

DALIAN
FORKLIFT TRUCK
1-45ton full range of forklift



Heavy container forklift



Empty container forklift



10-45ton diesel forklift



5-10ton diesel forklift



1-3.5ton counter balance
internal combustion forklift



Container reach-stacker



1-3.5ton electric forklift



Electric reach truck



Electric tractor



Internal combustion tractor

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Container handling vehicles

FD420/450 (3.4.5 layer box) type container reach stacker with introduction of imported technology, main components are imported with latest product assembly configuration, widely used in ports, railway container depot, etc., It is widely used for container loading and unloading, it is ideal operating port used vehicles. The vehicle performance is advanced, safe and reliable, beautiful and comfortable, flexible, high work efficiency, occupies very important position in the container operations and now the container reach stacker already enter into national famous brand to replace imported vehicle.

■ FD420/450 type (3.4.5) container reach stacker adopt ergonomic engineering design.

■ Full automatic electric control shift system.

■ Using heavy duty axles multi-disc wet braking.

■ Configure security monitoring system, the function of spreader are controlled by a display device, to avoid the happening of the accident, The engine can start only under neutral condition. Twist lock and hoisting control handle is equipped with safety lock to prevent wrong operation. Equipped with speed lowering limit in the lifting oil cylinder , to ensure safe speed down of operating. Brake system installed friction disc wear alarm device.

■ Install " ELME " spreader which come from professional spreader manufacturers. With functions of left and right side shift function. Have function of automatic adjustment to prevent the container cratch or damage. Also

FD 180/260 type of empty container handler is latest product which is independent research and development of new products,using the current international advanced power configuration, easy operation, high reliability.

■ Install imported engine, with characteristic of a low speed ,high torque, low fuel consumption, easy to start, low noise , accord with the euro Ⅱ standards. Imported fully automatic electric control shift gearbox, APC122 CPU automatically adjusts gear and monitor. Imported fully enclosed wet-type brake, heavy duty drive axle, this axle with high intensity, large carrying capacity,full hydraulic braking system, equipped with strong cooling system, safe and reliable. Imported attachment, advanced structure, good view, convenient for maintenance, with double safety protection service of mechanical and electrical.

■ Adopt high qualified steel welding CJ type mast, high intensity, wide view, strong rigidity.

■ Mast and attachment adopt the integrated joystick, simple and convenient, joystick position according to the principle of ergonomics design, can significantly reduce the manipulation strength.

■ Spacious and comfortable cabin with wide vision, equipped with air-conditioning system, provides the comfortable driving environment.

■ Hydraulic system equipped with strong cooling system, which can adapt the high strength work demand, full hydraulic power steering with load sensor.

■ Electrical system has safety protection and fault display devices, electrical components adopt centralized arrangement,neat and clear, easy to maintain.

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CRS450Z5 container reach stacker is particularly designed for handling 20 ft and 40 ft ISO containers, mainly used and operated for stacking and handling container in harbors and container depots. Compared with forklifts, with reliable and stable performance and low tire pressure, high stacking ability and high utilization rate, it is easy to operate and flexible in maneuver. Especially suitable for small and medium-sized ports, railway container handling station and highway container handling station, also can be used for large container terminal as an auxiliary machine.

With retractable and rotatable spreader.CRS450Z5 container reach stacker is used for 20 ft and 20 ft ISO container handling. When in operation, it does not have to vertically toward containers, and can be used to lift containers with small angle. When lifting, spreader can be both shifted to right and left 800mm to locate the right position of containers and this greatly enhances the working efficiency. This type of container reach stacker can also be used and operated on poor condition of freight station. Lifting of container by the stacker can be effected by lifting telescopic boom. When the boom and elevation cylinders extended, lift speed is faster, descending speed will be faster when the boom is locked. When in operation, the stacker can move smoothly with goods by adjusting lifting height and retracting the spreader. Therefore, using such equipment can largely increase operation efficiency. Imported diesel engine have performance as low fuel consumption, fit for operation in all weathers, low speed with powerful torque, enhancing maximum performance power, air inlet device with whirlwind like air filters, eliminating tiny substance in air, making the exact components work formally and enhancing the service life of the equipment.

The reach stacker use imported gear box with fixed axles gear shift, which have 4 forward and 4 backward speeds. There is hydraulic pump located in the uplink of gear box. The gear box controlled

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Model			FD180		FD260		FD420			CRS450	
Device code			F-AK5	F-CCK5	F-BK7	F-CCK7	F-CZ3	F-CZ4	F-CZ5	Z-CCZ5	Z-DCZ5
Load Capacity		kg	7000		9000		45000				
Load center distance		mm	1220								
Overall height with mast raised	A	mm	15870		21800		11175	14025	17025	-	
Max. stacking height	B	mm	15300		21100		6650	9550	12550	15100	
Attachment width(retracting/extending)	C	mm	6038/12165				6060/12175				
Height with mast lowered	D	mm	9370		12400		7850	9300	10800	4650(Boom)	
Overall length	E	mm	6606		6996		10885			11275	
Height to top of overhead guard	F	mm	4450		5100		5000			3700	
Overall width	G	mm	3504		4028		4130			4130	
Wheelbase	H	mm	4200		4500		5500			6000	
Min.ground clearance under mast	I	mm	245		220		380			360	
Min.turning radius	J	mm	6000		6300		7800			8200	
Min. right angle aisle width	K	mm	7800		8200		8600			9000	
Mast tilt angle,forwards/backwards	L	°	3/3		2/4		3/10	3/6	3/3	60 (The rotation angle of boom)	
Mast			Duplex standard mast(CJ)								
Power source			Diesel								
Lifting speed(with/without load)		mm/s	400/≤600 (450/≥300)		550/≤600 (580/≥300)		250/≤600 (260/≥300)			240/≤600 (400/≥300)	
Travel speed (with/without load)		km/h	24/26		31/33		25/28			25/28	
Gradeability(with/without load)		%	17.5/20				15/20			15/30	
Tyres			12.00-20-18PR		14.00-24-24PR		18.00-25-40PR				
Battery voltage/capacity		v/Ah	2×12/150				2×12/200				
Engine			TAD720VE	QSC8.3	TAD720VE	QSC8.3	QSM11			QSM11	TAD952VE
Gear box			DANA13.7HR32352				DANA14.7HR36432				
Type of shift form			Electric control3/3				Electric control4/4				
Fuel tank capacity		L	350		700		550			750	
Service weight		kg	30000		44000		62000	66000	70000	73000	

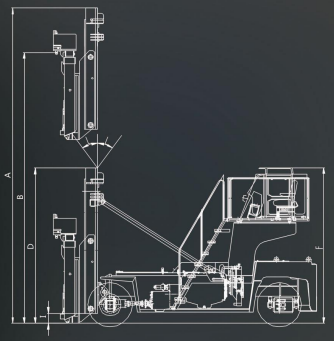
Model	Device code	Engine model	Manufacturer	Main parameter			Fuel consumption (g/kwh)	Memo
				Rated power(kw/rpm)	Max torque(nm/rpm)	Cylinder bore(mm)/ Number of cylinders(pcs)/ Displacement(mm/L)		
FD180	F-AK5	TAD720VE	Volvo	174/2300	854/1400	108/6/7.15	225	
	F-CCK5	QSC8.3	Cummins	179/2200	1085/1500	114/6/8.3	220	
FD260	F-BK7	TAD720VE	Volvo	174/2300	854/1400	108/6/7.15	225	
	F-CCK7	QSC8.3	Cummins	179/2200	1085/1500	114/6/8.3	220	
FD420	F-CZ3	QSM11	Cummins	250/2100	1674/1400	125/6/10.8	220	
	F-CZ4	QSM11	Cummins	250/2100	1674/1400	125/6/10.8	220	
	F-CZ5	QSM11	Cummins	250/2100	1674/1400	125/6/10.8	220	
CRS450	Z-CCZ5	QSM11	Cummins	250/2100	1674/1400	125/6/10.8	220	
	Z-DCZ5	TAD952VE	Volvo	242/2100	1700/1300	120/6/9.36	225	

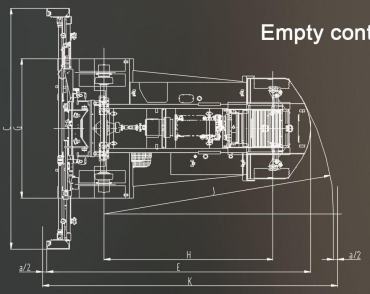
Container handling vehicles



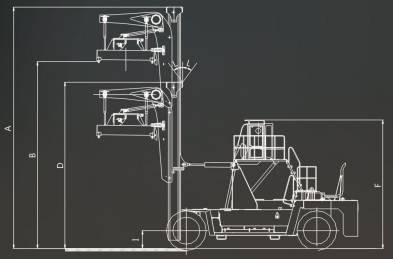
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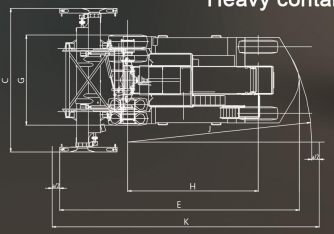
Dimension
Empty container forklift handling





Dimension
Heavy container forklift handling







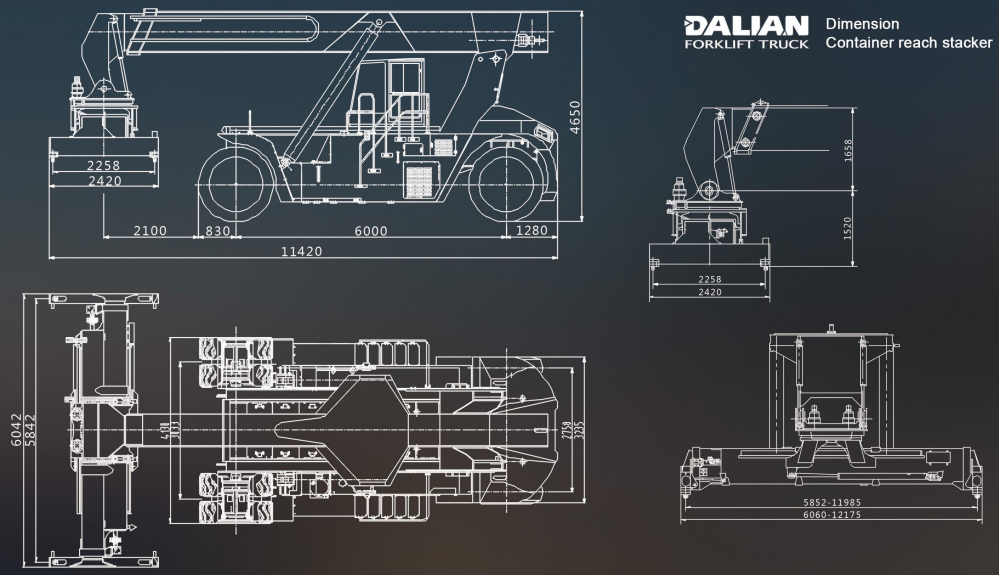
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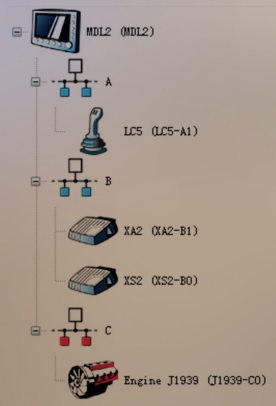
搬运作业解决方案

Container forklift handling solution

DALIAN FORKLIFT TRUCK Dimension Container reach stacker



Reach stacker control system and display system





Dalian Forklift welcome screen



Lifting height, Boom extended distance and rotation angle, load capacity, etc..



Water temperature、electricity voltage、engine rotating speed, etc..



Boom extended & retractable, telescopic, etc. hydraulic system oil pressure



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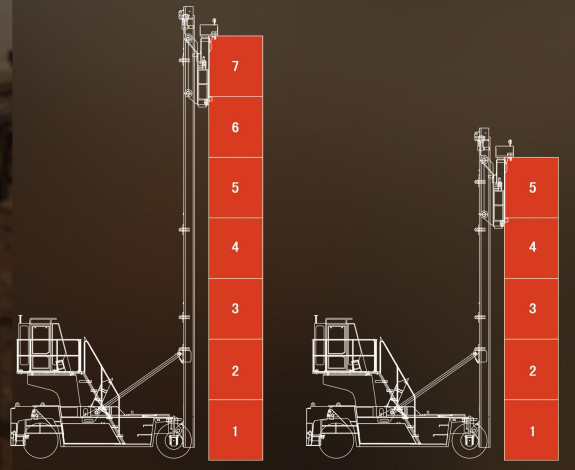


All kinds of protection device setting procidures, such as: anti-tilting、anti-overloading

The most updated MDL2 controller. Adopt 1939 general wire controller in the middle of engine and main module.
Adopt CAN-BUS general wire controller in the middle of CAN handle and main module.
There are many extended modules, in the middle of main module, which are adopted CAN-BUS general wire controller.

Load characteristic of Container forklift

Empty container forklift handling/Heavy container forklift handling
Container height 9'6"（2900mm）



Container reach stacker
Container height 9'6"
Container height inside the bracket 8'6"

