

REACH STACKER



UP TO 99000 LBS. (50 TON) CAPACITY

SPECIFICATIONS



THD9900-R60-R68-R73-R77-R85-R90



Some product features described herein are optional. Please consult your dealer for specifications. Details of specifications and equipment are based on information available at time of printing and may change without notice.

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CLASS
5

INTERNAL COMBUSTION ENGINE PNEUMATIC TIRE

ToyotaForklift.com

REACH STACKER

CAPACITY UP TO 99000 LBS.		WHEELBASE 236 IN.	LOAD CENTER 78 IN.
INDUSTRIES			
 Intermodal/Port		 Shipping Containers	

STANDARD FEATURES

SAFETY		
- Electrical horn - Asbestos-free components - Neutral safety switch - Integrated overhead guard - Operator Restraint System (ORS) seat - Operator Presence Sensing System (OPSS)		
PERFORMANCE		
- CUMMINS® 10.8 liter, 6-cylinder Tier 3 diesel engine - Common rail electronic fuel injection system - Turbocharged & intercooled - Pivoting attachment with 4 ISO twistlocks - Extendable/retractable to 20' & 40' foot pick points - Automatic locking pendular floating twistlocks for handling 20' to 53' ISO containers - Large LED twistlock engagement indicator lights - Interlock safety system to ensure proper locking 31.5" of side shift each way - Mechanical pile slope (+/- 5.0°) - High-load composite side thrust bearings - Boom-mounted twistlock indicator light - Warning lights - battery charge - low engine oil pressure - low fuel level - water in fuel - high engine water temperature - clogging air filter - high transmission oil temperature - park & service brake - hydraulic filter - transmission filter - Dana model 36000 transmission with 4 forward & 4 reverse speeds 4-spool main control valve (lift, tilt, extend, rotate) - Charge air cooler with integral side by side radiator & transmission coolers - Independent brake & brake/declutch pedals 2-stage high-strength steel telescoping boom - Load-sensing, hydrostatic-powered steering - Upswept exhaust - Integrated multifunction display – includes - Hour meter display - Fuel gauge - Low fuel warning light - Engine oil pressure gauge - Battery charge warning light - Water temperature gauge - Transmission temperature gauge - Transmission, air & hydraulic filter indicator - Parking brake indicator - Oil pressure indicator - Service indicator - Engine water temperature indicator - Tachometer - Speedometer - Overload warning system		
DURABILITY		
- Force-cooled wet disc brakes - Planetary drive axle rated for durability in high-capacity, off-road applications - AxleTech® planetary drive axle rated for durability in high-capacity, off-road applications - Heavy-duty, welded steer axle - Rigidly constructed welded frame - Engine protection system - High-capacity cooling system - Open core radiator with fan shroud motor & alternator - Two industrial 8D 12V batteries - Two-stage heavy-duty air cleaner 12-Volt electrical system with 12V starter motor & alternator "Brake Saver" system prevents travel when parking brake is applied		
ERGONOMICS/CABIN		
- LED front headlights (2) - LED rear worklights (2) - LED spreader lights (4) - LED forward-facing fender-mounted worklights (2) - LED rear-facing counterweight-mounted worklights (2) - Stairway lighting - Strobe light - Forward & reverse travel alarms - Single multifunction joystick control handle - Key off headlights - Sideview mirrors (right & left sides) - Front indicator lights (2) - Rear combination lights (2) - Dashless cab design for improved visibility - Front & rear windshield washer/wiper - Top-mounted windshield wiper - Cabin doors with sliding windows - Individually controlled front/rear wipers - LED twistlock indicator lights inside cab - Tilt steering column - Left-hand directional shift lever - Adjustable air-ride seat with retractable seatbelts and adjustable armrests - Lockable doors with greaseable hinges - Cab heater & defroster - Tinted glass to minimize glare - Four turn lock-to-lock steering wheel - Emergency E-Stop in operator compartment - Dome light - Hydraulically powered traversing cab - Rear window escape hatch		
SERVICEABILITY		
- Electronic engine diagnostics with fault code history - Easy-access filters - Hydraulic multi-gauge - Externally serviceable brakes - Bolt-on tanks, counterweights, cab super-structure & stairways (removable) - External attachment spreader cylinders - Powertrain access panels with quick-release latches		

OPTIONAL EQUIPMENT

POWERTRAIN		
- Tier 3 diesel engine - Tier 4i (interim) diesel engine - Precleaner - Fitch fuel catalyst		
LOAD HANDLING		
- Mechanical pile slope - Hydraulic pile slope 4-point top pick ISO – twistlock - WTP/pin module - Trailer leg module (requires 275" wheelbase) - Rear container guides - Spreader beam slave attachments - Twistlock snapshot camera system - Container landing damage prevention system		
COLD START AID		
- Oil pan heater - Engine block heater - Hydraulic tank heater - Fuel heater (diesel) - Battery pad warmer - Coolant preheater		
CAB/CONTROLS		
- Open cab (less doors, glass, wipers, heat) - AM/FM/CD with 2 speakers - Auxiliary 12V power supply (pass through studs) - Air-conditioning - Top sunshade - Single joystick control - Orange seatbelt - Rearview mirror (center mount) - Auxiliary heater/front defrost 3-point seatbelt - Floor-mounted computer stand		
CHASSIS		
Counterweight towpin (recessed)		
INDICATORS & MISC.		
- Forward camera system visibility aid - Rear camera system visibility aid - Dual camera system visibility aid - Onboard load weighing system - Onboard load weighing system (with tape printer) - Fire extinguisher (5 lb. cab mount) - Fire extinguisher (20 lb. chassis mount) - Fire suppression system - Twin agent auto/manual - Rear object detection radar 4-corner object detection radar - Shock sensor warning system (w/logging) - Tire pressure monitoring system 2nd position keyswitch twistlock override - Ground-level E-Stop stations (1 each side) - Ground-level monitoring kit - French Canadian language		
ELECTRICAL		
- Jumpstart receptacle - Lockable battery isolator		
LIGHTS/ALARMS		
- Extra strobe (magnetic) - Forward travel alarm - HID worklight upgrade (fender & CW)		
SERVICE/MAINTENANCE		
- Central lubrication system - Auto-lubrication system (chassis) - Auto-lubrication system (spreader) - Engine oil purification system - Onboard battery trickle charger - Onboard stand-alone generator		
PAINT OPTIONS (REQUIRES PAINT CODE & MAP)		
- Custom color (single or dual) - Chevron striping on counterweight - Intermodal tire striping		
WHEELS & TIRES		
- Pneumatic - Foam-filled pneumatic tires - Solid pneumatic tires (lugged) - Solid pneumatic tires (smooth) - Extra tire/rim		

Please consult your Toyota Dealer for options availability for your truck configuration.

TRUCK SPECIFICATIONS

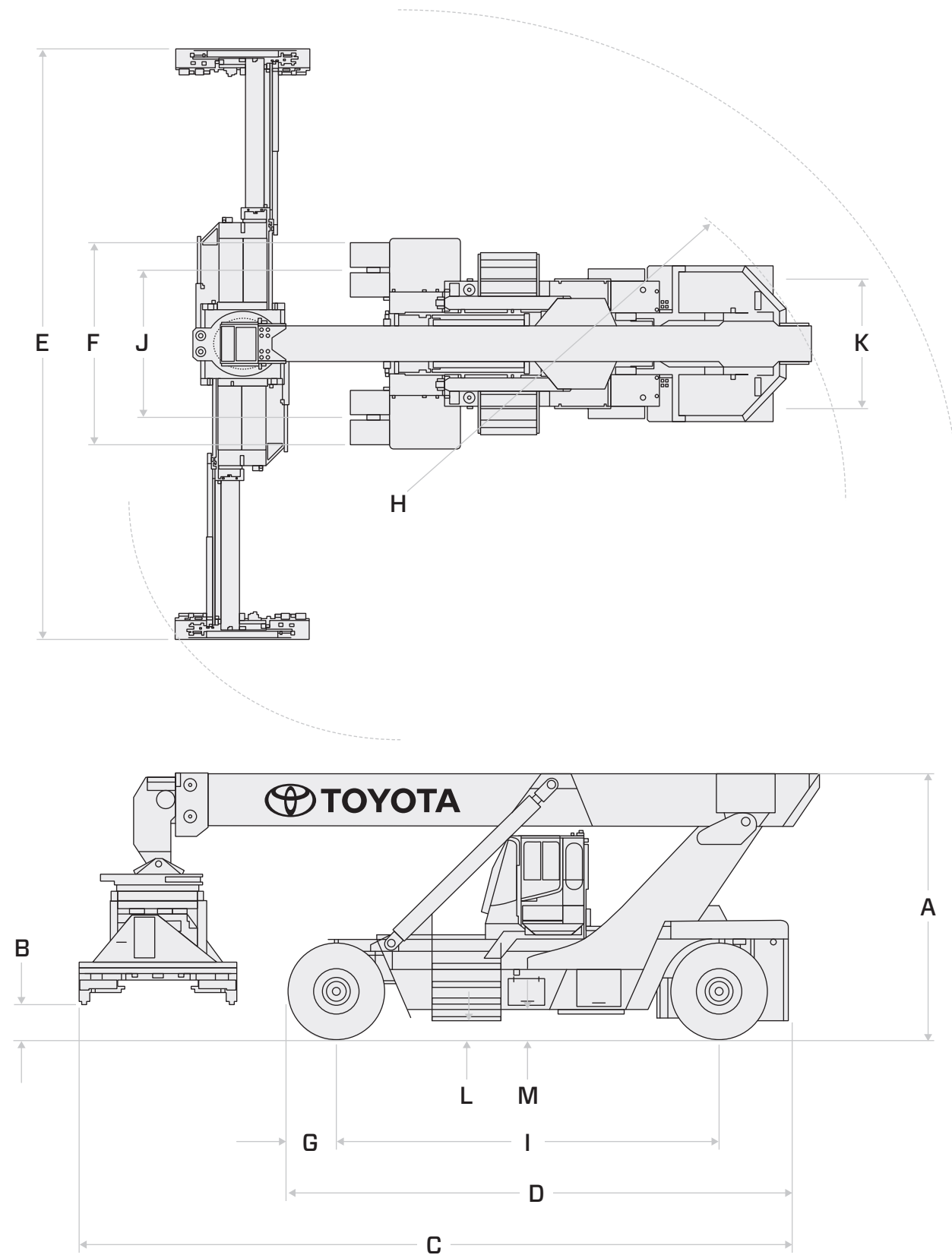
				MODEL NUMBERS					
GENERAL DATA				THD9900-R60		THD9900-R68		THD9900-R73	
Load Capacity (First Row¹)		lb (kg)		99000 (44900)		99000 (44900)		99000 (44900)	
Load Capacity (Second Row)		lb (kg)		60000 (27200)		68000 (30850)		72600 (32900)	
Load Capacity (Third Row)		lb (kg)		30000 (13600)		34000 (15420)		38500 (17460)	
Load Center (Row 1 / Row 2 / Row 3) (P)		in (mm)		78 (1981) / 156 (3962) / 258 (6553)		78 (1981) / 156 (3962) / 258 (6553)		78 (1981) / 156 (3962) / 258 (6553)	
Power Type				Diesel		Diesel		Diesel	
Operator Position				Seated Rider		Seated Rider		Seated Rider	
Tire Type		Front / Rear		Pneumatic		Pneumatic		Pneumatic	
Wheels (x = driven)		Front / Rear		4x / 2		4x / 2		4x / 2	
EXTERIOR DIMENSIONS				THD9900-R60		THD9900-R68		THD9900-R73	
Boom Height (at maximum lift) (N)		in (mm)		736 (18694)		736 (18694)		736 (18694)	
Boom Height (lowered) (A)		in (mm)		181 (4597)		181 (4597)		181 (4597)	
Boom Angle (minimum / maximum)		deg		0 / 58.5		0 / 58.5		0 / 58.5	
Lift Height (under twistlocks) (O)		in (mm)		606 (15392)		606 (15392)		606 (15392)	
Lowered Height (under twistlocks) (B)		in (mm)		40 (1016)		40 (1016)		40 (1016)	
Overall Length (with attachment) (C)		in (mm)		473 (12014)		473 (12014)		473 (12014)	
Overall Length (without boom) (D)		in (mm)		314 (7976)		314 (7976)		314 (7976)	
Spreader Width (20' / 40') (E)		in (mm)		273.5 (6033) / 479 (12167)		273.5 (6033) / 479 (12167)		273.5 (6033) / 479 (12167)	
Pile Slope (mechanical / hydraulic) (+/-)		deg		5 / 4.5		5 / 4.5		5 / 4.5	
Spreader Rotation (+/-)		deg		195 / 105		195 / 105		195 / 105	
Sideshift (each way / total)		in (mm)		31.5 (800) / 63 (1600)		31.5 (800) / 63 (1600)		31.5 (800) / 63 (1600)	
Overall Width (over drive tires) (F)		in (mm)		165 (4191)		165 (4191)		165 (4191)	
Distance – Centerline of Front Axle to Face of Tires/Stabilizers (G)		in (mm)		32.25 (819)		32.25 (819)		32.25 (819)	
Turning Radius (Outside) (H)		in (mm)		343 (8712)		343 (8712)		343 (8712)	
Basic Right-Angle Stacking Aisle Width (w/10% Additional Clearance)		in (mm)		480 (12192) / 565 (14351)		480 (12192) / 565 (14351)		480 (12192) / 565 (14351)	
PERFORMANCE DATA				THD9900-R60		THD9900-R68		THD9900-R73	
Speeds	Maximum Travel (forward / reverse)	Full Load	mph (km/h)	19.3 (31.1)		19.3 (31.1)		19.3 (31.1)	
		No Load	mph (km/h)	19.3 (31.1)		19.3 (31.1)		19.3 (31.1)	
	Lifting	Full Load	fpm (mm/sec)	60 (304.8)		60 (304.8)		60 (304.8)	
		No Load	fpm (mm/sec)	75 (381)		75 (381)		75 (381)	
	Lowering	Full Load	fpm (mm/sec)	60 (304.8)		60 (304.8)		60 (304.8)	
		No Load	fpm (mm/sec)	95 (482.6)		95 (482.6)		95 (482.6)	
Drawbar Pull	Maximum	Full Load	lb (kg)	45096 (20455)		44903 (20368)		44803 (20322)	
		No Load	lb (kg)	47076 (21353)		46883 (21266)		46783 (21221)	
Gradeability	1 mph (1.5km/h)¹	Full Load	%	17.6		16.9		16.6	
		No Load	%	28.8		27.2		26.4	
	Maximum¹	Full Load	%	18.2		17.5		17.2	
		No Load	%	29.4		27.8		27	
TRUCK WEIGHTS				THD9900-R60		THD9900-R68		THD9900-R73	
Total Weight		lb (kg)		173166 (78547)		182800 (82917)		187837 (85201)	
Weight Distribution	Full Load (front / rear)	lb (kg)		232812 (105602) / 39353 (17850)		233170 (105767) / 48630 (22060)		232930 (105655) / 53907 (24452)	
	No Load (front / rear)	lb (kg)		87669 (39766) / 85497 (38781)		88030 (39930) / 94770 (42987)		87786 (39819) / 100051 (45382)	
TIRES				THD9900-R60		THD9900-R68		THD9900-R73	
Tires	Number (front / rear)			4 / 2		4 / 2		4 / 2	
	Size (front / rear)			18.00-25 40PR / 18.00-25 40PR		18.00-25 40PR / 18.00-25 40PR		18.00-25 40PR / 18.00-25 40PR	
Wheelbase (I)		in (mm)		236 (5994)		236 (5994)		236 (5994)	
Tread Width (front) (J)		in (mm)		120 (3048)		120 (3048)		120 (3048)	
Tread Width (rear) (K)				105 (2667)		105 (2667)		105 (2667)	
Underclearance (full load)	Minimum with Load (L)		in (mm)	7.5 (190)		7.5 (190)		7.5 (190)	
	Center of Wheelbase (M)		in (mm)	16 (406)		16 (406)		16 (406)	
Brake	Service (foot) / Parking			Wet disc / Caliper		Wet disc / Caliper		Wet disc / Caliper	
POWER SYSTEM				THD9900-R60		THD9900-R68		THD9900-R73	
Battery (5-hour rating)		V / Ah		12 / 1300		12 / 1300		12 / 1300	
Internal Combustion Engine	Make / Model			CUMMINS 10.8L QSM11		CUMMINS 10.8L QSM11		CUMMINS 10.8L QSM11	
	Rated Horsepower @ rpm	SAE HP		330 @ 2100		330 @ 2100		330 @ 2100	
		(kW)		(246 @ 2100)		(246 @ 2100)		(246 @ 2100)	
	Rated Torque @ rpm	SAE ft-lb		1235 @ 1400		1235 @ 1400		1235 @ 1400	
		(N-m)		(1674 @ 1400)		(1674 @ 1400)		(1674 @ 1400)	
	Number of Cylinders			6		6		6	
	Piston Displacement		cu in (cc)	660 (10815)		660 (10815)		660 (10815)	
Fuel Tank Capacity		US gal (liter)	155 (587)		155 (587)		155 (587)		
Transmission	Type			POWERSHIFT – AUTOSHIFT		POWERSHIFT – AUTOSHIFT		POWERSHIFT – AUTOSHIFT	
	Speeds (forward / reverse)			4 / 4		4 / 4		4 / 4	
Auxiliary Hydraulic Function Specifications (for attachments)	Max. Operating Pressure		psi (kg/cm2)	2400 (168.7)		2400 (168.7)		2400 (168.7)	
	Max. Flow Rate		gpm (lpm)	25 (94.6)		25 (94.6)		25 (94.6)	

1 Rated capacity is for stacking up to 4 high in the first row. Please see the capacity rating diagrams on page 7 for more information.

TRUCK SPECIFICATIONS

				MODEL NUMBERS					
GENERAL DATA				THD9900-R77		THD9900-R85		THD9900-R90	
Load Capacity (First Row¹)		lb (kg)		99000 (44900)		99000 (44900)		99000 (44900)	
Load Capacity (Second Row)		lb (kg)		77000 (34900)		85000 (38600)		90000 (40000)	
Load Capacity (Third Row)		lb (kg)		44000 (20000)		47000 (21300)		68000 (30800)	
Load Center (Row 1 / Row 2 / Row 3) (P)		in (mm)		78 (1981) / 156 (3962) / 258 (6553)		78 (1981) / 156 (3962) / 258 (6553)		78 (1981) / 156 (3962) / 258 (6553)	
Power Type				Diesel		Diesel		Diesel	
Operator Position				Seated Rider		Seated Rider		Seated Rider	
Tire Type		Front / Rear		Pneumatic		Pneumatic		Pneumatic	
Wheels (x = driven)		Front / Rear		4x / 2		4x / 2		4x / 2	
EXTERIOR DIMENSIONS				THD9900-R77		THD9900-R85		THD9900-R90	
Boom Height (at maximum lift) (N)		in (mm)		736 (18694)		738 (18745)		738 (18745)	
Boom Height (lowered) (A)		in (mm)		181 (4597)		183 (4648)		183 (4648)	
Boom Angle (minimum / maximum)		deg		0 / 58.5		0 / 58.5		0 / 58.5	
Lift Height (under twistlocks) (O)		in (mm)		606 (15392)		608 (15443)		608 (15443)	
Lowered Height (under twistlocks) (B)		in (mm)		40 (1016)		42 (1067)		42 (1067)	
Overall Length (with attachment) (C)		in (mm)		473 (12014)		512 (13005)		512 (13005)	
Overall Length (without boom) (D)		in (mm)		314 (7976)		356 (9042)		361 (9169)	
Spreader Width (20' / 40') (E)		in (mm)		273.5 (6033) / 479 (12167)		273.5 (6033) / 479 (12167)		273.5 (6033) / 479 (12167)	
Pile Slope (mechanical / hydraulic) (+/-)		deg		5 / 4.5		5 / 4.5		5 / 4.5	
Spreader Rotation (+/-)		deg		195 / 105		195 / 105		195 / 105	
Sideshift (each way / total)		in (mm)		31.5 (800) / 63 (1600)		31.5 (800) / 63 (1600)		31.5 (800) / 63 (1600)	
Overall Width (over drive tires) (F)		in (mm)		165 (4191)		172 (4369)		172 (4369)	
Distance – Centerline of Front Axle to Face of Tires/Stabilizers (G)		in (mm)		32.25 (819)		35 (889)		35 (889)	
Turning Radius (Outside) (H)		in (mm)		343 (8712)		381 (9677)		381 (9677)	
Basic Right-Angle Stacking Aisle Width (w/10% Additional Clearance)		in (mm)		480 (12192) / 565 (14351)		508 (12903) / 586 (14884)		508 (12903) / 586 (14884)	
PERFORMANCE DATA				THD9900-R77		THD9900-R85		THD9900-R90	
Speeds	Maximum Travel (forward / reverse)	Full Load	mph (km/h)	19.3 (31.1)		20.1 (32.3)		20.1 (32.3)	
		No Load	mph (km/h)	19.3 (31.1)		20.1 (32.3)		20.1 (32.3)	
	Lifting	Full Load	fpm (mm/sec)	60 (304.8)		60 (304.8)		60 (304.8)	
		No Load	fpm (mm/sec)	75 (381)		75 (381)		75 (381)	
	Lowering	Full Load	fpm (mm/sec)	60 (304.8)		60 (304.8)		60 (304.8)	
		No Load	fpm (mm/sec)	95 (482.6)		95 (482.6)		95 (482.6)	
Drawbar Pull	Maximum	Full Load	lb (kg)	44702 (20277)		42622 (19333)		42550 (19300)	
		No Load	lb (kg)	46682 (21175)		44602 (20231)		44530 (20199)	
Gradeability	1 mph (1.5km/h)¹	Full Load	%	16.3		15.2		15	
		No Load	%	25.7		23.8		23.4	
	Maximum¹	Full Load	%	16.9		15.8		15.6	
		No Load	%	26.2		24.4		23.9	
TRUCK WEIGHTS				THD9900-R77		THD9900-R85		THD9900-R90	
Total Weight		lb (kg)		192855 (87478)		198663 (90112)		202277 (91751)	
Weight Distribution	Full Load (front / rear)		lb (kg)	233172 (105765) / 48620 (22054)		235648 (106888) / 62015 (28130)		239605 (108683) / 61672 (27974)	
	No Load (front / rear)		lb (kg)	87546 (39710) / 105309 (47767)		97048 (44020) / 101615 (46092)		101005 (45815) / 101272 (45936)	
TIRES				THD9900-R77		THD9900-R85		THD9900-R90	
Tires	Number (front / rear)		4 / 2			4 / 2			
	Size (front / rear)		18.00-25 40PR / 18.00-25 40PR			21.00-25 40PR / 18.00-25 40PR			
Wheelbase (I)		in (mm)	236 (5994)		275 (6985)		275 (6985)		
Tread Width (front) (J)		in (mm)	120 (3048)		120 (3048)		120 (3048)		
Tread Width (rear) (K)		in (mm)	105 (2667)		105 (2667)		105 (2667)		
Underclearance (full load)	Minimum with Load (L)		in (mm)	7.5 (190)		9.5 (241)		9.5 (241)	
	Center of Wheelbase (M)		in (mm)	16 (406)		18 (457)		18 (457)	
Brake	Service (foot) / Parking		Wet disc / Caliper			Wet disc / Caliper			
POWER SYSTEM				THD9900-R77		THD9900-R85		THD9900-R90	
Battery (5-hour rating)		V / Ah		12 / 1300		12 / 1300		12 / 1300	
Internal Combustion Engine	Make / Model		CUMMINS 10.8L QSM11			CUMMINS 10.8L QSM11			
	Rated Horsepower @ rpm	SAE HP	330 @ 2100			330 @ 2100			
		(kW)	(246 @ 2100)			(246 @ 2100)			
	Rated Torque @ rpm	SAE ft-lb	1235 @ 1400			1235 @ 1400			
		(N-m)	(1674 @ 1400)			(1674 @ 1400)			
	Number of Cylinders		6			6			
	Piston Displacement		cu in (cc)	660 (10815)			660 (10815)		
Fuel Tank Capacity		US gal (liter)	155 (587)			155 (587)			
Transmission	Type		POWERSHIFT – AUTOSHIFT			POWERSHIFT – AUTOSHIFT			
	Speeds (forward / reverse)		4 / 4			4 / 4			
Auxiliary Hydraulic Function Specifications (for attachments)	Max. Operating Pressure		psi (kg/cm2)	2400 (168.7)			2400 (168.7)		
	Max. Flow Rate		gpm (lpm)	25 (94.6)			25 (94.6)		

EXTERIOR DIMENSIONS



STACKING CAPACITIES

