ROBERT YOUNG'S AUTO & TRUCK

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2024 PETERBILT 389 TRI-AXLE, 380" WHEELBASE w/NRC 40TB 30.5' TRIDEM AXLE

1. TOTAL SPECIFICATIONS (Driver's and Passenger's Side)

a. *Total Length................528" (44')*
b. *Wheelbase..................380" (31.6')*
c. *Gross Vehicle Weight Rating......62,500 lbs.*
d. *Tare Weight (Estimated & Max Weight Preferred)...25,000 lbs.*
e. *23,000 lbs Front Steer Axle Center Hub Location (Front to Rear)......31" (2.5')*
f. *Peterbilt 389 Stainless Steel 100 - Gallon Fuel Tank with Steps (Front to Rear).....81" to 129"*
g. *Zips In The Ditch SP50000 Sidepuller, (2) 25,000 lbs. Winches Boom 50,000 lbs. Capacity Integrated (Front to Rear):.........132" to 138"*
h. *Vulcan Omnipro 220 Industrial Multiprocess Welder with 120/240V Input - Enclosure*
i. *Fortress 5-Gallon 225 psi High Performance Wheeled Jobsite Air Compressor - Enclosure*
j. *Predator 3500 Watt Super Quiet Inverter Generator w/CO Secure Technology - Enclosure*
k. *Titanium 65-Amp Plasma Cutter Cuts 1 3/16" Thick Metal - Enclousre*
l. *(1) Heavy Duty Spreader Bars*
m. *23,000 lbs. Lift Steerable Axle Hub Location (Front to Rear)........299"*
n. *23,000 lbs. Front Drive Axle Hub Location (Front to Rear).......353"*
o. *23,000 lbs. Rear Drive Axle Hub Location (Front to rear) ....407"*
p. *Wheel Lift in Travel Position (Front to Rear)......528" (44')*

NRC 40-TON INDUSTRIAL CAR CARRIER CAPABILITIES LIMITATIONS

Chassis Height - 39" Max. Height
Loading Angle - 14.5 Degrees Max. Angle
Carrier Deck Height - 49.81" Max Deck Height

LOADING CAPABILITY	CARRIER DECK MAX. LOADING ANGLE	DECK HEIGHT IN FRONT @ 14.5-DEGREES	SHIPMENT MAX. HEIGHT AT 13'6"	EQUIPMENT	LOADING & UNLOADING REQUIREMENTS (Mathematically Defined)
Tunnel 13'6" Height	14.5 Degrees	90"	112" [9.3']	John Deere 310 Backhoe Height - 109" [9.16'] Length - 23.5' Width - 7.17' Weight - 14,429 lbs.	Back the backhoe on to the carrier deck. Make sure the front bucket is even or 1 to 2" on the interior of the deck. When i Slide the deck to load or off load. I need the highest point of the backhoe before the halfway point. So i will not exceed the 13'6" when i am unloading in a tunnel
Residential Block (Tree Limbs 13' Height Clearance)	14.5 Degrees	90"	112" [9.3']	John Deere 204K Compact Wheel Loader Height - 95" [7.9']	Loading or unloading i will drive the loader unto deck with front wheel just past center mark and leave in

				Width - 75" [6.25'] Length - 208" [17.3'] Weight - 11,806 lbs. [5.9 Tons]	place with securement. If off loading i will move the machine while on deck and in place, so the front wheels is just past the center mark before i slide the deck. I will then slide and lower the deck and i should not damaged the equipment while unloading
Van Lines Trailer (Ground Clearance 40") (Interior Height -122")	14.5 Degrees	90"	112" [9.3']	Lincoln Navigator Height - 77" Length - 210" Width - 94" Weight - 5,854 lbs.	If loading or unloading i will slide my deck back 2' Before i raise up the deck 10" to meet the Trailer height and load the vehicle unto my deck. No problems.
Parking Garage (Ground Clearance - 10').	14.5 Degrees	90"	112" [9.3']	John Deere 5090E Farm Tractor Weight - 8,150 lbs. Width - 85.1" Height - 102" Length - 160"	I will leave the farm tractor secured in place and slide the deck back 2' then lower the deck right at opening of the parking garage. I will then measure the front of the deck to see my height and measure the height of the opening to the parking. I will then go to the center of the deck and subtract my deck height from the opening of the garage. I should be 70" at the the center of my deck with 50" above 10' mark. I will then measure the deck at half way and then subtract the height from the distance and if the height is more then the feet measured. I will then move my truck or carrier forward to allow the tractor to go inside. Then i will used the force of the deck to push the tractor inside.
Warehouse (Ground Clearance - 12')	14.5 Degrees	90"	112" [9.3']	Moving PODS Length - 16' Height - 8' Width - 8'	Height on deck at transporting is 146"which is 2" higher than the warehouse. LOADING: I would had my carrier deck in the loading

					position and once the container pass half way. I would of slide the deck up just to move the container and truck to the entrance door. Then fully loaded the container to transport. UNLOADING: I would of move the POD to the rear of the deck and slide the deck back 2' and tilt the deck enough to get the POD inside and then off-loaded the POD

NRC 40TB INDUSTRIAL CARRRIER RECOVERY PULLING CAPABILITIES LIMITATIONS

90" Max. Height / 0 - 14.5 Degrees

THERE ARE 4 TYPES OF RESISTANCE ENCOUNTERED IN OUR INDUSTRY

1. **ROLLING RESISTANCE**
   1.1. ROLLING HARD: *Hard Flat Ground and the load on the wheels on concrete and tires are inflated*
   1.2. ROLLING SOFT: *It is on soft surface such as grass or gravel*
2. **MIRE RESISTANCE**
   2.1. TIRE MIRE: *When tire is sunk into the dirt, gravel, mud, sand or other soft surface*
   2.2. WHEEL MIRE: *If it is sunk up to lower part of the wheel Rim*
   2.3. BODY MIRE: *If it is sunk up to the body*
3. **GRADIENT RESISTANCE**
   3.1. 15% OF GRADIENT: *The force of gravity moving up or down a grade*
   3.2. 30% OF GRADIENT: *The force of gravity moving up or down a grade*
   3.3. 45% OF GRADE: *The force of gravity moving up or down a grade*
4. **DAMAGE RESISTANCE**
   4.1. DAMAGE: *Is the force that resist the movement when rolling object is damaged*

RECOVERY CAPABILITY	RECOVERY Angle	12" x 30' HEAVY DUTY RECOVERY STRAP (134,250 lbs. Working Load Limit)	# OF CARRIERS REQUIRED
DECK RECOVERY PULL MAX.	*14.5*	1. # of Straps per 20' Length:..1	*I need to position the Industrial*

10 Tons
20,000 lbs.
 	
1. *Rolling Hard Resistance (lbs. X 0.05)*
   a. *1,000 lbs.*
   b. *21,000 lbs (total)*
2. *Rolling Soft Resistance (lbs. X 0.15)*
   a. *3,000 lbs.*
   b. *23,000 lbs. (total)*
3. *Tire Mire Resistance (lbs. X 0.75)*
   a. *15,000 lbs.*
   b. *35,000 lbs. (total)*
4. *Wheel Mire Resistance (lbs. X 1.0)*
   a. *20,000 lbs.*
   b. *40,000 lbs. (total)*
5. *Body Mire (lbs. X 1.5)*
   a. *30,000 lbs.*
   b. *50,000 lbs. (total)*
6. *Resistance @ Gradient of 15 Degrees (lbs. X 0.25)*
   a. *5,000 lbs.*
   b. *25,000 lbs. (total)*
7. *Resistance @ Gradient of 30 Degrees (lbs. X 0.50)*
   a. *10,000 lbs.*
   b. *30,000 lbs. (total)*
8. *Resistance @ Gradient of 45 Degrees (lbs. X 0.75)*
   a. *15,000 lbs.*
   b. *35,000 lbs. (total)*
9. *Damage Resistance (lbs. X 0.6660*
   a. *13,320 lbs.*
   b. *33,320 lbs.*
	Degrees
	@
	90" Height
		2. *# of Snatch Blocks per Strap: 2*
		   a. *One on Deck to do a side angle pull of casualty to draw to deck for loading*
		   b. *One on Cable Hook. to pull casualty in longitude to the deck for loading*
		3. *How many Straps on a Hook: 2*
		4. *# of 4 Leg Chain Sling on a Hook: 1*
		5. *Can you use a Spreader Bar if the length is greater than 40' of the casualty:Yes if you are pulling the the entire machine Longitude towards theIndustrial Carrier to be loaded*
			Carriers Latitude of the casualty and use the 50,000 lbs Sid pull winches to assist me in this recovery.

SIDE PULL RECOVERY PULL MAX.
25.0 Tons
50,000 lbs.
 	
10. *Rolling Hard Resistance (lbs. X 0.05)*
   a. *2,500 lbs.*
   b. *52,500 lbs (total)*
11. *Rolling Soft Resistance (lbs. X 0.15)*
   a. *7,500 lbs.*
   b. *57,500 lbs. (total)*
12. *Tire Mire Resistance (lbs.*
	10 Degrees
	@
	2.5" Height Per 1' Length
		6. *# of Straps per 20' Length:..1*
		7. *# of Snatch Blocks per Strap: 2*
		   a. *One on Deck to do a side angle pull of casualty to draw to deck for loading*
		   b. *One on Cable Hook. to pull casualty in longitude to the deck for loading*
		8. *How many Straps on a Hook: 2*
		9. *# of 4 Leg Chain Sling on a Hook: 1*
		10. *Can you use a Spreader Bar if the length is greater than 40' of the casualty:Yes if you are pulling the*
			At the max. I can only recover and haul away is 38,000 lbs.
			
			On an embankment or downgrade i could only recovery with Deck and side winches a total of 70,000 lbs.
			
			I will a Travel Axle Trailer to load the casualty and a rotator on the scene to handle this type of recovery

X 0.75)
    a.   37,500 lbs.
    b.   87,500 lbs. (total)
13. Wheel Mire Resistance
    (lbs. X 1.0)
    a.   50,000 lbs.
    b.   100,000 lbs.
       (total)
14. Body Mire (lbs. X 1.5)
    a.   75,000 lbs.
    b.   125,000 lbs.
       (total)
15. Resistance @ Gradient of
    15 Degrees (lbs. X 0.25)
    a.   12,500 lbs.
    b.   62,500 lbs. (total)
16. Resistance @ Gradient of
    30 Degrees (lbs. X 0.50)
    a.   25,000 lbs.
    b.   75,000 lbs. (total)
17. Resistance @ Gradient of
    45 Degrees (lbs. X 0.75)
    a.   37,500 lbs.
    b.   87,500 lbs. (total)
18. Damage Resistance (lbs.
    X 0.6660
    a.   33,300 lbs.
    b.   83,300 lbs.
		the entire machine Longitude towards theIndustrial Carrier to be loaded	