

# HIGH-CAPACITY CORE IC PNEUMATIC



22000 - 30000 LBS.

SPECIFICATIONS



2THD220-300-24

CLASS  
5

INTERNAL COMBUSTION ENGINE PNEUMATIC TIRE

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## HIGH-CAPACITY CORE IC PNEUMATIC

CAPACITY  
**22000 – 30000 LBS.**

MAXIMUM FORK HEIGHT  
**244 IN.**

LOAD CENTER  
**24 IN.**

### INDUSTRIES



Lumber



Steel/Metals



Concrete



General  
Manufacturing



Brick,  
Block & Pipe



Mining



Oil & Gas

## STANDARD FEATURES

### DURABILITY

- Force-cooled wet disc brakes
- Heavy-duty planetary drive axle rated for high-capacity, off-road applications
- Rigidly constructed welded frame
- Engine protection system
- High-capacity cooling system
- Open-core radiator with fan shroud
- Welded-nested mast rails
- Pin-type forks
- Two-stage heavy-duty air cleaner
- Wide visible 2-stage mast (V)
- 24-Volt electrical system with two 12V batteries

### SUPPORT

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

### PERFORMANCE

- CUMMINS® 4.5-liter Tier 4 Final diesel engine (4-cylinder)
  - Common-rail electronic fuel injection system
  - Turbocharged & intercooled
  - Self-regenerating DPF
  - SCR (Selective Catalytic Reduction)
- Dana TE-10 electronically controlled powershift transmission
- 7" touch-screen multi-function display
  - All gauges/instrumentation/warning lights
  - Controls for work lights, wipers, heat, air conditioning, and radio controls
  - Electronic diagnostics with fault code history
  - Reference library
  - Measurement, adjustment, and preference menus
- Full hydraulic power steering
- Dual pump "full flow", on-demand load sensing hydraulic system
- 2-function hydraulic control valve (lift & tilt)
- Independent brake & inching pedals
- Upswept exhaust

### ERGONOMICS/CABIN

- Front and rear reflectors
- Telescopic and tilting steering column
- Floor mat
- Operator manual box
- Roof-mounted amber strobe
- Fingertip hydraulic controls
- Left-hand shift lever
- Long operator assist grips
- Spring-applied/hydraulic-release parking brake
- Standard premium cabin
  - Air Ride suspension seat
  - Cup holder(s)
  - Enclosed cab with doors
  - Front, rear, and top wipers
  - Heat/defrost
  - Air conditioning
  - Operator fan
  - Dome light
  - Front LED work lights (2)
- Rear work light
- Stop/turn/tail combination lights
- Front turn signal lights (2)
- Aux 12V power supply
- USB charging port(s)
- Top and rear sunshades
- Rearview mirror
- AM/FM/MP3 radio with 2 speakers

### SERVICEABILITY

- Remote oil drain
- Easy-access filters
- Easy-lift hoods, panels, and doors
- Externally serviceable brakes
- Cab tilt with manual handpump

## OPTIONAL EQUIPMENT

### POWERTRAIN

- Fuel cap, locking
- Password protected operation
- Auto shutdown timer
- Speed limiting, loaded
- Speed limiting, loaded and unloaded
- High Air Intake with precleaner

### CARRIAGE

- Sideshifter
- Fork positioner (dependant)
- Fork positioner (independent)
- SS/FP (dependant)
- SS/FP (independent)
- Various load backrest heights
- Tilt indicator, mechanical

### TIRE/WHEEL

- Pneumatic - lugged, radial, XZM
- Solid pneumatic

### COLD START AID

- Engine block heater
- Battery pad warmer

### CAB/CONTROLS

- Open cab
- Value cab
- Single Joystick Control

### INDICATORS & MISC.

- Forward camera system visibility aid
- Rear camera system visibility aid
- Dual camera system visibility aid
- Overload warning indicator
- Onboard load weighing system
- Fire extinguisher (2.5 lb. cab mount)
- Rear object detection radar
- Shock sensor warning system (with logging)
- Tire pressure monitoring system
- French Canadian language
- Side view mirrors
- UL-approved model type "D"

### HYDRAULIC

- Lift accumulator
- Tilt accumulator

### ELECTRICAL

- Jumpstart receptacle (studs)
- Lockable battery isolator

### LIGHTS/ALARMS

- Extra work lights - LED rear facing (pair)
- Extra work lights - LED mast mount (pair)
- Extra work lights - LED fender mount (pair)
- Backup alarm
- Backup alarm (smart)
- Travel alarm (bi-directional)
- Horn, trumpet, 24V, 118dB
- Blue LED spot light, forward facing
- Blue LED spot light, rear facing
- Red LED spot light, forward facing
- Red LED spot light, rear facing

### SERVICE/MAINTENANCE

- Cab tilt, powered with backup manual hand pump
- Front lift plate

### PAINT (REQUIRES PAINT CODE & MAP)

- Custom color (single)
- Chevron striping on counterweight

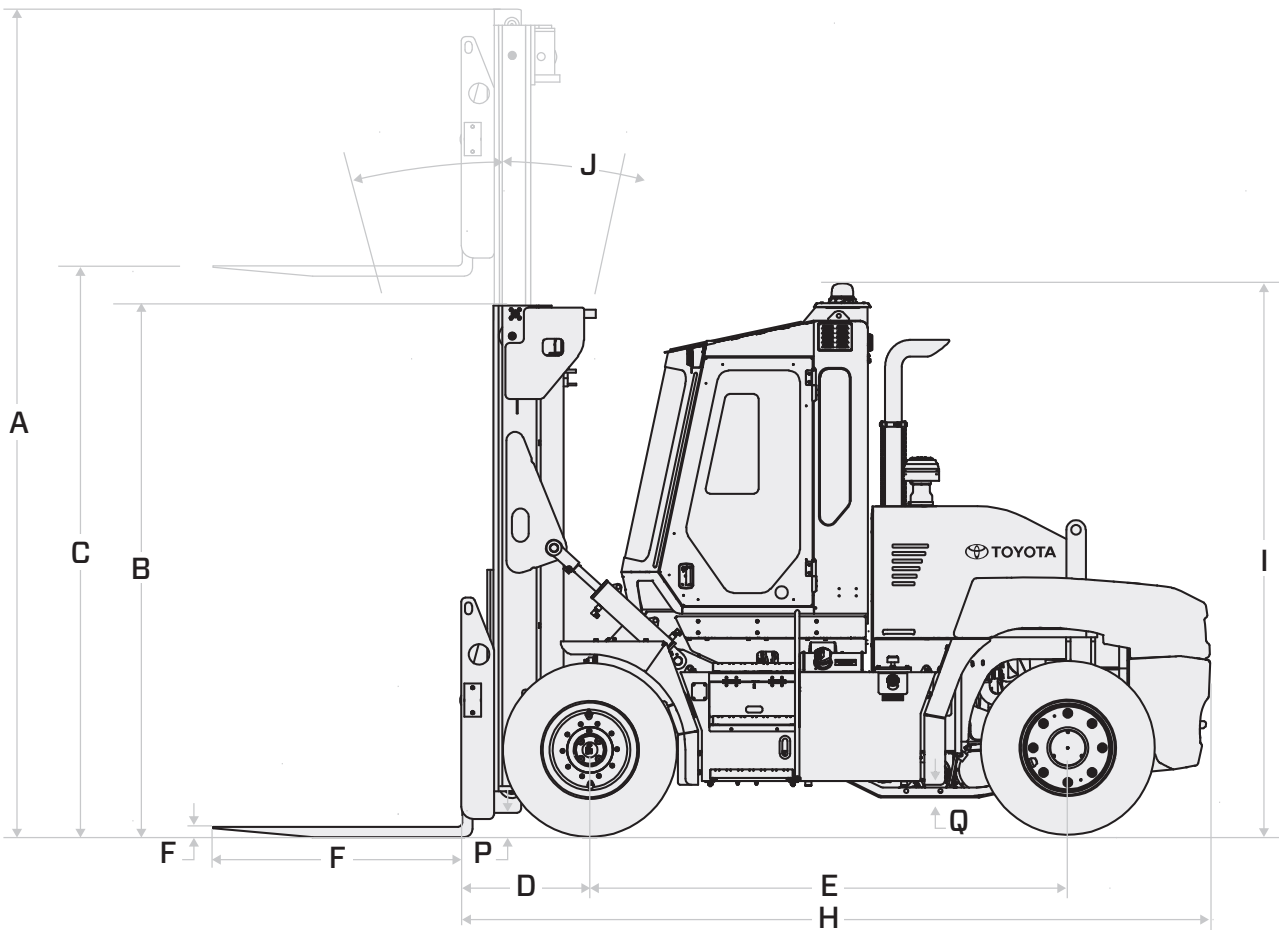
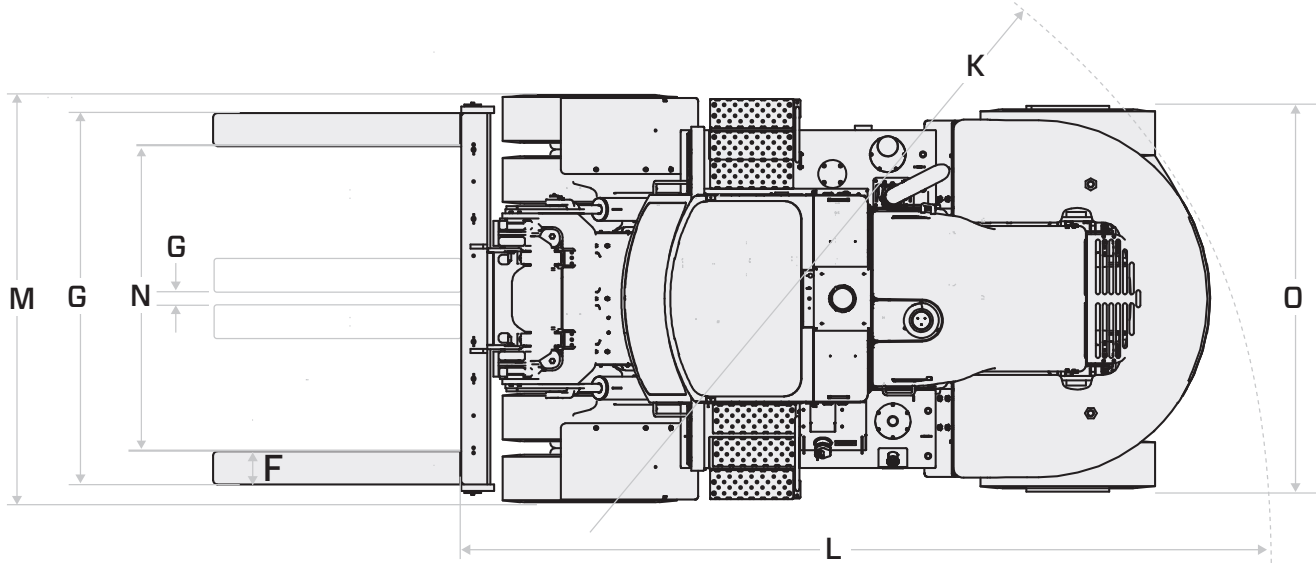
# TRUCK SPECIFICATIONS

## MODEL NUMBERS

MODEL			2THD220-24	2THD240-24	2THD260-24	2THD280-24	2THD300-24	
Load Capacity	lb (kg)		22000 (9979)	24000 (10890)	26000 (11790)	28000 (12700)	30000 (13610)	
Load Center	in (mm)		24 (610)	24 (610)	24 (610)	24 (610)	24 (610)	
Brakes (service foot / parking)			Wet Disc / Caliper (Disc)					
Transmission	Type		PowerShift					
	Speeds (fwd. / rev.)	mph	3 / 3					
Internal Combustion Engine	Make / Model		CUMMINS 4.5L					
	Rated Horsepower @ rpm	SAE HP (kW)	173 @ 2500 (129 @ 2500)	173 @ 2500 (129 @ 2500)	173 @ 2500 (129 @ 2500)	173 @ 2500 (129 @ 2500)	173 @ 2500 (129 @ 2500)	
	Rated Torque @ rpm	SAE ft-lb (N-m)	520 @ 1500 (705 @ 1500)	520 @ 1500 (705 @ 1500)	520 @ 1500 (705 @ 1500)	520 @ 1500 (705 @ 1500)	520 @ 1500 (705 @ 1500)	
Battery	Voltage	V	24	24	24	24	24	
EXTERIOR DIMENSIONS			2THD220-24	2THD240-24	2THD260-24	2THD280-24	2THD300-24	
<b>A</b>	Mast Extended Height	in (mm)	199.37 (5064)	199.37 (5064)	199.37 (5064)	199.37 (5064)	199.37 (5064)	
<b>B</b>	Mast Lowered Height	in (mm)	128 (3251)	128 (3251)	128 (3251)	128 (3251)	128 (3251)	
<b>C</b>	Maximum Fork Height (MFH) (top of forks)	in (mm)	138 (3505)	138 (3505)	138 (3505)	138 (3505)	138 (3505)	
<b>D</b>	Load Distance <sup>1</sup>	in (mm)	30.70 (779)	30.95 (786)	30.95 (786)	31.20 (792)	31.20 (792)	
<b>E</b>	Wheelbase	in (mm)	115 (2921)	115 (2921)	115 (2921)	115 (2921)	115 (2921)	
<b>F</b>	Fork Size (T x W x L)	in (mm)	2.5 (64) / 8 (203) / 48 (1219)	2.75 (70) / 8 (203) / 48 (1219)	2.75 (70) / 8 (203) / 48 (1219)	3 (76) / 8 (203) / 48 (1219)	3 (76) / 8 (203) / 48 (1219)	
<b>G</b>	Fork Spread Max. / Min. (outer edge to edge) <sup>3</sup>	in (mm)	89.50 (2266) / 3 (76.2)	89.50 (2266) / 18.90 (481)	89.50 (2266) / 18.90 (481)	89.50 (2266) / 18.90 (481)	89.50 (2266) / 18.90 (481)	
<b>H</b>	Length to Fork Face	in (mm)	180.08 (4574)	180.33 (4580)	180.33 (4580)	180.58 (4587)	180.58 (4587)	
<b>I</b>	Overhead Guard Clearance	in (mm)	133.41 (3388)	133.41 (3388)	133.41 (3388)	133.41 (3388)	133.41 (3388)	
<b>J</b>	Tilt Range (forward / backward)	deg	15 / 12	15 / 12	15 / 12	15 / 12	15 / 12	
<b>K</b>	Outside Turning Radius	in (mm)	163.53 (4154)	163.53 (4154)	163.53 (4154)	163.53 (4154)	163.53 (4154)	
<b>L</b>	Basic Right-Angle Stacking Aisle Width <sup>2</sup>	in (mm)	194.23 (4933)	194.48 (4940)	194.48 (4940)	194.73 (4946)	194.73 (4946)	
<b>M</b>	Overall Width	in (mm)	98.09 (2491)	98.09 (2491)	98.09 (2491)	98.09 (2491)	98.09 (2491)	
<b>N</b>	Tread Width	Front	in (mm)	71.90 (1826)	71.90 (1826)	71.90 (1826)	71.90 (1826)	71.90 (1826)
		Rear	in (mm)	79.74 (2025)	79.74 (2025)	79.74 (2025)	79.74 (2025)	79.74 (2025)
<b>P</b>	Underclearance (full load)	Minimum with Load	in (mm)	9.56 (243)	9.56 (243)	9.56 (243)	9.56 (243)	9.56 (243)
		Center of Wheelbase	in (mm)	13.5 (343)	13.5 (343)	13.5 (343)	13.5 (343)	13.5 (343)
PERFORMANCE DATA			2THD220-24	2THD240-24	2THD260-24	2THD280-24	2THD300-24	
Speeds	Maximum Travel (forward / reverse)	Full Load	mph (km/h)	17.9 (28.8) / 17.9 (28.8)	17.9 (28.8) / 17.9 (28.8)	17.9 (28.8) / 17.9 (28.8)	17.9 (28.8) / 17.9 (28.8)	17.9 (28.8) / 17.9 (28.8)
		No Load	mph (km/h)	19.0 (30.5) / 19.0 (30.35)	19.0 (30.5) / 19.0 (30.35)	19.0 (30.5) / 19.0 (30.35)	19.0 (30.5) / 19.0 (30.35)	19.0 (30.5) / 19.0 (30.35)
	Lifting	Full Load	fpm (mm/sec)	87 (442)	87 (442)	87 (442)	87 (442)	87 (442)
		No Load	fpm (mm/sec)	92 (467)	92 (467)	92 (467)	92 (467)	92 (467)
	Lowering	Full Load	fpm (mm/sec)	92 (467)	92 (467)	92 (467)	92 (467)	92 (467)
		No Load	fpm (mm/sec)	88 (447)	88 (447)	88 (447)	88 (447)	88 (447)
FUEL CAPACITY			2THD220-24	2THD240-24	2THD260-24	2THD280-24	2THD300-24	
Fuel Tank	US gal (L)		31 (117)	31 (117)	31 (117)	31 (117)	31 (117)	
TRUCK WEIGHTS			2THD220-24	2THD240-24	2THD260-24	2THD280-24	2THD300-24	
Gross Weight (empty)	lb (kg)		37770 (17132)	38314 (17379)	38776 (17588)	39627 (17974)	39819 (18062)	
Weight Distribution	Front - Full Load	lb (kg)	52157 (23644)	55161 (25021)	58020 (26317)	61194 (27757)	63880 (28975)	
	Rear - Full Load	lb (kg)	7613 (3453)	7153 (3245)	6756 (3064)	6430 (2917)	5939 (2694)	
	Front - No Load	lb (kg)	19693 (8933)	19693 (8933)	19597 (8889)	19754 (8960)	19480 (8836)	
	Rear - No Load	lb (kg)	18077 (8199)	18621 (8446)	19597 (8889)	19870 (9013)	20339 (9226)	
ATTACHMENT			2THD220-24	2THD240-24	2THD260-24	2THD280-24	2THD300-24	
Auxiliary Hydraulic Function (for attachments)	Max. Operating Pressure	psi (kg/cm <sup>2</sup> ) (MPa)	2700 (190) (18.6)	2700 (190) (18.6)	2700 (190) (18.6)	2700 (190) (18.6)	2700 (190) (18.6)	
	Max. Flow Rate	gpm	25	25	25	25	25	
TIRES			2THD220-24	2THD240-24	2THD260-24	2THD280-24	2THD300-24	
Type (front / rear)			Pneumatic / Pneumatic					
Number	Front / Rear		4 / 2					
Size	Front		10.00-20 16PR	10.00-20 16PR	10.00-20 16PR	10.00-20 16PR	10.00-20 16PR	
	Rear		10.00-20 16PR	10.00-20 16PR	10.00-20 16PR	10.00-20 16PR	10.00-20 16PR	

1 Centerline of front axle to front face of forks.  
 2 Add load length & aisle clearance.  
 3 Standard 8" forks.

# EXTERIOR DIMENSIONS



## MAST SPECIFICATIONS

MAST TYPE	MAXIMUM FORK HEIGHT (TOP OF FORKS)	OVERALL HEIGHT LOWERED	FREE- LIFT	TILT RANGE		LOAD CAPACITY AT		
				FWD	BWD	24 IN. (610 MM) LOAD CENTER 2.5" x 8" x 48" (STD.) FORKS	36 IN. (900 MM) LOAD CENTER 2.5" x 8" x 72" (OPT.) FORKS	48 IN. (1220 MM) LOAD CENTER 2.5" x 8" x 96" (OPT.) FORKS
				deg	deg	lb (kg)	lb (kg)	lb (kg)
<b>2THD220-24</b>								
Wide Visible (V)	138 (3505)	128 (3251)	0	15	12	22000 (9979)	18167 (8240)	14200 (6441)
	154 (3912)	136 (3454)	0	15	12	22000 (9979)	18167 (8240)	14200 (6441)
	174 (4419)	146 (3708)	0	15	12	22000 (9979)	18167 (8240)	14200 (6441)
	194 (4927)	156 (3962)	0	15	12	*TSDR	*TSDR	*TSDR
	204 (5182)	166 (4216)	0	15	12	*TSDR	*TSDR	*TSDR
	224 (5690)	176 (4470)	0	15	12	*TSDR	*TSDR	*TSDR
	244 (6198)	186 (4724)	0	15	12	*TSDR	*TSDR	*TSDR

MAST TYPE	MAXIMUM FORK HEIGHT (TOP OF FORKS)	OVERALL HEIGHT LOWERED	FREE- LIFT	TILT RANGE		LOAD CAPACITY AT		
				FWD	BWD	24 IN. (610 MM) LOAD CENTER 2.75" x 8" x 48" (STD.) FORKS	36 IN. (900 MM) LOAD CENTER 2.75" x 8" x 72" (OPT.) FORKS	48 IN. (1220 MM) LOAD CENTER 2.75" x 8" x 96" (OPT.) FORKS
				deg	deg	lb (kg)	lb (kg)	lb (kg)
<b>2THD240-24</b>								
Wide Visible (V)	138 (3505)	128 (3251)	0	15	12	24000 (10890)	19818 (8989)	16400 (7439)
	154 (3912)	136 (3454)	0	15	12	24000 (10890)	19818 (8989)	16400 (7439)
	174 (4419)	146 (3708)	0	15	12	24000 (10890)	19818 (8989)	16400 (7439)
	194 (4927)	156 (3962)	0	15	12	*TSDR	*TSDR	*TSDR
	204 (5182)	166 (4216)	0	15	12	*TSDR	*TSDR	*TSDR
	224 (5690)	176 (4470)	0	15	12	*TSDR	*TSDR	*TSDR
	244 (6198)	186 (4724)	0	15	12	*TSDR	*TSDR	*TSDR

MAST TYPE	MAXIMUM FORK HEIGHT (TOP OF FORKS)	OVERALL HEIGHT LOWERED	FREE- LIFT	TILT RANGE		LOAD CAPACITY AT		
				FWD	BWD	24 IN. (610 MM) LOAD CENTER 2.75" x 8" x 48" (STD.) FORKS	36 IN. (900 MM) LOAD CENTER 2.75" x 8" x 72" (OPT.) FORKS	48 IN. (1220 MM) LOAD CENTER 2.75" x 8" x 96" (OPT.) FORKS
				deg	deg	lb (kg)	lb (kg)	lb (kg)
<b>2THD260-24</b>								
Wide Visible (V)	138 (3505)	128 (3251)	0	15	12	26000 (11790)	21470 (9738)	16400 (7439)
	154 (3912)	136 (3454)	0	15	12	26000 (11790)	21470 (9738)	16400 (7439)
	174 (4419)	146 (3708)	0	15	12	26000 (11790)	21470 (9738)	16400 (7439)
	194 (4927)	156 (3962)	0	15	12	*TSDR	*TSDR	*TSDR
	204 (5182)	166 (4216)	0	15	12	*TSDR	*TSDR	*TSDR
	224 (5690)	176 (4470)	0	15	12	*TSDR	*TSDR	*TSDR
	244 (6198)	186 (4724)	0	15	12	*TSDR	*TSDR	*TSDR

MAST TYPE	MAXIMUM FORK HEIGHT (TOP OF FORKS)	OVERALL HEIGHT LOWERED	FREE- LIFT	TILT RANGE		LOAD CAPACITY AT		
				FWD	BWD	24 IN. (610 MM) LOAD CENTER 3" x 8" x 48" (STD.) FORKS	36 IN. (900 MM) LOAD CENTER 3" x 8" x 72" (OPT.) FORKS	48 IN. (1220 MM) LOAD CENTER 3" x 8" x 96" (OPT.) FORKS
				deg	deg	lb (kg)	lb (kg)	lb (kg)
<b>2THD280-24</b>								
Wide Visible (V)	138 (3505)	128 (3251)	0	15	12	28000 (12700)	23121 (10487)	19000 (8618)
	154 (3912)	136 (3454)	0	15	12	28000 (12700)	23121 (10487)	19000 (8618)
	174 (4419)	146 (3708)	0	15	12	28000 (12700)	23121 (10487)	19000 (8618)
	194 (4927)	156 (3962)	0	15	12	*TSDR	*TSDR	*TSDR
	204 (5182)	166 (4216)	0	15	12	*TSDR	*TSDR	*TSDR
	224 (5690)	176 (4470)	0	15	12	*TSDR	*TSDR	*TSDR
	244 (6198)	186 (4724)	0	15	12	*TSDR	*TSDR	*TSDR

MAST TYPE	MAXIMUM FORK HEIGHT (TOP OF FORKS)	OVERALL HEIGHT LOWERED	FREE- LIFT	TILT RANGE		LOAD CAPACITY AT		
				FWD	BWD	24 IN. (610 MM) LOAD CENTER 3" x 8" x 48" (STD.) FORKS	36 IN. (900 MM) LOAD CENTER 3" x 8" x 72" (OPT.) FORKS	48 IN. (1220 MM) LOAD CENTER 3" x 8" x 96" (OPT.) FORKS
				deg	deg	lb (kg)	lb (kg)	lb (kg)
<b>2THD300-24</b>								
Wide Visible (V)	138 (3505)	128 (3251)	0	15	12	30000 (13610)	24773 (11237)	19000 (8618)
	154 (3912)	136 (3454)	0	15	12	30000 (13610)	24773 (11237)	19000 (8618)
	174 (4419)	146 (3708)	0	15	12	30000 (13610)	24773 (11237)	19000 (8618)
	194 (4927)	156 (3962)	0	15	12	*TSDR	*TSDR	*TSDR
	204 (5182)	166 (4216)	0	15	12	*TSDR	*TSDR	*TSDR
	224 (5690)	176 (4470)	0	15	12	*TSDR	*TSDR	*TSDR
	244 (6198)	186 (4724)	0	15	12	*TSDR	*TSDR	*TSDR

\*TSDR required to determine capacity to maximum fork height



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.



CORE2THDSS

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