

## ENGINE

- Cummins QSB 6.7 - 220 diesel engine
- Equipped with vehicle management system in the event of high water temperature or low oil pressure.
- Heavy duty air cleaner with restriction indicator and high mount pre cleaner on rear of cab.

## DRIVE LINE

- Transmission and control:
- Dana TE17 electronic powershift transmission, 3 speeds forward and reverse.
  - T-CON Dana fully automatic shift control, providing diagnostics and protection for the transmission.
- Axles and brakes:
- Kessler HD 4000 mm wide planetary drive axle with oil cooled wet disc service brakes and input dry disc brake spring applied hydraulic release for emergency and parking.
  - Optional 4500 mm wide planetary drive axle.
  - Omega heavy duty steer axle.

## ELECTRICAL SYSTEM

- 24 volt electrical system with 140 amp alternator.
- 2 x 12 volt maintenance free batteries.
- Electrical Compartment.
- Audible reverse alarm.
- Lights, 2 x head, 2 x rear, 2 x tail, 2 x stop, and turn.
- Override for lift, lower and twistlock protection.
- 1x Safety strobe light

## HYDRAULIC SYSTEM

- Large 500 litre reservoir.
- Separate 10 micron filtration for main hydraulics and wet disc brakes.
- Gear type pumps.

## OPTIONS

- Air conditioning.
- Heater demister.
- Rotating beacon.
- Observers' seat.
- Air suspension seat.
- Omega Data monitoring system,
- HID/LED lights.

## CAB AND CONTROLS

- Warning lights, engine temp, battery charge, engine oil pressure, transmission oil temp, park brake on, service brake pressure.
- Joystick control of lift, tilt, side shift, 20/40, twistlocks.
- Steering column adjustable for tilt and height.
- Lift and lower protection. Overlowering protection prevents slack chain and hoses. Lift lockout unless twistlocks are fully latched/unlatched.
- Luxury suspension seat.
- Tinted, safety glass.
- Front, rear and top wipers and washers.
- Internal blind for roof.

## SIDE LIFT FRAME ATTACHMENTS

- Attachment options:
- 20/40 Telescopic single lift, twistlock or shooting pin.
  - 20/40 Telescopic twin lift, hook or twistlock type.
  - 20 and 40 fi xed single and twin lift.
  - Powered slope pile.

## STANDARD FEATURES

- Capacity up to 10,000 kgs at 1220 mm.
- Ability to handle overwidth containers.
- Side shift +/-600.
- Automatic height adjustment.
- Mechanical slope piling.

## OMEGA ECH STACKING CAPABILITIES

Omega 5/6/7/8 ECH stacking capability with Single or Twin pick, Side Lift Frames.

SLF	Twin Lift		Single Lift	
Height	8'6"	9'6"	8'6"	9'6"
Length	20/40	20/40	20/40	20/40
5ECH	7	6	6	5
6ECH	7	6	6	5
7ECH	8	7	7	6
8ECH	9	8	8	7



## Empty Container Handlers

8.5t - 10t @ 1200mm LC

## Features

- Cummins QSB 6.7 - 220 TIER III
- Dana TE17 electronic transmission
- 4000mm and 4500mm wheelbase
- Up to 10 tonne capacity
- 4000 mm & 4500 mm wide drive axle
- Engine protection system
- Wet disc brakes
- Lift and lower protection
- Single or twin lift SLF
- 12:00 and 14:00 tyres
- High stability factor
- Canbus control

## FOR FURTHER INFORMATION CONTACT

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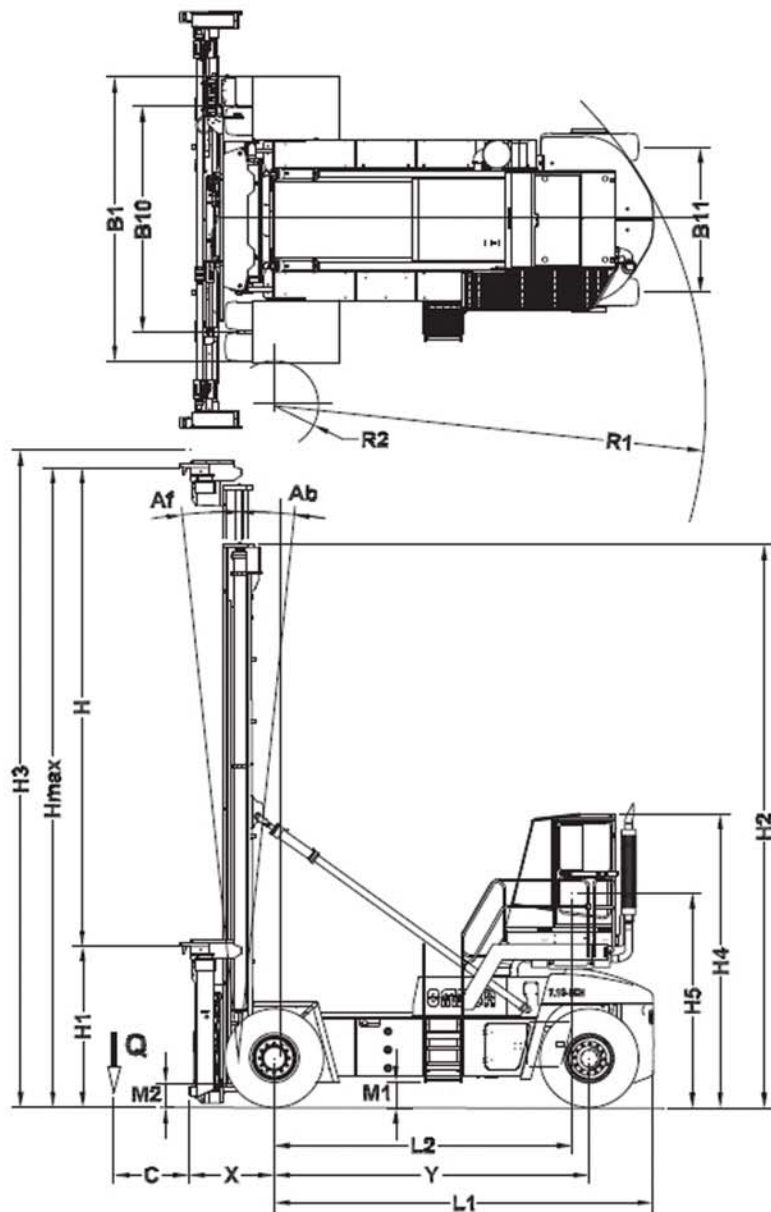
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Designed and manufactured in Australia



1 MANUFACTURER				ECH				1				
Specifications	2	MODEL	REF	Designation	Units	5 ECH-8.5	6 ECH-10	7 ECH-10	8 ECH-9	2		
	3	LOAD CAPACITY	Q	Rated Load	kg	8 500	10 000	10 000	9 000	3		
	4	LOAD RATING	C	distance	mm	1200				4		
	5	OPERATOR TYPE		stand on / driver seated		Seated				5		
	6	UPRIGHT	H	Standard lift height	mm	13 800		16 400	19 200	6		
	7		H1	Minimum pick height	mm	2300				7		
	8	H	Maximum height under twistlocks	mm	16 100		18 700	21 500	8			
	9	TILT OF UPRIGHT		Forward / Backward	deg	3 / 6				9		
	Dimensions	10	OVERALL DIMENSIONS	L1+x	Overall length of load face	mm	6 117	6 723		6 778	10	
11		B1		Width	mm	3 989	3 973			4 609	11	
12		H2		Overall height lowered	mm	9 098		10 398		11 905	12	
13		H3		Overall height raised	mm	15 998				18 598	21 505	13
14		H4		Height of cabin	mm	4 014	4 012		4 073		14	
15		H5	Height of seat	mm	2 821	2 819		2 880		15		
16		TURNING RADIUS	R1	Empty / Laden external	mm	5 630		6 235		16		
17			R2	Empty / Laden internal	mm	678	685		367	17		
18		LOAD CENTRE	X	drive axle to fork face	mm	1 144	1314		1 260	18		
19	90° STACKING AISLE	A1	Aisle for containers 20'/40'	mm	11100 / 14710				19			
Performance	20	SPEEDS	travel - unladen	km/h	20				20			
	21		lifting - laden/unladen	m/s	0.5/06	0.6/0.7			21			
	22		lowering - laden/unladen	m/s	0.55/0.53				22			
	23	MAX. DRAWBAR PULL	Laden	kN	113	182			23			
	24	GRADEABILITY 1.6KM/H	Laden	%	27	37			24			
25	MAX. GRADEABILITY	Laden	%	22	48			25				
Weight	26	SERVICE WEIGHT	including battery (line 39)	kg	35522	39230	41590	39650	26			
	27	AXLE LOADING	Laden (front/rear)	kg	35 741/8 281	49500 / 9730	42270 / 9320	39926/8724	27			
	28		Unladen (front/rear)	kg	22 261/13 261	24120 / 15110	26890 / 14700	26 061/13 589	28			
Chassis	29	TYRE TYPE	P=Pneumatic C=Cushioned	Front/rear	P/P				29			
	30	WHEELS	Number of wheels	Front/rear	4 / 2				30			
	31	TYRES	Size	Front	14.00-24				31			
	32		Size	Rear	14.00-24				32			
	33	WHEELBASE	y	mm	4 545				33			
	34	TREAD	B10/B11	Centre lines tyres front/rear	mm	3296 / 2148	3280 / 2152	3784 / 2080		34		
	35	GROUND CLEARANCE	M1	Laden (minimum)	mm	263			351	35		
	36		M2	Laden middle of W'base	mm	290			375	36		
37	SERVICE BRAKE		Braked wheels	Type	Wet disc				37			
38	PARKING BRAKE		Braked wheels	Type	Spring disc				38			
Driveline	39	BATTERY	Volts/ampere Hrs (max capacity)	V / Ah	24/475				39			
	40	FUEL TANK	Capacity	L	550				40			
	41	HYDRAULIC TANK	Capacity	L	500				41			
	42	I.C. ENGINE		Manufacturer - Cummins	type	QSB 6.7-220				42		
	43			Rated output SAE J1349	kW	129	164			43		
	44			Rated speed SAE J1349	RPM	2500	2200			44		
	45			No. Of cylinders/displacement	cm <sup>3</sup>	6/6700				45		
	46		Max Torque	Nm/RPM	800@1500	949@1500			46			
47	TRANSMISSION		DANA Clark	Speeds	TE10 (3F/3R)	TE17 (3F/3R)		47				
48	OPERATION PRESSURE		For attachments (adjustable)	Bar	195				48			