	6700	3135	7505	2350	1750	560, 775
GRT180E PRO	1800	7430	3460	8350	2540	1650	560, 775
GRT180E PRO	1800	8200*	3800	8930	3110	1600	560, 775
GRT180E PRO	1800	9000*	4070	9730	3350	1450	560, 775
GRT180E PRO	1800	10000*	4440	10725	3750	1100	560, 775
GRT180E PRO	1800	10600*	4760	11495	3900	1000	560, 775
GRT200E PRO	2000	5000	2475	5730	1780	1850	560, 775
GRT200E PRO	2000	6700	3135	7505	2350	1800	560, 775
GRT200E PRO	2000	7430	3460	8350	2540	1750	560, 775
GRT200E PRO	2000	8200*	3800	8930	3110	1600	560, 775
GRT200E PRO	2000	9000*	4070	9730	3350	1450	775, 930
GRT200E PRO	2000	10000*	4440	10725	3750	1200	775, 930
GRT200E PRO	2000	10600*	4760	11495	3900	1100	775, 930
GRT200E PRO	2000	11000*	4500	11730	3760	1000	775, 930

1) GRT 100/120140/160/180/200E PRO upto Mast 7430 MFH provided to Mast Tilt Option.
2) *GRT 140/160/180/200E PRO above Mast 8200 - 10600 MFH provided with Carriage tilt option.
3) GRT 100/120/140/160/180/200E PRO for Mast Tilt Option (Upto 7430 MFH).
** With Load Back Rest : Substract 815 mm from Free lift
*** With Load Back Rest : OAHR = MFH + 1240 mm for Mast Tilt option
4) GRT 140/160/180/200E PRO for Carriage Tilt Option (Above 8200 MFH).
** With Load Back Rest : Substract 750 mm from Free lift
*** With Load Back Rest : OAHR = MFH + 1360 mm for Carriage Tilt option

Table 2 - Working Aisle Width:

Truck Specification		1.8	4.21	4.2	4.19	1.7	4.28	4.35	4.33 & 4.34			6.3	6.5
Model	Battery	Wheel	Truck	Head	Overall	Load	Reach	Turning	LOAD SIZE		WORKING AISLE	BATTERY	BATTERY
	Rating (Ah)	base	Width	Length	Length	Distance		Radius			WIDTH *	SIZE	WEIGHT
		y (mm)	b2 (mm)	l2 (mm)	l1(mm)	x1(mm)	l⁴(mm)	Wa (mm)	LENGTH	WIDTH		L x H x W	Kg
GRT 100E PRO	280	1290	1270	1334	2534	184	399	1520	800	1200	2580	1220 x 280 x 790	480
									1200	800	2812		
									1000	1200	2733		
									1200	1000	2852		
	465	1290	1270	1334	2534	184	399	1520	800	1200	2580	1220 x 280 x 790	765
									1200	800	2812		
									1000	1200	2733		
									1200	1000	2852		

Table 2 - Working Aisle Width:

Truck Specification		1.8	4.21	4.2	4.19	1.7	4.28	4.35	4.33 & 4.34			6.3	6.5
Model	Battery	Wheel	Truck	Head	Overall	Load	Reach	Turning	LOAD SIZE		WORKING AISLE	BATTERY	BATTERY
	Rating (Ah)	base	Width	Length	Length	Distance		Radius			WIDTH *	SIZE	WEIGHT
		y (mm)	b2 (mm)	l2 (mm)	l1(mm)	x1(mm)	l⁴(mm)	Wa (mm)	LENGTH	WIDTH		L x H x W	Kg
GRT 120E PRO	280	1375	1270	1334	2534	269	484	1605	800	1200	2606	1220 x 280 x 790	480
									1200	800	2818		
									1000	1200	2751		
									1200	1000	2862		
	465	1375	1270	1334	2534	269	484	1605	800	1200	2606	1220 x 280 x 790	765
									1200	800	2818		
									1000	1200	2751		
									1200	1000	2862		
	560	1375	1270	1404	2604	199	414	1605	800	1200	2654	1220 x 350 x 790	890
									1200	800	2883		
									1000	1200	2806		
									1200	1000	2924		
GRT 140E PRO	465	1410	1270	1334	2534	304	519	1635	800	1200	2613	1220 x 280 x 790	765
									1200	800	2816		
									1000	1200	2754		
									1200	1000	2861		
	560	1410	1270	1404	2604	234	449	1635	800	1200	2660	1220 x 350 x 790	1200
									1200	800	2881		
									1000	1200	2808		
									1200	1000	2923		
GRT 160E PRO	465	1460	1270	1334	2534	354	569	1690	800	1200	2638	1220 x 280 x 790	765
									1200	800	2826		
									1000	1200	2772		
									1200	1000	2873		
	560	1460	1270	1404	2604	284	499	1690	800	1200	2681	1220 x 350 x 790	1200
									1200	800	2890		
									1000	1200	2824		
									1200	1000	2934		
	775	1460	1270	1481	2681	207	422	1690	800	1200	2734	1220 x 424 x 790	1220
									1200	800	2961		
									1000	1200	2883		
									1200	1000	3000		
GRT 180E PRO	560	1460	1270	1404	2604	284	499	1690	800	1200	2681	1220 x 350 x 790	1200
									1200	800	2890		
									1000	1200	2824		
									1200	1000	2934		
	775	1460	1270	1481	2681	207	422	1690	800	1200	2732	1220 x 424 x 790	1220
									1200	800	2959		
									1000	1200	2883		
									1200	1000	3002		
GRT 200E PRO	560	1460	1270	1406	2606	342	557	1690	800	1200	2695	1220 x 350 x 790	1200
									1200	800	2887		
									1000	1200	2830		
									1200	1000	2933		
	775	1460	1270	1483	2683	265	480	1690	800	1200	2744	1220 x 424 x 790	1220
									1200	800	2957		
									1000	1200	2889		
									1200	1000	3000		
	930	1460	1270	1556	2756	192	407	1690	800	1200	2794	1220 x 500 x 790	1420
									1200	800	3024		
									1000	1200	2946		
									1200	1000	3065		

*Please contact Godrej Marketing for lesser aisle width

Disclaimer: Specifications and Features are subject to change without prior notice

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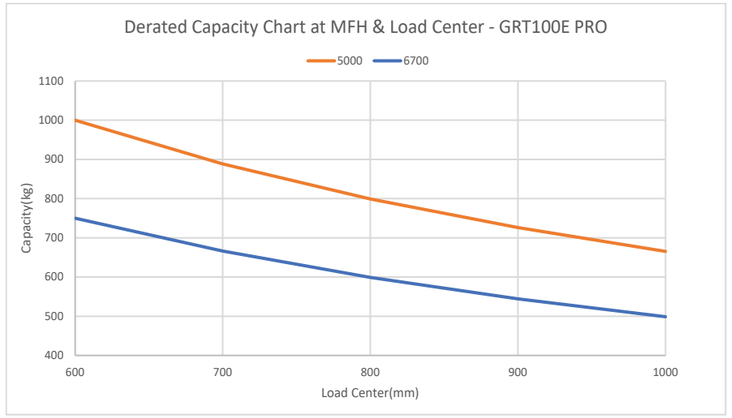

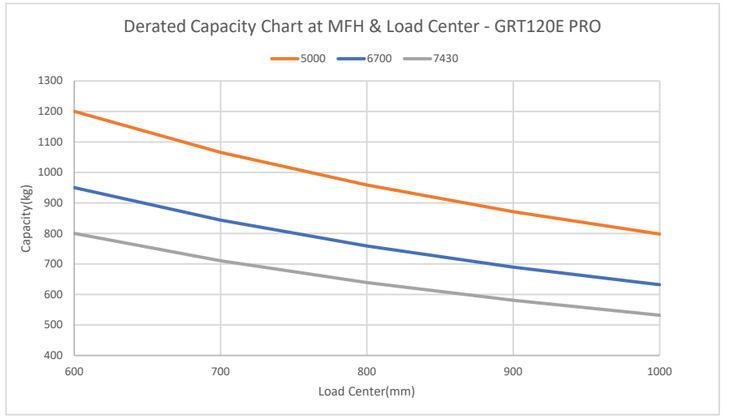

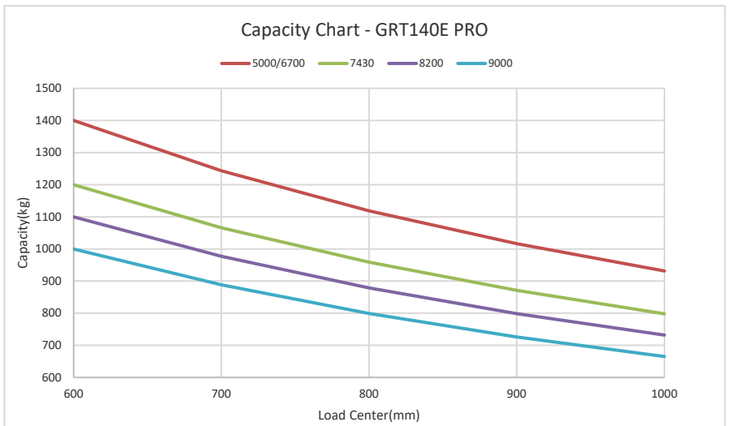

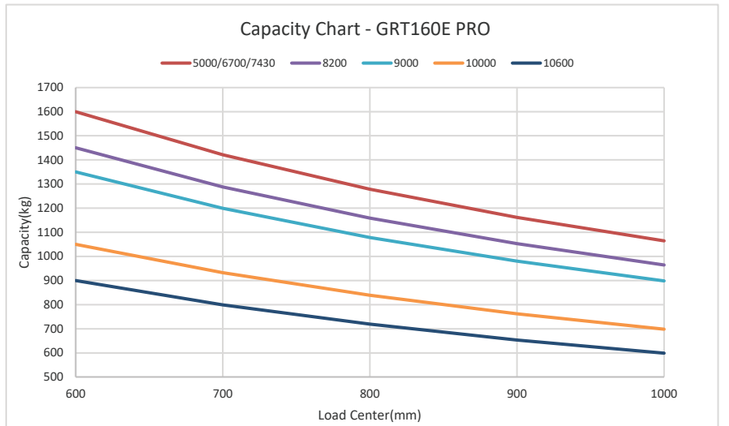

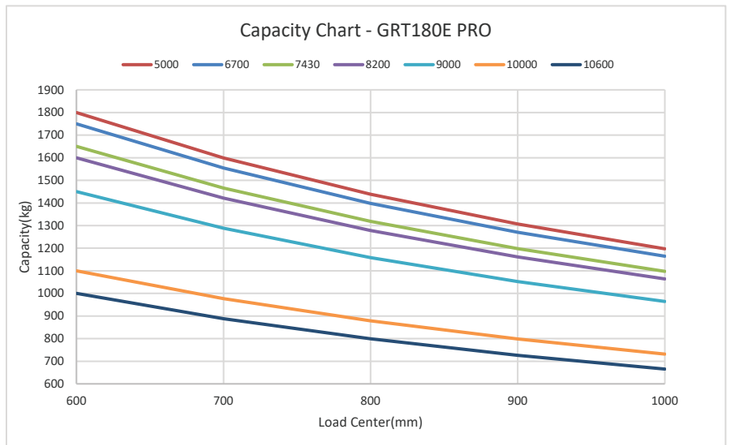

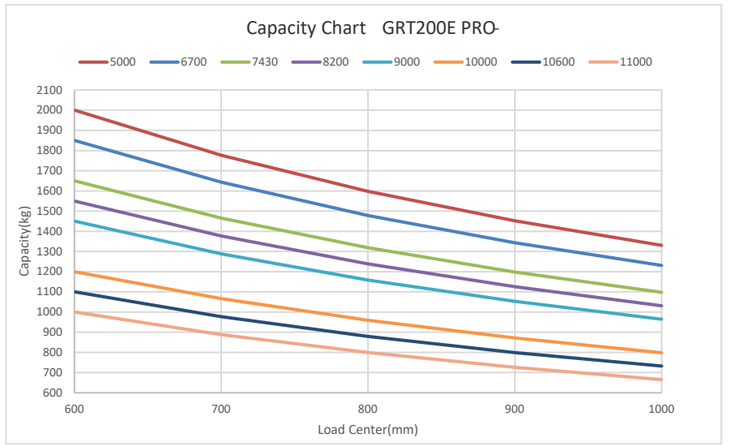

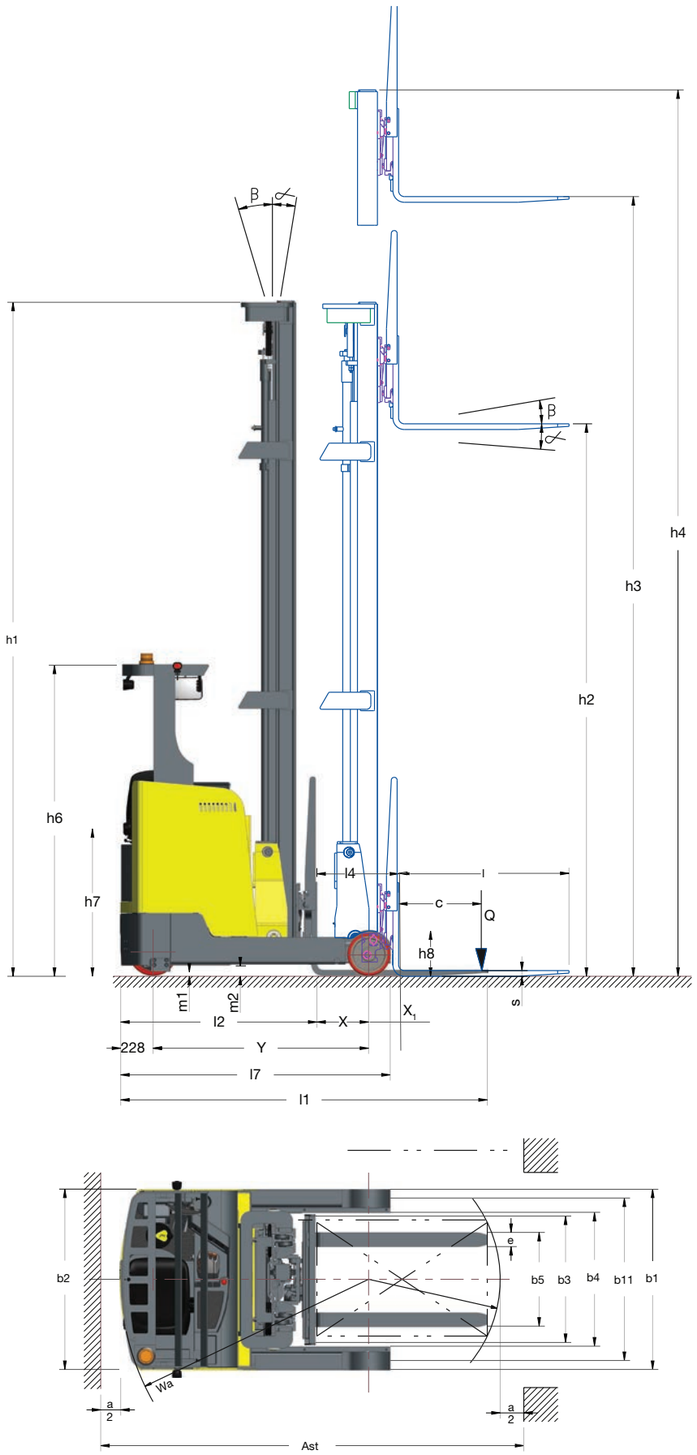

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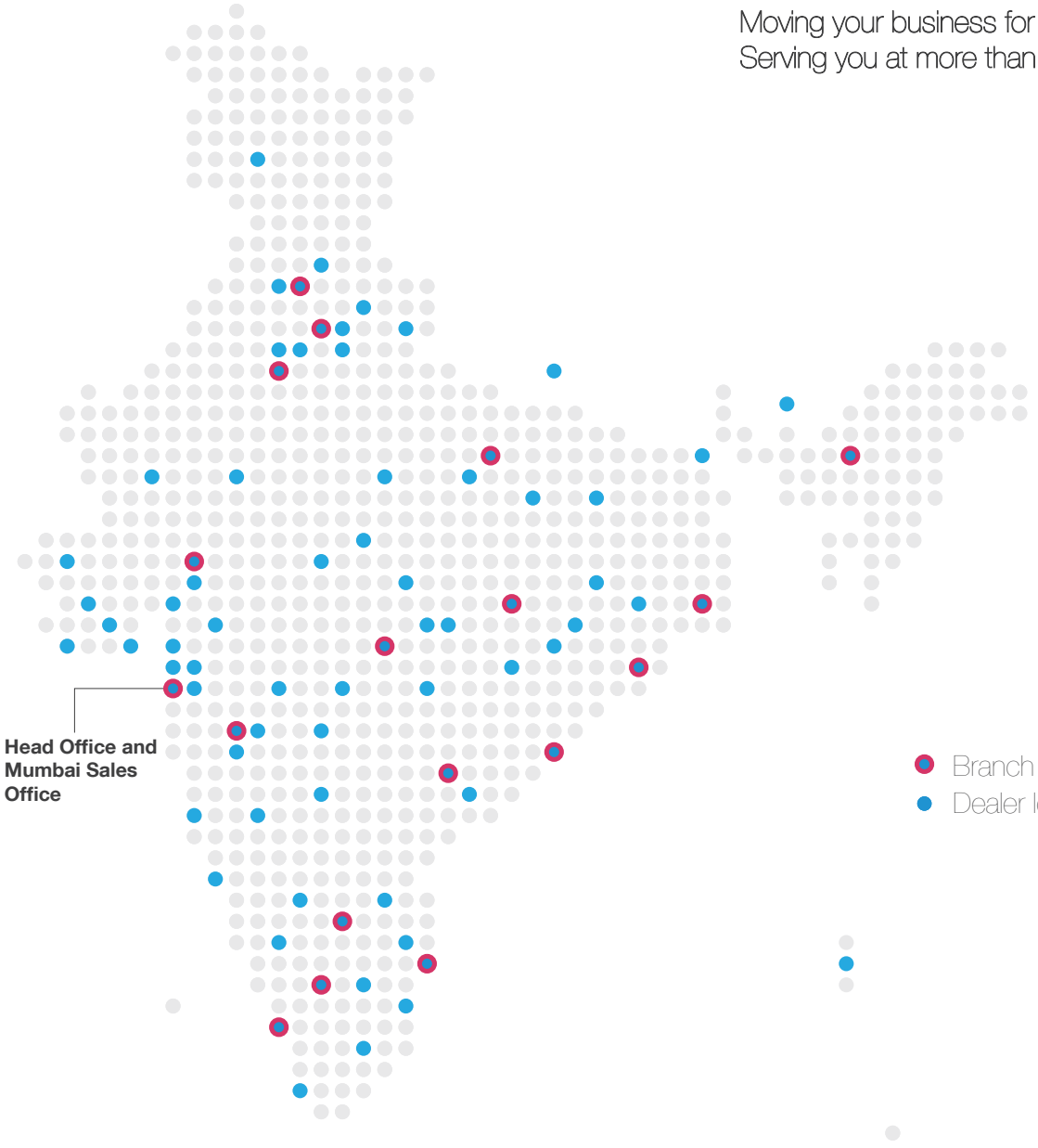

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