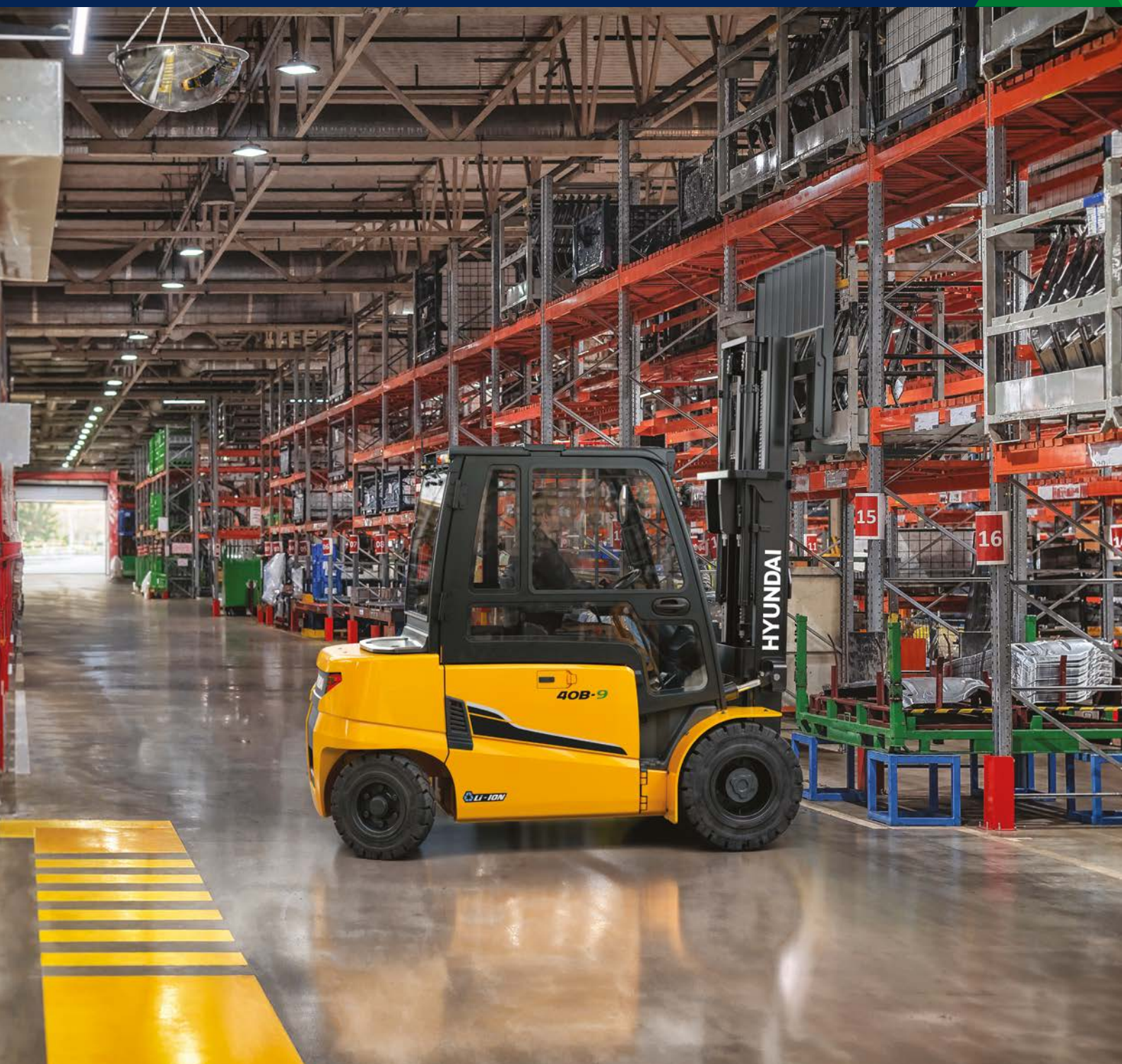


40/45/50B-9

B-9 SERIES BATTERY FORKLIFT TRUCKS



Load Capacity
4000 – 5000 kg

Drive Motor Rating
80 V • 2x10 kW

Lift Height
2920 – 6030 mm



REDEFINED POWER. PRECISE CONTROL. MORE COMFORT.

The New Hyundai 40/45/50B-9 Electric Forklifts - Powered by Proven AC Technology

Engineered with cutting-edge AC technology, the new Hyundai 40/45/50B-9 electric forklifts deliver reliable performance and enhanced operator comfort. With a low noise hydraulic system, reduced energy consumption, smaller steering wheel, smoother acceleration and a tighter turning radius, they offer intuitive control, greater productivity and lower total cost of ownership.

► NEW 5 inch LCD colour cluster

High-performance 5 inch display with powerful CPU provides clear, real-time visibility of essential vehicle data and warning alerts – even in bright sunlight.



Key features

Efficiency & performance

- Reduced energy consumption (~4%)*
- Dual drive system
- Excellent gradeability and high travel speed
- Reduced turning radius (~50 mm)*
- High quality Li-ion battery* **OPTION**
- Fingertip control lever **OPTION**
- Automatic fork levelling system **OPTION**
- Integrated directional and horn controls on lift lever
- Adjustable performance modes: High, Normal, Economy

Optimised ergonomics

- Low noise hydraulic system (~14dBA)*
- Spacious and ergonomic operating area
- Newly designed 5 inch LCD colour cluster*
- Ergonomical pedal layout with adjustable accelerator response
- Adjustable tilting steering column
- Reduced steering wheel diameter*
- Real time steering wheel position displayed on the cluster screen

Advanced safety

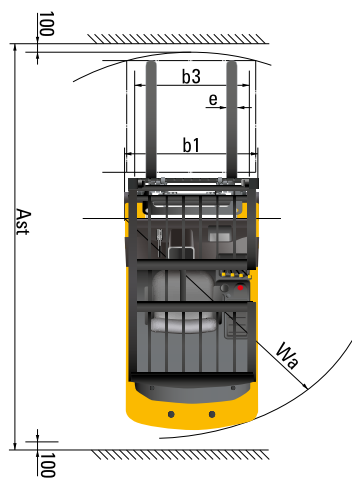
- Optimised visibility
- Pedestrian detection system* **OPTION**
- Adjustable maximum travel speed limitation
- Curve control
- Anti roll back system
- Safety LED lighting. Blue Spot and Red Zone lights **OPTION**

*New on these B-9 Series models

SPECIFICATIONS

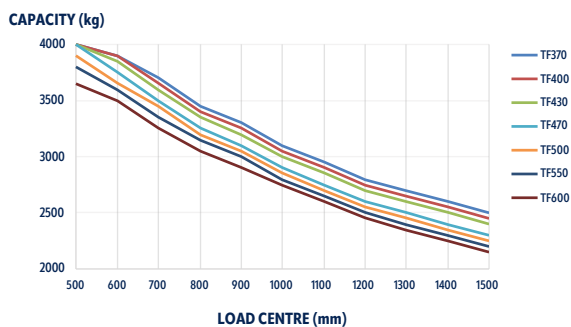
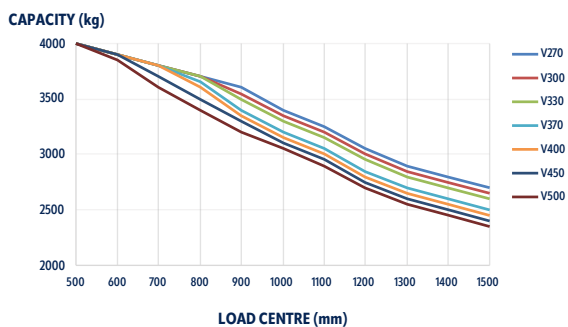
IDENTIFICATION									
	Front wheel type (single / double)			Single	Double	Single	Double	Single	Double
1.1	Manufacturer (abbreviation)			Hyundai					
1.2	Manufacturer's type designation			40B-9 facelift 2026		45B-9 facelift 2026		50B-9 facelift 2026	
1.3	Drive: electric (battery or mains), diesel, petrol, LPG			Electric					
1.4	Operator type: hand, pedestrian, standing, seated, order-picker			Seated					
1.5	Rated capacity / rated load	(Q)	kg	4000		4500		4990	
1.6	Load centre distance	(c)	mm	500					
1.8	Load distance, centre of drive axle to fork	(x)	mm	535				540	
1.10	Wheelbase	(y)	mm	2025					
WEIGHTS									
2.1	Service weight		kg	6855	7126	7345	7560	7805	7950
2.2	Axle loading, loaded front / rear		kg	9548 / 1307	9891 / 1235	10456 / 1389	10644 / 1416	11332 / 1463	11466 / 1474
2.3	Axle loading, unloaded front / rear		kg	3504 / 3351	3847 / 3279	3656 / 3689	3844 / 3716	3779 / 4026	3913 / 4037
TYRES / CHASSIS									
3.1	Tyres: superelastic, pneumatic, polyurethane			SE, P					
3.2	Tyre size, front			250 - 15	7.00 - 15	250 - 15	7.00 - 15	28 x 12.5 - 15	7.00 - 15
3.3	Tyre size, rear			23 x 9 - 10					
3.5	Wheels, number front / rear (x = driven wheels)			2x / 2	4x / 2	2x / 2	4x / 2	2x / 2	4x / 2
3.6	Tread, front	(b10)	mm	1141	1257	1141	1257	1114	1257
3.7	Tread, rear	(b11)	mm	1098					
DIMENSIONS									
4.1	Tilt of mast / fork carriage forward / backward	(α / β)	degree	6 / 10					
4.2	Height, mast lowered	(h1)	mm	2232	2236	2231	2235	2214	2235
4.3	Free lift	(h2)	mm	120					
4.4	Lift height	(h3)	mm	3020				2920	
4.5	Height, mast extended	(h4)	mm	4224				4135	
4.7	Height of overhead guard (cabin)	(h5)	mm	2325 (2371)	2335 (2381)	2325 (2371)	2335 (2381)	2325 (2371)	2335 (2381)
4.8	Seat height relating to SIP / stand height	(h7)	mm	1290	1299	1290	1299	1272	1299
4.12	Coupling height	(h10)	mm	460					
4.19	Overall length	(l1)	mm	4065				4260	
4.20	Length to face of forks	(l2)	mm	2995				3040	
4.21	Overall width	(b1)	mm	1376	1676	1376	1676	1413	1676
4.22	Fork dimensions DIN ISO 2331	(l x e x s)	mm	1070 x 122 x 50		1070 x 150 x 50		1220 x 150 x 50	
4.23	Fork carriage ISO 2328, class / type A, B			3A					
4.24	Fork carriage width	(b12)	mm	1376	1676	1376	1676	1376	1676
4.31	Ground clearance below mast loaded	(m1)	mm	166	170	166	169	149	169
4.32	Ground clearance centre of wheelbase	(m2)	mm	150	167	150	167	155	167
4.34.1	Aisle width for pallets 1000 x 1200 crossways (l x w)	(Ast)	mm	4355				4396	
4.34.2	Aisle width for pallets 800 x 1200 crossways (w x l)	(Ast)	mm	4555				4595	
4.35	Turning radius	(Wa)	mm	2620				2655	
PERFORMANCE DATA									
5.1	Travel speed loaded / unloaded		km/h	18 / 18					
5.2	Lift speed loaded / unloaded		mm/s	360 / 520		330 / 500		320 / 450	
5.3	Lowering speed loaded / unloaded		mm/s	500 / 450				500 / 420	
5.6	Max. drawbar pull loaded / unloaded		N	28185 / 29075		28662 / 29003		28558 / 28469	
5.8	Max. gradeability loaded / unloaded		%	23 / 25		21 / 23		19 / 22	
ELECTRIC MOTOR									
6.1	Drive motor rating S2 60 min		kW	10.0 x 2					
6.2	Lift motor rating at S3 15%		kW	28					
6.4	Battery voltage, nominal capacity K5		V/Ah	80 / 700					
6.5	Battery weight		kg	2200					
6.6	Energy consumption acc. to VDI cycle		kWh/h	11.5		12.7		13.5	
	Battery compartment dimensions l / w / h		mm	1030 / 1004 / 800					
DRIVE MECHANISM									
8.1	Type of drive control			AC					
8.11	Service brake			Wet Disc Brake					
ADDITIONAL DATA									
10.1	Operating pressure system / attachments		bar	210 / 150					
10.2	Oil volume for attachments		l/min	45					
10.7	Sound level at the driver's ear according to DIN 12053		dB(A)	71				70.5	
10.8	Towing coupling, type DIN 15170			Pin					

DIMENSIONS

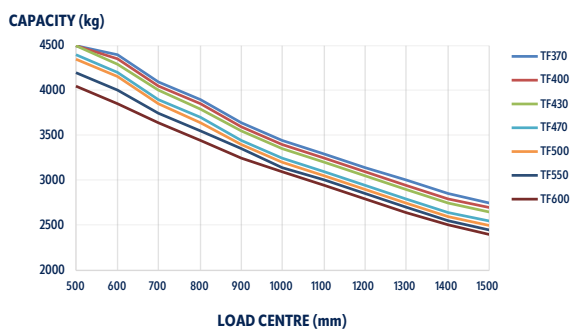
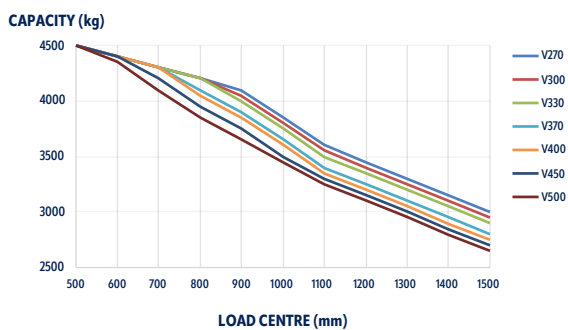


LOAD CAPACITY

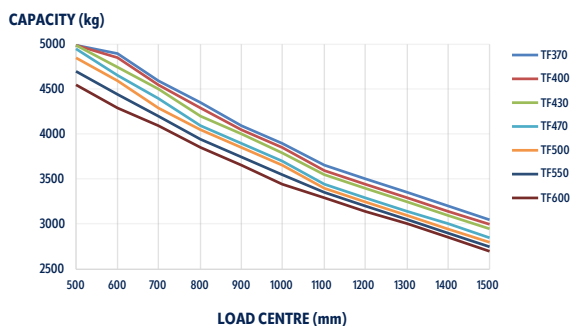
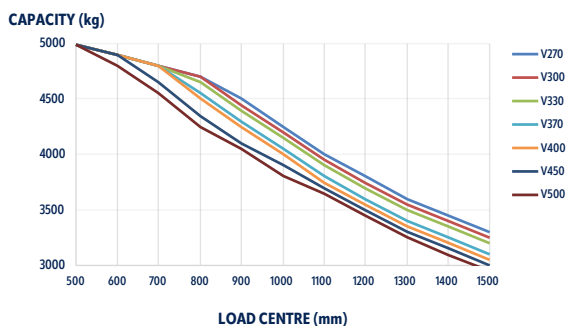
40B-9



45B-9



50B-9



MAST SPECIFICATION

40B-9

Mast Type		Maximum fork height h3	Maximum mast height h4		Overall height (lowered) h1	Free lift height h2		Tilt angle fwd / bwd	Load capacity @ LC 500mm (kg)				Truck weight (unloaded) standard configuration** (kg)	
			With backrest	Without backrest		Single tyre	With backrest		Without backrest	Without side shift		With side shift		
		mm	mm	mm	mm	mm	mm	mm	(°)	Single tyre	Double tyre	Single tyre	Double tyre	Single tyre
V-Duplex - no free lift	V300	3020	4224	3873	2225	120		6° / 10°	4000	4000	4000	4000	6855	7126
	V330	3320	4524	4173	2375			6° / 10°	4000	4000	4000	4000	6884	7152
	V400	4020	5224	4873	2835			6° / 10°	4000	4000	3900	3900	6960	7153
	V450	4520	5724	5373	3085			6° / 6°	4000	4000	3650	3750	7002	7270
	V500	5020	6224	5873	3335			6° / 6°	4000	4000	3550	3700	7045	7312
TF-Triplex - free lift - 1 central cylinder	TF400	4030	5234	4915	2125	912	1239	6° / 6°	4000	4000	3700	3800	7160	7416
	TF430	4330	5534	5215	2225	1012	1339	6° / 6°	4000	4000	3650	3750	7185	7441
	TF450	4510	5714	5395	2285	1072	1399	6° / 6°	4000	4000	3600	3650	7201	7457
	TF470	4720	5924	5605	2375	1162	1489	6° / 6°	3950	4000	3550	3600	7224	7480
	TF500	5020	6224	5905	2475	1262	1589	6° / 6°	3900	3900	3500	3550	7250	7506
	TF550	5520	6724	6405	2655	1442	1769	6° / 6°	3750	3800	3400	3450	7301	7557
	TF600	6030	7234	6915	2835	1622	1949	6° / 6°	3650	3650	3300	3300	7341	7596

45B-9

Mast Type		Maximum fork height h3	Maximum mast height h4		Overall height (lowered) h1	Free lift height h2		Tilt angle fwd / bwd	Load capacity @ LC 500mm (kg)				Truck weight (unloaded) standard configuration** (kg)	
			With backrest	Without backrest		Single tyre	With backrest		Without backrest	Without side shift		With side shift		
		mm	mm	mm	mm	mm	mm	mm	(°)	Single tyre	Double tyre	Single tyre	Double tyre	Single tyre
V-Duplex - no free lift	V300	3020	4224	3873	2225	120		6° / 10°	4500	4500	4500	4500	7345	7560
	V330	3320	4524	4173	2375			6° / 10°	4500	4500	4500	4500	7370	7586
	V370	3720	4924	4573	2625			6° / 10°	4500	4500	4400	4450	7411	7627
	V400	4020	5224	4873	2835			6° / 10°	4500	4500	4300	4350	7447	7662
	V450	4520	5724	5373	3085			6° / 6°	4500	4500	4150	4200	7489	7704
	V500	5020	6224	5873	3335			6° / 6°	4500	4500	4100	4150	7531	7748
TF-Triplex - free lift - 1 central cylinder	TF400	4030	5234	4915	2125	912	1239	6° / 6°	4500	4500	4150	4200	7564	7820
	TF430	4330	5534	5215	2225	1012	1339	6° / 6°	4500	4500	4100	4150	7590	7846
	TF450	4510	5714	5395	2285	1072	1399	6° / 6°	4450	4450	4050	4050	7605	7861
	TF470	4720	5924	5605	2375	1162	1489	6° / 6°	4400	4400	4000	4000	7629	7885
	TF500	5020	6224	5905	2475	1262	1589	6° / 6°	4300	4350	3900	3900	7655	7911
	TF550	5520	6724	6405	2655	1442	1769	6° / 6°	4200	4200	3800	3850	7707	7963
	TF600	6030	7234	6915	2835	1622	1949	6° / 6°	4050	4050	3650	3700	7746	8002

50B-9

Mast Type		Maximum fork height h3	Maximum mast height h4		Overall height (lowered) h1	Free lift height h2		Tilt angle fwd / bwd	Load capacity @ LC 500mm (kg)				Truck weight (unloaded) standard configuration** (kg)	
			With backrest	Without backrest		Single tyre	With backrest		Without backrest	Without side shift		With side shift		
		mm	mm	mm	mm	mm	mm	(°)	Single tyre	Double tyre	Single tyre	Double tyre	Single tyre	Double tyre
V-Duplex - no free lift	V290	2920	4146.5	3893	2230	120	6° / 10°	4990	4990	4990	4990	7801	7950	
	V320	3220	4446.5	4193	2380		6° / 10°	4990	4990	4990	4990	7831	7975	
	V360	3620	4846.5	4593	2630		6° / 10°	4990	4990	4990	4990	7873	8016	
	V390	3920	5146.5	4893	2840		6° / 10°	4990	4990	4990	4990	7908	8052	
	V440	4420	5646.5	5393	3090		6° / 6°	4990	4990	4900	4900	7950	8094	
	V490	4920	6146.5	5893	3340		6° / 6°	4990	4990	4800	4850	7993	8137	
TF-Triplex - free lift - 1 central cylinder	TF390	3962	5176.5	4967	2130	907	1174	6° / 6°	4990	4990	4900	4900	7968	8164
	TF420	4262	5476.5	5267	2230	1007	1274	6° / 6°	4990	4990	4800	4800	7994	8190
	TF460	4652	5866.5	5657	2380	1157	1424	6° / 6°	4900	4950	4700	4650	8033	8229
	TF490	4952	6166.5	5957	2480	1257	1524	6° / 6°	4800	4850	4600	4500	8059	8255
	TF540	5452	6666.5	6457	2660	1437	1704	6° / 6°	4700	4700	4400	4400	8110	8306
	TF590	5962	7176.5	6967	2840	1617	1884	6° / 6°	4550	4550	4250	4250	8150	8346

** Standard configuration: No options, without attachment, forks only, without hydraulic piping

STANDARD/OPTIONAL EQUIPMENT

DESCRIPTION			40B-9	45B-9	50B-9
MAST & ATTACHMENTS	MAST	V - duplex - no free lift - (3020 ~ 5020 mm)	□	□	-
		V - duplex - no free lift - (2920 ~ 4920 mm)	-	-	□
		TF - triplex - free lift - 1 central cylinder (3730 ~ 6030 mm)	□	□	-
		TF - triplex - free lift - 1 central cylinder (3962 ~ 5962 mm)	-	-	□
		Attachment piping for 3, 4 spool	□	□	□
	CARRIAGE WIDTH	Standard - 1300mm	●	●	●
		Wide - 1600mm	□	□	□
	CARRIAGE CLASS	Fork carriage FEM III	●	●	●
		Fork carriage FEM IV	-	□	□
	LOAD CENTRE	Load centre 500mm	●	●	●
	ATTACHMENT	Hook-on side shift	□	□	□
		Hook-on side shift + fork positioner (simultaneous)	□	□	□
		Hook-on fork positioner (simultaneous)	□	□	□
		Hook-on fork positioner (independent)	□	□	□
	FORKS	Standard: 1070 mm	●	●	●
		Other forks length: 1220 ~ 2400 mm	□	□	□
HYDRAULICS	MCV	3 spool control valve	●	●	●
		4 spool control valve	□	□	□
	LEVER	Manual	●	●	●
		Fingertip	□	□	□
	OIL	Hydraulic oil VG46	●	●	●
		Hydraulic oil VG15 - VG68	□	□	□
	INTERLOCK	Clamp interlock	□	□	□
OPERATION	CABIN	Overhead guard 2320mm	●	●	●
		Low overhead guard 2230mm	□	□	□
		Single-panel door cabin	□	□	□
		Split door cabin	□	□	□
		Top, front, rear window + wipers	□	□	□
	CLIMATE	Heater	□	□	□
	SEAT	Grammer - vinyl	●	●	●
		Grammer - fabric	□	□	□
		Armrest L, R	□	□	□
		Heated	□	□	□
		High backrest	□	□	□

DESCRIPTION			40B-9	45B-9	50B-9
VISIBILITY	MIRROR	Panoramic mirror	●	●	●
		LH + RH mirror	□	□	□
	LIGHTS	Front worklight (LED)	●	●	●
		Tail lights	●	●	●
		Orange beacon light	□	□	□
		Rear worklight (LED)	□	□	□
		Licence plate lamp	□	□	□
		Blue spot	□	□	□
SAFETY		Red zone	□	□	□
		Back-up alarm buzzer	●	●	●
		High mast travel speed reduction	□	□	□
		Pedestrian detection system (rear & front)	□	□	□
CONVENIENCE		Battery master switch	●	●	●
		12V charger plug	●	●	●
		Auto tilt	□	□	□
		Hi MATE basic	□	□	□
		Hi MATE premium (add-on)	□	□	□
		Forward / reverse switch on lift lever	□	□	□
		Load indicator	□	□	□
		Radio + USB	□	□	□
		Li-ion 80 V / 690Ah	□	□	□
		Lead-acid 80V / 840 ~ 930Ah	□	□	□
CHARGER		Li-ion 24kW / 80V - 3ph / 400V / 59A	□	□	●
		Lead-acid HF 10.4kW / 80V - 3ph / 400V / 20A	□	□	□
		Lead-acid HF 6.4kW / 80V - 3ph / 400V / 12A	□	□	□
TYRES		Single front tyres	●	●	●
		Double front tyres	□	□	□
		Pneumatic	●	●	●
		Solid	□	□	□
		Solid non-marking	□	□	□
OTHERS	FRAME	Mudguard mounting holes	●	●	●
		Side battery removal	□	□	□
		Under cover	□	□	□

● Standard □ Optional - Not available



Scan to find out more about this product.

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