

25/30/35 BE-X

BE-X SERIES BATTERY FORKLIFT TRUCKS



Load Capacity
2500 – 3500 kg

Drive Motor Rating
48V – 10kW / 80V – 14KW

Lift Height
3000 – 6000 mm

HIGH ON QUALITY. LOW ON COST.

The new Hyundai BE-X Series Electric Forklifts

Introducing the new BE-X battery powered electric forklifts. Ranging from 2.5 - 3.5 tonnes, the new range offers the high productivity, comfort and safety you expect from a world-class brand like Hyundai, but at a low-cost price. These budget-friendly but reliable machines are also high on efficiency and low on noise.



HIGH ON PRODUCTIVITY

Productivity has been increased through optimised vehicle performance with the use of iron phosphate Li-ion batteries and IP54 drive and pump motors for longer life and improved cost-effectiveness.

Low Energy consumption

Energy efficiency has been improved by 8.2% compared with the 9F Series thanks to the use of drive and axle assemblies with less power loss whose drive and hydraulic performances are optimised for typical working conditions.

Easier Servicing

A single-drive axle system, IP 54 motors and 80V batteries allows the machines to be serviced outdoors for greater convenience. Driving noise has also been reduced by 6.5dB thanks to the use of low-noise axles.

Optimised working

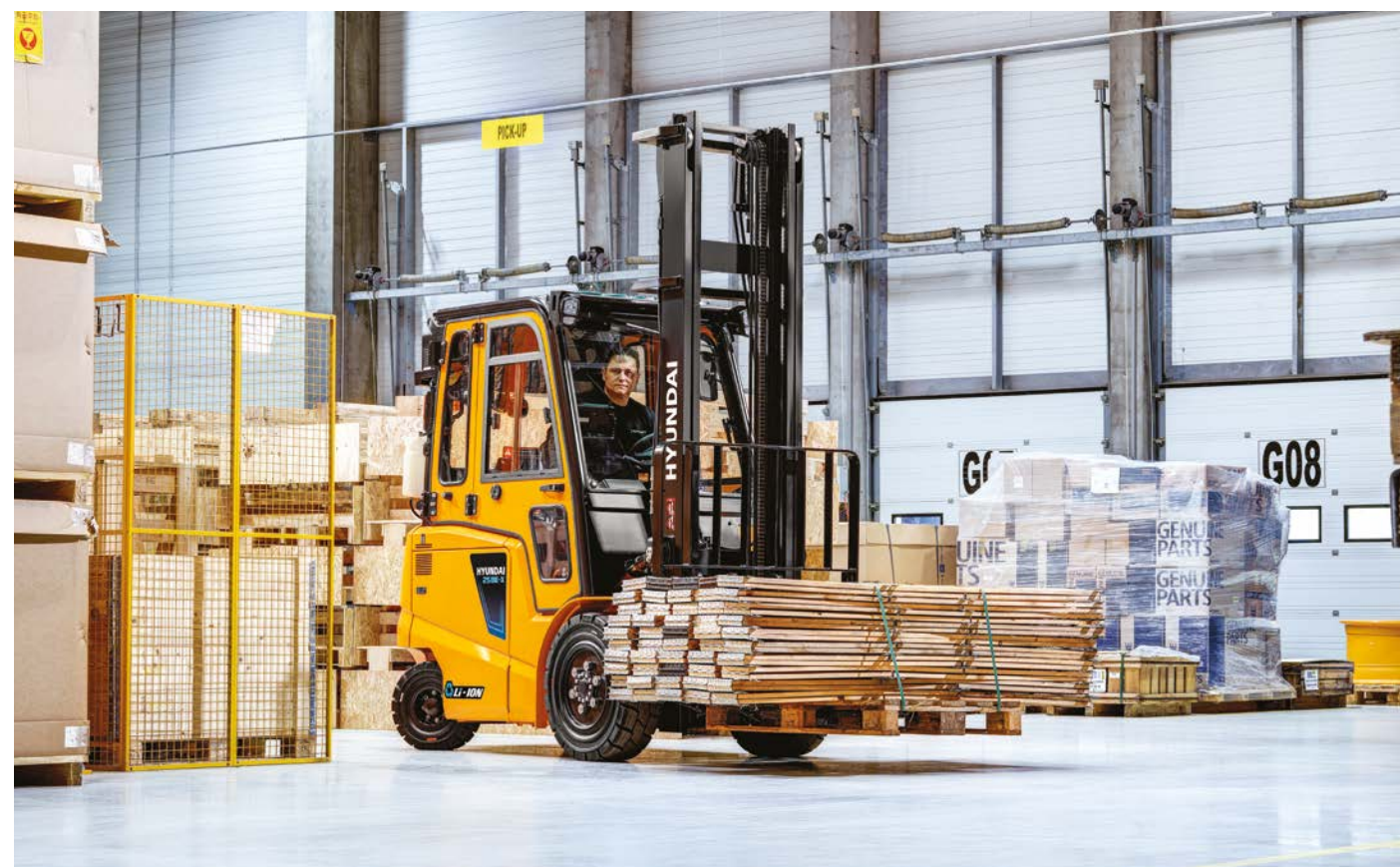
Operating has been made more efficient with the easy selection of driving and mast work speeds to match work conditions, with the use of up/down buttons in the cluster.

Low centre of gravity

A deep drop type frame allows the batteries to be placed between the front wheels and rear wheels to lower the body's centre of gravity, providing greater driving and lifting stability.

ZAPI Controller

For improved controller system reliability that meets EU safety regulations, two waterproof and dust-proof IP65 ZAPI controllers are installed.



Economical Li-ion battery

OPTION

Our quick charging Li-ion batteries ensure sound performance with vastly reduced charge times, allowing extended hours of continued operation on a single charge. They also last at least twice as long compared to traditional lead batteries.



LONG HOURS
1 CHARGE

HIGH ON COMFORT & EFFICIENCY

A comfortable operator is a productive operator. That's why we've increased the cab space and added numerous functions that allow the operator to work more efficiently and comfortably.



Redesigned cab

We've taken the space and optimised design of a sister model machine, B-X and used it for our BE-X machines for more convenient and efficient operation.

We've taken the representation of the human body, evaluated volunteer operators in various applications to identify the optimum driving position.

Hydraulic boosted-type steering wheel

The external diameter of the HPS-type steering wheel has been reduced by 20mm for extra convenience and the wheel column can be tilted 12.5 degrees forwards or backwards to suit the operator.

Easy access cab

To make cab access easier, the first and second steps have been lowered whilst the seat height has increased to improve visibility. The distance between the seat and head guard has also been increased by about 40mm, for enhanced comfort.



Multifunction digital cluster

The operator can clearly check operating information in real time on the multifunction digital cluster. Many additional functions are also embedded in the cluster for safe and convenient equipment management.



Simple MCV lever system

The frequently used MCV lever is conveniently placed to the right of the operator. This reduces movement and fatigue compared with the dashboard-fixed type.



HIGH ON SAFETY

Operator safety is and always will be a high priority for Hyundai Material Handling. The risk of accidents while working has been fundamentally eliminated using scientific vehicle body design and effective safety systems.

LED safety warning lights

Bright and long-life LED lights are fitted to the front, rear and direction indicators. A beacon lamp, blue spots and red zone lamps are optional to indicate movement for the benefit of surrounding workers.

Anti-Roll back system

This system prevents the forklift from rolling down a slope when the accelerator and brake pedal are not applied. It also offers improved ramp start-up abilities.



Front & rear cameras

The wireless camera system supplies the two-channel monitor with information to the front and rear. A front camera is installed on the lateral side of the fork, helping in the safe identification of the position of pallets during high-rack operation.



Speed limit control

A maximum travel speed can be set to meet the safety speed of the site through a multifunctional monitor. Even when maximum speed is limited, gradeability and lifting performance are maintained at top levels.

Travel speed limiter when driving with elevated load

OPTION

The travel speed is limited to 3km/h when the forks are lifted to a height of 500mm or are above the Free Lift height, to ensure the load doesn't fall off and the forklift doesn't get overturned.

Rear grip bar & horn

The rear grip with horn embedded allows the driver to keep a comfortable posture during reverse driving and operate the horn quickly in case of an emergency.

OPSS system

The OPSS restricts driving, lifting, and tilting when the operator leaves the driver's seat in order to prevent accidents.



LOW ON COST OF OWNERSHIP

BE-X Series electric forklifts have been designed to reduce maintenance and costs using innovative energy saving features and reliable, durable and quick replacement parts.



Quick battery replacement

A deep drop type battery can be easily removed and installed from the side of the forklift using a small forklift or electric transpallet with a minimum capacity of 1.5 tonne. There is no need for expensive equipment like a crane.

Convenient battery charging

Batteries can be charged by connecting a charger connector to a charging port, without the separation of battery cables connected to the frame. A safety sensor completely blocks any operation of the equipment while being connected to the charger.



Hydraulic motor cooling system

For the efficient cooling of the Hydraulic motor, the outdoor air inlet fan and indoor air outlet fan are separated using the left and right covers.

Safety warning

Issues relating to safety and performance, such as low brake oil level, battery discharge, and high temperature in the controller and motor will trigger the warning sound and lamp. Programming and adjustment can be performed through a Zapi Smart Console Programmer which is sold separately.

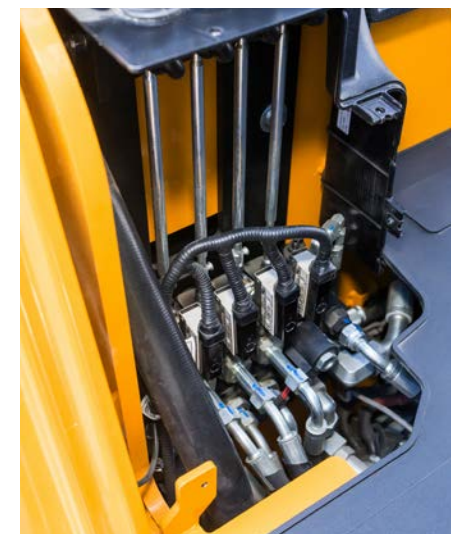


Waterproof and dustproof key switches

To increase the reliability of the electric/electronic system, an ignition key switch with a cap is used. Made by Honeywell, this prevents moisture and dust from getting in.

Sealed micro switches - MCV

Sealed micro switches are used in the hydraulic control lever system, keeping it protected from outdoor dust and water for greater reliability.



TAKE THE TOUR!



High on productivity

- Deep drop type vehicle structure-improved driving and work safety
- Achieves the best energy efficiency level in its vehicle class
- LiFePo4 Li-ion battery with excellent price-to-performance characteristics **OPTION**
- IP Class 54 driving and pump motors – Expanded service area
- Application of Dual Micom ZAPI Controller
- Enhanced energy efficiency by 8.2%
- Application of power selection button for drive and pump motors

High on comfort and efficiency

- Ergonomically redesigned operator room
- A new cluster with superior visibility that can be manipulated easily
- Hood fixation-type hydraulic control lever
- Optimum step height and width for convenient getting on/off
- A/C & heater with improved cooling and heating performance **OPTION**
- Noise in the driver's seat is reduced by 6.5 dB
- Two-channel wireless front/rear cameras **OPTION**

High on productivity

- Speed limit
- Speed limiting function when traveling with elevated load **OPTION**
- Operator Presence Sensing System (OPSS)
- Antiroll back system prevents the machine from rolling back after coming to a stop on an incline
- Safety warning lamp - Blue spots and red zones **OPTION**

High on comfort and efficiency

- A battery replacement system that doesn't require a crane structure
- Battery connector specialized for charging
- Controller with high reliability and self-diagnosis capability
- Sealed micro switches - MCV
- Hydraulic motor room cooling system without air vortex
- Long-lifetime LED lamps - Front/Rear work lamps and turn signals

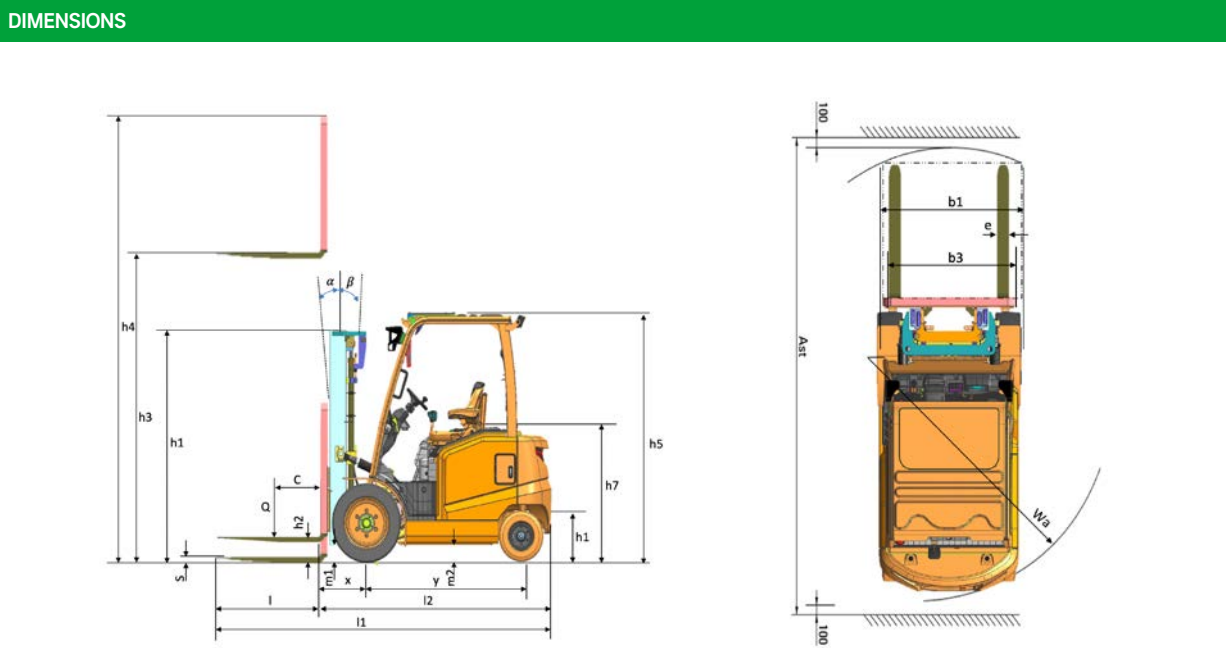
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SPECIFICATIONS

IDENTIFICATION						
	Frontwheel type (single / double)			Single	Single	Single
1.1	Manufacturer (abbreviation)				Hyundai	
1.2	Manufacturer's type designation			25BE-X	30BE-X	35BE-X
1.3	Drive : electric (battery or mains), diesel, petrol, LPG				Electric	
1.4	Operator type : hand, pedestrian, standing, seated, order-picker				Seated	
1.5	Rated capacity / rated load	(Q)	kg	2500	3000	3500
1.6	Load centre distance	(c)	mm	500	500	500
1.8	Load distance, centre of drive axle to fork	(x)	mm	473	473	473
1.9	Wheelbase	(y)	mm	1490	1680	1680
WEIGHTS						
2.1	Service weight		kg	4484	4947	5272
2.2	Axle loading, loaded front / rear		kg	6107 / 877	7020 / 927	7696 / 1076
2.3	Axle loading, unloaded front / rear		kg	1974 / 2510	2282 / 2665	2169 / 3103
TYRES / CHASSIS						
3.1	Tyres : superelastic, pneumatic, polyurethane			Superelastic	Superelastic	Superelastic
3.2	Tyre size, front		mm	28 x 9 - 15	28 x 9 - 15	28 x 9 - 15
3.3	Tyre size, rear		mm	18 x 7 - 8	18 x 7 - 8	200 / 50-10
3.5	Wheels, number front / rear (x = driven wheels)			2 x / 2	2 x / 2	2 x / 2
3.6	Tread, front	(b10)	mm	1005	1005	1005
3.7	Tread, rear	(b11)	mm	996	996	996
DIMENSIONS						
4.1	Tilt of mast / fork carriage forward / backward	(α / β)	degree	6 / 10	6 / 10	6 / 10
4.2	Height, mast lowered	(h1)	mm	2040	2040	2040
4.3	Free lift	(h2)	mm	150	150	150
4.4	Lift height	(h3)	mm	3005	3005	3005
4.5	Height, mast extended	(h4)	mm	4185	4185	4185
4.7	Height of overhead guard (cabin)	(h5)	mm	2175	2175	2175
4.8	Seat height relating to SIP / stand height	(h7)	mm	1200	1200	1200
4.12	Coupling height	(h10)	mm	480	480	480
4.19	Overall length	(l1)	mm	3410	3600	3650
4.20	Length to face of forks	(l2)	mm	2360	2502	2553
4.21	Overall width	(b1)	mm	1215	1215	1215
4.22	Fork dimensions DIN ISO 2331	(l / e / s)	mm	1050 x 100 x 45	1050 x 125 x 45	1050 x 125 x 45
4.23	Fork carriage ISO 2328, class / type A, B			2 / A	3 / A	3 / A
4.24	Fork carriage width	(b12)	mm	1102	1102	250 / 1060
4.31	Ground clearance below mast loaded	(m1)	mm	142	142	142
4.32	Ground clearance centre of wheelbase	(m2)	mm	160	160	160
4.34.1	Aisle width for pallets 1000 x 1200 crossways (l x w)	(Ast)	mm	3858	4060	4130
4.34.2	Aisle width for pallets 800 x 1200 crossways (w x l)	(Ast)	mm	4008	4210	4330
4.35	Turning radius	(Wa)	mm	2135	2337	2457
PERFORMANCE DATA						
5.1	Travel speed loaded / unloaded		km/h	14 / 15	14 / 15	14 / 15
5.2	Lift speed loaded / unloaded		mm/s	300 / 450	300 / 450	300 / 450
5.3	Lowering speed loaded / unloaded		mm/s	500 / 350	500 / 350	500 / 350
5.6	Max. drawbar pull loaded / unloaded		N	13328 / -	14210 / -	13720 / -
5.8	Max. gradeability loaded / unloaded		%	15 / -	15 / -	15 / -
ELECTRIC MOTOR						
6.1	Drive motor rating S2 60 min		kW	10	14	14
6.2	Lift motor rating at S3 15%		kW	14	16.5	16.5
6.4	Battery voltage, nominal capacity K5		V/Ah	48 / 600	80 / 500	80 / 500
6.5	Battery weight		kg	950	1295	1295
6.6	Energy consumption acc. to VDI cycle		kWh/h	6.9	8.8	-
	Battery compartment dimensions l / w / h		mm	984 x 466 x 744	984 x 660 x 744	984 x 660 x 744
DRIVE MECHANISM						
8.1	Type of drive control			AC	AC	AC
8.11	Service brake			Drum brake	Drum brake	Drum brake
ADDITIONAL DATA						
10.1	Operating pressure system / attachments		bar	195 / 160	195 / 160	195 / 160
10.2	Oil volume for attachments		l/min	40	40	40
10.7	Sound level at the driver's ear according to DIN 12053		dB(A)	66	66	66
AIR-CONDITIONING						
	Refrigerant type			HFC-134a	HFC-134a	HFC-134a
	Refrigerant quantity		kg	0.55	0.55	0.55
	Global warming potential (GWP) - equivalent to CO2 in metric tons		metric tons	0.787	0.787	0.787

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DIMENSIONS



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MAST SPECIFICATION

25BE-X MAST											
MAST TYPE		MAXIMUM FORK HEIGHT h3 (mm)	OVERALL HEIGHT h1 (Lowered) (mm)	FREE LIFT HEIGHT h2 (mm)			MAST TILT (deg)		LOAD CAPACITY without Side Shift (kg)	TRUCK WEIGHT (UNLOADED) (kg)	TRUCK WEIGHT (UNLOADED) (kg)
				With Load Backrest	Without Load Backrest	Without Load Backrest (3/4-SPOOL)	FWD	BWD			
2 Stage Limited Free Lift	V300	3005	2040	155	155	155	6	10	2500	2500	4484
	V330	3305	2190	155	155	155	6	10	2500	2460	4508
	V400	4005	2590	155	155	155	6	10	2460	2320	4580
	V450	4505	2890	155	155	155	6	6	2350	2230	4651
	V500	5005	3140	155	155	155	6	6	2260	2140	4693
2 Stage Full Free Lift	VF295	2955	2040	860	1314	1314	6	6	2500	2500	4526
	VF325	3255	2190	1010	1464	1464	6	6	2500	2450	4560
	VF345	3455	2290	1110	1564	1564	6	6	2500	2410	4583
	TF430	4305	2040	860	1314	1175	6	6	2370	2240	4671
3 Stage Full Free Lift	TF450	4505	2140	960	1414	1275	6	6	2330	2200	4692
	TF470	4705	2190	1010	1464	1325	6	6	2290	2170	4705
	TF500	5005	2290	1110	1564	1425	6	6	2240	2120	4727
	TF550	5505	2490	1310	1764	1780	6	6	2150	2030	4773
	TF600	6005	2690	1510	1964	1875	6	6	2050	1940	4865

V : 2 Stage wide visibility lift mast / VF : 2 Stage wide visibility full free lift mast / TF : Triplex full free lift mast

* : Standard

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MAST SPECIFICATION

30BE-X MAST

MAST TYPE		MAXIMUM FORK HEIGHT h3 (mm)	OVERALL HEIGHT h1 (Lowered) (mm)	FREE LIFT HEIGHT h2 (mm)			MAST TILT (deg)		LOAD CAPACITY without Side Shift (kg)	TRUCK WEIGHT (UNLOADED) (kg)	TRUCK WEIGHT (UNLOADED) (kg)
				With Load Backrest	Without Load Backrest	Without Load Backrest (3/4-SPOOL)	FWD	BWD			
2 Stage Limited Free Lift	V300	3005	2040	155	155	155	6	10	3000	3000	4947
	V330	3305	2190	155	155	155	6	10	3000	2970	4973
	V400	4005	2590	155	155	155	6	10	2980	2810	5049
	V450	4505	2890	155	155	155	6	6	2860	2700	5122
	V500	5005	3140	155	155	155	6	6	2750	2590	5167
2 Stage Full Free Lift	VF295	2955	2040	860	1314	1314	6	6	3000	3000	5048
	VF325	3255	2190	1010	1464	1464	6	6	3000	2990	5083
	VF345	3455	2290	1110	1564	1564	6	6	3000	2900	5119
3 Stage Full Free Lift	TF430	4305	2040	860	1314	1175	6	6	2890	2710	5146
	TF450	4505	2140	960	1414	1275	6	6	2840	2670	5169
	TF470	4705	2190	1010	1464	1325	6	6	2800	2630	5182
	TF500	5005	2290	1110	1564	1425	6	6	2740	2570	5204
	TF550	5505	2490	1310	1764	1780	6	6	2630	2470	5255
	TF600	6005	2690	1510	1964	1875	6	6	2520	2370	5349

V : 2 Stage wide visibility lift mast / VF : 2 Stage wide visibility full free lift mast / TF : Triplex full free lift mast

* : Standard

35BE-X MAST

MAST TYPE		MAXIMUM FORK HEIGHT h3 (mm)	OVERALL HEIGHT h1 (Lowered) (mm)	FREE LIFT HEIGHT h2 (mm)			MAST TILT (deg)		LOAD CAPACITY without Side Shift (kg)	TRUCK WEIGHT (UNLOADED) (kg)	TRUCK WEIGHT (UNLOADED) (kg)
				With Load Backrest	Without Load Backrest	Without Load Backrest (3/4-SPOOL)	FWD	BWD			
2 Stage Limited Free Lift	V300	3005	2040	155	155	155	6	10	3500	3500	5272
	V330	3305	2190	155	155	155	6	10	3500	3440	5298
	V400	4005	2590	155	155	155	6	10	3460	3250	5374
	V450	4505	2890	155	155	155	6	6	3320	3120	5447
	V500	5005	3140	155	155	155	6	6	3200	3010	5492
2 Stage Full Free Lift	VF295	2955	2040	860	1314	1314	6	6	3500	3480	5373
	VF325	3255	2190	1010	1464	1464	6	6	3500	3390	5408
	VF345	3455	2290	1110	1564	1564	6	6	3500	3340	5444
3 Stage Full Free Lift	TF430	4305	2040	860	1314	1175	6	6	3350	3140	5471
	TF450	4505	2140	960	1414	1275	6	6	3300	3090	5494
	TF470	4705	2190	1010	1464	1325	6	6	3250	3050	5507
	TF500	5005	2290	1110	1564	1425	6	6	3180	2980	5529
	TF550	5505	2490	1310	1764	1780	6	6	3060	2870	5580
	TF600	6005	2690	1510	1964	1875	6	6	2810	2690	5674

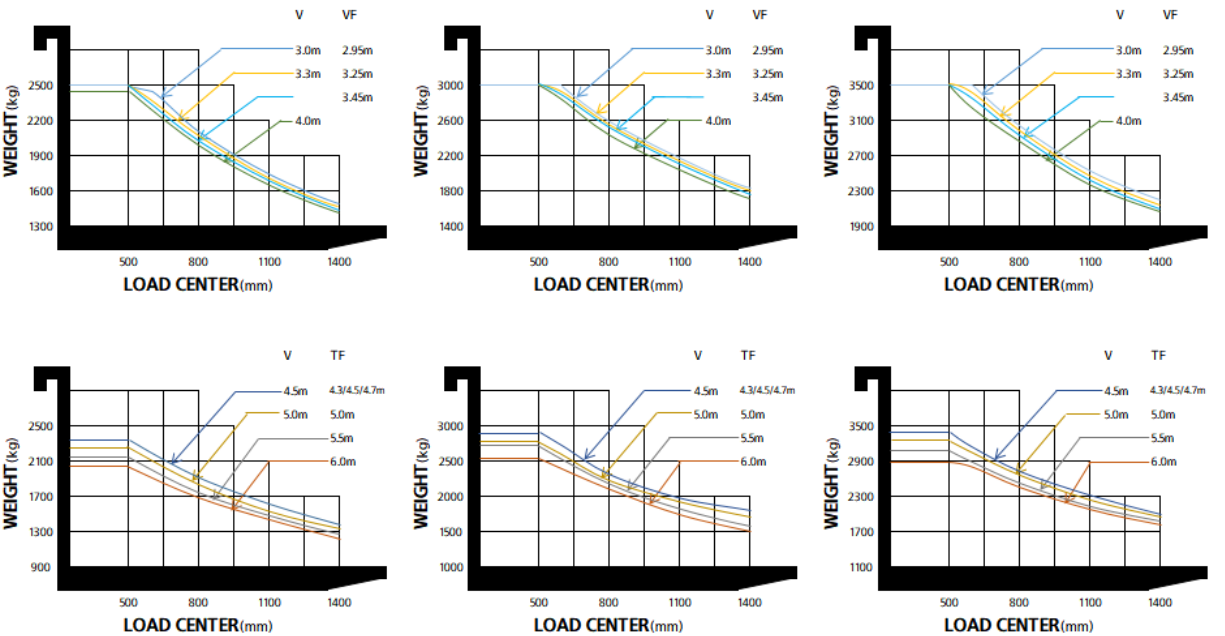
V : 2 Stage wide visibility lift mast / VF : 2 Stage wide visibility full free lift mast / TF : Triplex full free lift mast

* : Standard

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LOAD CAPACITY

25BE-X 30BE-X 35BE-X



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STANDARD/OPTIONAL EQUIPMENT

DESCRIPTION			25BE-X	30BE-X / 35BE-X
OPERATION	OHG / CABIN	Overhead guard	●	●
		Full cabin	□	□
		Partial cabin - top cover & front & rear window, including wipers	□	□
		Top cover	□	□
	CLIMATE	Airconditioning	□	□
		Heater	□	□
	SEAT	Grammer, orange belt, armrest, buckle sw	●	●
		Grammer, orange belt, armrest, buckle sw, heat	□	□
MAST & ATTACHMENT	MAST	V-Duplex - no free lift (V300)	●	●
		V-Duplex - no free lift - other heights	□	□
		VF-Duplex - free lift - 1 central cylinder	□	□
		TF-Triplex - free lift - 1 central cylinder	□	□
		Attachment piping for 3, 4 spool	□	□
	FORK	Standard: 1050 mm	●	●
		Other fork lengths: 900 mm ~1800 mm	□	□
	CARRIAGE / ATTACHMENT	Hook on type	●	●
		Integral side shift	□	□
		Integral side shift + fork positioner	□	□
		Side shift (hook on type)	□	□
		Backrest	□	□
HYDRAULICS	MCV	3 Spool MCV	●	●
		2 or 4 Spool MCV	□	□
	OIL	HYD oil - VG 46	●	●
		HYD oil - VG 32 - 68	□	□

DESCRIPTION			25BE-X	30BE-X / 35BE-X
TYRES		Pneumatic	□	□
		Solid	●	●
		Solid Non-marking	□	□
VISIBILITY	LAMP	Front LED	●	●
		Front & rear LED	□	□
	CAMERA	Rear camera (separate monitor)	□	□
		Front & rear camera (separate monitor)	□	□
	MIRROR	Panorama mirror & back mirror LH/RH	●	●
CONVENIENCE		Load sensor	□	□
SAFETY		Seatbelt interlock	●	●
		LED beacon lamp	□	□
		Safety lamp - red zone	□	□
		Safety lamp - rear blue	□	□
		Rear grip with horn button	□	□
BATTERY		Li-ion battery 83.2V / 450Ah	-	□
		Li-ion battery 83.2V / 450Ah Heated	-	□
		Lead-acid battery 80V / 500~550Ah	-	□
		Battery rollerbed trolley	□	□
		Li-ion battery 51.2V / 450Ah	□	-
		Li-ion battery 51.2V / 450Ah Heated	□	-
		Lead-acid battery 48V / 600~660Ah	□	-
CHARGER		Li-ion charger 100~200A 3ph/380V	□	□
		Lead-acid charger 60~80A 3ph/380V	-	□
		Lead-acid charger 60~100A 3ph/380V	□	-

● Standard □ Optional



Contact your Hyundai Material Handling dealer:
hyundai-mh.eu/en/dealer-locator

In Europe, Hyundai Material Handling (HD Hyundai XiteSolution) is operated and managed by:

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