

20' SL TANDEM WITH FIFTH WHEEL Specification

Released on November 30th, 2023

1. **Model:** TITS/2ASH2004ICA **Contract No.:** THACO-OT-23 __ (___/___) UNITS
This chassis is designed for transporting a 20' ISO container for B-train operation in highway.
This chassis meets all DOT, AAR, ANSI, TOFC, CMVSS, SAE and TTMA specifications.

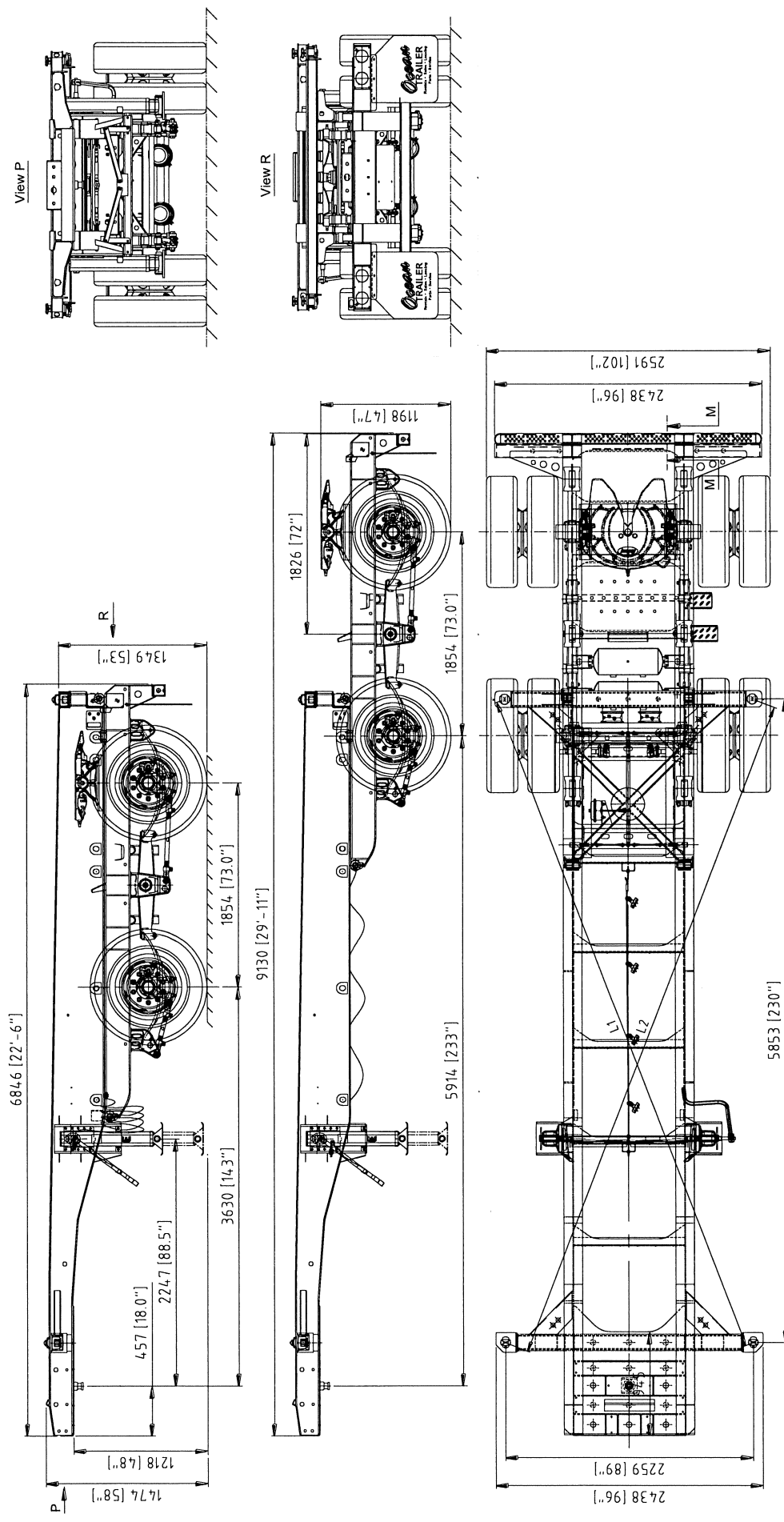
2. General

Overall Length:	22'-6" (retracted) or 29'-11" (extended)
Overall Width:	96" (over tire 102")
Overall Height:	59"
Fifth Wheel Height:	48 ± 1"
Rear Deck Height	52 1/2 ± 1"
Kingpin Location:	18" (From the front face of the pick-up plate)
Landing Gear Location:	88 1/2" (From the kingpin center)
Tandem location:	72" (From rear face of rear bumper)
Axle Spread:	73"
Tare Weight:	8,800 lbs ± 2%
Payload:	52,910 lbs (24,000kgs)

3. Steel Structure & Components

Main beam:	Fabricated H-beam with 1/2" x 6 3/4" top and bottom flanges and 5/16" thick web, ASTM A572 Grade 50 or equivalent.
Cross member:	1/4" thick channel with profiled bar type diagonal brace.
Upper Coupler:	5/16" pick up plate with JOST 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.
Upper Coupler rails:	Fabricated steel.
Front Bolster:	A572 grade 50 steel 5 7/8" x 4" rectangle bolster fabricated by 1/2" thick top plate and 5/16" thick bottom plate with 3/8" thick side plates.
Rear Bolster:	A572 grade 50 steel 5 7/8" x 4" rectangle bolster fabricated by 1/2" thick top and bottom plates with 3/8" thick side plates.
Sliding extension beam:	9" deep fabricated "H" beam with reinforced web, ASTM A572 Grade 50 or equivalent. Easily operated self-locating and self-locking spring loaded pin mechanism is used to lock the frame activated by a single brake chamber on the slider beam of the trailer through third gladhand on front sill.
Rear Bumper:	4" x 4" square tube step with taper "H" section vertical member. Bar is welded to uprights and main beam.
License plate bracket:	Extending from rear bolster within envelope of ICC bumper. Plate is to contain rear fleet number & license plate.
Twist Lock:	TOCA 905-800-400B/500B for front bolster assembly and TOCA 905-160-000 for rear bolster assembly.
Landing Gear:	AXN FW32E00J with 60,000 lbs capacity, 2-speed 19" travel with low "T" shoes. Crank handle is located on the driver's side of the chassis. Pre-painted BLACK RAL9005 color. Landing gear brackets are welded on the main beam as the layout.
Suspension:	AXN mechanical tandem suspension, underslung configuration; 73" axle space with high-arch 3-leaf spring (354-00) with 40" spring hanger center. Pre-painted BLACK RAL9005 color.
Axles:	AXN 5" round axles with 22,500lb capacity; 77.5" track, Q+ 16.5"X7" 4707Q brake with AXN R23 linings. Dust shields are provided. Pre-painted BLACK RAL9005 color. 1.5-28 spline, HALDEX 5.5" automatic slack adjusters with stroke indicators. Reserved PSI interface; Heat Sensing Labels. Axle Installation orientation: 90 degrees REAR, chambers DOWN (1 abs ready front, 1 non abs rear per unit).
Wheel end:	AXN Hub & Drum Assembly P/N H30-0647BFNTZ/H30-0647BFNZ. STEMCO 358-4009 Integrated Sentinel Grease Hub Cap. STEMCO seals and bearings. Spindle nut: STEMCO Pro-Torq P/N 447-4743. (5-year warranty wheelend).
Lubricant:	Petro Canada precision synthetic EP 00 semi fluid grease lubricant.
Wheels:	SUNRISE 22.5 x 8.25 10-stud hub-piloted wheels with 5 hand holes and with TR572 valve stem. Pre-painted WHITE color.
Tires:	SAILUN 11R22.5-16PR tubeless type, S665 tread.
Brake System:	SEALCO 110800 spring brake priority valve system, SEALCO 110580 control line valve and WABCO 2S/1M ABS system. PHILLIPS glad hand 12-0061 and 12-0081. TECTRAN 3/8" blue air tube for control and 1/2" red for supply. HALDEX Goldseal T30/30, 2.5" stroke brake chamber. FUWA air tanks.
Electrical:	PHILLIPS mold seal wiring harness, Reserved PSI and GPS connector. (10-year warranty). OPTRONICS LED lights (amp connections for S/T/T lights and .180 bullets for others). The theft proof design used for 4" LED lighting.
Electrical Receptacle:	PHILLIPS 15-7292 zinc alloy material with solid pins.
Document Holder:	PHILLIPS 16-802. Installed on roadside near crank handle.
Conspicuity tape:	"AVERY" brand. Installed per federal regulations.
Painting:	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 powder topcoat. Color BLACK RAL9005 and at the corner painted YELLOW color. Total thickness not less than 80µm after dry membrane. Coating supplier: PPG.
Marking:	OTR configuration (includes Decal, layout, nameplate).
Hubodometer:	NONE
Tire Inflation System:	NONE
Mud flaps:	24"x24"x1/4" (610X610X6mm) Black PVC mud flaps with "OTR" logo and address.
Rear fifth wheel:	HOLLAND weld-on type FW35.

4. Layout



confirmed by CUSTOMER

confirmed by THACO