
Uni-Level Railcar

Uni-Level Introduction

TTUX Uni-Level Railcar



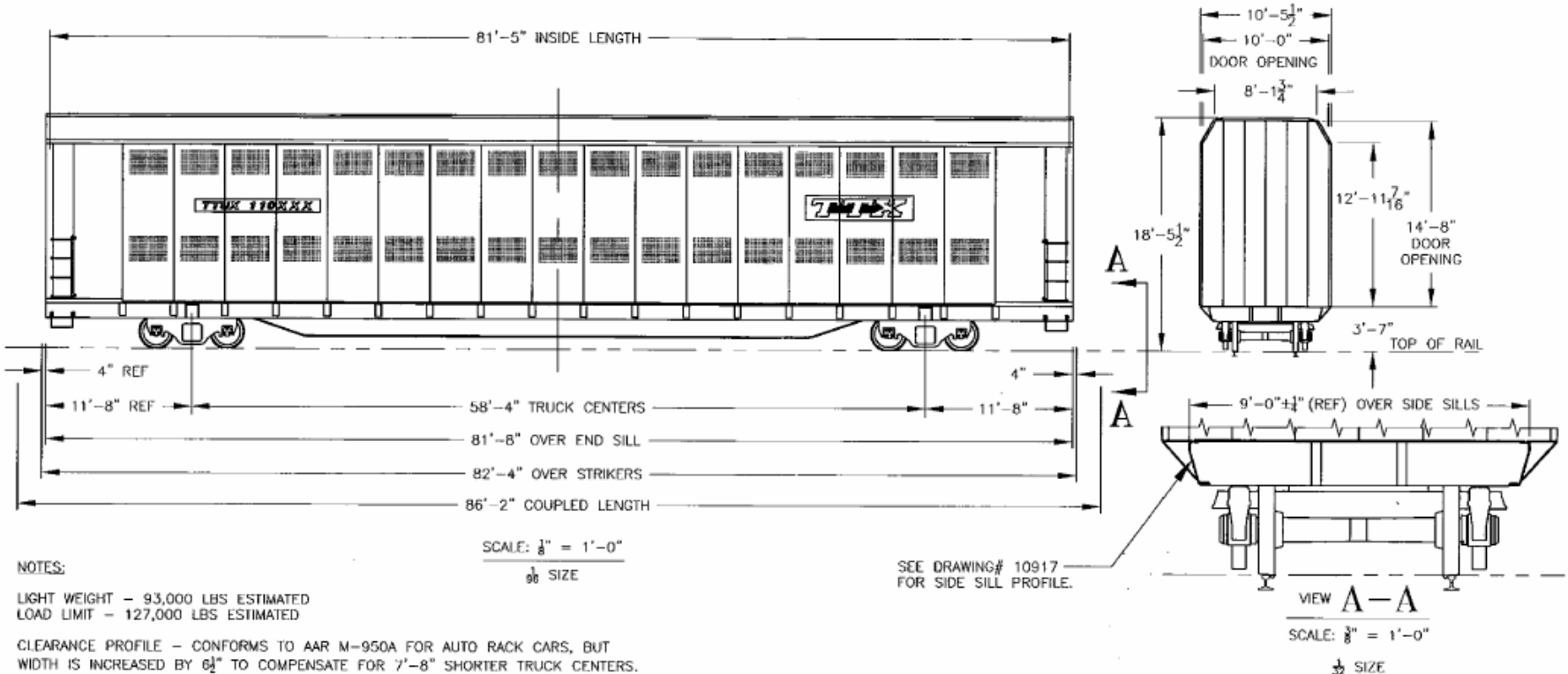
TTUX Railcar – Tri Fold Door/Entry



Uni-Level Car Dimensions

- Inside Length - 81'5"
 - Door Opening – 10' wide by 14'8" high
 - Interior width – 10' 5"
 - Tri-fold end doors
 - Load limit – 127,000 pounds
 - Vehicle securement – Floor tracks, winches and harnesses
 - Conforms to AAR M-950 and M-951A clearance limits for auto racks
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TTUX Uni-Level Car Specifications



NOTES:

LIGHT WEIGHT - 93,000 LBS ESTIMATED
 LOAD LIMIT - 127,000 LBS ESTIMATED

CLEARANCE PROFILE - CONFORMS TO AAR M-950A FOR AUTO RACK CARS, BUT WIDTH IS INCREASED BY 6 1/4" TO COMPENSATE FOR 7'-8" SHORTER TRUCK CENTERS.

TRUCKS - NATIONAL SWING MOTION WITH 33" WHEELS AND 4 1/4" TRAVEL SPRINGS
 COUPLER CUSHIONING - 10" TRAVEL M-921D EOCC UNITS PORTED FOR RACK CARS

END DOORS - TRI-FOLD TYPE HINGED AT SIDES

VEHICLE SECUREMENT - FLOOR TRACKS AND WINCHES WITH WEBBING TIRE HARNESSSES

CAR WILL BE SUPPLIED WITH TWO DETACHABLE BRIDGE PLATES RATED AT 11,000 LBS

B	NO CHANGES	02-28-03	JAF/
A	INITIAL ISSUE	02-25-03	JAF/
ITEM	REVISIONS	DATE	INT

TOLERANCE UNLESS OTHERWISE SPECIFIED = ± 1/16"

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WGHT	REFERENCE NUMBER	REFERENCE DRAWINGS
		D-13407

MATERIAL:	
MI/SL:	01
APPLIES TO:	TTUX



GENERAL ARRANGEMENT
 18FT 5-1/2IN HIGH
 UNI-LEVEL CAR

DR. BPP	CH. JAF/	APP. RWB	DATE: 02-25-03	13485
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Portec Chock and Harness



**Installed on 40" Diameter
Tire**

Chocks and Clearance



Benefits Of Uni-Level

- Competitive quality advantage sets a new industry standard
 - Deliver factory fresh vehicles, damage free
 - Current automotive industry averages 99.7% damage free shipments
 - Reduction in warranty claims
 - Meet delivery commitments through use of existing automotive infrastructure
 - Unilevel option frees up critical resources
 - Haulaway/Driveaway driver shortages
 - Cost to procure, inventory, and manage saddles for piggybacking
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Benefits Of Uni-Level

- Simplified delivery process for flat loading of units
 - Vehicles are driven on and off
 - Eliminates decking and undocking costs and damage
 - Eliminates the need to remove and reinstall components (air foils, axles, stacks, etc.)
 - Creates new delivery options such as dealer pickup of vehicles or forward placement of inventory
 - Provides overall vehicle transportation cost savings
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What Services Are Available?

- Load Planning
- Optimized Mode Selection
- Automated Load tender
- Freight payment
- Carrier settlement
- Vehicle Inspection
- Document imaging
- Automatic alerts
- Claims management
- Web based VIN visibility
- On line pipeline and management reports
- Strategic Network
 - Optimization
 - Design
 - Implementation

Select only those services that meet your needs

The Uni-Level car is designed to handle a variety of heavy duty vehicles

trucks – busses - RV's – chassis – military vehicles – farm machinery – tow trucks – street sweepers – high rail – delivery vans

Up-fitter Units - Fire trucks



Trucks Driving From One Car To The Next



Sprinter Van



Recreational Vehicles



Military Vehicles



Farm Machinery



Norfolk Southern Puts It All Together

- NS creates a new paradigm for large vehicle delivery
 - NS/Modalgistics will integrate with your existing carrier base
 - Uni-Level advantages include:
 - Fully managed Supply Chain with optimized modal selection
 - Integrates existing modes and carriers
 - Reduces damage and improves quality
 - Complete network solution including VIN visibility and alerts
 - Competitive per unit delivered cost
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