

The Hylift DG90  
Dedicated Empty Container  
Handler Capacity 9,000KG  
4,500 Wheelbase

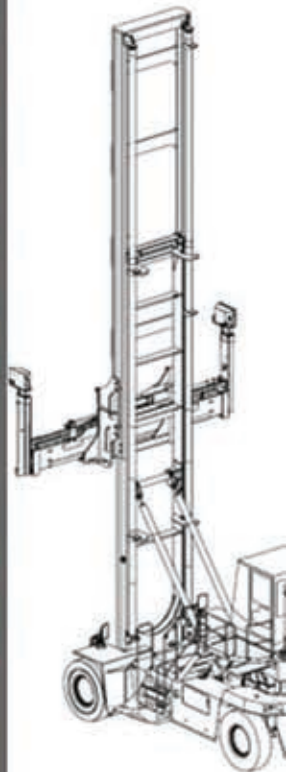
Nordic Lift-Truck Pte Ltd

3, Tuas Ave 4

Singapore 639364

Tel: (65) 6897 7952 Fax: (65) 6897 8516

Enquiry: [enquiry@nordicliftruck.com](mailto:enquiry@nordicliftruck.com)



# Standard and Optional Equipment

## Standard Equipment

- Fully equipped cab with hinged doors, wipers and washers for windscreen, rear screen and overhead guard screen;
- Heater and demister
- Fully adjustable suspension-type seat
- LCD screen data display, show parameters of engine/transmission; Display fault codes into text descriptions
- Safety monitors for engine and transmission oil pressure
- 172 KW Cummins diesel engine with turbocharger
- ZF 3-speed power shift transmission with integrated forward/reverse safety interlock
- Heavy-duty double hub reduction drive axle, incorporating oil bath type multi-disc brakes with zero maintenance requirements
- Anti-stall engine speed-up device
- Hydraulic power steering
- Twin drive wheels
- Pneumatic tyres
- Standard ultra-wide clear view lift mast
- Container telescopic 20'-40' side lift spreader, side shift ±600mm
- Road lighting
- Working lights
- Spreader-mounted lights
- Rear view mirrors
- Load indicator and load limiting system
- Standard color scheme -RAL2002/RAL7021

## Optional Equipment

- Automatic air-conditioner
- Mast lights
- Travel speed limiter, when load positioned above standard travel height
- 14.00-24 tyre (DG90/6)
- Reverse radar and camera monitor system
- Remote diagnostic system
- Alternative color schemes



Other Options Available on Request



# Features



## Driver's compartment with optimized ergonomics

Steps on the left side of the vehicle provide access to the raised centralised driver's compartment. A comfortable suspension-type driver's seat is standard with full adjustment for weight and size of the operator. Operator controls satisfy the ergonomic standards defined by ISO6682 and have all been further optimised for easy, effortless operation. A multifunction single hydraulic control lever provides all load control movements, facilitating smooth easy load handling. Control and supervision instruments installed below the lower front cross member of the overhead guard. Major components are constantly monitored, malfunctions are signalled through a central display, driver is able to concentrate fully on the job in hand, in the safe knowledge that all important truck functions are subject to permanent, automatic supervision.

## Smooth power steering

Hydrostatic power steering allows full steering lock to be attained even at standstill. Accurate manoeuvrability with minimum effort. Cab-mounted anti-kick valve. Heavy duty steer axle mounted to the chassis via spherelastic bushes allowing axle articulation over uneven ground. Steering lock stops preventing cylinder overstroke.

## Safety

The protective overhead guard forms a strong and completely enclosed protective zone providing optimum safety and protection for the operator. The top mounted tilt cylinders provide smooth control of the tilt movements for excellent load stability in all application. This unique design also enables slimmer mast profiles to be fitted for outstanding visibility.

## Performance

One would expect a high performance truck to have a high performance traction system - and that is exactly what the Hylift compact drive axle and lift system delivers. Powerful motors and intelligent electronic control form an impressive power pack to deliver the highest level of productivity.

## Reliability

An electric forklift truck depends on reliable electronic systems. Hylift electronic control provides a high level of reliability because of its redundant monitoring system and the sealed aluminum housing which provides total protection from the ingress of dust.



## High-tech diesel engine

Cummins 6-cylinder diesel engine of 6.7 litres cubic capacity, equipped with turbocharger. Max output 172 kW at 2300 rpm. This modern propulsion unit is notable for particularly smooth running with low noise emissions and gas emission conform to EUR Tier 3a standard.

## Powerful brakes/Inching control function

Oil-actuated, hub-mounted wet disc brake units. Fail-safe oil-actuated brake system. Input shaft, disc mounted hand brake unit. Foot brake application by applied pressure to the centralised brake plate. Parking brake application electrical switch situated on the operator's console. Inching function is controlled by pedal.

## Stable, robust chassis

Monocoque fabricated steel plate chassis provides high strength to weight ratio and full protection to components. Sound deadening material on all inside surfaces. Full underbody covers, standard.



## Innovative lift mast

The design of the ultra-wide clearview lift mast qualifies as revolutionary: in contrast to established fork truck design principles, the inner mast is pivoted on the chassis whereas it is the outer mast that telescopes. Increased forward visibility. Mast construction extremely stiff in torsion, guaranteeing perfect load elevation up to maximum lift.

## The automatic transmission and drive axle

Torque converter-coupled automatic three-speed power shift transmission. Reversing interlock. Speed-controlled downshift protection. For accurate lower-speed handling and positioning, a brake plate pressure switch is coupled to the accelerator pedal to enable transmission disconnect whilst maintaining high engine speed for hydraulic operations. Wide-track front drive axle incorporates two-stage reduction gearboxes. High-quality steel plate construction optimised for heavy-load handling.

## Comfort

Consistently high levels of performance and efficiency for extended periods are only possible if the operator feels comfortable. The ergonomic layout of all the controls, the adjustability of the armrest and seat, and twin accelerator pedals provide the best possible intuitive interface between the truck and the operator.

## Service

The unique Hylift energy management system ensures intelligent and economical consumption of energy. Energy can also be obtained quickly utilising simple and rapid changing methods. MD3 HD control system makes diagnose much easy.

## Technical Data

Characteristics	1.1	Manufacturer	
	1.2	Model designation	
	1.3	Power unit: battery, diesel, LP gas, mains power	
	1.4	Operation	
	1.5	Load capacity	Q(t)
	1.6	Load centre	c(mm)
	1.8	Load centre distance	x(mm)
	1.9	Wheelbase	y(mm)
Weights	2.1	Service weight	kg
	2.2	Axle load with load, front/rear	kg
	2.3	Axle load without load, front/rear	kg
Tyres	3.1	Tyres, front/rear (SE = superelastic, P = pneumatic)	
	3.2	Tyre size, front	
	3.3	Tyre size, rear	
	3.5	Wheels, number, front/rear (X=driven)	
	3.6	Track width, front/rear	b10/b11mm
	Dimensions	4.1	Mast /fork carriage/truck tilt, forward/backward
4.2		Height of mast, lowered	h1(mm)
4.4		Lift	h3(mm)
4.5		Height of mast, extended	h4(mm)
4.7		Height of overhead guard (cabin)	h5(mm)
4.8		Height, operator's seat/stand-on platform	h6(mm)
4.12		Towing coupling height	h7(mm)
4.15		Twistlock height lowered	h13(mm)
4.19		Overall length	l1(mm)
4.20		Length to fork face	l2(mm)
4.21		Overall width	b1/b2(mm)
4.24		Width of attachment 20' /40'	s/e/l(mm)
4.31		Ground clearance, mast	m1(mm)
4.32		Ground clearance, center of wheelbase	m2(mm)
4.33		Aisle width with 20' container	Ast(mm)
4.34		Aisle width with 40' container	Ast(mm)
4.35	Turning radius	Wa(mm)	
4.36	Minimum pivoting point distance	b13(mm)	
Performances	5.1	Travel speed, with/without load	km/h
	5.2	Lift speed, with/without load	m/s
	5.3	Lowering speed, with/without load	m/s
	5.5	Tractive force, with/without load	kN
	5.7	Climbing ability, with/without load	%
	5.9	Acceleration time, with/without load	s
	5.10	Service brake	
Drive	6.4	Battery voltage, rated capacity	V / Ah
	7.1	Engine manufacturer/type	
	7.2	Engine performance according to ISO 1585	kW
	7.3	Rated speed	1/min
	7.4	Number of cylinders/displacement	cm <sup>3</sup>
	7.5	Fuel consumption - average	l/h
Others	8.1	Type of drive control	
	8.2	Working pressure for attachments	bar
	8.4	Noise level, at operator's ear, overhead guard/cab	dB(A)
	8.5	Trailer coupling, design/type DIN	$\varnothing$ (mm)

Figures for standard version may vary when optional equipment is fitted.



## Introduction

The Hylift DG90 dedicated Empty Container Handlers are capable of stacking all types of standard ISO empty containers, 6-8 high.

## The major characteristics at a glance

9000 kg load capacity (refer to table).

Ultra-wide innovative design, clear view lift mast combining excellent rigidity with optimum visibility.

Ergonomically optimised elevated driver's cab providing excellent forward visibility and optimised around-truck free-sight.

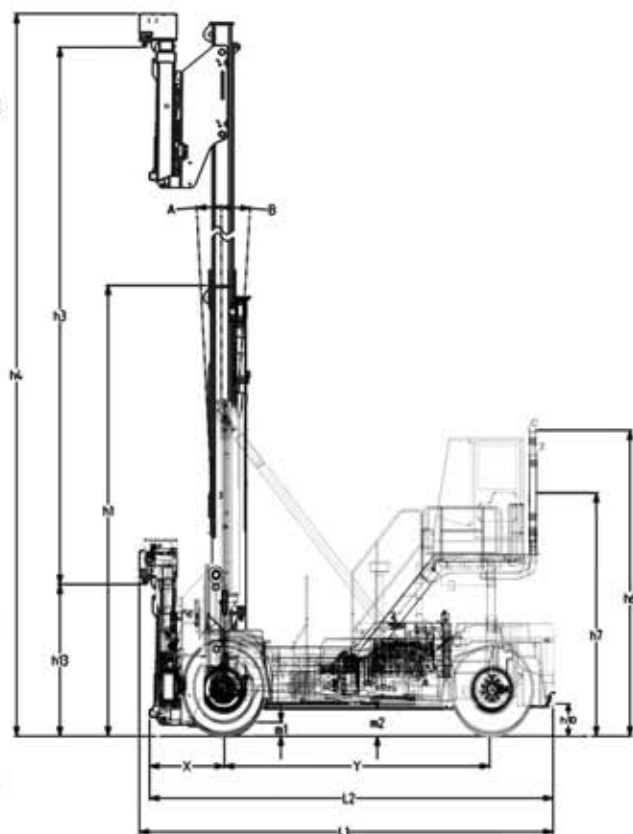
Powerful, modern diesel engine combining low fuel consumption with excellent exhaust emission characteristics fully satisfying the latest STAGE 3a standards.

Automatic three-speed transmission incorporating a reverse interlock, enabling safe, efficient working and providing high rates of acceleration and slowdown.

Engine speed-up design affording power-on-demand and anti-stall feature.

Robust wide-track drive axle with zero-maintenance wet disc brakes.

Heavy-duty steer axle.



## Safety

Transmission – integrated forward/reverse interlock and downshift protection.

Engine – neutral start transmission safety interlock.

Safe load lowering valve.

Steering controlled by priority valve.

High-mounted cabin – excellent all-round visibility.

Low noise emissions.

MD3 HD data display

Horn

DG90/7					
8' container		8'6" container		9'6" container	
Q	Height (mm)	Q	Height (mm)	Q	Height (mm)
9 t	17066	9 t	18137		
9 t	14628	9 t	15546	9 t	17376
9 t	12190	9 t	12955	9 t	14480
9 t	9752	9 t	10364	9 t	11584
9 t	7314	9 t	7773	9 t	8688
9 t	4876	9 t	5182	9 t	5792
9 t	2438	9 t	2591	9 t	2896

to C= 1295 mm