LIVE PUP - ROLL OFF TRAILERS
MODELS: TT - Models

RAIL/MODEL TYPES: OR, IO, HH, EX, TM

(TT) - Texas Tongue roll-off cable hoist trailers are ideal for transporting two container loads safely and effectively when used in conjunction with a roll off truck. These trailers allow users to haul loads with or without roll off ready trucks. The TT is specifically designed to work integrally with Galbreath’s pintle adaptable aprons, which allow for jackknifing the trailer for over-the-tongue dumping without having to disconnect. They can be built to accommodate the majority of regional container types from the industry standard (OR) - outside rail, (IO) - inside & outside rail, (HH) - deadlift, (EX) - outside rail extendable tail and (TM) - trough mount with troughs from 6” to 12” wide and various tail flaring options.
**Standard Features**

- Formed drop tongue drawbar for clearance behind roll off trucks (jackknife capable)
- Outside manual controls mounted at front of hoist
- (2) sets of Nylon Ratchet Hold Downs (front and rear)
- Automatic spring loaded (pass through type) - not included on TM-models
- 1 ½” Steel Plates, Cupped for Std. 4” Roller & (Moveable Stop Blocks on TM-models)
- 4” O.D. with bronze bushings (not available on TM-models)
- 10” O.D. with grease grooved bronze bushings
- Inside Rail Rollers on IO-Model only
- 6” Bolt On Rear Ground Roller or California light bar on TM-models
- 2 spool / 45 GPM w/ safety bypass
- HD Rear Apron w/ Split Bumpers Hoist Up Alarm & LED Lighting
- Mid-Body LED Turn Signal Lights
- Driver’s Side ABS Indicator Light mounted to front of fender
- Hoist Maintenance/Safety Prop
- Warranty: 12 Months & 2 years limited on hydraulic components
- Engineered and manufactured in the US

### FEATURE | PUP TRAILERS
---|---
Trailer Frame | 12” - A36 Steel - Milled I-Beam
Cross Members | 10 ½”x 4”x 3/16” - A36 Steel - Formed Channel
Trailer Tongue | Jackknife capable - Fabricated T-1 Steel and 10 ½”Beam w/ 3” Bolt On Pintle Lunette
Hoist main frame | 8”x 4”x 1/2” (3/8” on EX-model) - Structural tubing A500 Grade C
Hinge shaft | 2½” Rear Pivot - Solid Steel
Bumper | 7-Gauge manufactured channel w/ recessed & sealed LED Lighting
Landing Gear | 50,000 lb. Two Speed Twin Leg Landing Gear
Suspension/Axles | 50,000 lb. Hutch Single Point Suspension w/ 25K lb. Oil Filled Axles
Wheels & Tires | 10-Hole Hub Piloted Steel Rims w/ 11R/22.5 Tires - 16 Ply & Wheel Check Indicators
Front Safety Lock | Automatic spring loaded (pass through type) - not included on TM-models
Front stops | 1 ½” Steel Plates, Cupped for Std. 4” Roller & (Moveable Stop Blocks on TM-models)
Container Hold downs | (2) sets of Nylon Ratchet Hold Downs - 2-front & 2 rear
Outside Rollers | 4” O.D. with bronze bushings (not available on TM-models)
Cable | 7/8” - 6 x 37 EXIWRC Domestic Cable
Cable End | Swivel Eye on ORLEX models (w/ latch - IO model); Knuckle on HH model; Master Hook on TM model
Cable Anchors | © cable clamps
Cable Sheaves | 10” O.D. with grease grooved bronze bushings
Lift cylinders | (2) - 6” Dual acting rod type
Winch cylinders | (2) - 6” Dual acting rod type
Hydraulic valve | 2 spool / 45 GPM w/ safety bypass
Hydraulic Hoses | Quik Disconnects - 1” female (pressure line) & 1 1/4” male (return line) - 3,000 psi minimum rating
*Hydraulic Requirements | Requires - 1,850 psi (2,500 psi max) with 37.5 GPM flow rating
*Oil reservoir | Requires - 50 gallon capacity tank or 80 gallon tank when used with roll off hoist truck

*Items that are not included as standard with these units
Optional Equipment

OR (outside rail), IO (inside/outside rail), HH (deadlift), EX (extendible tail), TM (trough mount) Models

- Pioneer® tarping systems
- Lift Axles, Rims and Tires (various sizes, styles and ratings)
- Spare Tire Carriers (Side or Underbody)
- Auxiliary Stops (Fold over the cylinder; Fold down in-frame; Over the roller)
- Auxiliary Hold Downs
- Variety of Fenders (Steel, Alum. & Poly)
- Variety of Toolbox styles and sizes (Steel, Alum. & Poly)
- Scale Systems
- Hydraulic landing gear
- Telescopic lift cylinders
- Adjustable Pintle Eye Mounting Plate
- Outboard Supported Side Rollers
- T-1 Steel Wear Strips (standard on extendible tail models)
- Four Wire Hoses and Hose Protection Sleeves
- Side Mounted Skid Plates (Rear Wing or Full Length)
- LED Work Lights

HH (deadlift) Model w/ Knuckle Cable End
TM (trough mount) Model (6” to 10” available) w/ Master Hook, Oval or Pear Eye Cable Ends
EX (extendible tail) Model w/ Swivel Eye Cable End
IO (inside/outside rail) Model w/ Swivel Eye Cable End w/ Latch

Pioneer® tarping systems
Spare Tire Carriers (side or under body)
Lift Axles, Rims, Tires and variety of Fender types and styles
Toolbox styles and sizes (steel, aluminum & Poly)
Hydraulic single leg landing gear

Outboard Supported Side Rollers
LED Work Lights mounted on front gantry or post and recessed in bumper or bolted onto bumper

TT-OR-176 shown w/ Pioneer tarper, hydraulic landing gear and steel fender options
Notes for chart above:

1) When recommending container lengths: weight distribution, fender interference and overhang are all factors. Please consult your local ordinances when determining the model of trailer needed to suit your container needs.

2) Factory tested with recommended container length and water level load.

3) Frame Height = Top of trailer frame to ground. Using 22.5" tires only. Tested w/ 46" frame height, for use with larger tires please consult engineering for clearance and capacity ratings.

Models

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Recommended Container Size ¹</td>
<td>18’ to 22’</td>
<td>18’ to 22’</td>
<td>18’ to 22’</td>
<td>18’ to 22’</td>
<td>18’ to 22’</td>
</tr>
<tr>
<td>Rated Hoist Capacity ²</td>
<td>40k lbs.</td>
<td>40k lbs.</td>
<td>40k lbs.</td>
<td>40k lbs.</td>
<td>40k lbs.</td>
</tr>
<tr>
<td>Overall Trailer Length (‘G’ + ‘I’ measurements)</td>
<td>430” or 35' 10”</td>
<td>430” or 35' 10”</td>
<td>376” or 31' 4”</td>
<td>388” or 32' 4”</td>
<td>430” or 35' 10”</td>
</tr>
<tr>
<td>A – Drawbar to Jack</td>
<td>143 ¾”</td>
<td>143 ¾”</td>
<td>143 ¾”</td>
<td>143 ¾”</td>
<td>143 ¾”</td>
</tr>
<tr>
<td>B – Tandem Spread</td>
<td>53”</td>
<td>53”</td>
<td>53”</td>
<td>53”</td>
<td>53”</td>
</tr>
<tr>
<td>C – Dump Angle</td>
<td>47°</td>
<td>47°</td>
<td>47°</td>
<td>47°</td>
<td>47°</td>
</tr>
<tr>
<td>C1 – Load Angle (EX-model only)</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>31°</td>
<td>—</td>
</tr>
<tr>
<td>D – Frame Height - ³</td>
<td>46”</td>
<td>46”</td>
<td>46”</td>
<td>46”</td>
<td>46”</td>
</tr>
<tr>
<td>E – Tandem Tire Width</td>
<td>95 ½”</td>
<td>95 ½”</td>
<td>95 ½”</td>
<td>95 ½”</td>
<td>95 ½”</td>
</tr>
<tr>
<td>F – Raised Height</td>
<td>161”</td>
<td>161”</td>
<td>164”</td>
<td>161”</td>
<td>164”</td>
</tr>
<tr>
<td>G – Wheelbase (drawbar to trunnion)</td>
<td>319 ½”</td>
<td>319 ½”</td>
<td>319 ½”</td>
<td>319 ½”</td>
<td>319 ½”</td>
</tr>
<tr>
<td>H – Hoist Body Length</td>
<td>280”</td>
<td>280”</td>
<td>226”</td>
<td>237”</td>
<td>280”</td>
</tr>
<tr>
<td>I – Tandem trunnion to tail of hoist</td>
<td>110 ½”</td>
<td>110 ½”</td>
<td>56 ½”</td>
<td>68 ½”</td>
<td>110 ½”</td>
</tr>
<tr>
<td>Lift Cylinders - (2) dual acting rod type</td>
<td>6” x 4” x 72”</td>
<td>6” x 4” x 72”</td>
<td>6” x 4” x 72”</td>
<td>6” x 4” x 72”</td>
<td>6” x 4” x 72”</td>
</tr>
<tr>
<td>Winch Cylinders - (2) dual acting rod type</td>
<td>6” x 4” x 80”</td>
<td>6” x 4” x 80”</td>
<td>6” x 4” x 80”</td>
<td>6” x 4” x 80”</td>
<td>6” x 4” x 80”</td>
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<tr>
<td>Extendible Tail Cylinder - (1) - (EX-model only)</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>3” x 2 ½” x 80”</td>
<td>n/a</td>
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<tr>
<td>Rear ICC Bumper (auto folding mechanical)</td>
<td>standard</td>
<td>standard</td>
<td>n/a</td>
<td>n/a</td>
<td>standard</td>
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<tr>
<td>Approximate Weight w/ Standard Features</td>
<td>13,970 lbs.</td>
<td>14,262 lbs.</td>
<td>13,755 lbs.</td>
<td>14,634 lbs.</td>
<td>14,930 lbs.</td>
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</table>

*Theoretical times shown for the TT-OR-176

* Containers that overhang the rear of the trailer’s bumper (Fixed ICC or Folding ICC) by more than 24” will require the appropriate flagging to meet DOT requirements *

Cycle Times @ 1,850 PSI & 37.5 GPM @ 1,500 RPM

<table>
<thead>
<tr>
<th>Operation</th>
<th>Time (sec)</th>
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<tbody>
<tr>
<td>Hoist Up</td>
<td>30</td>
</tr>
<tr>
<td>Hoist Down</td>
<td>15</td>
</tr>
<tr>
<td>Winch On</td>
<td>34</td>
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<tr>
<td>Winch Off</td>
<td>19</td>
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</table>
Minimum Truck Requirements (Tandem Axle)

Axle Rating: 12,000 Front / 44,000 Rear

Hydraulic System (Tractor): 50 gallon reservoir w/ 37.5 GPM @ 1,500 RPM, 1,850 PSI or greater wet kit capable

Hydraulic System (Roll Off Truck): 80 gallon reservoir w/ 37.5 GPM @ 1,500 RPM, 1,850 PSI or greater wet kit capable

*Recommended use with similar hoses or larger to match the trailer’s hydraulic system.

Hoses from truck/tractor need to support the following hose ends:

1" female quick disconnect (pressure line) connections must be thread type

1 ¼" male quick disconnect (return line) connections must be thread type

Cable End Types; Trough Channel Section; Trough Mount Front Stop Types

Other Model Types & Configurations

TT-IO-176 Inside/Outside Rail

TT-EX-176 Outside Rail Extendible Tail

TT-HH-176 Narrow Outside Rail - "Deadlift"

TT-TM-176 Trough Mount
OUTSIDE RAIL CONTAINER REQUIREMENTS

INSIDE RAIL CONTAINER REQUIREMENTS

DEADLIFT CONTAINER REQUIREMENTS

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