

## ENGINE

- Cummins QSM11-C335 electronic 6 cylinder low emission diesel.
- Tier 3 emissions compliant.
- Heavy duty air cleaner with restriction indicator and safety element.
- Engine protection system monitors oil pressure, water level and temperature.

## TRANSMISSION AND DRIVE AXLE

- Dana (Clark) TE27 electronic powershift transmission.
- 4 speeds forward and reverse.
- T-con fully automatic electronic shift control provides forward/reverse interlock and downshift protection.
- Planetary style, wide drive axle with integral oil cooled wet disc brakes.
- Sealed 140 amp alternator, high charge at low RPM.

## BRAKE SYSTEM

- Fully hydraulic operation.
- Oil cooled, wet disc service brakes.
- Brake system oil constantly cooled and filtered.
- Accumulator provides emergency applications in the event of engine failure.
- Fail safe park brake system - spring applied, oil pressure released - applied through dry brake disc acting on drive axle input.

## STEERING SYSTEM

- Hydrostatic system provides effortless, reliable control - 4.6 steering wheel revolutions from lock to lock.
- Heavy duty, welded beam design steer axle protects steer cylinder.
- Single, transverse mounted steer cylinder acting through fixed links - no adjustment required.
- Centralised lubrication of oscillation pins.
- One piece rim clamping flange provides wheel nut and stud protection.

## HYDRAULIC SYSTEM

- Two tandem gear pumps
- 10 micron filtration on return
- Lowering control valves provide controlled lowering under all conditions.
- Accumulator in lift circuit provides shock load protection.
- Twin hose overmast improves reliability.

## ELECTRICAL SYSTEM

- 24 V system supplied by 2 x 12 V 300 Ah batteries.
- Clip in relays for fast field replacement.
- Push button reset, circuit breaker protection.
- Harness in protective conduit with colour and numeric code for easy circuit identification.
- Back-up alarm
- Full light kit including stop, tail and turn indicators.

## OPERATORS CABIN

- Spacious, rear mounted cab designed for low noise.
- Tinted glass provides superior visibility.
- Fully adjustable steer column and ergonomically arranged controls and instruments.
- Joystick provides control for lift/tilt, side shift, and horn trigger on one lever.
- Audio-visual warning system.
- Luxury suspension seat with retractable seat belt.
- Front, rear and roof wipers and washers.
- Mirror kits.
- Integrated air conditioning (optional).

## SERVICEABILITY

- Power module contains radiator, engine, transmission and hydraulics mounted on a skid for easy removal.
- Service compartments contain batteries.
- Spin on filter assemblies.
- Heavy duty, dual element air cleaner with cyclonic pre-cleaner.
- Gas strut assisted hoods and bonnets.
- Quick detach panel assemblies.
- Centralised lubrication system on mast and steer axle.

## INTEGRAL GANTRIES

- Half height or full height.
  - Automatic mechanical pile slope.
  - Optional powered pile slope.
- ## 20'- 40' TOP AND BOTTOM LIFT ATTACHMENTS
- Floating twistlocks.
  - Electrical and mechanical twistlock indicators.
  - Hydraulic extendible and retractable to handle both 20' and 40' containers.
  - Automatic twistlock operation.
  - Twin cylinders provide slew and outreach and single cylinder for side shaft.
  - Optional 30' or 35' stops.
  - Optional chains for bottom lift capability.
  - Optional integral intermodal top/bottom lift frame.
  - Optional Integral Flexipick 20/40 Overheight Half Height attachment.

## SAFETY FEATURES

- Lift cutout in event twistlocks not fully locked or unlocked.
- Lower cutout reduces stress on attachment and mast.
- Stability monitor indicates stable retract, back tilt and lift height condition.
- Speed limited when laden.

## OPTIONAL EQUIPMENT

- Air conditioning
- Remote lift chain lubrication system
- Weight gauge
- Observers' seat
- ODMS system
- Elevated cab



## DEDICATED CONTAINER HANDLERS - E SERIES

32t - 40t @ 1650mm LC

## Features

- Cummins QSM11 electronic engine
- Dana (Clark) electronic TE27 transmission
- T-CON electronic transmission control
- Wet disk brakes, oil cooled
- Full enclosed cabin
- Engine protection system
- Joystick servo controls
- Centralised lubrication
- Outstanding visibility
- Safety interlocks
- Lift circuit accumulator
- Omega Data Management System (optional)

Designed and manufactured in Australia

## FOR FURTHER INFORMATION CONTACT

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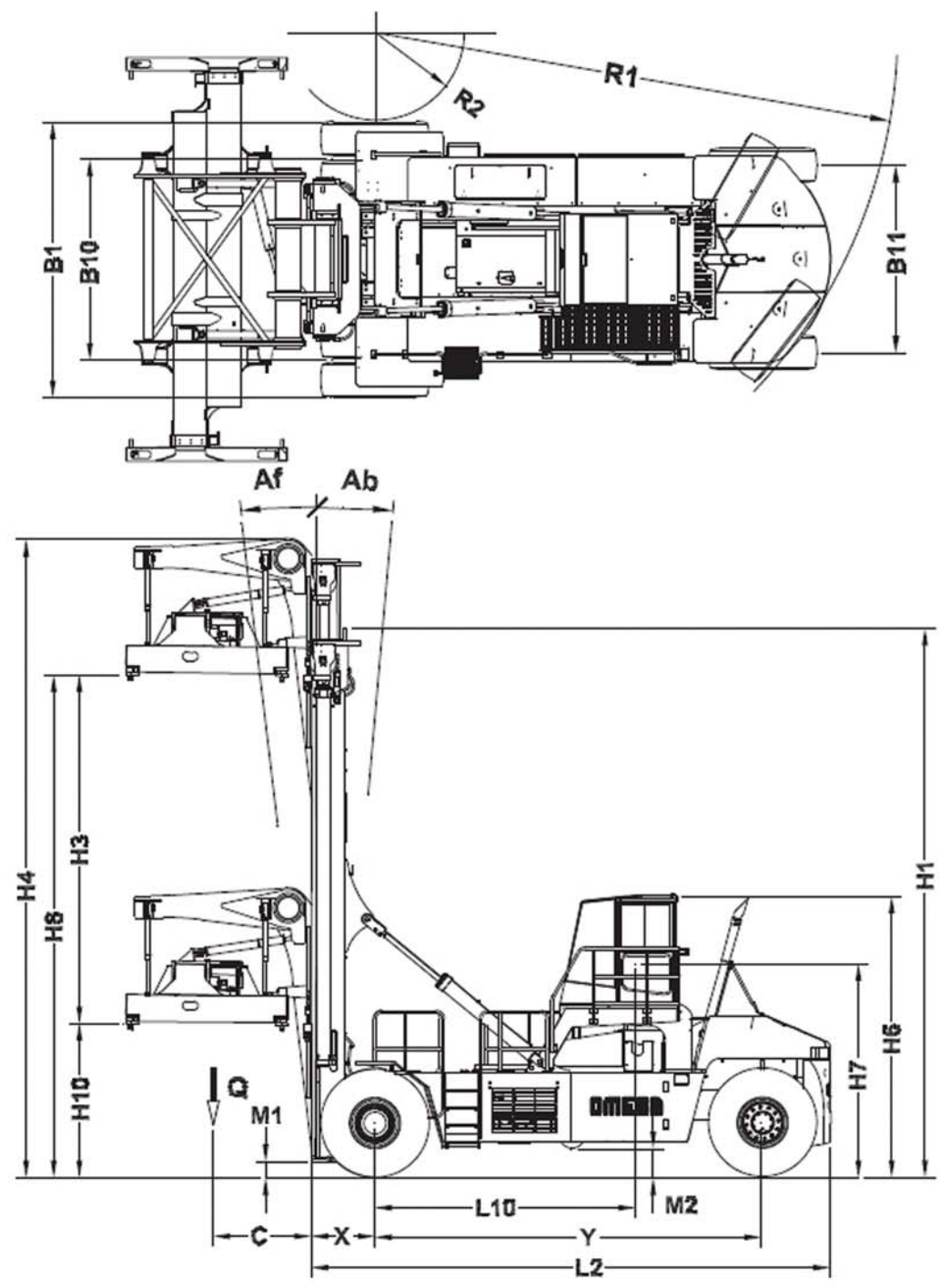
W [www.omega-heavy-trucks.com](http://www.omega-heavy-trucks.com)

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Note: Dimensions and weights shown are for units equipped with full height intergral gantry and attachment. Omega container handlers are designed and manufactured to be operated in accordance with AS2359, AS4972 AND ISO10525 (elevated load)

GANTRY TYPE	MAST LIFT HEIGHT		CONTAINER STACKING		HEIGHT UNDER TWIST LOCKS		MAXIMUM OVERALL HEIGHT		EMPTY AND LADEN AXLE WEIGHT VARIATION FROM STANDARD (SEE LINES 28 & 29 ABOVE)			
	H3	QTY	CONTAINER HEIGHT	MIN	MAX	LOWERED	RAISED	Front		Rear		
	mm		mm	H10	H8	H1	H4					
FULL HEIGHT	7500	3	10' 0"	2300	9800	6965	11840	DEDUCT	1190	ADD	100	
	10000	4	9' 6"	2300	12300	8215	18340	ADD	0	ADD	0	
	13000	5	9' 6"	2300	15300	9715	17340	ADD	1420	DEDUCT	130	
HALF HEIGHT	7500	3	8' 6"	1160	8660	6965	10552	DEDUCT	2420	ADD	320	
	10000	4	8' 6"	1160	11160	8215	13052	DEDUCT	1250	ADD	220	
	13000	5	8' 6"	1160	14160	9715	16052	ADD	170	ADD	110	



Spec.	MANUFACTURER				OMEGA DEDICATED CONTAINER HANDLER				
	MODEL	REF	Designation	Units	42E	44E	48E	50E	54E
1	MANUFACTURER								
2	MODEL	REF	Designation	Units	42E	44E	48E	50E	54E
3	LOAD CAPACITY	Q	Rated Load	kg	32 000	34 000	35 000	36 000	40 000
4	LOAD CENTRE	C	Retracted / Extended	mm	1460/1690				
5	OPERATOR TYPE		Stand on / driver seated		Seated				
6	UPRIGHT	H3	Standard lift height	mm	10 000				
7	UPRIGHT	H8	Lift height under twistlocks	mm	12 300				
8	ATTACHMENT		Type		Telescopic 20'/40' with hyd. slew ±5.8°, reach 230 mm, sideshift ±400mm, mech. pile slope ±6°				
9	TILT OF UPRIGHT	Af/Ab	Forward / Backward	deg	4 / 6		2 / 6		
10	OVERALL DIMENSIONS	L2	Length to load face	mm	7060		7760		
11		B1	Width	mm	4118				
12		H1	Overall height lowered	mm	8230				
13		H4	Overall height raised (upright only)	mm	14355 (13065)				
14		H6	Height of cabin	mm	4266				
15		H7	Height of seat	mm	2984				
16		L10	Distance, seat	mm	3081		3781		
17	TURNING RADIUS	R1	Empty / Laden external	mm	7168		8161		
18		R2	Empty / Laden internal	mm	961		1529		
19	LOAD FACE DISTANCE	X	Centre of drive axle to load face	mm	933				
20	AISLE WIDTH 90°	Ast	Aisle for containers 20'/40'	mm	11791/14947		12815/15156		
21	SPEEDS		travel - unladen	km/h	20				
22			lifting - laden/unladen	m/s	0.25/0.28				
23			lowering - laden/unladen	m/s	0.4/0.3				
24	MAX. DRAWBAR PULL		Laden	kN	368				
25	MAX. GRADEABILITY 1.6KM/H		Laden	%	23				
26	MAX. GRADEABILITY		Laden	%	30				
27	SERVICE WEIGHT		including battery (line 45)	kg	69988	72850	73570	69188	71140
28	AXLE LOADING		Laden (front/rear)	kg	90857/11131	93800/11688	95660 / 12910	93876/11312	99340 / 11800
29			Unladen (front/rear)	kg	43773/26215	43773/27715	44080 / 29490	42955/26233	43040 / 28100
30	TYRE TYPE		P=Pneumatic C=Cushioned	Front/rear	P/P				
31	WHEELS		Number of wheels	Front/rear	4/2				
32	TYRES		Size	Front	1800-25/40PR				
33			Size	Rear	1800-25/40PR				
34	WHEELBASE	Y		mm	5100		5800		
35	TREAD	B10/B11	Centre lines tyres front/rear	mm	3025/2801				
36	GROUND CLEARANCE	M1	Laden (minimum)	mm	241				
37		M2	Laden middle of W'base	mm	436				
38	SERVICE BRAKE		Type - brake wheels		Wet disc brakes - driven wheels				
39	PARKING BRAKE		Type - brake wheels		Spring applied, hydraulic released - driven wheels				
40	BATTERY		Volts/ampere Hrs (max capacity)	V / Ah	24 / 180 / 1460				
41	FUEL TANK		Capacity	L	440		720		
42	HYDRAULIC TANK		Capacity	L	460		580		
43	I.C. ENGINE		Manufacturer - Cummins	type	QSM11 - C335				
44			Rated output SAE J1349	kW	250				
45			Rated speed SAE J1349	RPM	2100				
46			No. Of cylinders/displacement	cm³	6/10800				
47			Max Torque	Nm/RPM	1674 / 1400				
48	TRANSMISSION		DANA Clark	Type	TE27 4F/4R				
49	OPERATION PRESSURE		For attachments (adjustable)	Bar	195				
50	SOUND LEVEL		Average at driver's ear*	dB(A)	80				
51	TIP UP FACTOR		With rated load mast vertical		1.75	1.74	1.75	1.77	1.78
52	*AS3713-1985								

Due to a policy of ongoing improvement, all specifications and data are subject to change without notice.