

## EQUIPMENT NEEDED FOR PURCHASE

# OF CARS	DOT / CLASS	CAPACITY	COMMENTS	PRODUCT	REF #
1	111A100W3	20,000	Storage		13020
3	<i>111A100W1</i>	<i>23,500</i>	<i>Non-Coiled, Non-Insulated, Top &amp; Bottom Unloading</i>		<i>13041</i>
30	111A100W1	25,500		Oils	13035
25+	<i>BOX</i>	<i>50'</i>	<i>100 Ton Trucks</i>		<i>13054</i>
ANY	<i>BOX</i>	<i>50'</i>			<i>13060</i>
25+	<i>BOX</i>	<i>60'</i>	<i>100 Ton Trucks, Plate C</i>		<i>13055</i>
25+	<i>FLAT</i>	<i>60'-65'</i>	<i>100 Ton Trucks, Bulkheads</i>		<i>13056</i>
ANY	<i>FLAT</i>	<i>89'</i>	<i>70 Ton Trucks</i>		<i>13058</i>
ANY	<i>FLAT</i>	<i>89'</i>	<i>100 Ton Trucks</i>		<i>13059</i>
10	GONDOLA	2,000			13024
ANY	<i>GONDOLA</i>	<i>2,100+</i>	<i>Flat / Mill</i>		<i>13052</i>
50	GONDOLA	4,000+	Flat Bottom, 100 Ton Trucks	Scrap / Steel	13015
Any	GONDOLA	6,000+		Woodchip	13030
25	HOPPER	2,500+		Ballast	13026
100	HOPPER	4,000	Aluminum, 100 Ton Trucks		13036
200	<i>LO</i>	<i>3,000</i>		<i>Sand</i>	<i>13043</i>
25+	<i>LO</i>	<i>3,200-3,280</i>		<i>Sand</i>	<i>13057</i>
50	LO	4,650	Trough Hatches, Gravity Gates		13022
100-200	LO	4,750	Trough Hatches, Gravity Gates	Grain	12769
50	LO	5,750	Trough Hatches, 110 Ton Trucks	Grain	12731
50	PD	5,250	Lined		13023

### AUTOMATIC TRAIN CONTROL

With all the talk over the past year or so in regard to Positive Train Control (PTC), it is easy to forget that various forms of train control are nearly as old as trains themselves. The simplest forms could be lanterns of various colors, indicating stop or go.

The first fixed signals in America were installed on the Newcastle and Frenchtown Railroad in 1832. They were balls on masts, raised and lowered by signal men to indicate permissible speeds. A low ball required a stop and a high ball allowed full speed. This is the origination of the term "highballing". The first mechanical interlocking was installed in England in 1843; the signal man operating the switches with his hands and the signals with his feet. In 1851, Morse Code was used to send train orders on the New York and Erie Railroad. Two years later the Philadelphia and Reading Railroad installed signal towers relaying information of forward track occupancy. Gate signals were created in 1860. A red banner by day or a red light by night indicated a stop.

Shortly thereafter, more complex train control systems were put in place. By 1866, an automatic electric block signal system was installed in the New Haven System in Meriden, Conn. In 1868 the Pennsylvania Railroad was able to use the Morse telegraph circuit to set a stop-danger position at any remote station. As early as 1871 a system of automatic block signals comparable to current systems was in place on the New York and Harlem as well as the Eastern RR.

Though much has changed over the years, Positive Train Control has clearly been a long time in the making.

[www.princeton.edu/~ota/disk3/1976/7614/761414.pdf](http://www.princeton.edu/~ota/disk3/1976/7614/761414.pdf)  
<https://en.wikipedia.org/wiki/interlocking>  
[https://en.wikipedia.org/wiki/Automatic\\_block\\_signaling](https://en.wikipedia.org/wiki/Automatic_block_signaling)

Items Highlighted In Italics Designate New Listings



## RAILWAY EQUIPMENT LISTING Published By: TRANSMATRIX, INC.

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### EQUIPMENT AVAILABLE FOR LEASE

# OF CARS	DOT / CLASS	CAPACITY	COMMENTS	LAST CONTENTS	REF #
50	AAR 211	19,500	Bottom Unloading Only	New Cars	13021
15	111A100W1	20,000	Short Term	Animal Feed	13018
3	111A100W1	20,000	Interior Coils, Non-Insulated, Top & Bottom Unloading	Magnesium Chloride	12808
50	111A100W3	20,000	Exterior Coils, Insulated, 110 Ton Trucks		12873
50	111A100W3	20,000	Exterior Coils, Insulated	Decanted Oil	12878
10	111A100W3	23,500	Exterior Coils, Insulated	Bio Diesel	12866
15	111A100W3	23,500	Exterior Coils, Insulated, Top & Bottom Unloading	Tar Oil	12746
250	AAR 211	23,500	110 Ton Trucks		13003
8	111A100W3	23,800	Exterior Coils, Insulated, Hazmat Equipped	Various	12809
125	111A100W1	25,500	110 Ton Trucks		13004
16	111A100W1	27,000	Non-coiled, Non-insulated, No Into Service Freight	Petroleum Waste Oil	12990
23	111A100W1	30,000	Non-Coiled, Non-Insulated, Clean or Last Contents	Ethanol	12868
3	117A100W1	30,000	New Cars, 110 Ton Trucks, Top Unloading, Meets all Packing Group requirements, Can be returned well drained if used in ethanol		12774
25	<i>112J400W</i>	<i>33,500</i>	<i>Non-Coiled, Non-Insulated, Top Unload Only</i>	<i>Anhydrous Ammonia</i>	<i>13050</i>
8	BOX	60'	100 Ton Trucks, Single Plug Doors, Load Dividers	Bagged Products	13009
100+	<i>GONDOLA</i>	<i>6,500</i>	<i>Extended Sides</i>	<i>Coal</i>	<i>13039</i>
75	HOPPER	3,840	Steel, Manual Gates, 110 Ton Trucks		12707
120	HOPPER	4,000	Manual Gates, 110 Ton Trucks	Coal	13011
24	<i>LO</i>	<i>5,750</i>	<i>Trough Hatches, Gravity Gates</i>	<i>Malted Barley</i>	<i>13048</i>
200	LO	5,800	Pneumatic Gates	Plastic Pellet	13007
41	PD	5,125-5,230	110 Ton Trucks, Some w/ Food Grade Linings	Flour	12991
24	<i>PD</i>	<i>5,125</i>	<i>Lined</i>		<i>13044</i>
36	PD	5,150	100 Ton Trucks, Lined	Flour	13014

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## EQUIPMENT NEEDED FOR LEASE

# OF CARS	DOT / CLASS	CAPACITY	COMMENTS	PRODUCT	REF #
10	111A100W1	13,000	Bottom Unloading	Titanium Dioxide	12825
<b>2-3</b>	<b>111A100W1</b>	<b>20,000</b>	<b>Non-Coiled, Non-Insulated</b>	<b>Lube Oil</b>	<b>13045</b>
1-10	111A100W1	20,000	Lining Preferred, Short Term	Ligno Sulfonate	12845
1-3	111A100W1	20,000+	2 Compartments, Top & Bottom Unloading	Solvents	12843
50-75	111A100W3	20,000		Iso-cyanates	13019
2	111A100W3	21,000	Exterior Coils, Insulated, Lined	Urea Liquor	12737
20-40	111A100W3	21,000	Exterior Coils, Insulated, 100 or 110 Ton Trucks		13029
<b>3</b>	<b>111A100W1</b>	<b>23,500</b>	<b>Non-Coiled, Non-Insulated, Top &amp; Bottom Unloading</b>		<b>13041</b>
1-15	111A100W1	23,500		Dicyclopentadiene	12673
10	111A100W1	25,500	Short Term	Crude Glycerine	12871
6	111A100W3	23,500	Lining OK	Fish Oil	13027
5	111A100W1	26,000	Top & Bottom Unloading	Lube Oil	12736
<b>4</b>	<b>111A100W1</b>	<b>30,000</b>	<b>Non-Coiled, Non-Insulated, Top &amp; Bottom Unloading</b>	<b>Solvent</b>	<b>13051</b>
10	111A100W1	30,000	Short Term	Fuel Oil	13031
4	111A100W1	30,000	Top & Bottom Unloading, Hazmat Equipped	Ethanol	12780
1	111A100W1	30,000		Lube Oil	13000
3	111A100W1	30,000	Top & Bottom Unloading	Fuel	12728
5	FLAT	60'	Steel Decks, Bulkheads		12798
25	FLAT	85'	110 Ton Trucks	Containers	12841
<b>ANY</b>	<b>FLAT</b>	<b>89'</b>	<b>100 Ton Trucks</b>		<b>13059</b>
<b>50</b>	<b>GONDOLA</b>	<b>52'</b>	<b>Mill</b>		<b>13040</b>
200	GONDOLA	ANY	Mill		12710
5-10	GONDOLA	2,500	Mill	Iron Ore / Magnetite	12826
<b>50</b>	<b>GONDOLA</b>	<b>4,000</b>	<b>100 Ton Trucks</b>	<b>Coal</b>	<b>13061</b>
<b>450-500</b>	<b>GONDOLA</b>	<b>4,500</b>	<b>Rotary dump</b>		<b>13047</b>
100	GONDOLA	6,500+	Rotary dump	Woodchip	12997
<b>70-75</b>	<b>GONDOLA</b>	<b>7,200</b>		<b>Woodchip</b>	<b>13038</b>
<b>30-45</b>	<b>HOPPER</b>	<b>3,800</b>	<b>Rapid Discharge</b>	<b>Stone</b>	<b>13046</b>
ANY	HOPPER	3,800			12676
<b>200</b>	<b>LO</b>	<b>3,000</b>		<b>Sand</b>	<b>13042</b>

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## EQUIPMENT NEEDED FOR LEASE

# OF CARS	DOT / CLASS	CAPACITY	COMMENTS	PRODUCT	REF #
80	LO	3,200	110 Ton Trucks	Sand	12993
40	LO	4,750	Trough Hatches, Gravity Gates, Lined	Ammonium Nitrate	12694
50	LO	5,750	Trough Hatches, 110 Ton Trucks	Grain	12731
2	PD	5,000+	Airslide		12876

## EQUIPMENT AVAILABLE FOR SALE

# OF CARS	DOT / CLASS	CAPACITY	COMMENTS	LAST CONTENTS	REF #
67	AAR 211	25,500	110 Ton Trucks	Vegetable Oil	13008
<b>78</b>	<b>112J340W</b>	<b>34,500</b>	<b>Non Coiled, Insulated, Top Unload Only</b>	<b>Anhydrous Ammonia</b>	<b>13037</b>
57	BOX	50'	70 Ton Trucks, Single Center Sliding Door		13034
10	BOX	89'	10,000 Cubic Feet, 75 Ton Trucks		12998
55	FLAT	55'	To be converted to bridges		13006
90	FLAT	73'	Centerbeams w/ Risers, 110 Ton Trucks	Lumber	12891
61	FLAT	85'			12840
<b>71</b>	<b>GONDOLA</b>	<b>2,500</b>	<b>52', 100 Ton Trucks, Steel, Mill</b>		<b>13062</b>
25	GONDOLA	2,800	Mill Gondola, 110 Ton Trucks		12801
<b>38</b>	<b>GONDOLA</b>	<b>3,800</b>	<b>Rapid Discharge</b>	<b>Coal</b>	<b>13053</b>
33	GONDOLA	4,000	100 Ton Trucks		13028
300+	GONDOLA	4,400	Twin Tub, Aluminum, 110 Ton Trucks	Western Coal	12853
<b>8</b>	<b>GONDOLA</b>	<b>6,200</b>	<b>End Doors</b>	<b>Woodchips</b>	<b>13063</b>
90+	HOPPER	1,490	Longitudinal Gate	Ore	12678
7	HOPPER	2,100	Gravity Gates, 70 Ton Trucks	Ballast	12732
100	HOPPER	2,755	100 Ton Trucks	Ballast	13025
100	LO	3,200	2 Pocket, 110 Ton Trucks	Sand	12894
250	LO	3,200	2 Pocket, 110 Ton Trucks	Sand	12992
100	LO	3,220	2 Pocket, 110 Ton Trucks	Sand	12989
<b>15</b>	<b>LO</b>	<b>4,750</b>			<b>13049</b>
81	LO	4,750			13033
44	SCRAP	85'	133,000 Light Weight		12680

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