

Hyundai Cushion Tire LPG Forklifts

# LC-9 series

35/45/55LC-9

8,000-12,000 lbs. capacity



**HYUNDAI**  
MATERIAL HANDLING

# YOUR PERFORMANCE, OUR TOP PRIORITY

## New LPG Cushion Tire Forklifts Engineered To Do More **35/45/55LC-9 Series**

The new LC-9 Series offers unrivaled performance and innovative features all engineered to bring owners greater productivity, enhanced reliability, and lower costs. Powered by a reliable Kubota engine, the LC-9 matches outstanding fuel efficiency with EPA/CARB certification in a compact design with the durability to handle virtually any application.



### **Environmentally friendly**

- The Kubota WG3800 LPG engine delivers stable performance with low emissions.
- Meets EPA/CARB standards and offers low fuel consumption, supporting eco-friendly worksites.
- Consistent power and smooth operation enhance productivity in various applications.

### **Greater productivity & durability**

- Optimized powertrain and cooling systems maintain reliable performance under heavy workloads.
- Long-life wet disc brakes and reinforced drivetrain components reduce wear and extend service life.
- A compact front-end structure and small turning radius enable smooth maneuvering even in narrow aisles.

### **Enhanced safety**

- Automatic parking brake and operator-presence features help prevent unintended movements.
- Real-time load information and adjustable speed settings support safer, more controlled operation.
- Certified safety systems ensure dependable protection for both operator and equipment.

### **Outstanding operability**

- A spacious, well-designed operator area and suspension seat reduce fatigue during long shifts.
- Convenient controls and improved visibility features support smooth, precise handling in all directions.

### **Easy servicing**

- Simplified maintenance points and clear service alerts reduce downtime and help lower costs.
- Water- and dust-protected electrical components enhance reliability in harsh environments.
- Wide-open service access allows faster, easier routine inspections and repairs.

# Eco-friendly without sacrificing productivity and durability

The LC-9 is engineered to deliver superior performance in the most demanding of environments and applications. The eco-friendly engine delivers superior fuel economy while the optimized powertrain and cooling systems offer greater reliability.



## Eco-friendly Kubota WG3800 LPG engine

EPA/CARB-certified WG3800, based on a same-class diesel platform, delivers consistent performance with low noise and efficient fuel use. A catalytic converter reduces exhaust emissions, and the compact engine design creates more service space in the engine bay.



- Displacement : 3,769cc (4cyl)
- Rated Power (hp/rpm) : 91.8hp / 2,450rpm
- Max. torque (lb-ft/rpm) : 214lb-ft / 1,200rpm

## More compact design with a reduced front overhang

The staggered mast rail design keeps the load closer to the front axle, shortening front overhang and overall length. This improves turning in tight aisles and increases stability by keeping the load nearer the truck's center of gravity.



35/45/55LC-9 (Staggered Type)

## TRANSMISSION & DRIVE AXLE

### Smooth Shifting Transmission

The transmission uses precision clutches and high-strength gears for durability in heavy, continuous use. Optimized gear ratios deliver smooth shifting and stable power while reducing friction and heat to extend drivetrain life.



### Rugged Drive Axle

The drive axle is built for high torque and frequent load changes, with a reinforced housing and high-strength components to reduce wear. Dual planetary reduction delivers strong, smooth torque for excellent traction and control, while optimized bearings and efficient lubrication improve durability and simplify maintenance.



### Transmission & drive axle oil circulation system

A shared oil circulation system connects the transmission and drive axle for better cooling and component protection. Oil checks and filling are done at the axle, improving durability and reducing maintenance time.



### Wet disc brake

The wet disc braking system uses increased axle oil volume for rapid heat cooling, providing consistent braking and long service life in high cycle applications.



### Short wheelbase for enhanced maneuverability

The short wheelbase improves maneuverability without sacrificing travel stability. An optimized steering system boosts durability and control.



# A wide view for work

Cylinder and hose routing are positioned to keep the operator's forward view clear during lifting and travel. Rear visibility is improved with a panoramic mirror and an available rear camera to help monitor blind spots and improve awareness when reversing.



## Clamp interlock function (Option)

When using attachments like paper roll clamps, box clamps, or drum clamps, this feature helps prevent load drops caused by operator error. It automatically limits unnecessary or unsafe functions during attachment use, reducing accident risk and improving overall safety.



## Pedestrian detect alarm system (Option)

The system uses a rear camera and in-cab monitor for pedestrian detection. When a person is detected, the screen highlights them with a detection box and an audible alarm alerts the operator, improving awareness and helping prevent accidents during reversing and maneuvering.



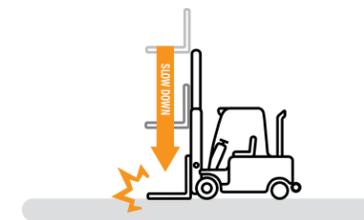
## Auto parking

If the engine stops or OPSS activates, the parking brake automatically engages to reduce operator error and help prevent unintended movement.



## Fork lowering safety

During lowering, a down-control valve regulates descent speed for smooth, controlled operation. A down-safety valve helps prevent sudden fork drop if a hydraulic line is damaged.



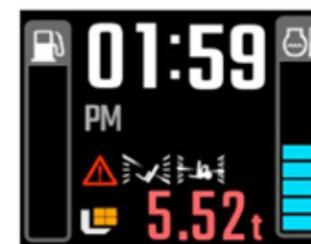
## Operator presence sensing system

The OPSS restricts travel, lift, and tilt functions when the operator leaves the seat to help prevent accidents.



## Load weight indicator

A load pressure sensor displays estimated load weight in real time. If the load exceeds the set limit, the cluster shows a warning. Readings may vary, so it's intended as a reference to support safer operation, help prevent equipment damage, and improve load handling efficiency.



## Speed limit

The multi-function monitor lets you set a maximum travel speed to match site safety limits, reducing the risk of over-speed accidents. Even with speed limiting enabled, the truck maintains strong driving and working performance.



## Seatbelt interlock (Option)

If the seat belt is not fastened in the proper start-up sequence, or if it is unfastened during operation, the truck stops functioning. This system helps protect the operator by preventing operation without the seat belt worn.



# An operator's compartment with a focus on productivity & comfort

Outstanding ergonomics create an operating space where productivity, comfort, and safety are assured. From the full-suspension seat to the carefully positioned controls, the LC-9 offers greater convenience and control over even the longest workdays.



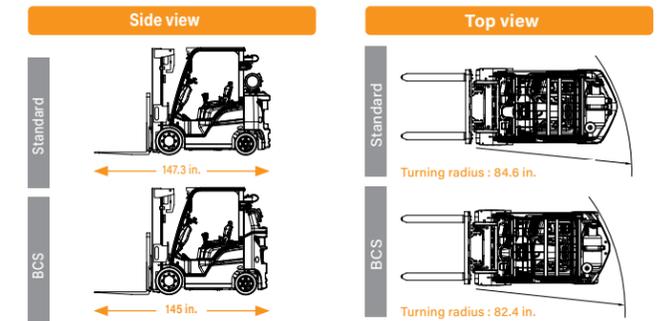
## Multifunction digital cluster

The multifunction digital cluster displays key operating conditions in real time for quick, easy visibility. A standard LPG low-fuel alarm helps prevent unexpected shutdowns, and additional built-in features support safer, more convenient truck management.



## BCS (Box Car Special) (Option)

With a compact counterweight, the BCS option improves maneuverability and stable handling in tight spaces. Ideal for railcars, containers, and narrow aisles, it delivers smoother turns, better control, and higher productivity where space is limited.



Shorter overall length and smaller turning radius depending on CWT difference  
 - Overall length: reduced by 2.3in - Minimum turning radius: reduced by 2.2in  
 \* Based on 35LC-9 Standard & BCS models

## Full-suspension seat

The full-suspension Grammer™ seat adjusts to the operator's weight for improved comfort. Optional features include a seat belt switch, armrests, and a seat heater.



## Knob on switch & horn (Option)

A forward/reverse switch and horn button are mounted on the lift lever for quick direction changes and fast emergency response, helping reduce operator fatigue.



## Electronic parking switch

A single switch lets the operator apply or release the parking brake quickly, simplifying daily operation and improving convenience.



## Auto tilting (Option)

During tilt, the forks automatically stop when they reach level (parallel to the ground). This improves safety and efficiency when placing or removing pallets from racks at higher lift heights.



## Steering handle

The compact 11-inch steering wheel is designed for easy control with less arm and shoulder strain. It helps reduce fatigue during long shifts while improving comfort and productivity.



## Rear grip bar & horn

A rear grip bar with an integrated horn button helps the operator maintain a secure, comfortable posture when traveling in reverse. The horn can be activated quickly without changing hand position, improving awareness in tight areas.



# Large maintenance space

A spacious service area is available for easy access to key consumables and major functional components. Simply open the engine cover and remove the side cover and floorplate to perform follow-up maintenance quickly and efficiently.

## Easy service MCV

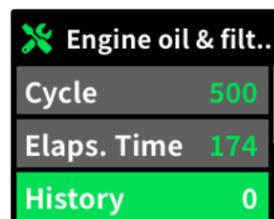
The main control valve (MCV) is mounted horizontally, allowing hydraulic pressure adjustment and spool replacement without disassembling or opening the MCV assembly.

- Embedded flow regulator - Easy to regulate the lowering speed
- Embedded emergency screw - Allows mast lowering in an emergency situation



## Maintenance management

The cluster displays replacement reminders for consumables like the engine oil filter and air cleaner based on the service intervals in the manual, helping prevent performance loss from overdue maintenance.



## Waterproof fuse & relay box

Fuses and relays are housed in a water- and dust-tight box in the engine compartment to protect against contamination and reduce maintenance downtime.



## LPG fuel level warning

When LPG tank pressure drops below the set level during operation, the fuel symbol lamp illuminates on the cluster to warn the operator and help prevent running out of fuel during work.



## Quick coupler (Option)

An optional hydraulic quick coupler allows fast, secure connection of mast-mounted hydraulic attachments for quicker, safer attachment changes.



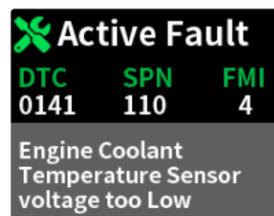
## LPG swing down bracket (Option)

The swing-down LPG tank bracket hinges the cylinder down to ground level for safer, easier replacement without heavy lifting. It reduces operator strain, speeds tank changes, and helps improve productivity.



## Engine failure control

The cluster can display ECU-stored engine fault codes without additional tools, enabling faster, more accurate troubleshooting and service.



## Detachable radiator cover

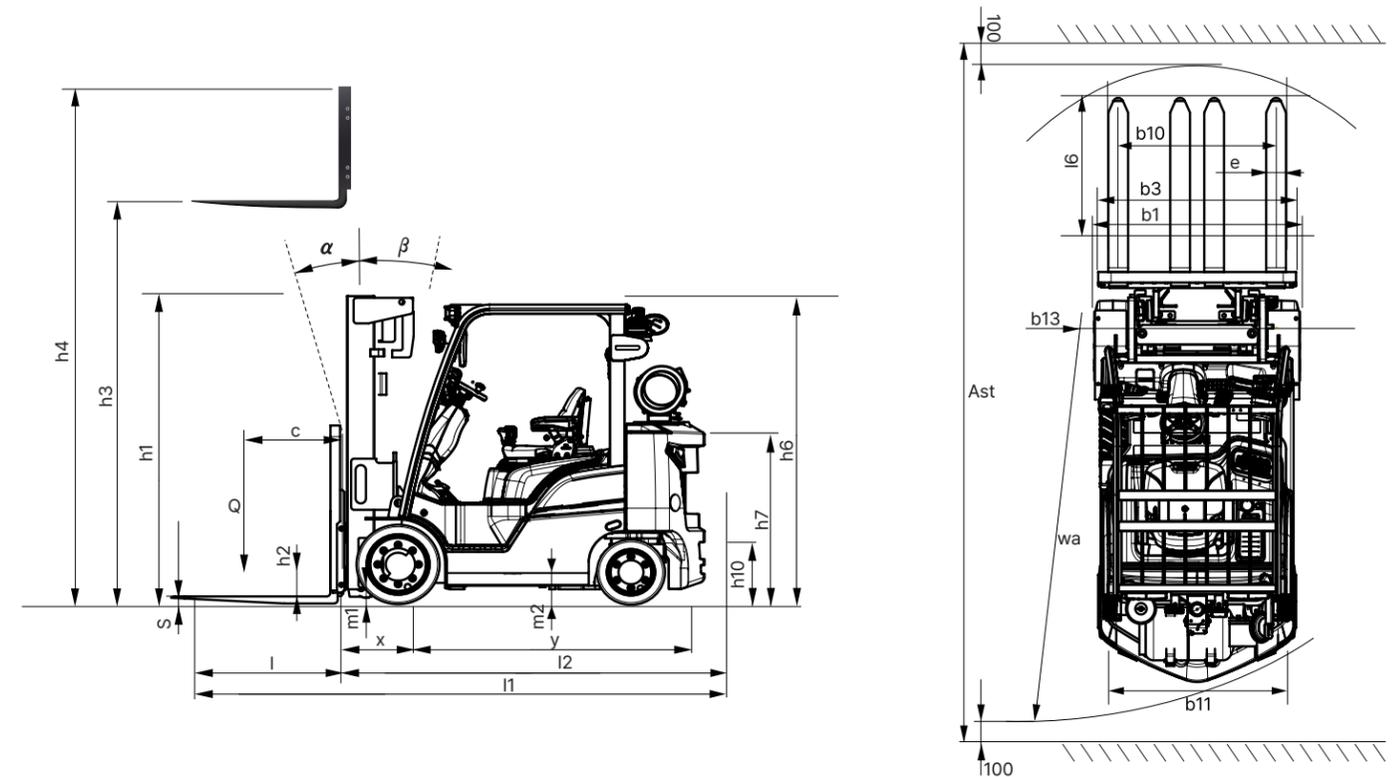
A tool-free plastic radiator sub-hood on the counterweight, separate from the main hood, speeds coolant level checks and top-offs, reducing downtime..



## SPECIFICATIONS (35/45/55LC-9)

IDENTIFICATION				
1.1	Manufacturer	Hyundai		
1.2	Manufacturer's type designation	35LC-9	45LC-9	55LC-9
1.3	Drive: electric(battery or mains), diesel, petrol, fuel gas, manual	LPG	LPG	LPG
1.4	Type of operation: hand, pedestrian, standing, seated, order-picker	Seated	Seated	Seated
1.5	Load capacity / rated load	lb 8,000	10,000	12,000
1.6	Load center distance	c (in) 24.0	24.0	24.0
1.8	Load distance, center of drive axle to fork	x (in) 18.0	18.0	18.4
1.9	Wheelbase	y (in) 61.8	70.5	70.5
WEIGHTS				
2.1	Service weight	lb 13,457 / 13,536*	15,556 / 15,646*	17,405 / 17,661*
2.2	Axle loading, loaded front / rear	lb 18,488 / 2,685 18,530* / 2,723*	22,280 / 3,197 22,167* / 3,399*	25,785 / 3,746 26,078* / 3,708*
2.3	Axle loading, unloaded front / rear	lb 5,578 / 7,879 5,620* / 7,916*	6,501 / 9,054 5,568* / 10,079*	6,433 / 10,972 6,726* / 10,936*
WHEELS, CHASSIS				
3.1	Tires: solid rubber(v), superelastic(se), pneumatic(p), polyurethane(pe)	Cushion	Cushion	Cushion
3.2	Tires size, front	22 x 9 x 16	22 x 12 x 16	22 x 12 x 16
3.3	Tires size, rear	18 x 7 x 12.2	18 x 8 x 12.2	18 x 8 x 12.2
3.5	Wheels, number front x rear (x=driven wheels)	2 x 2	2 x 2	2 x 2
3.6	Track width, front	b10 (in) 40.9	40.9	43.9
3.7	Track width, rear	b11 (in) 41.1	41.1	41.1
BASIC DIMENSIONS				
4.1	Mast/fork carriage tilt forward / backward	degrees 5/6	5/6	5/6
4.2	Lowered mast height	h1 (in) 85.5	85.5	85.5
4.3	Free lift	h2 (in) 5.9	5.9	6.2
4.4	Lift height	h3 (in) 118	118	114
4.5	Extended mast height	h4 (in) 166.5	167	163.5
4.7	Overhead load guard (low) height	h6 (in) 86 (83)	86 (83)	86 (83)
4.8	Seat height / standing height (SIP)	h7 (in) 46.1	46.1	46.1
4.12	Coupling height	h10 (in) 9.3	9.6	9.6
4.19	Overall length	l1 (in) 147.3 / 145*	157.4 / 150.4*	158.5 / 154.5*
4.20	Length to face of forks	l2 (in) 99.3 / 96.9*	109.3 / 102.4*	111.3 / 107.3*
4.21	Overall width	b1 (in) 50.0	55.9	55.9
4.22	Fork dimensions (H x W x L)	s x e x l (in) 2 x 5.9 x 48	2 x 5.9 x 48	2.4 x 5.9 x 47.2
4.23	Fork carriage ISO 2328, class/type A,B	Class III,A	Class IV,A	Class IV,A
4.24	Fork-carriage width (with backrest)	b3 (in) 45	52	52
4.31	Ground clearance, under mast	m1 (in) 4.3	4.3	4.3
4.32	Ground clearance, center of wheelbase	m2 (in) 4.8	5.1	5.1
4.34.1	Aisle width for pallets 1000x1200 crossways	ast (in) 149.8 / 147.6*	160.8 / 152.9*	162.7 / 158.9*
4.34.2	Aisle width for pallets 800x1200 lengthways	ast (in) 157.7 / 155.5*	168.7 / 160.8*	170.6 / 166.8*
4.35	Turning radius	wa (in) 84.6 / 82.4*	95.6 / 87.7*	97 / 93.3*
PERFORMANCE				
5.1	Travel speed, loaded / unloaded	mph 10.3 / 10	10.3 / 10	10.3 / 9.9
5.2	Lift speed, loaded / unloaded	ft/min 122 / 124	122 / 124	103 / 105
5.3	Lowering speed, loaded / unloaded	ft/min 110 / 102	110 / 102	108 / 103
5.6	Max. drawbar pull, loaded / unloaded	lb 8,153 / 8,082 8,153* / 8,080*	8,007 / 8,020 8,005* / 8,007*	7,970 / 7,983 7,968* / 7,981*
5.8	Max. gradeability, loaded / unloaded	% 40.5 / - 40.3* / -	32.2 / - 32.1* / -	27.3 / - 27.0* / -
5.10	Service brake	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic
ENGINE				
7.1	Engine manufacturer / type	KUBOTA / WG3800	KUBOTA / WG3800	KUBOTA / WG3800
7.2	Engine power acc. to ISO 1585	hp/rpm 91.8 / 2,450	91.8 / 2,450	91.8 / 2,450
7.3	Maximum torque	lb-ft/rpm 214 / 1,200	214 / 1,200	214 / 1,200
7.4	No. of cylinder / displacement	EA/cc 4 / 3,769	4 / 3,769	4 / 3,769
7.5	Fuel consumption acc. To VDI cycle	l/h 9.1	9.1	9.1
ADDITIONAL DATA				
8.1	Type of drive control	Power shift	Power shift	Power shift
8.2	Operating pressure, system / attachments	psi 3,625	3,625	3,625
8.3	Oil volume for attachments	GPM-US 15	15	15

## DIMENSIONS



## STANDARD & OPTIONAL FEATURES

Part	Description	35LC-9	45LC-9	55LC-9
OPERATOR'S COMPARTMENT	OHG			
	Overhead guard (86")	●	●	●
	Overhead guard-low (83")	○	○	○
	Grammer seat + seat belt + arm rest	●	●	●
	Grammer seat + seat belt	○	○	○
	Seat accessories - buckle SW, arm rest, backrest & heater	○	○	○
	Fabric seat + arm rest + seat SW + B/SW	○	○	○
	Fabric seat + arm rest (LH) + seat SW + B/SW	○	○	○
MAST & ATTACHMENT	Mast			
	3 stage single full free (185in)	●	●	●
	2 stage mast (V, VF mast)	○	○	○
	3 stage mast - (TF mast)	○	○	○
	Fork	●	●	●
	Standard fork - 35/45LC-9: 48in / 55LC-9: 47in			
Fork option - 42in-94in	○	○	○	
HYDRAULICS	Lever	●	●	●
	Finger tip (4, 5 spool only)	○	○	○
	MCV & Hoses	●	●	●
	4 spool MCV + attachment hosing	○	○	○
TIRES	Tires			
	Lug pattern (black)	●	●	●
	Smooth pattern (black)	○	○	○
	Attachment			
Manual lever	●	●	●	
Clamp interlock (3SP/4SP)	○	○	○	
Quick coupler (Option)	○	○	○	
OTHERS	Attachment hosing for all MCV & masts	○	○	○
	Bracket			
	Standard (fixed)	●	●	●
	Swing down	○	○	○

Part	Description	35LC-9	45LC-9	55LC-9
TIRES	Tires			
	Lug pattern (non-marking)	○	○	○
CW	Counter Weight			
	Standard	●	●	●
VISIBILITY	Lamp			
	Working lamp - front LED	○	○	○
	Working lamp - front & rear LED	○	○	○
CONVENIENCE	Mirror			
	Panorama, back (L/H, R/H), rear	●	●	●
SAFETY	Camera			
	Rear camera	○	○	○
	Load weight indicator	●	●	●
	Knot switch with horn	○	○	○
OTHERS	Auto tilt	○	○	○
	OPSS - travel / mast	●	●	●
	Master switch (disconnect main power)	●	●	●
	Hi MATE (basic, premium)	○	○	○
	Hazard switch	○	○	○
	LED beacon lamp	●	●	●
	Rear horn	●	●	●
	Safety lamp option - red zone, rear blue (F/R)	○	○	○
	Seat belt interlock	○	○	○
	HYD oil - VG46	●	●	●
HYD oil option - VG 68 for tropical, VG15 for cold area	○	○	○	
Frame - under cover	○	○	○	
Side cover - plastic	●	●	●	
Precleaner	○	○	○	
Cooling	Cooling for heavy duty (vented side cover)	○	○	○
	Wire net	○	○	○

● STD / ○ OPT

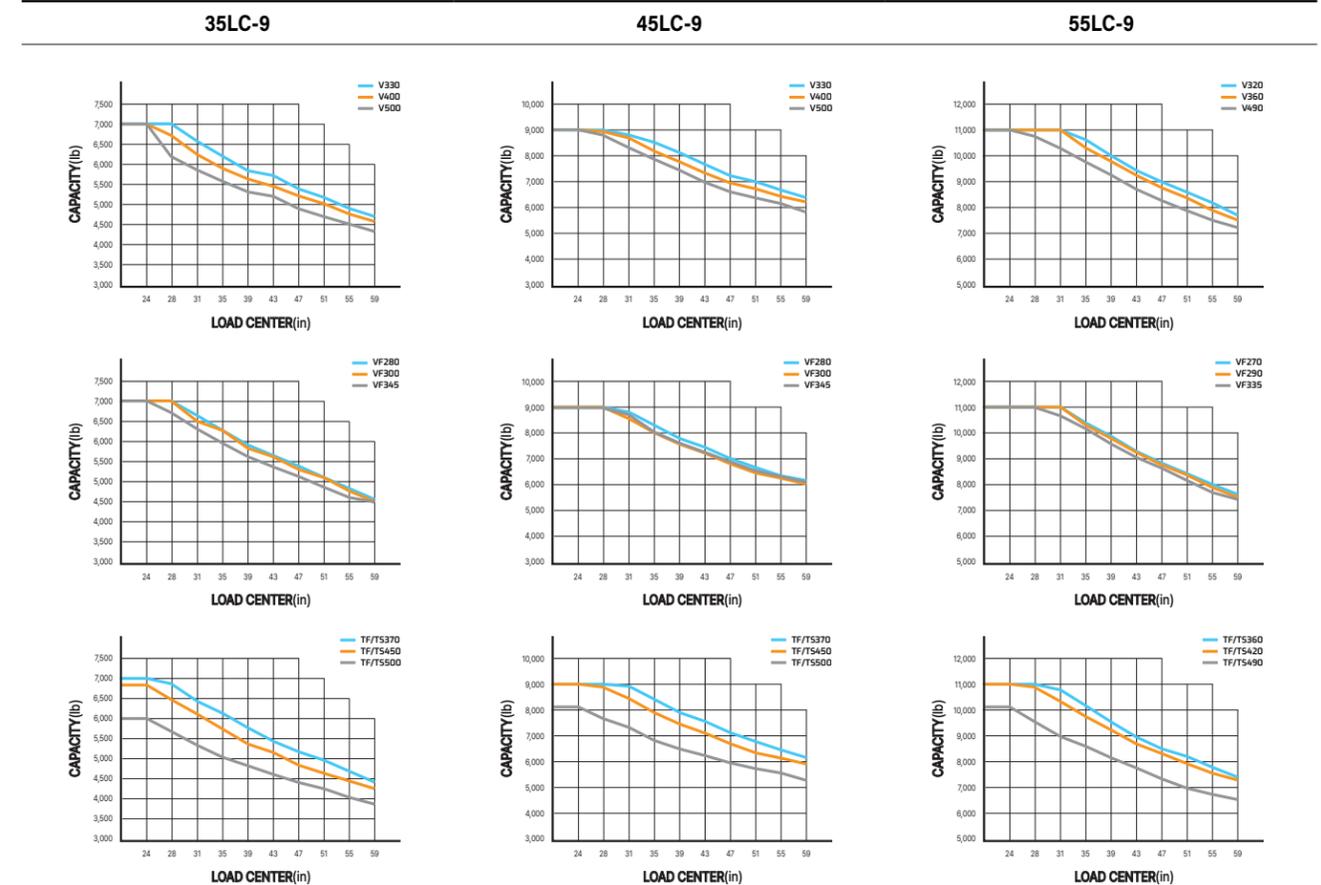
**MAST SPECIFICATIONS**

35LC-9										
Mast Type	Maximum Fork Height	Overall Height (Lowered)	Free Lift Height		Tilt Angle		Load Capacity without side shift	Load Capacity with side shift	Truck Weight (Unloaded)	
			With Load Backrest	Without Load Backrest	Fwd	Bwd				
			in	in	deg	deg				
2-STAGE LIMITED FREE LIFT	V300	118	86	6	6	5	6	8,000	7,000	13,454
	V330	130	92	6	6	5	6	8,000	7,000	13,527
	V400	157	110	6	6	5	6	8,000	7,000	13,756
	V450	177	120	6	6	5	6	8,000	7,000	13,879
	V500	197	129	6	6	5	6	7,600	6,950	14,026
2-STAGE FULL FREE LIFT	VF280	110	82	34	49	5	6	8,000	7,000	13,506
	VF300	118	86	38	53	5	6	8,000	7,000	13,569
	VF345	136	96	48	63	5	6	8,000	7,000	13,706
3-STAGE FULL FREE LIFT	TF400	157	82	34	49	5	6	8,000	7,000	14,090
	TF430	169	86	38	53	5	6	8,000	7,000	14,164
	TF470	185	92	44	59	5	6	7,720	7,000	14,277
	TF500	197	96	48	63	5	6	7,500	6,800	14,351
	TF550	217	103	55	70	5	6	7,250	6,600	14,484
	TF600	236	110	62	77	5	6	6,610	5,950	14,658

45LC-9										
Mast Type	Maximum Fork Height	Overall Height (Lowered)	Free Lift Height		Tilt Angle		Load Capacity without side shift	Load Capacity with side shift	Truck Weight (Unloaded)	
			With Load Backrest	Without Load Backrest	Fwd	Bwd				
			in	in	deg	deg				
2-STAGE LIMITED FREE LIFT	V300	118	86	6	6	5	6	10,000	9,000	14,724
	V330	130	92	6	6	5	6	10,000	9,000	14,797
	V400	157	110	6	6	5	6	10,000	9,000	15,027
	V450	177	120	6	6	5	6	10,000	9,000	15,150
	V500	197	129	6	6	5	6	10,000	9,000	15,297
2-STAGE FULL FREE LIFT	VF280	110	82	34	49	5	6	10,000	8,950	14,546
	VF300	118	86	38	52	5	6	10,000	8,950	14,610
	VF345	136	96	48	62	5	6	10,000	8,950	14,747
3-STAGE FULL FREE LIFT	TF400	157	82	34	49	5	6	10,000	8,950	15,367
	TF430	169	86	38	53	5	6	10,000	8,950	15,442
	TF470	185	92	44	59	5	6	10,000	8,950	15,557
	TF500	197	96	48	63	5	6	10,000	8,950	15,631
	TF550	217	103	55	70	5	6	9,700	8,750	15,765
	TF600	236	110	62	77	5	6	9,000	8,150	15,936

55LC-9										
Mast Type	Maximum Fork Height	Overall Height (Lowered)	Free Lift Height		Tilt Angle		Load Capacity without side shift	Load Capacity with side shift	Truck Weight (Unloaded)	
			With Load Backrest	Without Load Backrest	Fwd	Bwd				
			in	in	deg	deg				
2-STAGE LIMITED FREE LIFT	V290	114	86	6	6	5	6	12,000	11,050	17,426
	V320	126	92	6	6	5	6	12,000	11,050	17,502
	V360	142	110	6	6	5	6	12,000	11,050	17,746
	V490	193	129	6	6	5	6	12,000	11,050	18,022
2-STAGE FULL FREE LIFT	VF270	106	82	34	49	5	6	12,000	11,050	17,334
	VF290	114	86	38	53	5	6	12,000	11,050	17,397
	VF335	132	95	48	63	5	6	12,000	11,050	17,534
3-STAGE FULL FREE LIFT	TF390	154	82	34	49	5	6	12,000	11,050	18,069
	TF420	165	86	38	53	5	6	12,000	11,050	18,150
	TF460	181	92	44	59	5	6	12,000	11,050	18,263
	TF490	193	95	48	63	5	6	11,900	10,850	18,344
	TF540	213	103	55	70	5	6	11,550	10,550	18,491
	TF590	232	110	62	77	5	6	11,100	10,100	18,674

**Load Capacity**





**NO ONE DELIVERS MORE**



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01.2026