# **REACH STACKER**



**UP TO 99000 LBS. (50 TON) CAPACITY** 

**SPECIFICATIONS** 



CAPACITY
UP TO 99000 LBS.

WHEELBASE 236 IN.

LOAD CENTER 78 IN.

#### **INDUSTRIES**



Intermodal/Port



Shipping Containers

# STANDARD FEATURES

### SUPPORT

- Electrical horn
- Asbestos-free components
- · Neutral safety switch
- Integrated overhead guard
- Operator Restraint System (ORS) seat
- Operator Presence Sensing System (OPSS)

## PERFORMANCE

- CUMMINS<sup>®</sup> 8.9-liter, 6-cylinder Tier 4 Final 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
- hvdraulic 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
- 7" touch-screen multi-function display
- Fuel gauge
- Hour meter
- Speedometer/Tachometer
- Water temperature gauge
- Engine oil pressure indicator
- Parking brake indicator
- DEF fluid indicators
- Turn signal indicators
- Estimated load weight indicator
- Service and operator manuals
- Pre-operation checklist (upon request)1
- Pin code entry system
- Fuse/relay diagnostics

#### 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
- Onboard load weighing system

- 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

Consult your local, authorized Toyota Dealer for customization options and pricing

# **OPTIONAL EQUIPMENT**

#### **POWERTRAIN**

 Precleaner Fitch fuel catalyst LOAD HANDLING • Hydraulic pile slope (requires 275" wheelbase) Container landing damage prevention • 4-point top pick ISO - twistlock · Rear container guides system WTP/pin module • Spreader beam slave attachments • Trailer leg module • Twistlock snapshot camera system **COLD START AID** • Oil pan heater • Hydraulic tank heater Coolant preheater • Engine block heater Battery pad warmer CAB/CONTROLS • Open cab (less doors, glass, wipers, heat) Air-conditioning Rearview mirror (center mount) • AM/FM/CD with 2 speakers • Top sunshade Auxiliary heater/front defrost Auxiliary 12V power supply Single joystick control • 3-point seatbelt (pass through studs) Orange seatbelt • Floor-mounted computer stand **INDICATORS & MISC.** • Forward camera system visibility aid • Fire extinguisher (20 lb. chassis mount) • Tire pressure monitoring system • Rear camera system visibility aid • Fire suppression system • 2nd position keyswitch twistlock override • Dual camera system visibility aid - Twin agent auto/manual • Ground-level E-Stop stations (1 each side) • Onboard load weighing system • Rear object detection radar • Ground-level monitoring kit w/ DVR (with tape printer) • 4-corner object detection radar • French Canadian language • Fire extinguisher (5 lb. cab mount) Shock sensor warning system (w/logging) **ELECTRICAL** • Jumpstart receptacle Lockable battery isolator LIGHTS/ALARMS • Extra strobe (magnetic) • Forward travel alarm • Various HID worklight upgrade options SERVICE/MAINTENANCE • Central lubrication system Auto-lubrication system (spreader) • Onboard battery trickle charger • Onboard stand-alone generator • Auto-lubrication system (chassis) • Engine oil purification system 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 (w/ opt. P052) Pneumatic tires (smooth) Foam-filled pneumatic tires Pneumatic tires (lugged) • Extra tire/rim

# TRUCK SPECIFICATIONS

## MODEL NUMBERS

Bacing	GENERAL DATA			THD9900-R60	THD9900-R68	THD9900-R73
March   Mar	Load Capacity (First Row¹) Ib (kg)			99000 (44900)	99000 (44900)	99000 (44900)
Part	Load Capacity (Second Row) Ib (kg)			60000 (27200)	68000 (30850)	72600 (32900)
Power   Pow	Load Capacity (Third Row) Ib (kg)			30000 (13600)	34000 (15420)	38500 (17460)
Peach   Pack   Point   Poin				78 (1981) / 156 (3962) / 258 (6553)	78 (1981) / 156 (3962) / 258 (6553)	78 (1981) / 156 (3962) / 258 (6553)
Penumblic   Pen	Power Type			Diesel	Diesel	Diesel
Note   Post	Operator Position			Seated Rider	Seated Rider	Seated Rider
Pace	Tire Type	Front / Rear		Pneumatic	Pneumatic	Pneumatic
Boom Height (at maximum int) (N)   in (mm)   736 (18694)   736 (18694)   736 (18694)   736 (18694)   736 (18694)   736 (18694)   736 (18694)   736 (18694)   736 (18694)   736 (18697)	Wheels (x = driver	n) Front / Rear		4x/2	4x / 2	4x/2
Boom Height (low-rot) (k)	EXTERIOR DIME	NSIONS		THD9900-R60	THD9900-R68	THD9900-R73
Boom Angle (minimum / maximum)   deg   0 / 58.5   0 / 58.5   0 / 58.5	Boom Height (at r	naximum lift) ( <b>N</b> )	in (mm)	736 (18694)	736 (18694)	736 (18694)
Define	Boom Height (low	ered) (A)	in (mm)	181 (4597)	181 (4597)	181 (4597)
Deverled Height (under twistocks) (B)	Boom Angle (mini	mum / maximum)	deg	0 / 58.5	0/58.5	0 / 58.5
Overall Length (with with with boot boom) (D)         in (mm)         473 (12014)         314 (7976)         314 (7976)         314 (7976)         314 (7976)         314 (7976)         314 (7976)         314 (7976)         314 (7976)         314 (7976)         314 (7976)         314 (7976)         315 (8003) (479 (12167))	Lift Height (under	twistlocks) ( <b>0</b> )	in (mm)	606 (15392)	606 (15392)	606 (15392)
Overall Length (with Lobum) (D)         in (mm)         314 (7976)         314 (7976)         314 (7976)         273 (8033) / 479 (12167)         273 (8000) / 63 (8000)         273 (8000) / 63 (8000)         273 (8000) / 63 (8000)         273 (8000) / 63 (8000)         273 (8000) / 63 (8000)         273 (8000) / 63 (8000)         273 (8000) / 63 (8000)         273 (8000) / 63 (8000)         273 (8000) / 63 (8000)         273 (8000) / 63 (8000)         273 (8000) / 63 (8000)         273 (8000) / 63 (8000)         273 (8000) / 63 (8000)         273 (8000) / 63 (8000)         273 (8000) / 63 (8000)         273 (8000) / 63 (8000)         273 (8	Lowered Height (u	under twistlocks) ( <b>B</b> )	in (mm)	40 (1016)	40 (1016)	40 (1016)
Spreader Width (20" / 40") (€)         in (mm)         273.5 (6033) / 479 (12167)         273.5 (6033) / 479 (12167)         273.5 (6033) / 479 (12167)           Pile Slope (mechanical / pythoraulic) (+/-)         deg         5/.45         5/.45         5/.45           Spreader Rotation (+/-)         deg         195.7 (105         195.7 (105         195.7 (105           Spreader Rotation (+/-)         in (mm)         31.5 (800) / 63 (1800)         31.5 (800) / 63 (1800)         31.5 (800) / 63 (1800)           Sides fir (each way fotal)         in (mm)         105 (491)         16 (491)         17 (491)         17 (491)         17 (491)         18 (491)         18 (491)         18 (491)         18 (491)         18 (491)         18 (491)         18 (491)         18 (491)	Overall Length (wi	ith attachment) (C)	in (mm)	473 (12014)	473 (12014)	473 (12014)
Pile Slope (mechanical / hydraulic) (+/-)   deg   5/4.5   5/4.5   5/4.5   5/4.5	Overall Length (wi	thout boom) ( <b>D</b> )	in (mm)	314 (7976)	314 (7976)	314 (7976)
Spreader Rotation (+/-)   deg   195/105   1	Spreader Width (2	20' / 40') ( <b>E</b> )	in (mm)	273.5 (6033) / 479 (12167)	273.5 (6033) / 479 (12167)	273.5 (6033) / 479 (12167)
Sideshift (each way / total)	Pile Slope (mecha	nical / hydraulic) (+/-)	deg	5 / 4.5	5 / 4.5	5 / 4.5
Overall Width (over drive tires) (F)         in (mm)         165 (491)         165 (491)         165 (491)           Distance - Centeriline of Front Axie to Face of Tires/Stabilizers (6) in (mm)         32.25 (819)         32.25 (819)         32.25 (819)           Turning Radius (out-side) (H)         in (mm)         343 (8712)         343 (8712)         343 (8712)           Basic Right-Angle Stacking Asie Width (w/10% additional clear no. in (mm)         480 (12192)/ 565 (14351)         480 (12192)/ 565 (14	Spreader Rotation	ו (+/-)	deg	195 / 105	195 / 105	195 / 105
Distance - Centerline of Front Axle to Face of Tires/Stabilizers (6) in (mm)	Sideshift (each w	ay / total)	in (mm)	31.5 (800) / 63 (1600)	31.5 (800) / 63 (1600)	31.5 (800) / 63 (1600)
Turning Radius   Uside   III	Overall Width (ove	er drive tires) ( <b>F</b> )	in (mm)	165 (4191)	165 (4191)	165 (4191)
Seals Right-Angle Stacking Aisle Width (w/10% additional clearance) in (mm)	Distance - Center	line of Front Axle to Face of Tire	s/Stabilizers ( <b>G</b> ) in (mm)	32.25 (819)	32.25 (819)	32.25 (819)
Number (front / rear)   18.00-25 40PR   18.	Turning Radius (o	utside) ( <b>H</b> )	in (mm)	343 (8712)	343 (8712)	343 (8712)
Number (front / rear)   3	Racic Right-Angle	Stacking Aisle Width (w/10% add	ditional alegrange) in (mm)	490 (12102) / EGE (142E1)	400 (12102) / EGE (142E1)	480 (12192) / 565 (14351)
Size (front / rear)   18.00-25 40PR / 18.00-25 40PR / 18.00-25 40PR   18.00-	Pasic Hight-Angle	otaliting / libic Whatii (W) 10 / liad	ultional clearance) III (IIIIII)	400 (12132)/ 303 (14331)	400 (12132) / 303 (14331)	100 (12102)/ 000 (11001)
Name		atabiling / libib Width (W) 10 / 0 data	ultionarclearance) in (mm)			
Tread Width (front) (J)         in (mm)         120 (3048)         120 (3048)         120 (3048)           Tread Width (rear) (K)         105 (2667)         105 (2667)         105 (2667)         105 (2667)           Underclearance (full load)         Minimum with Load (L)         in (mm)         7.5 (190)         7.5 (190)         7.5 (190)           Erake         Service (foot) / Parking         Wet disc/ Caliper         Wet disc/ Caliper         Wet disc/ Caliper         Wet disc/ Caliper           POWER SYSTEM         V/Ah         12/1300         12/1300         12/1300         12/1300           Battery (5-hour rating)         V/Ah         12/1300         12/1300         12/1300         12/1300           Battery (5-hour rating)         V/Ah         12/1300         12/1300         12/1300         12/1300           Battery (5-hour rating)         V/Ah         12/1300         12/1300         12/1300         12/1300         12/1300           Internal Combustion         Rated Horsepower @ rpm         SAE HP         380 @ 2100         380 @ 2100         380 @ 2100         283 @ 2100)         (283 @ 2100)         (283 @ 2100)         (283 @ 2100)         (283 @ 2100)         (1628 @ 1500)         (1628 @ 1500)         (1628 @ 1500)         (1628 @ 1	TIRES		ulional clearance) III (min)	THD9900-R60	THD9900-R68	THD9900-R73
Tread Width (rear) (K)   105 (2867)   105	TIRES	Number (front / rear)	ullunarciearance) iii (iiiii)	THD9900-R60 4/2	THD9900-R68 4/2	THD9900-R73 4/2
Underclearance (full load)         Minimum with Load (L)         in (mm)         7.5 (190)         7.5 (190)         7.5 (190)           Brake         Service (foot) / Parking         Wet disc / Caliper         Wet disc / Caliper         Wet disc / Caliper         Wet disc / Caliper           POWER SYSTEM         TH09900-R60         TH09900-R68         TH09900-R73           Battery (5-hour rating)         V / Ah         12 / 1300         12 / 1300         12 / 1300           Internal Combustion Engine         Make / Model         CUMMINS 8.9L QSL9         CUMMINS 8.9L QSL9         CUMMINS 8.9L QSL9         CUMMINS 8.9L QSL9           Rated Horsepower @ rpm         SAE HP         380 @ 2100         380 @ 2100         380 @ 2100           Rated Torque @ rpm         SAE ft-lb         1201 @ 1500         1201 @ 1500         1201 @ 1500           Number of Cylinders         6         6         6         6           Piston Displacement         cu in (cc)         660 (10815)         660 (10815)         660 (10815)           Transmission         Type         POWERSHIFT - AUTOSHIFT         POWERSHIFT - AUTOSHIFT         POWERSHIFT - AUTOSHIFT         POWERSHIFT - AUTOSHIFT           Transmission         Speeds (forward / reverse)         4 / 4         4 / 4         4 / 4	TIRES	Number (front / rear)		THD9900-R60 4 / 2 18.00-25 40PR / 18.00-25 40PR	THD9900-R68 4 / 2 18.00-25 40PR / 18.00-25 40PR	THD9900-R73 4 / 2 18.00-25 40PR / 18.00-25 40PR
(full load)         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 8.9L QSL9         CUMMINS 8.9L QSL9         CUMMINS 8.9L QSL9           Rated Horsepower @ rpm         SAE HP         380 @ 2100         380 @ 2100         380 @ 2100           (kW)         (283 @ 2100)         (283 @ 2100)         (283 @ 2100)         (283 @ 2100)           Engine         SAE ft-lb         1201 @ 1500         1201 @ 1500         1201 @ 1500           Number of Cylinders         6         6         6           Piston Displacement         cu in (cc)         660 (10815)         660 (10815)         660 (10815)           Transmission         Type         POWERSHIFT - AUTOSHIFT         POWERSHIFT - AUTOSHIFT         POWERSHIFT - AUTOSHIFT           Powersyllight of the companies of Cylinders         4/4         4/4         4/4           T	Tires Wheelbase (I)	Number (front / rear) Size (front / rear)	in (mm)	THD9900-R60 4 / 2 18.00-25 40PR / 18.00-25 40PR 236 (5994)	THD9900-R68 4 / 2 18.00-25 40PR / 18.00-25 40PR 236 (5994)	THD9900-R73 4 / 2 18.00-25 40PR / 18.00-25 40PR 236 (5994)
Brake   Service (foot) / Parking   Wet disc / Caliper   Wet disc / Caliper   Wet disc / Caliper	Tires Wheelbase (I) Tread Width (from	Number (front / rear) Size (front / rear)	in (mm)	THD9900-R60 4 / 2 18.00-25 40PR / 18.00-25 40PR 236 (5994) 120 (3048)	THD9900-R68 4 / 2 18.00-25 40PR / 18.00-25 40PR 236 (5994) 120 (3048)	THD9900-R73 4 / 2 18.00-25 40PR / 18.00-25 40PR 236 (5994) 120 (3048)
POWER SYSTEM	Tires  Wheelbase (I)  Tread Width (from Tread Width (real	Number (front / rear) Size (front / rear)  nt) (J) r) (K)	in (mm) in (mm)	THD9900-R60 4 / 2 18.00-25 40PR / 18.00-25 40PR 236 (5994) 120 (3048) 105 (2667)	THD9900-R68 4 / 2 18.00-25 40PR / 18.00-25 40PR 236 (5994) 120 (3048) 105 (2667)	THD9900-R73 4 / 2 18.00-25 40PR / 18.00-25 40PR 236 (5994) 120 (3048) 105 (2667)
Make   Model	Tires  Wheelbase (I)  Tread Width (fror Tread Width (real Underclearance	Number (front / rear) Size (front / rear)  nt) (J) r) (K) Minimum with Load (L)	in (mm) in (mm) in (mm)	THD9900-R60 4 / 2 18.00-25 40PR / 18.00-25 40PR 236 (5994) 120 (3048) 105 (2667) 7.5 (190)	THD9900-R68  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)	THD9900-R73  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)
Make / Model	Tires  Wheelbase (I)  Tread Width (fror Tread Width (real Underclearance (full load)	Number (front / rear) Size (front / rear)  ht (J) r) (K) Minimum with Load (L) Center of Wheelbase (M)	in (mm) in (mm) in (mm)	THD9900-R60 4 / 2 18.00-25 40PR / 18.00-25 40PR 236 (5994) 120 (3048) 105 (2667) 7.5 (190) 16 (406)	THD9900-R68  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)	THD9900-R73  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)
Rated Horsepower @ rpm	Tires  Wheelbase (I)  Tread Width (fror  Tread Width (real  Underclearance (full load)  Brake	Number (front / rear) Size (front / rear)  ht (J) r) (K) Minimum with Load (L) Center of Wheelbase (M) Service (foot) / Parking	in (mm) in (mm) in (mm)	THD9900-R60  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper	THD9900-R68  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper	THD9900-R73  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper
Rated Horsepower @ rpm	Tires  Wheelbase (I) Tread Width (from Tread Width (real Underclearance (full load) Brake  POWER SYSTEM	Number (front / rear) Size (front / rear)  ht (J) r) (K) Minimum with Load (L) Center of Wheelbase (M) Service (foot) / Parking	in (mm) in (mm) in (mm) in (mm)	THD9900-R60  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R60	THD9900-R68  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R68	THD9900-R73  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R73
Number of Cylinders   Sake ft-lb   1201 @ 1500   1201 @ 1201 @ 1201   1201 @ 1201   1201 @ 1201 @ 1201   1201 @ 1201 @ 1201   1201 @ 1201   1201 @ 1201	Tires  Wheelbase (I) Tread Width (from Tread Width (real Underclearance (full load) Brake  POWER SYSTEM	Number (front / rear) Size (front / rear)  ht (J) r) (K) Minimum with Load (L) Center of Wheelbase (M) Service (foot) / Parking Atting)	in (mm) in (mm) in (mm) in (mm)	THD9900-R60  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R60  12 / 1300	THD9900-R68  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R68  12 / 1300	THD9900-R73  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R73  12 / 1300
Rated Torque @ rpm	Tires  Wheelbase (I) Tread Width (from Tread Width (real Underclearance (full load) Brake  POWER SYSTEM	Number (front/rear)  Size (front/rear)  Att (J)  Tr) (K)  Minimum with Load (L)  Center of Wheelbase (M)  Service (foot) / Parking  Atting)  Make / Model	in (mm) in (mm) in (mm) V/Ah	THD9900-R60  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R60  12 / 1300  CUMMINS 8.9L QSL9	THD9900-R68  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R68  12 / 1300  CUMMINS 8.9L QSL9	THD9900-R73  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R73  12 / 1300  CUMMINS 8.9L QSL9
Number of Cylinders   6   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     Auxiliary Hydraulic   Function Specifications   Powership	Tires  Wheelbase (I) Tread Width (from Tread Width (real Underclearance (full load) Brake  POWER SYSTEM	Number (front/rear)  Size (front/rear)  Att (J)  Tr) (K)  Minimum with Load (L)  Center of Wheelbase (M)  Service (foot) / Parking  Atting)  Make / Model	in (mm) in (mm) in (mm) in (mm) V/Ah	THD9900-R60  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R60  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100	THD9900-R68  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R68  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100	THD9900-R73  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R73  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100
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         Psi (kg/cm2)         2400 (168.7)         2400 (168.7)         2400 (168.7)	Tires  Wheelbase (I) Tread Width (from the control of the control	Number (front/rear)  Size (front/rear)  Att) (J)  Tr) (K)  Minimum with Load (L)  Center of Wheelbase (M)  Service (foot) / Parking  Make / Model  Rated Horsepower (a)	in (mm) in (mm) in (mm)  V/Ah  V/Ah  SAE HP (kW) SAE ft-lb	THD9900-R60  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R60  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)	THD9900-R68  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R68  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)	THD9900-R73  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R73  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)
Fuel Tank Capacity         US gal (liter)         155 (587)         155 (587)         155 (587)           Transmission         Type         POWERSHIFT - AUTOSHIFT         POWERSHIFT - AUTOSHIFT         POWERSHIFT - AUTOSHIFT         POWERSHIFT - AUTOSHIFT           Speeds (forward / reverse)         4 / 4         4 / 4         4 / 4           Auxiliary Hydraulic Function Specifications         Posi (kg/cm2)         2400 (168.7)         2400 (168.7)         2400 (168.7)	Tires  Wheelbase (I) Tread Width (from Iteration Width (full load))  Brake  POWER SYSTEM  Battery (5-hour real Internal Combust	Number (front/rear)  Size (front/rear)  Att) (J)  Tr) (K)  Minimum with Load (L)  Center of Wheelbase (M)  Service (foot) / Parking  Make / Model  Rated Horsepower (a)	in (mm) in (mm) in (mm) in (mm) V/Ah  V/Ah  SAE HP (kW) SAE ft-lb	THD9900-R60  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R60  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)  1201 @ 1500	THD9900-R68  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R68  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)  1201 @ 1500	THD9900-R73  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R73  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)  1201 @ 1500
Transmission  Type POWERSHIFT - AUTOSHIFT POWERSHIFT - AUTOSHIFT Speeds (forward / reverse) 4 / 4 4 / 4 4 / 4  Auxiliary Hydraulic Function Specifications Aux. Operating Pressure psi (kg/cm2) psi (kg/cm2) 2400 (168.7) 2400 (168.7)	Tires  Wheelbase (I) Tread Width (from Iteration Width (full load))  Brake  POWER SYSTEM  Battery (5-hour real Internal Combust	Number (front / rear)  Size (front / rear)  at) (J)  r) (K)  Minimum with Load (L)  Center of Wheelbase (M)  Service (foot) / Parking  Make / Model  Rated Horsepower @  Rated Torque @ rpm	in (mm) in (mm) in (mm) in (mm) V/Ah  V/Ah  SAE HP (kW) SAE ft-lb (N-m)	THD9900-R60  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R60  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)  1201 @ 1500  (1628 @ 1500)	THD9900-R68  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R68  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)  1201 @ 1500  (1628 @ 1500)	THD9900-R73  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R73  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)  1201 @ 1500  (1628 @ 1500)
Transmission         Speeds (forward / reverse)         4 / 4         4 / 4         4 / 4           Auxiliary Hydraulic Function Specifications         Max. Operating Pressure         psi (kg/cm2)         2400 (168.7)         2400 (168.7)         2400 (168.7)	Tires  Wheelbase (I) Tread Width (from Iteration Width (full load))  Brake  POWER SYSTEM  Battery (5-hour real Internal Combust	Number (front / rear)  Size (front / rear)  at) (J)  r) (K)  Minimum with Load (L)  Center of Wheelbase (M)  Service (foot) / Parking  Make / Model  Rated Horsepower @  Number of Cylinders	in (mm) in (mm) in (mm) in (mm) V/Ah  V/Ah  SAE HP (kW) SAE ft-lb (N-m)	THD9900-R60  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R60  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)  1201 @ 1500  (1628 @ 1500)  6	THD9900-R68  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R68  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)  1201 @ 1500  (1628 @ 1500)  6	THD9900-R73  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R73  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)  1201 @ 1500  (1628 @ 1500)  6
Auxiliary Hydraulic Function Specifications         Max. Operating Pressure         psi (kg/cm2)         2400 (168.7)         2400 (168.7)         2400 (168.7)	Tires  Wheelbase (I) Tread Width (from Iteration Width (full load))  Brake  POWER SYSTEM  Battery (5-hour real Internal Combust	Number (front / rear)  Size (front / rear)  at) (J)  r) (K)  Minimum with Load (L)  Center of Wheelbase (M)  Service (foot) / Parking  Make / Model  Rated Horsepower @  Number of Cylinders  Piston Displacement	in (mm) in (mm) in (mm) in (mm) V/Ah  V/Ah  SAE HP (kW) SAE ft-lb (N-m)	THD9900-R60  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R60  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)  1201 @ 1500  (1628 @ 1500)  6  660 (10815)	THD9900-R68  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R68  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)  1201 @ 1500  (1628 @ 1500)  6  660 (10815)	THD9900-R73  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R73  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)  1201 @ 1500  (1628 @ 1500)  6  660 (10815)
Function Specifications \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	TIRES  Tires  Wheelbase (I)  Tread Width (from the control of the	Number (front / rear)  Size (front / rear)  at) (J)  r) (K)  Minimum with Load (L)  Center of Wheelbase (M)  Service (foot) / Parking  Make / Model  Rated Horsepower @  Number of Cylinders  Piston Displacement  Fuel Tank Capacity	in (mm) in (mm) in (mm) in (mm) V/Ah  V/Ah  SAE HP (kW) SAE ft-lb (N-m)	THD9900-R60  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R60  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)  1201 @ 1500  (1628 @ 1500)  6  660 (10815)  155 (587)	THD9900-R68  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R68  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)  1201 @ 1500  (1628 @ 1500)  6  660 (10815)  155 (587)	THD9900-R73  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R73  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)  1201 @ 1500  (1628 @ 1500)  6  660 (10815)  155 (587)
	TIRES  Tires  Wheelbase (I)  Tread Width (from the control of the	Number (front / rear)  Size (front / rear)  at) (J)  r) (K)  Minimum with Load (L)  Center of Wheelbase (M)  Service (foot) / Parking  Make / Model  Rated Horsepower @  Number of Cylinders  Piston Displacement  Fuel Tank Capacity  Type	in (mm) in (mm) in (mm) in (mm) V/Ah  V/Ah  SAE HP (kW) SAE ft-lb (N-m)  cu in (cc) US gal (liter)	## THD9900-R60  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  *## THD9900-R60  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)  1201 @ 1500  (1628 @ 1500)  6  660 (10815)  155 (587)  POWERSHIFT - AUTOSHIFT	## THD990-R68  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  ## THD990-R68  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)  1201 @ 1500  (1628 @ 1500)  6  660 (10815)  155 (587)  POWERSHIFT - AUTOSHIFT	THD9900-R73  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R73  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)  1201 @ 1500  (1628 @ 1500)  6  660 (10815)  155 (587)  POWERSHIFT - AUTOSHIFT
	TIRES  Tires  Wheelbase (I)  Tread Width (from the control of the	Number (front / rear)  Size (front / rear)  Int) (J)  Int) (K)  Minimum with Load (L)  Center of Wheelbase (M)  Service (foot) / Parking  Make / Model  Rated Horsepower @  Rated Torque @ rpm  Number of Cylinders  Piston Displacement  Fuel Tank Capacity  Type  Speeds (forward / rev.	in (mm) in (mm) in (mm) in (mm)  V/Ah  V/Ah  SAE HP (kW) SAE ft-lb (N-m)  cu in (cc) US gal (liter)	THD9900-R60  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R60  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)  1201 @ 1500  (1628 @ 1500)  6  660 (10815)  155 (587)  POWERSHIFT - AUTOSHIFT  4 / 4	THD9900-R68  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  THD9900-R68  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)  1201 @ 1500  (1628 @ 1500)  6  660 (10815)  155 (587)  POWERSHIFT - AUTOSHIFT  4 / 4	## THD9900-R73  4 / 2  18.00-25 40PR / 18.00-25 40PR  236 (5994)  120 (3048)  105 (2667)  7.5 (190)  16 (406)  Wet disc / Caliper  ## THD9900-R73  12 / 1300  CUMMINS 8.9L QSL9  380 @ 2100  (283 @ 2100)  1201 @ 1500  (1628 @ 1500)  6  660 (10815)  155 (587)  POWERSHIFT - AUTOSHIFT  4 / 4

<sup>1</sup> 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.

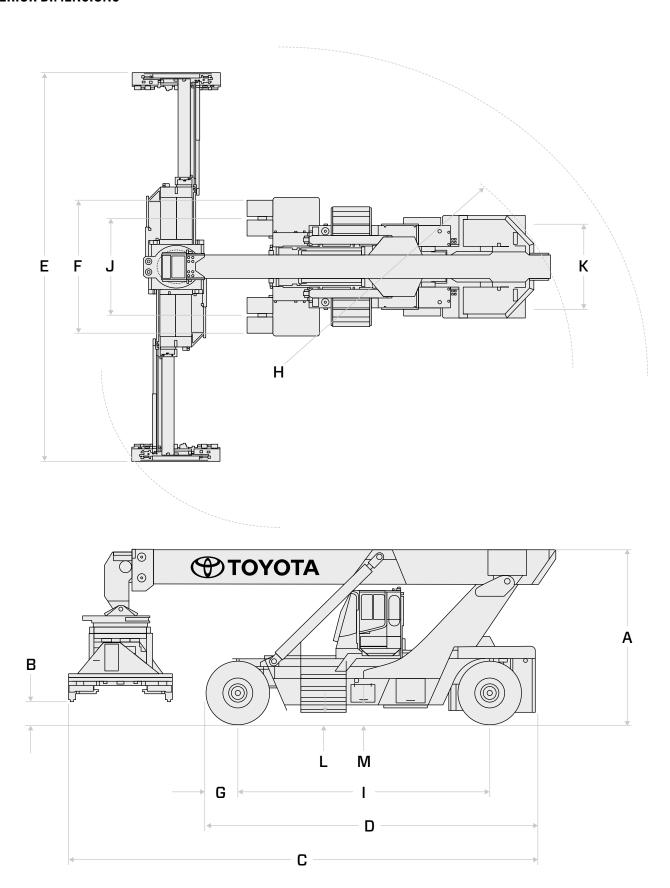
# TRUCK SPECIFICATIONS

## MODEL NUMBERS

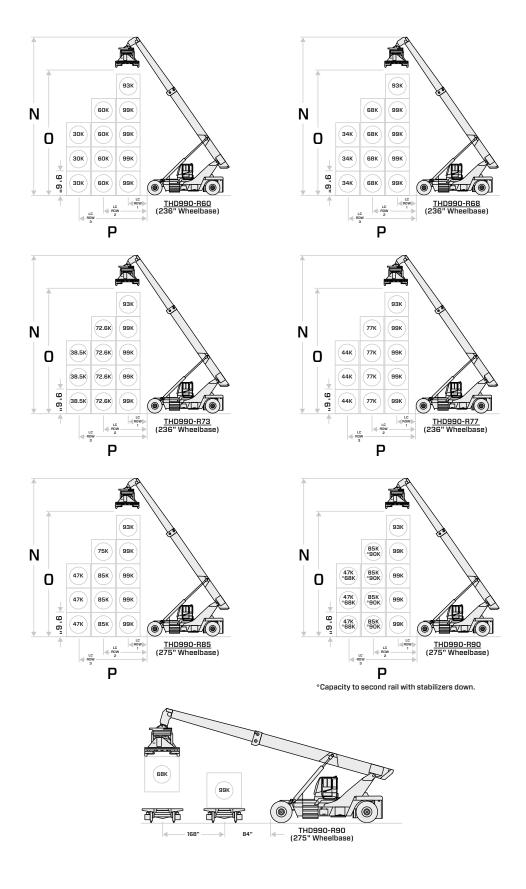
GENERAL DATA			THD9900-R77	THD9900-R85	THD9900-R90
Load Capacity (First Row¹) lb (kg)			99000 (44900)	99000 (44900)	99000 (44900)
Load Capacity (Second Row) lb (kg)		77000 (34900)	85000 (38600)	90000 (40000)	
Load Capacity (Third Row) Ib (kg)		44000 (20000)	47000 (21300)	68000 (30800)	
	1/Row 2/Row 3) ( <b>P</b> )	in (mm)	. ,	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	n) Front / Rear		4x / 2	4x / 2	4x / 2
EXTERIOR DIME	NSIONS		THD9900-R77	THD9900-R85	THD9900-R90
Boom Height (at n	naximum lift) ( <b>N</b> )	in (mm	736 (18694)	738 (18745)	738 (18745)
Boom Height (low		in (mm	, ,	183 (4648)	183 (4648)
Boom Angle (mini		deg	0/58.5	0/58.5	0/58.5
Lift Height (under		in (mm		608 (15443)	608 (15443)
	under twistlocks) ( <b>B</b> )	in (mm		42 (1067)	42 (1067)
	ith attachment) (C)	in (mm	, ,	512 (13005)	512 (13005)
Overall Length (wi	, , ,	in (mm	, ,	356 (9042)	361 (9169)
Spreader Width (2	20' / 40') ( <b>E</b> )	in (mm	273.5 (6033) / 479 (12167)	273.5 (6033) / 479 (12167)	273.5 (6033) / 479 (12167)
Pile Slope (mecha	nical / hydraulic) (+/-)	deg	5 / 4.5	5 / 4.5	5 / 4.5
Spreader Rotation	ı (+/-)	deg	195 / 105	195 / 105	195 / 105
Sideshift (each wa	ay / total)	in (mm	31.5 (800) / 63 (1600)	31.5 (800) / 63 (1600)	31.5 (800) / 63 (1600)
Overall Width (ove	er drive tires) ( <b>F</b> )	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 (or	utside) ( <b>H</b> )	in (mm	343 (8712)	381 (9677)	381 (9677)
Basic Right-Angle	Stacking Aisle Width (w/10% ac	dditional clearance) in (mm	480 (12192) / 565 (14351)	508 (12903) / 586 (14884)	508 (12903) / 586 (14884)
TIRES			THD9900-R77	THD9900-R85	THD9900-R90
	Number (front / rear)		4/2	4/2	4/2
Tires	Size (front / rear)		18.00-25 40PR / 18.00-25 40PR	21.00-25 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 (fron	nt) ( <b>J</b> )	in (mm)	120 (3048)	120 (3048)	120 (3048)
Tread Width (rear) ( <b>K</b> )		in (mm)	105 (2667)	105 (2667)	105 (2667)
Underclearance Minimum with Load (L)		in (mm)	7.5 (190)	9.5 (241)	9.5 (241)
(full load)	Center of Wheelbase (M)	in (mm)	16 (406)	18 (457)	18 (457)
Brake	Service (foot) / Parking		Wet disc / Caliper	Wet disc / Caliper	Wet disc / Caliper
POWER SYSTEM	1		THD9900-R77	THD9900-R85	THD9900-R90
Battery (5-hour rating) V / Ah		12 / 1300	12 / 1300	12 / 1300	
	Make / Model		CUMMINS 8.9L QSL9	CUMMINS 8.9L QSL9	CUMMINS 8.9L QSL9
	Dated Harages 6	SAE HP	380 @ 2100	380 @ 2100	380 @ 2100
Internal Combustic	Rated Horsepower (	□ rpm (kW)	(283 @ 2100)	(283 @ 2100)	(283 @ 2100)
	tion Dated Targue (5	SAE ft-lb	1201 @ 1500	1201 @ 1500	1201 @ 1500
	Rated Torque @ rpm	(N-m)	(1628 @ 1500)	(1628 @ 1500)	(1628 @ 1500)
	Number of Cylinders	3	6	6	6
	Piston Displacemen	t cu in (cc)	660 (10815)	660 (10815)	660 (10815)
	Fuel Tank Capacity	US gal (liter)	155 (587)	155 (587)	155 (587)
	Туре		POWERSHIFT - AUTOSHIFT	POWERSHIFT - AUTOSHIFT	POWERSHIFT - AUTOSHIFT
Transmi!					4.44
Transmission	Speeds (forward / re	everse)	4 / 4	4 / 4	4 / 4
Transmission  Auxiliary Hydrauli Function Specific	ic Max Operating Press		4 / 4 2400 (168.7)	4 / 4 2400 (168.7)	2400 (168.7)

<sup>1</sup> 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.

# **EXTERIOR DIMENSIONS**



# **STACKING CAPACITIES**



TOYOTA

MATERIAL HANDLING