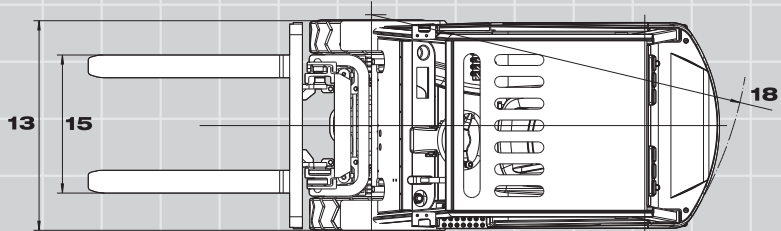
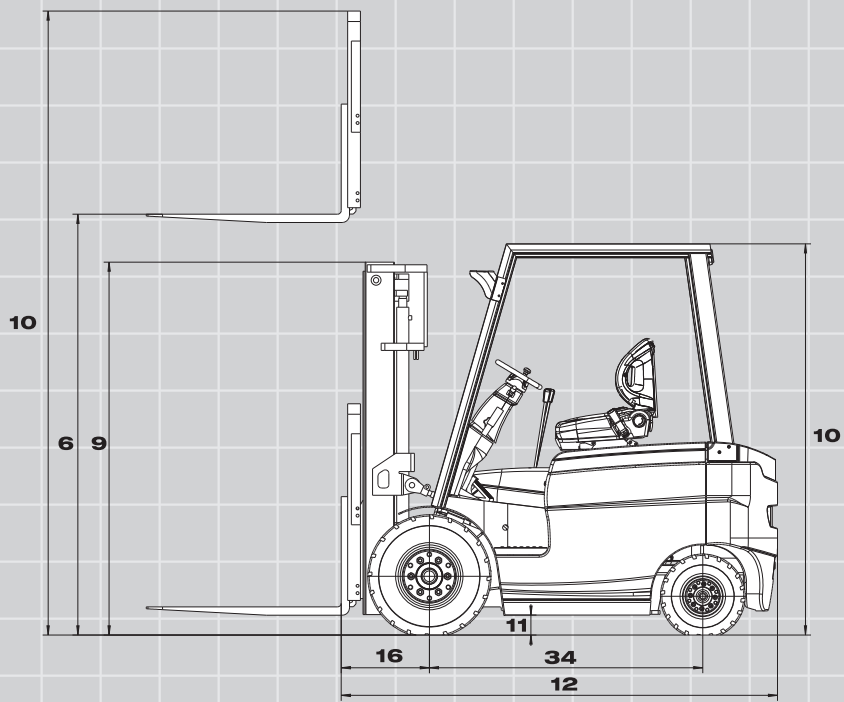




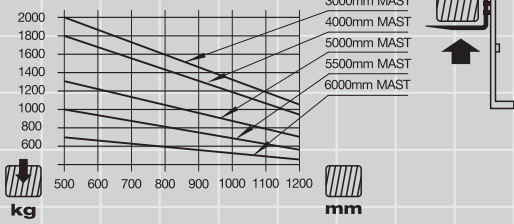
SPECIFICATION

**4-WHEEL
ELECTRIC FORKLIFT**

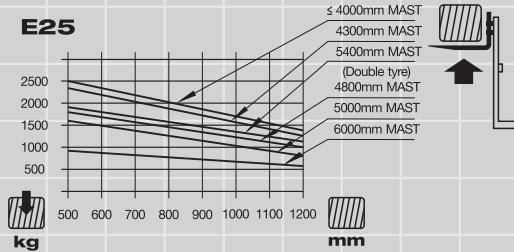
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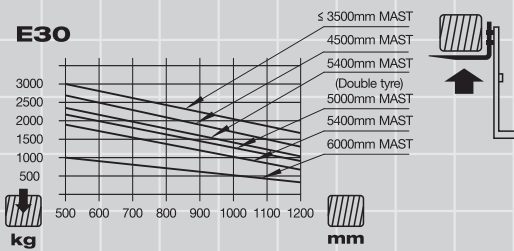
E20



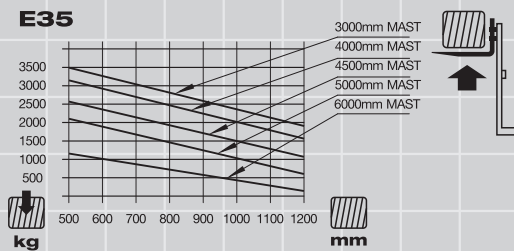
E25



E30



E35



SPECIFICATION	1	Manufacturer		RY	RY	RY	RY
	2	Model		E20	E25	E30	E35
	3	Power Type		Electric	Electric	Electric	Electric
	4	Rated Load Capacity	kg	2000	2500	3000	3500
	5	Load Centre	mm	500	500	500	500
DIMENSIONS	6	Rated Lift Height	mm	3000	3000	3000	3000
	7	Free Lift Height	mm	140	140	145	145
	8	Tilting Angle (F/R, $\alpha^{\circ}/\beta^{\circ}$)	Deg	6°/12°	6°/12°	6°/12°	6°/12°
	9	Height When Mast Lowered	mm	2045	2045	2060	2060
	10	Height to Safeguard	mm	2150	2150	2150	2150
	11	Min. Ground Clearance	mm	120	120	130	130
	12	Length (to Fork Face)	mm	2388	2388	2518	2578
	13	Width	mm	1150	1150	1225	1225
	14	Fork Size (LxWxT)	mm	1070x125x40		1070x125x45	
	15	Fork Spread (Min./Max.)	mm	250/1040	250/1040	250/1100	250/1100
	16	Overhang Front	mm	478	478	483	483
	17	Overhang Rear	mm	410	410	435	495
	18	Min. Turning Radius	mm	2080	2080	2260	2320
	19	Height when Mast Lifted	mm	4145	4145	4160	4160
20	Working Aisle Width with Pallet (Ast)*, 1000x1200 Crossways	mm	3925	3925	4080	4140	
21	Working Aisle Width with Pallet (Ast)*, 800x1200 Lengthways	mm	4025	4025	4180	4240	
PERFORMANCE	22	Travel Speed (Full Load)	km/h	12	12	12	12
	23	Travel Speed (No Load)	km/h	13	13	13	13
	24	Lifting Speed (Full Load)	mm/s	290	290	280	280
	25	Lifting Speed (No Load)	mm/s	400	400	400	400
	26	Gradeability (Full Load)	%	15	15	15	12
	27	Gradeability (No Load)	%	15	15	15	13
	28	Service Brake (Operation/Control)		Foot/Powershift		Foot/Powershift	
	29	Parking Brake (Operation/Control)		Hand/Mechanical		Hand/Mechanical	
	DRIVE	30	Tyre (FrontX2)		7.00-12-12PR	7.00-12-12PR	28x9-15-12PR
31		Tyre (RearX2)		18x7-8-14PR	18x7-8-14PR	18x7-8-14PR	18x7-8-14PR
32		Tread (Front)	mm	970	970	1000	1000
33		Tread (Rear)	mm	950	950	970	970
34		Wheelbase	mm	1500	1500	1600	1600
WEIGHT	35	Total Weight (Include Battery Box)	kg	4060	4260	5150	5570
	36	Front Axle Weight Distribution (Full Load)	kg	5180	5823	7210	8070
	37	Rear Axle Weight Distribution (Full Load)	kg	880	937	940	1000
	38	Front Axle Weight Distribution (No Load)	kg	1675	1665	2318	2520
	39	Rear Axle Weight Distribution (No Load)	kg	2385	2595	2832	3050
DRIVE	40	Drive Motor	kw	11	11	12	12
	41	Pump Motor	kw	11	11	12	12
	42	Standard Battery	V/Ah	48/560	48/560	80/500	80/500
	43	Controller Type		AC	AC	AC	AC
	44	Controller Manufacturer		ZAPI	ZAPI	ZAPI	ZAPI
	45	Operating Pressure for Attachment	Mpa	17.5	17.5	17.5	17.5

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MAST TYPE	MAST NAME	MAX. FORK HEIGHT (mm)	LOAD CAPACITY(LOAD CENTRE 500mm)(kg)			
			E20	E25	E30	E35
2-Stage Wide View Mast	BM300	3000	2000	2500	3000	3500
	BM330	3300	2000	2500	3000	3500
	BM350	3500	2000	2500	3000	3500
	BM400	4000	2000	2400	3000	3500
	BM450	4500	1800	2150	2700	3200
	BM500	5000	1600	1600	2200	2700
	BM550	5500	1500	1500	2000	2500
	BM600	6000	950	950	1300	1800
2-Stage Full Free Wide View Mast	BFM300	3000	2000	2500	3000	3500
	BFM330	3300	2000	2500	3000	3500
	BFM350	3500	2000	2500	3000	3500
	BFM370	3700	2000	2450	3000	3500
	BFM400	4000	2000	2400	3000	3500
3-Stage Full Free Wide View Mast	BTFM430	4300	1850	2200	2700	3200
	BTFM450	4500	1750	2100	2600	3100
	BTFM470	4700	1720	2000	2500	3000
	BTFM500	5000	1600	1600	2100	2600
	BTFM550	5500	1500	1500	2000	2500
	BTFM600	6000	950	950	1300	1800
	BTFM650	6500	600	600	900	1400

MAST TYPE	MAST NAME	OVERALL HEIGHT(mm)				TILT ANGLE		
		LOWERED	EXTENDED		LOWERED		EXTENDED	
			WITHOUT/WITH BACKREST				WITHOUT/WITH BACKREST	
		E20/E25		E30/E35				
2-Stage Wide View Mast	BM300	2045	3585 / 4145		2060	3680 / 4160		6-12
	BM330	2195	3885 / 4445		2210	3980 / 4460		6-12
	BM350	2295	4085 / 4645		2310	4180 / 4660		6-12
	BM400	2595	4585 / 5145		2610	4680 / 5160		6-6
	BM450	2840	5085 / 5645		2860	5180 / 5660		6-6
	BM500	3145	5585 / 6145		3160	5680 / 6160		6-6
	BM550	3395	6085 / 6645		3410	6180 / 6660		3-6
	BM600	3645	6585 / 7145		3660	6680 / 7160		3-6
2-Stage Full Free Wide View Mast	BFM300	2045	3595 / 4160		2060	3690 / 4175		6-12
	BFM330	2195	3895 / 4460		2210	3990 / 4475		6-12
	BFM350	2295	4095 / 4660		2310	4190 / 4675		6-12
	BFM370	2395	4295 / 4860		2410	4390 / 4875		6-6
	BFM400	2595	4595 / 5160		2610	4690 / 5175		6-6
3-Stage Full Free Wide View Mast	BTFM430	2010	4950 / 5510		2025	5045 / 5525		6-6
	BTFM450	2120	5100 / 5660		2135	5195 / 5675		6-6
	BTFM470	2160	5300 / 5860		2175	5395 / 5875		6-6
	BTFM500	2260	5600 / 6160		2275	5695 / 6175		6-6
	BTFM550	2440	6000 / 6560		2455	6095 / 6575		3-6
	BTFM600	2660	6600 / 7160		2675	6695 / 7172		3-6
	BTFM650	2810	7100 / 7660		2825	7195 / 7672		3-6

MAST TYPE	MAST NAME	FREE LIFT(mm)				TOTAL WEIGHT (kg)			
		WITH/WITHOUT BACKREST		WITH/WITHOUT BACKREST		E20	E25	E30	E35
		E20/E25		E30/E35					
2-Stage Wide View Mast	BM300	140 / 140		145 / 150		4160	4360	5150	5570
	BM330	140 / 140		145 / 150		4185	4395	5170	5590
	BM350	140 / 140		145 / 150		4200	4400	5190	5610
	BM400	140 / 140		145 / 150		4240	4445	5240	5660
	BM450	140 / 140		145 / 150		4280	4500	5280	5700
	BM500	140 / 140		145 / 150		4320	4540	5320	5740
	BM550	140 / 140		145 / 150		4360	4590	5360	5780
	BM600	140 / 140		145 / 150		4400	4640	5400	5820
2-Stage Full Free Wide View Mast	BFM300	1515 / 930		1425 / 945		4200	4375	5220	5660
	BFM330	1665 / 1080		1575 / 1095		4225	4395	5240	5680
	BFM350	1765 / 1180		1675 / 1195		4240	4410	5260	5700
	BFM370	1865 / 1285		1775 / 1295		4255	4430	5280	5720
	BFM400	2065 / 1480		2025 / 1545		4280	4465	5310	5750
3-Stage Full Free Wide View Mast	BTFM430	1440 / 1040		1445 / 940		4310	4650	5280	5700
	BTFM450	1500 / 1090		1525 / 995		4340	4670	5320	5740
	BTFM470	1550 / 1140		1575 / 1045		4380	4710	5360	5780
	BTFM500	1650 / 1240		1675 / 1145		4400	4740	5400	5820
	BTFM550	1850 / 1440		1855 / 1345		4440	4770	5420	5840
	BTFM600	2050 / 1640		2040 / 1545		4480	4810	5460	5880
	BTFM650	2355 / 1750		2410 / 1695		4510	4840	5480	5900

Notice: With side shifter, load capacity subtract 200Kg.

COMFORT & ERGONOMICS

Smaller Steering Wheel

With 60mm less in diameter of the steering wheel, RY forklift dramatically improves the operation vision; it's easy to operate and reduce the operator's arm and shoulder's workload. The easy handling steering wheel column with tilt adjustment helps to provide the ideal operating position and improve the performance a lot.

Ergonomic Designed Operation Handler

According to the ergonomic theory, RY forklift works out the best moment arm of force, to have the operation handler in the best position. This can provide the operator with the best comfort of operation and also increase the better visibility.

Excellent Visibility

- Newly designed backrest and fork carriage with excelled fork tip visibility.
- Newly designed overhead guard with wide upward visibility.
- Super wide view mast with hidden hose design dramatically improves the front and lifting visibility, ensuring the safety of operation.

Low Vibration & Noise

Full AC system of motors and controller reduces the noise dramatically. The RY forklift also reduces noise harmful to the operator and environment by treatment of hydraulic system.

Great Comfort and Productivity

Taking ergonomic design into fully consideration, RY forklift enlarges the foot operation space by 20% compared to conventional forklifts to provide operators with a surprisingly comfortable way to get through each working minute.

Multifunctional LCD Display Meter

The large and easy-to-see Multifunctional LCD display meter can have the operator check on all operational status at a glance. The key components and connectors have been protected to meet rain-proof and dust-proof level.

HIGH EFFICIENCY & PRODUCTIVITY

Faster Lifting & Lowering Speed

Considering safety and energy-saving, RY forklift attaches close attention to the development of hydraulic system, and increases lifting and lowering speed to ensure the productivity.

Precisely Steering

The new axle provides wider steering angles to 85 degree to present a superior smart turning radius of RY forklift, and plus the compact design, RY forklift can navigate the narrow and congested space.

Higher Acceleration Ability

20% higher acceleration ability, surprisingly shortens the working time at the same working distance and dramatically improves the working efficiency.

Superior Intelligent Control System

This device can adjust the lifting & lowering speed, travelling speed, acceleration & driving brake time according to different working condition, in order to improve the working efficiency and the comfort of the operator.

Faster & Safer Battery Change

With side-door battery change design, the battery can be easily taken out from side by using a pallet truck, stacker or forklift. Compare to conventional forklifts which needs to take battery from top of the overhead guard, RY forklift battery change is faster, easier and safer.

Regeneration System

RY forklifts are adopted new energy-saving system. When forklift slowing down during travel, or parking, or braking or driving on the ramp during working, the battery will get recharged and can save energy in order to improve working efficiency by prolonging working hours.

SAFETY

Low Truck Gravity

According to the Gravity Balance Principle, low gravity design is applied to RY Forklift to ensure the stable and safe operations.

Integral Heavy Duty Chassis

An integral heavy duty chassis provides the driver with 20% more protection from falling loads.

Steering Self-control Device

RY 4-wheel battery forklift can adjust travelling speed according to the turning angle with steering self-control device. It can reduce some accidents due to high travelling speed at a bigger turning angle, ensuring more safety.

Mast Intelligent Buffering System

With intelligently declining buffer sensor on the two ends of the cylinder, the falling speed of the fork slows down automatically before it is 10cm from the ground, and the lifting speed to the top also slows down to avoid quick hit on the top, it super increases the safety of the goods and forklifts.

Operator Presense Security System

With operator presense security system, RY forklift can have the forklift stop moving forward when the operator leaves the seat which ensure the safety of goods and people around at emergency situation.

Fuzzy Logic Acceleration Control

With this system, RY 4-wheel battery forklift enables the operator very accurate forklift truck control. A forklift truck acceleration curve is selected according to the speed with which pedal is depressed.

Mast Self-locking Device (Option)

For conventional forklifts, when mast extended and forklift powered off, the operator can still lower the mast. For RY forklift, with optional mast self-locking device, the forklift will be locked and lifting & lowering can not be operated in order to avoid from some unexpected accidents.

Mast Tilt-controlled Device (Option)

With mast tilt-controlled device, RY forklift can decelerate as the lifting height increase when the tilt angle over 3M. Thus, it can prevent the cargo from falling when lifting and avoid unnecessary loss and accidents.

Parking Brake Warning Buzzer (Option)

An automatic-style parking brake adds to the convenience and safety. The warning buzzer will sound when the operator leaves the seat without parking the forklift.

SUPERIOR & ECONOMIC SERVICEABILITY

Open Structural Design

The open structural design combined with the location of different system of forklift, RY forklift engineers design this forklift with an idea to assemble & disassemble forklift from different ways. This design dramatically improves the serviceability and lowers the service labor cost.

Easy Service & Maintenance

The bolt mounted foot step cover can be easily taken off to do inspection and service.

Reliable Hydraulic System

With reliable hydraulic design and components, the hydraulic components are with high durability which can lower the cost in repair and replacement.

Malfunction Diagnose

RY 4-wheel battery forklifts are equipped with the central controller system and divided function system. When there is any malfunction happens, RY forklift will present wrong code and warning. The operator can tell the reason of the malfunction easily and then to service the truck more accurate and faster.

RELIABLE RY FORKLIFT

Reliable Forklift Quality

With the international testing standard, more reliable supplier chain, higher quality control to ensure the stability and quality of forklifts.

Perfect After Sales Service System

With perfect after sales service and I-NET system, RY forklift can analyze each forklift issue easier, faster and more accurate.

Comprehensive Parts Supply System

Parts supply system complied with multi-functional parts warehouse and I-NET system, RY forklift can provide clients with different type spare parts in time and accuracy.

Experienced Technical Support Team

There are very experienced technical support team in RY forklift to provide professional training to clients from different country.

STANDARD EQUIPMENT

Efficiency and Stability System

ZAPI Controller, Full AC System
Swerve & Speed Proportion Control Device
2-Stage 3m Wide View Mast
Acceleration Curve Memory Function

High Performance and Durability System

SHIMADZU Multi-way Control Valve
Hawker Battery
48-volt System

Regenerative Braking System

Drivability

Adjustable Steering Wheel
Cup Holder
Luxurious Floor Mat
Large Floorboard
Luxurious Accelerator and Brake Pedal
Accessible Battery Cover

Maintenance Friendly Standard

ZAPI-SMART Display Meter
Self-diagnose Indicator
NOK Hydraulic Seals
Side Removal Battery Change Device

Safety System

Multi-Functional Combined Switch
Emergency Switch
Seat Sensor
Multi-Functional Safe Seat
Mast Intelligent Buffering System
Integral Covering
Bar Type Forks
Load Backrest
Front & Rear Pneumatic Tyres
2nd Valve & Pipe
Rearview Mirror
Buzzer
Electric Horn

Excellent Water-proof Components
Excellent Dust-proof Components
RY Label
Reverse Alarming Light
Front Combined Lamp
Rear Combined Lamp
Tool Box
Operation Manual
Maintenance Manual
Spare Parts Manual
Inspection Certificate

OPTIONAL EQUIPMENT

Mast Variations

2-Stage Full Free Wide View Mast
3-Stage Full Free Wide View Mast

Valve & Pipe

3rd Valve & Pipe
4th Valve & Pipe

Attachment

Cascade Side Shift
Integrative Side Shift
Special Attachments

Efficiency and Stability System

Joy Stick
Automatic Water Filling System

Safety System

Mast Locking System
Mast Top Limited System
No-marking Solid Tyre
Fork Extensions

Extended Forks
Widen Backrest or Carriage
Fire Extinguisher
Suspension Seat
Large Capacity Battery
Battery Charger
Fast Battery Charger
Camera & Display
Seat Belt Alarming Device
Handbrake Alarming Device
Cabin
Cold Storage Type



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