

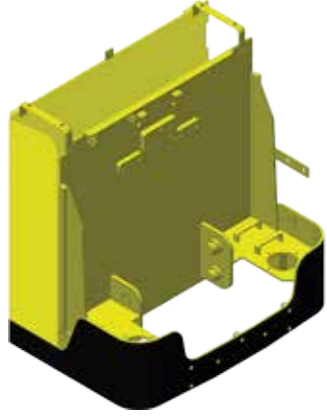
# Electric Stacker



Viscomm/04/2015 Revision 0

### 1 Heavy Duty Chassis Construction

- 8 mm thick carbon steel chassis protects the drive train, hydraulic pack and controller from any damage during operations



### 2 Fully-integrated AC Traction System (ACTS)

- The AC control system and ruggedness of the drive train provides smooth direction changes and allows you to change direction instantaneously
- ACTS also enables the operator to precisely and accurately position the machine to pick and place pallets
- Motor torque control provides braking force, dramatically reducing the need for electromagnetic brake operation. This minimises brake pad wear saving maintenance time and cost

### 3 Programmable Performance Equipment

- Programmable Microprocessor based MOSFET controller enables the equipment to be set to work at the required speeds as well as set required braking distances
- Controller provides the appropriate torque to speed ratio to meet the demands of the application based on constant feedback from the encoder
- The controller increases the life of the motor and the enables the battery to last longer by up to 5%
- Superior control of motor characteristics enhances the life of the motor, besides enabling upto 5% additional operating hours in each charge cycle

# 7 reasons why Godrej Electric Stacker is the right choice to improve productivity and safety of your material handling operations



Operator never has to leave the handle during application making operations stable and safe

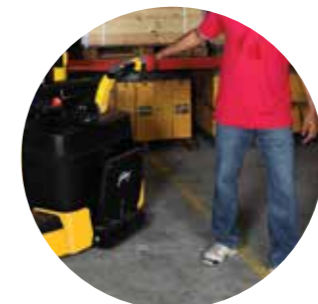
### 4 Full Function Control Handle

- Thanks to the full function control handle, the operator can manage all functions (Forward/Reverse/Braking/Lifting/Lowering) with one hand
- Full function handle eliminates all distraction, allows operator to focus solely on the handling task
- The machine can be handled with either left or right hand due to symmetrical design of the handle



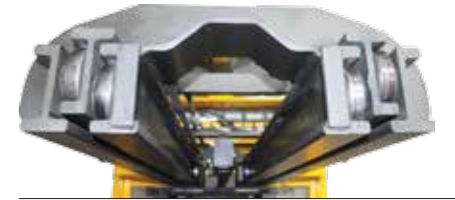
### 7 Safety with Improved Productivity

- Attachments like load back rest improves safety while handling loosely stacked pallets.
- Other safety features are stated in page 5 and 6.



### 5 Superior Mast Design affords better Visibility and Industry Leading Lifting Capacity

- I section with interlocking construction ensures sufficient rigidity & stability to lift loads up to 6.3 meters height.
- This also enables industry leading 650 kg lifting capacity available at 6.3 metre with ESW model.



### 6 Energy Efficient and Precise Fork Control through Electronically Controlled Hydraulics

- Proportional control valve enables operator to align the forks smoothly and accurately with the pallet
- Jerk-free lifting and lowering ensures safety and stability of handling
- Electronic control generates only the power required to lift a particular load, saving energy, allowing the battery to run longer on every charge



# Godrej Electric Stacker

Built to promise uptime...



Easy battery rollout



Ease of maneuvering



Best-in-class stability

## Productivity... Enhanced!

Clear through mast visibility at all heights



Higher travel speed with platform

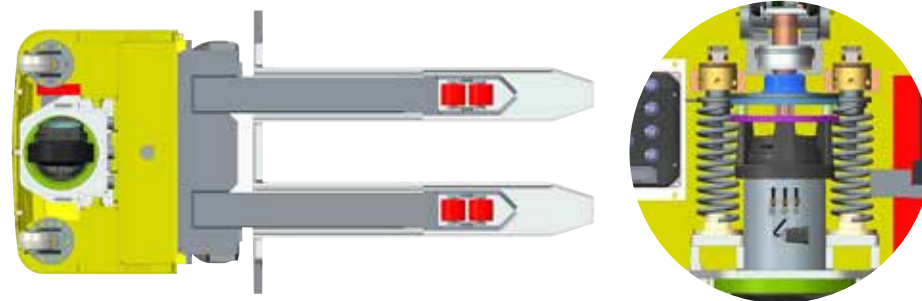




# Godrej Safety Features



Clear visibility at all heights



## 1 Five point wheel configuration

- Spring suspension for the drive unit ensures the contact of the wheel drive with the ground at all times while reducing the effort to steer the machine. Equipment automatically adjusts travel speeds to suit different operating conditions.

## 2 Different speeds to meet the requirements of the application while ensuring safe operation of the equipment

- Castors on either side of the drive wheel guarantee stability of the truck all the way up to 6.3 meters fork height. Controller ensures that the load is safely positioned at the lowest possible height while travelling by automatically reducing the machine speed to 2.5 kmph when:
  - The forks are raised 300 mm above the ground. This also ensures slower and precise movement while placing or picking pallets from the rack.
  - Raising the operator platform automatically reduces the travel speed to 2.5 kmph, making it in pedestrian mode. Operator platform is raised for operating in pedestrian mode.



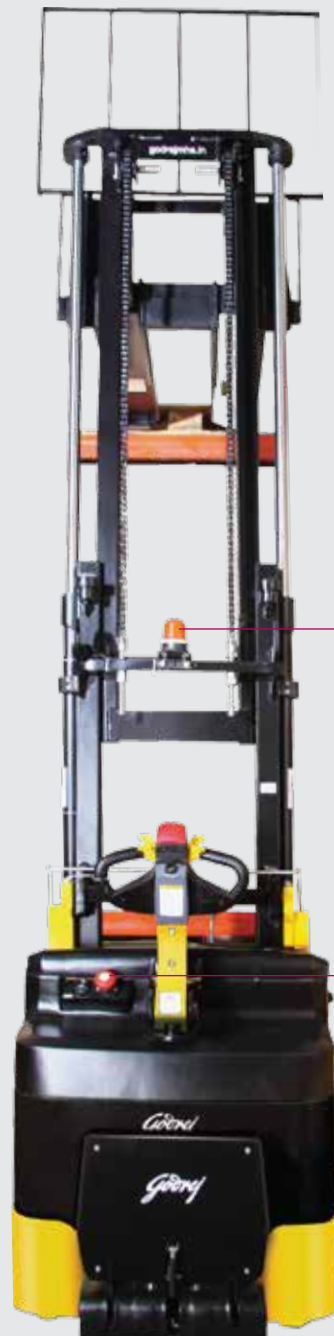
Side restraint for operator support



Flashing beacon with Travel Alarm (Optional)

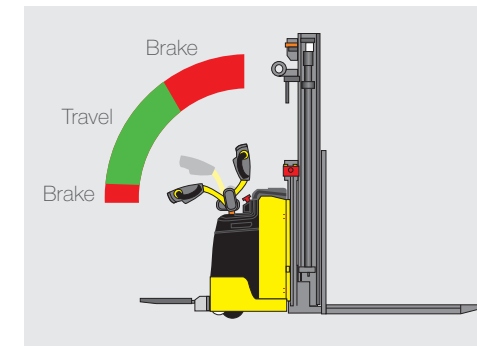


Emergency Switch and Battery Discharge Indicator



## 3 Fail-safe Braking System

- Electromagnetic brake acts directly on the motor. It acts automatically in case of any form of power failure in the equipment.
- The electromagnetic brake also operates as a ramp hold, preventing the stacker from running away if left unattended on a slope
- The extreme horizontal & vertical positions of the tiller handle activate the electromagnetic brake. This ensures that the handle is always held in a convenient and safe zone while travelling. A spring automatically returns the tiller handle to a vertical position, immediately activating the electromagnetic brake and holding the stacker safely.
- The braking distance is programmable to suit the application, working conditions and operator skill.



Operating mode with brake zone



## 4 Anti-pinning Button at the end of the control handle

- If the operator accidentally gets trapped between the stacker and the wall/rack, the anti-pinning button presses against the operator. This immediately moves the machine a few inches away from the operator, before coming to a halt.



## 5 Battery Discharge Indicator (BDI) with lift lock out

- The BDI visually indicates the battery status at all times. The lift lock out disables lift function when the battery is discharged to 80% of its full capacity, preventing deep discharge of the battery through further use.

## 6 Emergency stop switch

- The mushroom button instantly cuts power to all functions and operates the electromagnetic brake whenever it is struck in emergency

## Performance Enhancing Options:

- 324 Ah battery in lieu of standard 219 Ah battery
- Reverse alarm
- Flashing beacon
- Camera system with colour monitor
- Side restraints
- Overhead guard
- Load backrest
- Non-standard fork spread or straddle dimensions
- Battery changing trolley
- Rack height assist\*
- Load indicator (with cumulative load handled)\*
- Fork height restrictor with manual over-ride\*

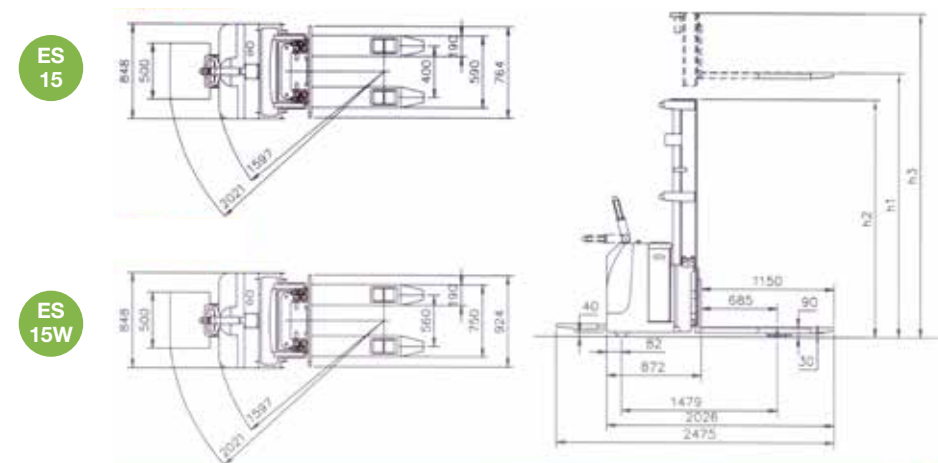
\*Special design sanction required



**Electric Stacker**  
**MODEL - ES 15 / ES 15W (FORK OVER VERSION)**

Description		Unit	ES 15	ES 15 W
Load Capacity		kg	1500	1500
Load Centre		mm	600	600
Fork Length		mm	1150	1150
Width Across Forks (outer-to-outer)		mm	590	750
Travel Speed*	Laden	kmph	5.5	5.5
	Unladen	kmph	6.5	6.5
Lift Speed	Laden	m/s	0.11	0.11
	Unladen	m/s	0.15	0.15
Lowering Speed	Laden	m/s	0.13	0.13
	Unladen	m/s	0.10	0.10
Gradient	Laden	%	7	7
	Unladen	%	15	15
Overall Length	With Platform	mm	2475	2475
	Without Platform	mm	2026	2026
Overall Width	Front/Rear	mm	848 / 764	848 / 924
	Tyres (diameter x width)			
Tyres (diameter x width)	Drive Wheel	mm	Ø230 x 83 (PU)	Ø230 x 83 (PU)
	Load Wheel	mm	Ø85 x 75 (PU)	Ø85 x 75 (PU)
	Castor Wheel	mm	Ø135 x 60 (PU)	Ø135 x 60 (PU)
Underclearance (minimum/maximum)		mm	30 / 40	30 / 40
Turning Radius	With Platform	mm	2021	2021
	Without Platform	mm	1597	1597
Right Angle Stacking Width (with/without platform)	800(W) x 1200(L)	mm	2878 / 2455	Not Available
	1000(W) x 1200(L)	mm	2937 / 2512	
For Pallet Size	200(W) x 1200(L)	mm	3010 / 2585	
Motor Details	Traction	kw/V	1.2 / 24 (AC)	1.2 / 24 (AC)
	Pump	kw/V	3 / 24	3 / 24
Battery		V/Ah	24 / 219**	24 / 219**

\*\*Higher capacity battery can be offered for extensive applications.



Model	Mast Type	Maximum Fork Height (MFH) ht (mm)	Overall Height Lowered (OAHL) h2 (mm)	Free Lift (mm)	Overall Height Raised (OHR)*** h3 (mm)	Capacity at MFH (kg)
ES 1530/ES 1530 W	2 Stage CVM	3000	2110	0	3500	1200
ES 1533/ES 1533 W	2 Stage CVM	3300	2260	0	3800	1000
ES 1536/ES 1536 W	2 Stage CVM	3660	2440	0	4160	900
ES 1546/ES 1546W	2 Stage CVM	4600	2910	0	5100	500
ES 1536/ES 1536 W	3 Stage CVM	3600	1735	1270	4100	850
ES 1545/ES 1545 W	3 Stage CVM	4500	2035	1570	5000	500

\*\*\*Add 500 mm if load back rest is offered

NOTE: All dimensions and specifications indicated above are subject to a variation of +/-15%. Godrej products and specifications are subject to improvement or change without notice. The colour of the product reflecting in this brochure is indicative and may vary in actual supply.

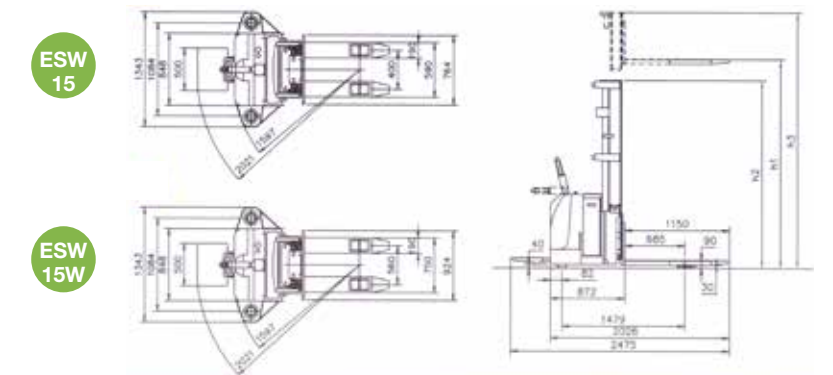
- Travel Speed is reduced when either
  - The forks are raised 300 mm from ground
  - If platform is not provided
  - If platform is in folded condition



**Electric Stacker**  
**MODEL - ESW 15 / ESW 15W (FORK OVER - WIDE CHASIS VERSION)**

Description		Unit	ESW 15	ESW 15 W
Load Capacity		kg	1500	1500
Load Centre		mm	600	600
Fork Length		mm	1150	1150
Width Across Forks (outer-to-outer)		mm	590	750
Travel Speed*	Laden	kmph	5.5	5.5
	Unladen	kmph	6.5	6.5
Lift Speed	Laden	m/s	0.11	0.11
	Unladen	m/s	0.15	0.15
Lowering Speed	Laden	m/s	0.13	0.13
	Unladen	m/s	0.10	0.10
Gradient	Laden	%	7	7
	Unladen	%	15	15
Overall Length	With Platform	mm	2475	2475
	Without Platform	mm	2026	2026
Overall Width	Front/Rear	mm	1343 / 764	1343 / 924
	Tyres (diameter x width)			
Tyres (diameter x width)	Drive Wheel	mm	Ø230 x 83 (PU)	Ø230 x 83 (PU)
	Load Wheel	mm	Ø85 x 75 (PU)	Ø85 x 75 (PU)
	Castor Wheel	mm	Ø135 x 60 (PU)	Ø135 x 60 (PU)
Underclearance (minimum/maximum)		mm	30 / 40	30 / 40
Turning Radius	With Platform	mm	2021	2021
	Without Platform	mm	1597	1597
Right Angle Stacking Width (with/without platform)	800(W) x 1200(L)	mm	2878 / 2455	Not Available
	1000(W) x 1200(L)	mm	2937 / 2512	
For Pallet Size	1200(W) x 1200(L)	mm	3010 / 2585	
Motor Details	Traction	kw/V	1.2 / 24 (AC)	1.2 / 24 (AC)
	Pump	kw/V	3 / 24	3 / 24
Battery		V/Ah	24 / 219**	24 / 219**

\*\*Higher capacity battery can be offered for extensive applications.



Model	Mast Type	Maximum Fork Height (MFH) ht (mm)	Overall Height Lowered (OAHL) h2 (mm)	Free Lift (mm)	Overall Height Raised (OHR)*** h3 (mm)	Capacity at MFH (kg)
ESW 1530/ESW 1530 W	2 Stage CVM	3000	2110	0	3500	1500
ESW 1533/ESW 1533 W	2 Stage CVM	3300	2260	0	3800	1430
ESW 1536/ESW 1536 W	2 Stage CVM	3660	2440	0	4160	1350
ESW 1546/ESW 1546W	2 Stage CVM	4600	2910	0	5100	1100
ESW 1536/ESW 1536 W	3 Stage CVM	3600	1735	1270	4100	1350
ESW 1545/ESW 1545 W	3 Stage CVM	4500	2035	1570	5000	1100
ESW 1550/ESW 1550 W	3 Stage CVM	5000	2290	1735	5500	1040
ESW 1555/ESW 1555W	3 Stage CVM	5500	2535	1900	6000	980
ESW 1560/ESW 1560 W	3 Stage CVM	6000	2735	2070	6500	850
ESW 1563/ESW 1563 W	3 Stage CVM	6300	2850	2170	6800	650

\*\*\*Add 500 mm if load back rest is offered

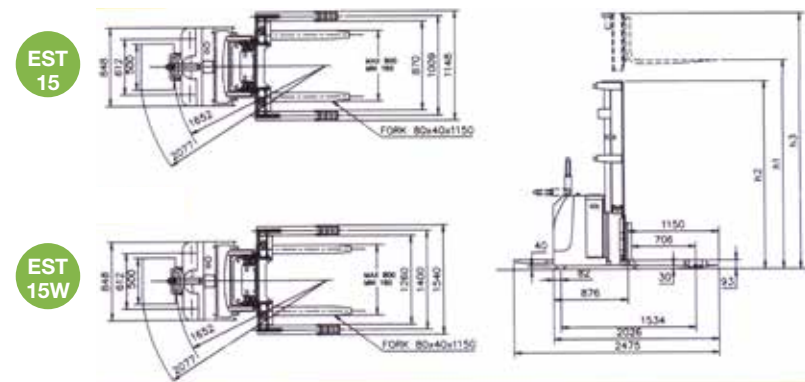
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## Electric Stacker MODEL - EST 15 / EST 15W (STRADDLE VERSION)

Description	Unit	EST 15	EST 15 W
Load Capacity	kg	1500	1500
Load Centre	mm	600	600
Fork Length	mm	1150	1150
Width Inside Straddle	mm	870	1260
Travel Speed*	Laden	kmph	5.5
	Unladen	kmph	6.5
Lift Speed	Laden	m/s	0.11
	Unladen	m/s	0.15
Lowering Speed	Laden	m/s	0.13
	Unladen	m/s	0.10
Gradient	Laden	%	7
	Unladen	%	15
Overall Length	With Platform	mm	2475
	Without Platform	mm	2026
Overall Width	Front/Rear	mm	848 / 1148
		mm	848 / 1540
Tyres (diameter x width)	Drive Wheel	mm	Ø230 x 83 (PU)
	Load Wheel	mm	Ø85 x 75 (PU)
	Castor Wheel	mm	Ø135 x 60 (PU)
Underclearance (minimum/maximum)	mm	30 / 40	30 / 40
Turning Radius	With Platform	mm	2077
	Without Platform	mm	1652
Right Angle Stacking Width (with/without platform)	800(W) x 1200(L)	mm	2890 / 2462
	1000(W) x 1200(L)	mm	N. A.
For Pallet Size	1200(W) x 1200(L)	mm	N. A.
Motor Details	Traction	kw/V	1.2 / 24 (AC)
	Pump	kw/V	3 / 24
Battery	V/Ah	24 / 219**	24 / 219**

\*\*Higher capacity battery can be offered for extensive applications.



Model	Mast Type	Maximum Fork Height (MFH) ht (mm)	Overall Height Lowered (OAHL) h2 (mm)	Free Lift (mm)	Overall Height Raised (OAHR)*** h3 (mm)	Capacity at MFH (kg)
EST 1530/EST 1530 W	2 Stage CVM	3000	2110	0	3500	1500
EST 1533/EST 1533 W	2 Stage CVM	3300	2260	0	3800	1450
EST 1536/EST 1536 W	2 Stage CVM	3660	2440	0	4160	1400
EST 1546/EST 1546 W	2 Stage CVM	4600	2910	0	5100	1150
EST 1536/EST 1536 W	3 Stage CVM	3600	1735	1270	4100	1350
EST 1545/EST 1545 W	3 Stage CVM	4500	2035	1570	5000	1250
EST 1550/EST 1550 W	3 Stage CVM	5000	2290	1735	5500	1100
EST 1555/EST 1555 W	3 Stage CVM	5500	2535	1900	6000	1000
EST 1560/EST 1560 W	3 Stage CVM	6000	2735	2070	6500	850
EST 1563/EST 1563 W	3 Stage CVM	6300	2850	2170	6800	650

\*\*\*Add 500 mm if load back rest is offered

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- Travel Speed is reduced when either
  - The forks are raised 300 mm from ground
  - If platform is not provided
  - If platform is in folded condition

### Standard features

- Fully welded steel chassis, optimally designed on Pro E & validated by finite element analysis (FEA)
- High visibility 2-stage and 3-stage masts
- Fully integrated suspended drive unit with ACTS traction motor, gear box and drive wheel
- Polyurethane drive and load wheels supported by side castors
- Centre mounted control arm with full function control handle
- Programmable MOSFET traction controller
- 24V electrical system
- 219 Ah traction battery
- Battery size 750(L) X 170(W) X 570(H)mm
- 1.2 KW AC traction motor
- Series wound, high speed 3 KW DC pump motor
- Electro-magnetic brakes with FBS technology
- Battery discharge indicator with lift lock out
- Mushroom button for emergency shut down
- Operator platform
- Anti-pinning button at the end of the control arm
- Key switch
- Horn
- Battery compartment rollers

### Other Stackers



Counterbalanced stacker



Stacker with reach for narrow aisle operation



Double your productivity. Handle two pallets simultaneously.



Stacker with initial lift - combination equipment suitable for stacking and pallet truck applications

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