



Your satisfaction is our priority! Compact forklift with proven AC technology Hyundai introduces a new line of 9-series battery forklift trucks. The newly designed sit-on reach trucks provide every operator comfortable driving, increased productivity and easy maintenance.

Performance & Efficiency

- AC traction & Pump motor
- AC controller : ZAPI
- Electromagnetic brake
- Vehicle performance optimized for working condition (H, N, E & Turtle mode)

Safety

- Curve control system
- Automatic center position at starting
- Anti roll back
- Steering angle sensing system

Convenience

- 5.6 inch LCD color monitor
- Auto tilt leveling system (OPT)
- Load weight indicator (OPT)
- Fork camera & monitor (OPT)
- Fingertip control (STD) & Joy stick control (OPT)

Maintenance

- Password starting system
- UL & CE certification DC-DC convertor
- Wide opening & Rotating hood
- Self-diagnosis system



Minimum Turning Radius

Compact design suitable for narrow aisle operation guarantees work efficiency and maximum space utilization.



Versatile Reach Stroke

Multi-roller reach assembly provides for a smooth, controlled and safe load handling system, extended reach allows unsurpassed versatility.





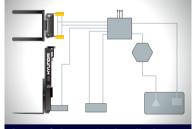
Drive motor & Pump motor

Efficient AC motor guarantees reliability and a optimized motor design provides for low noise levels. Temperature sensor ensure long motor life.



Electro magnetic brake

Increased brake torque and brake stability by electromagnetic load wheel



State of the art Hydraulic System

system reacts quickly during operation and the low noise control valve increases both efficiency and durability.



8KHZ(nigh frequency) ZAPI controller ensures optimal performance with less energy. Also, it protects the system from overheating and abnormal

Excellent Lift speed & Travel speed

The combination of the ZAPI AC controller, drive moter, and pump motor maximizes the work efficiency in logistics.

Lift speed (Loaded)

Travel speed (Unloaded)



370mm/sec



16BRJ-9

370mm/sec



20BRJ-9

300mm/sec





300mm/sec





Function to increase work efficiency

1 Vehicle performance optimized for working condition: This function optimizes the performance of vehicle for the purpose of work, such as speed of operation, maximum working time and operator's proficiency.

- H (High) mode N (Normal) mode E (Economic) mode

2 Tutle mode: When selecting the turtle mode while working in narrow and congested workplace, the travel speed is reduced at a preset speed.



Comfortable Operator Environment

A practically designed full suspension seat is fully adjustable for optimum operating position, reducing operating fatigue.

*Fabric seat (STD), PVC seat (optional)





The forward/reverse switch provides the operator with precise and smooth directional control. And responsive fingertips with less energy offer productivity improvement and safety. So the driver can feel less fatigue.



Comfortable suspension seat

An attractive and adjustable seat, based on a human engineering design, provides great comfort. Also, the angle of the armrest can be adjusted to reduce the fatigue of the driver.

- Grammer Seat
- Adjustable suspension stiffness based
- on the driver's weight (45~170kg)
- ELR type seat belt standard
- Heater and Backrest extension (OPT)



Smoother breaking is assured by the balanced design of the pedal and maintenance costs are lowered as the cover is easily replaceable.

Advanced LCD Monitor

The LCD color monitor with 3.5 inch graphic smart display allows the operator to easily and efficiently control the machine. The monitor provides information about speed & accelerator level, steer angle & travel direction, battery discharge indicator, hour meter & working mode. The operator can select various performance modes to meet all working conditions. Multilanguage (maximum 12) is available.





When lifting a load, a change in hydraulic pressure of the lift line is converted to a measurement of weight displayed in real time, and a warning is given at the time of overload.

Auto tilt leveling (OPT)

Mounting the angle sensor on the back side of carriage enable operator to easily operate the vehicle by maintaining a level of the fork and ground.

Height indicator (OPT)

Mounting the height indicator on the side of mast will increase safety and convenince by displaying the height of fork on the LCD monitor in real time.



Excellent visibility for safe operation

Optimized lift cylinder arrangement provides operator with wider visibility.





Non slip floor mat

A heavy, vibration dampening, non-slip floor mat reduces operator fatigue and allows for increased productivity.



The safety overhead guard meets ISO 6055 and ANSI regulations and protects the operator during hazardous work.



A large and soft cushion pad is positioned for operator's safety and comfort.

Safety features

The adoption of a high-sensitivity sensor and advanced safety system can prevent the safety accidents.



When the forks are being lowered, a down-control valve maintains the controlled speed. The down-safety valve prevents forks from dropping down in case of sudden damage of hydraulic line.



Automatic center position at starting

When the key ON, prox switch detects the position of drive wheel, and the wheel turns to the center position



Curve control

Curve control limits travel speed based on turning radius for a smooth, precise turning operation for the driver.

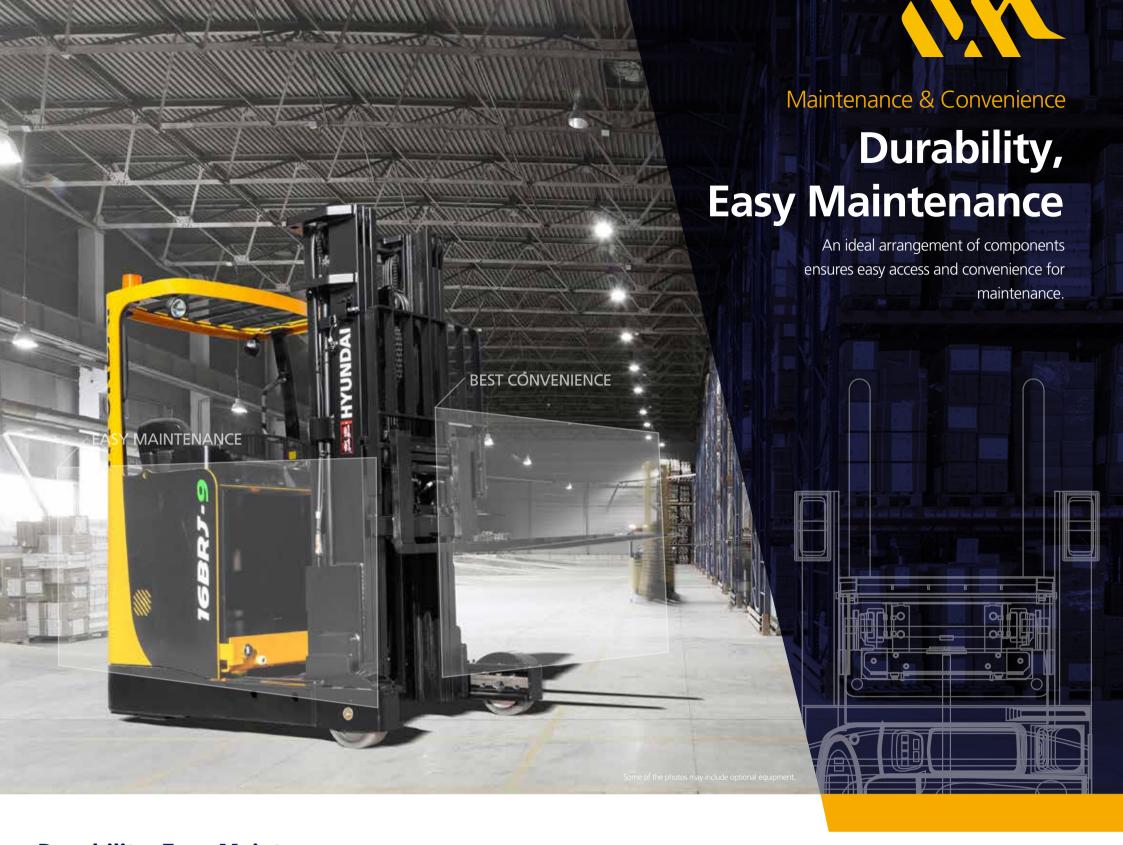


Anti roll back system

Anti Roll-back system offers protection against the machine rolling back on a ramp in combination with exceptional ramp start capabilities.



The symbol of the cluster shows the angle of the steering wheel. So the operator can easily predict the direction



Durability, Easy Maintenance

An ideal arrangement of component parts ensures easy access and convenience for maintenance.





DC-DC converter satisfied with UL & CE prevents from short circuit overload and reverse polarity.



The rotating hood with hinges can be opened up to 105 degrees. So the operator can check and repair the driving device located underneath the



By using the reach out function of the reach cylinder, the battery can be removed, checked, and exchanged easily.



The self-diagnosis function of the controller allows operator to check the fault diagnosis and errors. Also, IP65 controller prevents the entry of water and dust completely.



The centralized fuses ensure easy inspection and replacement.



The battery disconnect lever with large handle helps separate the battery connector from the vehicle.



In case of an emergency, the emergency switch is installed to block the battery power supplied to the vehicle to prevent damage and safety accidents.



A suction filter is installed inside the hydraulic tank, which prevents the damages of hydraulic pump and MCV



and protected from theft by setting the password.

New 9 Series Mast Specification

14BRJ-	14BRJ-9																		
		Maximum Fork		Maximum Fork Overall H		erall Height Overall height (Lifted)					Free Lift Height						Tilt Angle		WEIGHT
Mast 7	Mast Type		Height		(Lowered)		With Load Backrest		Without Load Backrest		With Load Backrest		Without Load Backrest		Without Load Backrest (3/4-SPOOL)		Bwd	(UNLC	DADED)
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	deg		lb	kg
	TF430	170.9	4,340	80.0	2,033	211,4	5,370	190.8	4,846	38.5	979	56.0	1,422	40.0	1,017	2	5	6,786	3,078
	TF470	186.6	4,740	85.9	2,183	227.2	5,770	206.5	5,246	44.4	1,129	61.9	1,572	45.9	1,167	2	5	6,878	3,120
	*TF530	208.9	5,306	93.4	2,372	249.4	6,336	228.8	5,812	51.9	1,318	69.3	1,761	53.4	1,357	2	5	6,980	3,166
	TF550	218.1	5,540	97.8	2,483	258.7	6,570	238.0	6,046	56.3	1,429	73.7	1,872	59.7	1,517	2	5	7,068	3,206
	TF600	237.8	6,040	105.6	2,683	278.3	7,070	257.7	6,546	64.1	1,629	81.6	2,072	67.6	1,717	2	5	7,196	3,264
	TF650	257.5	6,540	113.5	2,883	298.0	7,570	277.4	7,046	72.0	1,829	89.4	2,272	74.7	1,897	2	5	7,606	3,450
3-STAGE FULL FREE	TF700	275.8	7,006	119.6	3,038	316.4	8,036	295.7	7,512	78.1	1,984	95.5	2,427	78.2	1,987	2	5	7,670	3,479
LIFT	TF750	295.5	7,506	123.2	3,130	336.1	8,536	315.4	8,012	81.7	2,076	99.2	2,519	83.3	2,115	2	5	7,727	3,505
	TF800	315.2	8,006	131.1	3,330	355.7	9,036	335.1	8,512	89.6	2,276	107.0	2,719	91.1	2,315	2	5	7,864	3,567
	TF850	334.9	8,506	137.7	3,497	375.4	9,536	354.8	9,012	96.2	2,443	113.6	2,886	97.8	2,483	2	5	8,060	3,656
	TF900	354.6	9,006	144.3	3,664	395.1	10,036	374.5	9,512	102.8	2,610	120.2	3,053	104.4	2,651	2	5	8,172	3,707
	TF950	374.3	9,506	150.8	3,831	414.8	10,536	394.2	10,012	109.3	2,777	126.8	3,220	111.0	2,819	2	5	8,285	3,758
	TF1000	393.9	10,006	158.7	4,031	434.5	11,036	413.9	10,512	117.2	2,977	134.6	3,420	118.9	3,019	2	5	8,474	3,844
	TF1050	413.6	10,506	165.3	4,198	454.2	11,536	433.5	11,012	123.8	3,144	141.2	3,587	125.5	3,187	2	5	8,587	3,895

※∶Standard

16BRJ-	-9																		V
		Maximum Fork		Maximum Fork Overall Height		Overall height (Lifted)				Free Lift Height						Tilt Angle		TRUCK WEIGHT	
Mast 1	Mast Type		Height		(Lowered)		With Load Backrest		Without Load Backrest		With Load Backrest		ad Backrest	Without Load Bad	thout Load Backrest (3/4-SPOOL)		Bwd	(UNLC	ADED)
		in mm		in mm		in mm		in mm		in mm		in mm		in mm		d	eg	lb	kg
	TF430	170.9	4,340	80.0	2,033	211.4	5,370	190.8	4,846	38.5	979	56.0	1,422	40.0	1,017	2	5	6,991	3,171
	TF470	186.6	4,740	85.9	2,183	227.2	5,770	206.5	5,246	44.4	1,129	61.9	1,572	45.9	1,167	2	5	7,083	3,213
	*TF530	208.9	5,306	93.4	2,372	249.4	6,336	228.8	5,812	51.9	1,318	69.3	1,761	53.4	1,357	2	5	7,185	3,259
	TF550	218.1	5,540	97.8	2,483	258.7	6,570	238.0	6,046	56.3	1,429	73.7	1,872	59.7	1,517	2	5	7,273	3,299
	TF600	237.8	6,040	105.6	2,683	278.3	7,070	257.7	6,546	64.1	1,629	81.6	2,072	67.6	1,717	2	5	7,401	3,357
	TF650	257.5	6,540	113.5	2,883	298.0	7,570	277.4	7,046	72.0	1,829	89.4	2,272	74.7	1,897	2	5	7,811	3,543
3-STAGE	TF700	275.8	7,006	119.6	3,038	316.4	8,036	295.7	7,512	78.1	1,984	95.5	2,427	78.2	1,987	2	5	7,875	3,572
FULL FREE LIFT	TF750	295.5	7,506	123.2	3,130	336.1	8,536	315.4	8,012	81.7	2,076	99.2	2,519	83.3	2,115	2	5	7,932	3,598
	TF800	315.2	8,006	131.1	3,330	355.7	9,036	335.1	8,512	89.6	2,276	107.0	2,719	91.1	2,315	2	5	8,069	3,660
	TF850	334.9	8,506	137.7	3,497	375.4	9,536	354.8	9,012	96.2	2,443	113.6	2,886	97.8	2,483	2	5	8,265	3,749
	TF900	354.6	9,006	144.3	3,664	395.1	10,036	374.5	9,512	102.8	2,610	120.2	3,053	104.4	2,651	2	5	8,377	3,800
	TF950	374.3	9,506	150.8	3,831	414.8	10,536	394.2	10,012	109.3	2,777	126.8	3,220	111.0	2,819	2	5	8,490	3,851
	TF1000	393.9	10,006	158.7	4,031	434.5	11,036	413.9	10,512	117.2	2,977	134.6	3,420	118.9	3,019	2	5	8,680	3,937
	TF1050	413.6	10,506	165.3	4,198	454.2	11,536	433.5	11,012	123.8	3,144	141.2	3,587	125.5	3,187	2	5	8,792	3,988

⋇∶Standard

New 9 Series Mast Specifications

Mast Type		Maximum Fork Height		Overall Height (Lowered)		Overall height (Lifted)				Free Lift Height						Tilt Angle		TRUCK WEIGHT	
						With Load Backrest		Without Load Backrest		With Load Backrest		Without Load Backrest		Without Load Backrest (3/4-SPOOL)		Fwd	Bwd	(UNLC)ADED)
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	d	eg	lb	kg
	TF430	169.5	4,305	80.2	2,036	212.8	5,406	195.8	4,974	36.8	935	53.8	1,367	44.4	1,129	2	5	8,190	3,715
	TF470	185.2	4,705	86.1	2,186	228.6	5,806	211.6	5,374	42.7	1,085	59.7	1,517	50.4	1,279	2	5	8,280	3,756
	*TF530	208.9	5,305	93.9	2,386	252.2	6,406	235.2	5,974	50.6	1,285	67.6	1,717	58.2	1,479	2	5	8,375	3,799
	TF570	224.6	5,705	99.2	2,519	268.0	6,806	250.9	6,374	55.8	1,418	72.8	1,850	63.4	1,611	2	5	8,472	3,843
	TF630	248.2	6,305	108.0	2,744	291.6	7,406	274.6	6,974	64.7	1,643	81.7	2,075	72.3	1,837	2	5	8,607	3,904
	TF670	264.0	6,705	113.3	2,877	307.3	7,806	290.3	7,374	69.9	1,776	86.9	2,208	77.5	1,969	2	5	9,039	4,100
	TF700	275.8	7,005	117.2	2,977	319.1	8,106	302.1	7,674	73.9	1,876	90.9	2,308	81.5	2,069	2	5	9,112	4,133
3-STAGE	TF750	295.5	7,505	123.8	3,144	338.8	8,606	321.8	8,174	80.4	2,043	97.4	2,475	88.1	2,237	2	5	9,233	4,188
FULL FREE	TF800	315.2	8,005	131.3	3,336	358.5	9,106	341.5	8,674	88.0	2,235	105.0	2,667	95.6	2,429	2	5	9,372	4,251
LIFT	TF850	334.9	8,507	137.9	3,503	378.3	9,608	361.3	9,176	94.6	2,402	111.6	2,834	102.2	2,595	2	5	9,594	4,352
	TF900	354.6	9,007	144.5	3,670	398.0	10,108	380.9	9,676	101.1	2,569	118.1	3,001	108.8	2,763	2	5	9,716	4,407
	TF950	374.4	9,509	151.1	3,837	417.7	10,610	400.7	10,178	107.7	2,736	124.7	3,168	115.3	2,929	2	5	9,839	4,463
	TF1000	394.0	10,007	158.6	4,029	437.3	11,108	420.3	10,676	115.3	2,928	132.3	3,360	123.0	3,123	2	5	9,978	4,526
	TF1050	413.7	10,507	165.2	4,196	457.0	11,608	440.0	11,176	121.9	3,095	138.9	3,527	129.6	3,291	2	5	10,203	4,628
	TF1100	433.3	11,007	171.8	4,363	476.7	12,108	459.7	11,676	128.4	3,262	145.4	3,694	136.1	3,457	2	5	10,318	4,680
	TF1150	453.0	11,507	179.3	4,555	496.4	12,608	479.4	12,176	136.0	3,454	153.0	3,886	143.7	3,649	2	5	10,456	4,743
	TF1200	472.7	12,007	185.9	4,722	516.1	13,108	499.1	12,676	142.6	3,621	159.6	4,053	150.3	3,817	2	5	10,578	4.798

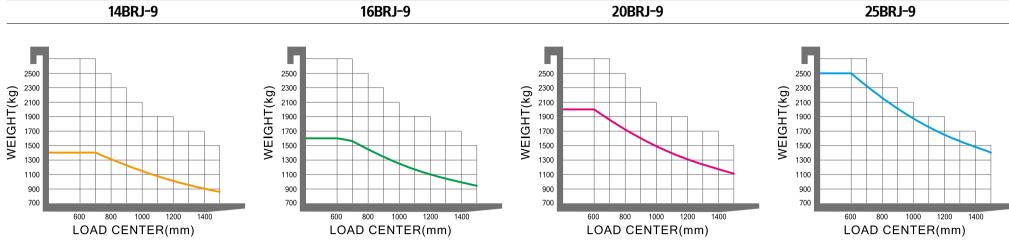
*: Standard

Maximum Fork Mast Type Height		Overall Height Over				ight (Lifted)	Free Lift Height						Tilt Angle		TRUCK WEIGHT				
		Height		(Lowered)		With Load Backrest		Without Load Backrest		With Load Backrest		Without Load Backrest Without Load Ba			krest (3/4-SPOOL)	Fwd	Bwd	(UNLC	DADED)
		in mr		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	de	eg	lb	kg
	TF430	169.5	4,305	80.2	2,036	212.8	5,406	195.8	4,974	36.8	935	53.8	1,367	44.4	1,129	2	5	8,686	3,940
	TF470	185.2	4,705	86.1	2,186	228.6	5,806	211.6	5,374	42.7	1,085	59.7	1,517	50.4	1,279	2	5	8,779	3,982
	*TF530	208.9	5,305	93.9	2,386	252.2	6,406	235.2	5,974	50.6	1,285	67.6	1,717	58.2	1,479	2	5	8,874	4,025
	TF570	224.6	5,705	99.2	2,519	268.0	6,806	250.9	6,374	55.8	1,418	72.8	1,850	63.4	1,611	2	5	8,971	4,069
	TF630	248.2	6,305	108.0	2,744	291.6	7,406	274.6	6,974	64.7	1,643	81.7	2,075	72.3	1,837	2	5	9,103	4,129
	TF670	264.0	6,705	113.3	2,877	307.3	7,806	290.3	7,374	69.9	1,776	86.9	2,208	77.5	1,969	2	5	9,535	4,325
	TF700	275.8	7,005	117.2	2,977	319.1	8,106	302.1	7,674	73.9	1,876	90.9	2,308	81.5	2,069	2	5	9,608	4,358
3-STAGE	TF750	295.5	7,505	123.8	3,144	338.8	8,606	321.8	8,174	80.4	2,043	97.4	2,475	88.1	2,237	2	5	9,729	4,413
FULL FREE	TF800	315.2	8,005	131.3	3,336	358.5	9,106	341.5	8,674	88.0	2,235	105.0	2,667	95.6	2,429	2	5	9,870	4,477
LIFT	TF850	334.9	8,507	137.9	3,503	378.3	9,608	361.3	9,176	94.6	2,402	111.6	2,834	102.2	2,595	2	5	10,090	4,577
	TF900	354.6	9,007	144.5	3,670	398.0	10,108	380.9	9,676	101.1	2,569	118.1	3,001	108.8	2,763	2	5	10,214	4,633
	TF950	374.4	9,509	151.1	3,837	417.7	10,610	400.7	10,178	107.7	2,736	124.7	3,168	115.3	2,929	2	5	10,335	4,688
	TF1000	394.0	10,007	158.6	4,029	437.3	11,108	420.3	10,676	115.3	2,928	132.3	3,360	123.0	3,123	2	5	10,476	4,752
	TF1050	413.7	10,507	165.2	4,196	457.0	11,608	440.0	11,176	121.9	3,095	138.9	3,527	129.6	3,291	2	5	10,699	4,853
	TF1100	433.3	11,007	171.8	4,363	476.7	12,108	459.7	11,676	128.4	3,262	145.4	3,694	136.1	3,457	2	5	10,814	4,905
	TF1150	453.0	11,507	179.3	4,555	496.4	12,608	479.4	12,176	136.0	3,454	153.0	3,886	143.7	3,649	2	5	10,955	4,969
	TF1200	472.7	12,007	185.9	4,722	516.1	13,108	499.1	12,676	142.6	3,621	159.6	4.053	150.3	3.817	2	5	11,074	5,023

New 9 Series

Load Capacity





Optional Items

- UL(ES)
- Beacon Lamp(Amber)
- Fork Camera, Carriage Camera
- Cold Storage
- Work Lamp (LED)
- Rear Lamp (LED, Bulb)
- Auto Tilt Leveling

- Load Indicator
- Battery
- Charger 3Phrases 220 / 380V, 410V, 440V
- Joystick Lever
- Fork Height Indicator & Preselector
- Fork(mm

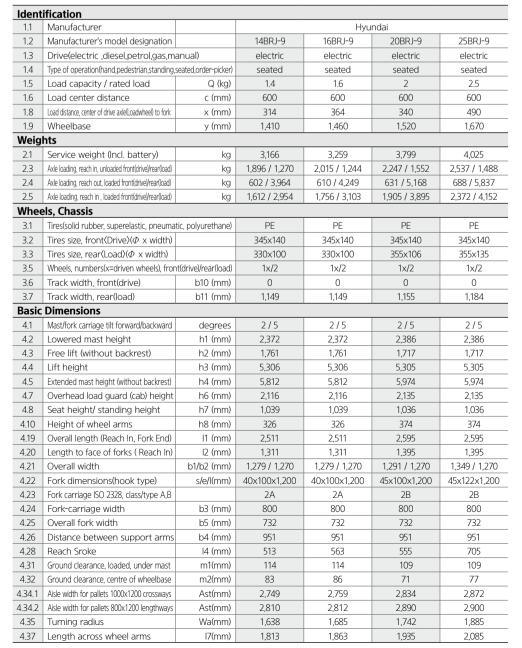
14/16BRJ-9: 900/950/1,000/1,050/1,150/1,200(STD)/1,350/1,500/1,600

20/25BRJ-9: 1,000/1,050/1,200(STD)/1,350/1,500/1,650/1,800

- Sideshift : Max. 140 mm
- Tire: Urethane (STD), Vulkollan (Optional)
- Seat : Fabric (STD), PVC (optional

New 9 Series

Specification



Daufa														
	ormance Data													
5.1	Travel speed, unloaded	km/h	14	14	14	14								
5.2	Lift speed, loaded/ unloaded	mm/s	370 / 580	370 / 580	300 / 470	300 / 470								
5.3	Lowering speed, loaded/unloaded	mm/s	500 / 450	500 / 450	500 / 450	500 / 450								
5.8	Max. gradient performance, loaded/ unloaded S2 5min	%	13 / 18	12 / 18	12 / 19	11 / 18								
5.10	Service brake		electric	electric	electric	electric								
E-Mo	E-Motor													
6.1	Dirve motor rating S2 60min	kW	7.5	7.5	7.5	7.5								
6.2	Lift motor rating at S2 5min	kW	14	14	14	14								
6.3	Battery acc. to DIN 43531/35/36 A, B, C,no		DIN43531	DIN43531	DIN43531	DIN43531								
6.4	Battery voltage, nominal capacity K5	V/Ah	48 / 300	48 / 300	48 / 500	48 / 500								
6.5	Battery weight(min)	kg	750	750	940	940								
6.7	Battery compartment dimensions L/W/H	mm	1,235 / 287 / 802	1,235 / 287 / 802	1,235 / 358 / 802	1,235 / 358 / 802								
Othe	r Details													
8.1	Type of drive control		AC Mosfet	AC Mosfet	AC Mosfet	AC Mosfet								
8.2	Operating pressure for attachments	bar	160	170	170	190								
8.3	Oil volume for attachments	l/min	45	45	45	45								

