

**20/40/45' City Combo Tridem Specification****1. Model: TITS/3ASH4506CA Quotation No.: THACO-OT-23XX (100 UNITS)**

This chassis is designed for transporting one ISO 20', one ISO 40' or one ISO 45' containers.

This chassis meets all DOT, AAR, ANSI, TOFC, FMVSS, SAE and TTMA specifications.

**2. General**

<b>Overall Length:</b>	36' 10 15/16" retracted or 45' 6 3/16" extended
<b>Overall Width:</b>	96" (over tire 102")
<b>Fifth Wheel Height:</b>	47 ± 1"
<b>Max Rear Height:</b>	48 ± 1"
<b>Kingpin Location:</b>	24" (From rear face of front bolster)
<b>Landing gear Location:</b>	94.5" (From centerline of kingpin)
<b>Axle Spread:</b>	61" + 61"
<b>Tridem Location:</b>	25 7/8" (From rear face of rear bolster)
<b>Tare Weight:</b>	10,210 lbs ± 2%
<b>Payload:</b>	49,400 lbs in 20' position; 67,200 lbs in 40' or 45' position

**3. Steel Structure & Components**

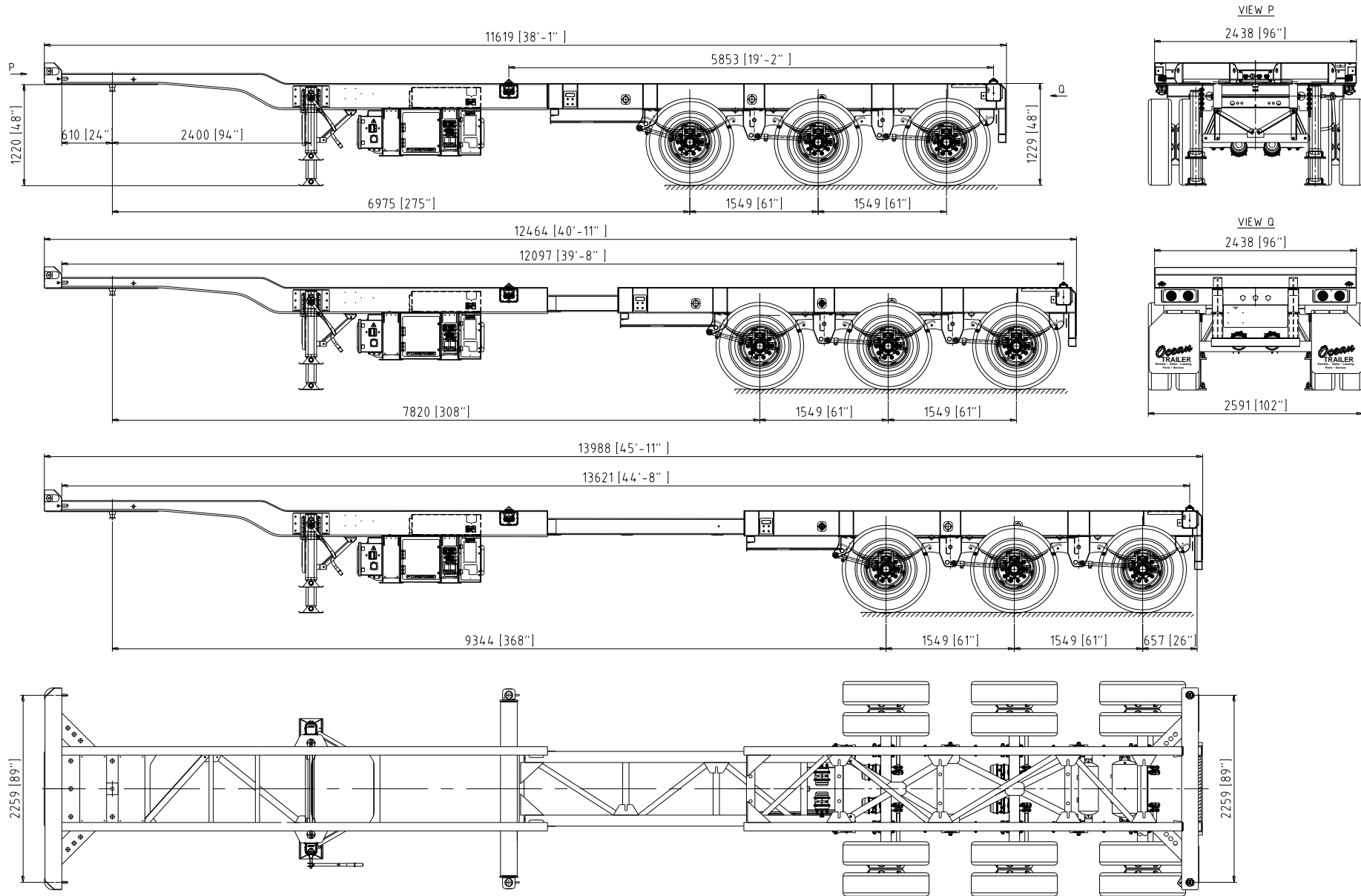
<b>Front Main beam:</b>	Fabricated I-beam with high strength Grade 80 steel 4" x 1/2" top flange and 4" x 25/32" bottom flange with 3/8" web.
<b>Cross member:</b>	Fabricated 3/16" thick channel with profiled bar type diagonal brace.
<b>Upper Coupler:</b>	5/16" pick up plate with <b>JUST</b> 2" diameter square type king pin per SAE standard, 380-420 HB, with 2" water drain holes, design to be integrated with main frame through welding.
<b>Front Bolster:</b>	8" wide x 10" high x 1/4" thick open section, with 3-1/2" chamfer in full length for gathering container in operation. 7-way receptacle and glad hands are located in the center of front bolster. Casted corner caps ( <b>TOCA 905-940-000-RS/CS</b> ).
<b>Front Locking pin:</b>	<b>TOCA 905-910-000-LH/RH</b>
<b>Center Bolster:</b>	5-7/8" wide x 3/8" thick top plate with 5" wide x 5" deep x 5/16" thick "U" type bottom channel. Grade 80 steel.
<b>Center twist Lock:</b>	<b>TOCA 905-160-000</b>
<b>Rear Bolster:</b>	8" wide x 3/8" thick top plate with 6 7/8" wide x 8" deep x 1/4" thick "U" type bottom channel.
<b>Rear twist Lock:</b>	<b>TOCA 905-130-000-90-LH/RH</b>
<b>Rear Bumper:</b>	4" x 4" square tube step with taper "H" section vertical member with 4" wide x 3/8" thick steel flange and 1/4" thick web. Bar is welded to uprights and main beam.
<b>Extension Beam:</b>	Fabricated 7-5/8" tall x 5-1/4" wide I-beam with high strength Grade 100 steel flanges.
<b>Rear Main beam:</b>	W12@19lb/ft hot-rolled H-beam, ASTM A572 Grade 50 or equivalent.
<b>Locking system:</b>	Air operated locking pins, Activated by <b>24/24</b> spring brakes on both sides of the trailer through third glad hand on front sill.
<b>Landing Gear:</b>	<b>AXN</b> FW32E00J with 60,000 lbs capacity, 2-speed 17" travel with low "T" shoes. Crank handle is located on the driver's side of the chassis. Pre-painted <b>BLACK RAL9005</b> color. Landing gear brackets are bolted on the main beam as the layout.
<b>Suspension:</b>	<b>AXN OS 61"</b> tri-axle, overslung configuration with high-arch 3-leaf spring (354-00). Pre-painted <b>BLACK RAL9005</b> color.
<b>Axles:</b>	<b>AXN</b> 5" round axles with 22500lb capacity; 77.5" track, Q+ 16.5"X7" 4707Q brake with <b>AXN</b> R23 linings. Dust shields are provided. Pre-painted <b>BLACK RAL9005</b> color. 1.5-28 spline, <b>HALDEX</b> 5.5" automatic slack adjusters. Reserved PSI interface; Heat Sensing Labels. Axle Installation orientation: 90 degrees rear, Chambers DOWN (2 abs ready front and rear, 1 non abs mid per unit).
<b>Wheel end:</b>	<b>AXN</b> Hub & Drum Assembly P/N H30-0647BFNTZ/H30-0647BFNZ, <b>STEMCO</b> 358-4009 Integrated Sentinel Grease Hub Cap, <b>STEMCO</b> seals and bearings. Spindle nut: <b>STEMCO Pro-Torq</b> P/N 447-4743. (5-year warranty wheelend).
<b>Lubricant:</b>	<b>Petro Canada precision synthetic EP 00 semi fluid</b> grease lubricant.
<b>Wheels:</b>	<b>SUNRISE</b> 22.5 x 8.25 10-stud hub-piloted wheels with 5 hand holes and with TR572 valve stem. Pre-painted white color.
<b>Tires:</b>	<b>SAILUN</b> 11R22.5-16PR tubeless type, <b>S665</b> tread without owner's logo.
<b>Brake System:</b>	<b>SEALCO</b> 110800 spring brake priority valve system, <b>SEALCO</b> 110580 control line valve and <b>WABCO</b> 4S/2M ABS system. <b>PHILLIPS</b> glad hand 12-13807 and 12-13607, 3/8" blue air tube for control and 1/2" red for supply. <b>HALDEX</b> Goldseal T30/30, 2.5" stroke brake chamber. <b>FUWA</b> air tanks.
<b>Electrical:</b>	<b>PHILLIPS</b> mold seal wiring harness, Reserved PSI and GPS connector. (10-year warranty) <b>OPTRONICS</b> LED lights (amp connections for S/T/T lights and .180 bullets for others). The theft proof design used for 4" LED lighting.
<b>Electrical Receptacle:</b>	<b>PHILLIPS</b> 15-7292 zinc alloy material with solid pins.
<b>Document Holder:</b>	<b>PHILLIPS</b> 16-802. Installed on roadside near crank handle.
<b>Conspicuity tape:</b>	"AVERY" brand. Installed per federal regulations.
<b>Painting:</b>	Abrasive blast of all metal surfaces - not less than SA-2.5 to achieve clean bare steel. Surface will be coated with electrophoresis primer and true acrylic aliphatic urethane topcoat. Color <b>BLACK RAL9005</b> and at the corner painted <b>YELLOW</b> color. Total thickness not less than 80µm after dry membrane. Coating supplier: <b>NOROO</b>
<b>Marking:</b>	<b>Customer</b> configuration (includes Decal, layout, VIN, nameplate)
<b>Hubodometer:</b>	<b>NONE</b>
<b>Tire Inflation System</b>	<b>NONE</b>
<b>Mud flaps</b>	30"x24"x1/4" Black PVC mud flaps with "customer" logo.

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# THACO SPECIAL VEHICLES MANUFACTURING LIMITED COMPANY

Add: Chu Lai-Truong Hai Automotive Industrial Zone Tam Hiep Commune-Nui Thanh District-Quang Nam Province

## 4. Layout



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