

EVERY DAY SINCE 1946

LR Motor Shop Repairs

Job Number 101880

Prepared for Process & Power

1625 East 145th Street Little Rock AR 72206

Table of Contents

AC Inspection as Found - MOTOR SHOP LR



AC Inspection as Found

Process & Power 1625 East 145th Street Little Rock, AR 72206

AC Inspection - Rev. 2

Location:	MOTOR SHOP LR	
Serial Number:	765293/002	
Description 2001		

Description:300HP INGERSOLL RAND 1800RPM 250DM

Hi-Speed Job Number:	101880
Manufacturer:	Ingersoll-Rand
Product Number:	23270994
Spec/ID #:	HPM250 DM
Serial Number:	765293/002
HP/kW:	300 (HP)
RPM:	2700 (RPM)
Frame:	250DM
Voltage:	460
Current:	425
Phase:	Three
Service Factor:	1.21
Enclosure:	TENV
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **5 - High**

🔵 8 - Good

Overall Condition 1. Report Date



3. Photos of all six sides of the machine.

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Hi-Speed Industrial Service 7030 Ryburn Dr Millington, Tn 38053 901-873-5300

> FolderID: 101880 FormID: 17926765

09/20/2023















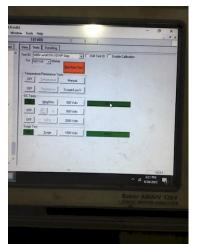




4.	Describe the Overall Condition of the Equipment as Received Dirty	
Initial	Mechanical/Electrical	
5 .	Does Shaft Turn Freely?	(No) No
6.	Does Shaft Have Visible Damage?	(No) No
7.	Assembled Shaft Runout	Inches
	Na permanent magnet rotor	
8.	Assembled Shaft End Play	inches
	Na	

9.	Air Gap Variation <10%			na
10.	Lead Condition			(P) Pass
11.	Lead Length			96 Inches
12.	Lead Numbers			T1-T3
13.	Frame Condition			pass
14.	Fan Condition			(N) NA
15.	Broken or Missing Components			na
Initial	Electrical Inspection			
16.	Insulation Resistance/Megger			1612 Megohms
17.	Winding Resistance			
	1-2	1-3	2-3	
	0.01156	0.01153	0.01153	
18.	Perform Surge Test			(P) Pass





	19.	Number of Stator Slots	18	
	20.	Stator Condition	pass	
	21.	Stator Thermistors/Ohms	na	
	22.	Stator Overloads/Ohms	Hall effect sensors	
	•	Broke upon removal of rotor from stator X3		
N	lecha	anical Inspection		
	23.	Drive End Bearing Brand	SKF	
	24.	Drive End Bearing Number-	NU320	



25. Drive End Bearing Qty.	1
26. Drive End Bearing Type	(Roller) Roller Bearing
27. Drive End Lubrication Type	(Grease) Grease Lubricated
28. Drive End Bearing Insulation or Grounding Device?	na
29. Drive End Wavy Washer/Snap-Ring Other Retention Device?	na
30. Drive End Bearing Condition	signs of frosting



- 31. Opposite Drive End Bearing Brand
- 32. Opposite Drive End Bearing Number-



33. Opposite Drive End Bearing Qty.	1
34. Opposite Drive End Bearing Type	(Ball) Ball Bearing
35. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
36. Opposite Drive End Bearing Insulation or Grounding Device?	insulated bearing seat on shaft
37. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	na
38. Opposite Drive End Bearing Condition	signs of wear

6320



39. Drive End Seal
 110-130-12

lip seal





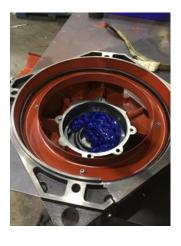
40. Opposite Drive End Seal	na
otor Inspection	
41. Rotor Type/Material	
Permanent magnetic rotor	
42. Growler Test	
Na	
43. Number of Rotor Bars	
Na	
44. Rotor Condition	pass
45. List the Parts needed for the Repair Below NU320 6320 New lip seal 110-130-12 3 new Hall effect sensors	
46. Signature of Technician that Disassembled Motor	Cw
echanical Fits- Rotor	
47. Shaft Runout	0.001 inches

	60. 61.	8.46540000000001 Opposite Drive End - Endbell Bearing Bearing Cap Condition Drive End Bearing Cap <i>Pass</i> End Bell Air Seal Fits Drive End Air Seal <i>Na</i> List Machine Work Needed Below <i>Na</i> Technician	8.4655	8.4656	(P) Pass
	60. 61. 62.	Opposite Drive End - Endbell Bearing Bearing Cap Condition Drive End Bearing Cap Pass End Bell Air Seal Fits Drive End Air Seal Na List Machine Work Needed Below Na	8.4655 Fit Condition Opposite Drive End Bearing Cap	-	
	60. 61.	Opposite Drive End - Endbell Bearing Bearing Cap Condition Drive End Bearing Cap <i>Pass</i> End Bell Air Seal Fits Drive End Air Seal <i>Na</i> List Machine Work Needed Below	8.4655 Fit Condition Opposite Drive End Bearing Cap	-	(P) Pass
	60. 61.	Opposite Drive End - Endbell Bearing Bearing Cap Condition Drive End Bearing Cap Pass End Bell Air Seal Fits Drive End Air Seal Na	8.4655 Fit Condition Opposite Drive End Bearing Cap	-	(P) Pass
	60. 61.	Opposite Drive End - Endbell Bearing Bearing Cap Condition Drive End Bearing Cap Pass End Bell Air Seal Fits Drive End Air Seal	8.4655 Fit Condition Opposite Drive End Bearing Cap	-	(P) Pass
	60.	Opposite Drive End - Endbell Bearing Bearing Cap Condition Drive End Bearing Cap Pass End Bell Air Seal Fits	8.4655 Fit Condition Opposite Drive End Bearing Cap	-	(P) Pass
	60.	Opposite Drive End - Endbell Bearing Bearing Cap Condition Drive End Bearing Cap Pass	8.4655 Fit Condition	-	(P) Pass
	60.	Opposite Drive End - Endbell Bearing Bearing Cap Condition Drive End Bearing Cap	8.4655 Fit Condition	-	(P) Pass
		Opposite Drive End - Endbell Bearing Bearing Cap Condition	8.4655 Fit Condition	-	(P) Pass
٠		Opposite Drive End - Endbell Bearing Bearing Cap Condition	8.4655 Fit Condition	-	(P) Pass
		Opposite Drive End - Endbell Bearing	8.4655	-	(P) Pass
			8.4655	-	
			8	0	
		0 Degrees	60 Degrees	120 Degrees	
	58.	Opposite Drive End - Endbell Bearing	Fit		
	57.	Drive End - Endbell Bearing Fit Condit	ion		(P) Pass
		8.4655	8.4655	8.4657	
		0 Degrees	60 Degrees	120 Degrees	
	56.	Drive End - Endbell Bearing Fit			
Μ	lecha	anical Fits- Bearing Housings			
	•	Na			
		Drive End Air Seal	Opposite Drive End Air Seal		
	55.	Shaft Air Seal Fits	Opposite Drive End Air Seel		
		Opposite Drive End Bearing Shaft Fit	Condition		(P) Pass
		3.9376	3.9376	3.9376	
		0 Degrees	60 Degrees	120 Degrees	
	53.	Opposite Drive End Bearing Shaft Fit			
	52.	Drive End Bearing Shaft Fit Condition			(P) Pass
		3.9386	3.9387	3.9388	
		0 Degrees	60 Degrees	120 Degrees	
	r	Drive End Bearing Shaft Fit			
		Na			
		0 Degrees	60 Degrees	120 Degrees	
	50.	1 0			
	•	Na			
		U Dogrood		120 Degrees	
	49.	0 Degrees	90 Degrees	120 Degrees	
	49.	Na Coupling Fit Closest to Bearing Housing	20		
	_				
		Drive End Bearing Fit	Rotor Body	Opposite Drive End E	Bearing
	48.	Rotor Runout			

	mia Palanaa Danart		
	mic Balance Report Rotor Weight and Balance Grade		
64.	,		
	Rotor Weight	Balance Grade	
65.	Initial Balance Readings		
	Drive End	Opposite Drive End	
66.	Final Balance Readings		
	Drive End	Opposite Drive End	
67.	Technician		
Rewin	nd		
68.	Core Test Results - Watts loss per	Pound	
	Pre-Burnout	Post Burnout	
69.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
70.	Post Rewind Electrical Test- Insula	tion Resistance	
71.	Post Rewind Polarization Index		
72.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
73.	Post Rewind Surge Test		
	Post Rewind Hi-Pot		
75.	Technician		
Root	Cause of Failure		
976.	Failure locations <i>DE bearing</i>		
) 77.	Root cause of failure Mixing of grease and frosting		
Mech	anical Fits- Rotor - Post Repair		
78.	Shaft Runout Post Repair		
79.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
80.	Coupling Fit Closest to Bearing Ho	using Post Repair	
	0 Degrees	90 Degrees	120 Degrees
	Ū		
81.	Coupling Fit Closest to the end of t	he Shaft Post Repair	
	0 Degrees	60 Degrees	120 Degrees
80	Drive End Bearing Shaft Fit Post R	enair	
02.			120 Degrees
	0 Degrees	60 Degrees	120 Degrees
83.	Opposite Drive End Bearing Shaft	Fit Post Repair	
	0 Degrees	60 Degrees	120 Degrees
	-	-	-

		· · ·	
Assen	nbly		
90.	End Bell Repair Sign-off		
		opposite Drive Life Air Oear	
2.51	Drive End Air Seal	Opposite Drive End Air Seal	
89.	End Bell Air Seal Fits Post Repair		
	Drive Lind Dearing Cap	Opposite Drive Lind Dearing Cap	
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
88.	Bearing Cap Condition Post Repair		
	0 Degrees	60 Degrees	120 Degrees
87.	-11	•	100 D
07	Opposite Drive End Endhall Dearing		
	0 Degrees	60 Degrees	120 Degrees
86.	Drive End - Endbell Bearing Fit Post F	•	
	anical Fits- Bearing Housings - P	-	
	Shaft Repair Sign-off		
	Drive End Air Seal	Opposite Drive End Air Seal	
84.	Shaft Air Seal Fits Post Repair		

91. QC Check All Parts for Cleanliness Prior to Assembly









92. Photograph All Major Components prior to assembly

93. Final Insulation Resistance Test

🗭 Na

(Complete) Complete Megohms

• /	Assembled Shaft Endplay <i>Na</i>		inches
,			
-			
🔵 95. A	Assembled Shaft Runout		0.001 inches
96. 1	Test Run Voltage		
١	Volts	Volts	Volts
,	Na		
	Test Run Amperage		
ŀ	Amps	Amps	Amps
- /	Na		
,	Drive End Vibration Readings - Inches	Per Second	
ł	Horizontal	Vertical	Axial
— /	Na		
99. (Opposite Drive End Vibration Reading	s - Inches Per Second	
ŀ	Horizontal	Vertical	Axial
,	Na		
100. <i>A</i>	Ambient Temperature - Fahrenheit		
	Na		
101. E	Drive End Bearing Temps - Fahrenhei	t	
Ę	5 Minutes	10 Minutes	15 Minutes
-	Na		
	Opposite Drive End Bearing Temps - F		
Ę	5 Minutes	10 Minutes	15 Minutes
	Na		
,	Na Document Final Condition with Picture	<i>6</i> • • •	

nent Final Condition with Pictures atter paint









104. Final Pics and QC Review

Co sign: TRH







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- 1. <u>APPLICABILITY.</u> The sale of any and all goods and/or services by Mock, Inc. d/b/a Hi-Speed Industrial Service ("Hi-Speed") shall be specifically conditioned upon and subject to the following terms and conditions which are incorporated by reference into any contracts and purchase orders with Hi-Speed, and which shall form and become a part of any agreement related thereto. Buyer's acceptance of any offer or quotation made by Hi-Speed for sale of any goods or services is expressly made subject to the terms and conditions set forth herein and to be so effective, Buyer need not sign or approve these Terms and Conditions to be bound hereunder provided a copy of same is provided to Buyer through any means. None of the terms and conditions contained herein may be added to, expanded, changed, modified, superseded or otherwise altered except as revised in writing and duly executed by Hi-Speed, and all orders received by Hi-Speed shall be governed only by the terms and conditions contained herein, notwithstanding any terms, conditions or provisions of any purchase order, release order, authorization or any other form issued by the Buyer. Hi-Speed hereby objects to any additional, modified, changed, deleted, altered or other terms and conditions not contained herein and notifies Buyer that any such terms or provisions are expressly rejected by Hi-Speed.
- 2. PRICE. All quoted prices shall remain firm and binding for a period of thirty (30) days from the date of quotation or for the period specifically stated in the quotation. The price for any and all goods and/or services ordered or approved by Buyer after thirty (30) days from the date of any quotation are subject to any increase in price that may occur after the expiration of thirty (30) days from the issuance of the quotation and the date the Buyer releases any shipment.
- 3. <u>SCOPE OF GOODS AND/OR SERVICES.</u> The goods and/or services provided by Hi-Speed pursuant to any quotation shall be limited exclusively to those goods and/or services expressly identified therein. Hi-Speed does not assume any responsibility and/or liability for the failure to provide any other goods and/or services not identified in any quotation. Modifications, additions or deletions to or from the scope referenced in any quotation shall only be effective if evidenced in writing and signed by Hi-Speed. The sale of any of all goods and/or services affected by such modification, addition or deletion shall be subject to these same Standard Terms and Conditions whether or not referenced therein.
- 4. <u>BILLING AND PAYMENT TERMS.</u> Hi-Speed shall invoice Buyer for all goods and/or services as same are rendered at the address listed on the quotation. Payments for all goods and/or services shall be due thirty (30) days from the date of the current invoice or as otherwise set forth in the quotation. Late payments are subject to a late fee of 5% of the total invoice amount. Recurring late payments may lead to a deposit requirement on future services or sale of goods. Buyer shall be liable to Hi-Speed for any and all fees and expenses incurred by Hi-Speed to collect any invoices or to enforce these Standard Terms and Conditions, including but not limited to, attorney's fees.
- 5. DELIVERY OF GOODS AND/OR SERVICES. Unless otherwise identified in the quotation, all shipments are F.O.B. Hi-Speed's warehouse and the title to and all risk of loss with respect to any goods shipped shall pass to Buyer when such goods are delivered to the carrier at Hi-Speed's warehouse. Hi-Speed will use its best efforts to affect delivery by the date or dates specified in the quotation. However, Hi-Speed shall not be liable for delay in or failure to make shipment, or to perform services, by any identified date for any reason whatsoever, including but not limited to, causes beyond its reasonable control, such as strikes, fires, floods, epidemics, quarantines, restrictions, severe weather, embargos, acts of God, or public enemy, war, riot, delays in transportation or the inability to obtain necessary labor, materials or manufacturing facilities.
- 6. DELIVERY SITE AND TIME FOR PERFORMANCE. Hi-Speed and Buver agree that time is of the essence for the purchase order and that Buyer shall fully cooperate with Hi-Speed in order to allow Hi-Speed full access to prosecute its work diligently and in an orderly manner. Buyer shall assist Hi-Speed in every way possible to avoid delaying, disrupting or interfering with the progress of Hi-Speed's work at the project site. In the event Hi-Speed's work is delayed, hindered, suspended, disrupted, re-sequenced or interfered with or rendered less efficient or more costly or adversely affected in any way as a result of acts or omissions of Buyer or other contractors or employees of Buyer or by any other reason beyond Hi-Speed's control and without the fault of Hi-Speed, then, in such event, Buyer shall be liable to Hi-Speed for any damages, additional costs, expenses, labor, materials, man hours, acceleration costs, overtime, additional jobsite overhead, extended home office overhead, and any and all other direct and indirect expenses of whatsoever nature or kind, caused in whole or in part, as a result of any of the above-referenced occurrences. Hi-Speed's project records will be the basis for computing the additional costs and damages of Hi-Speed's labor, materials, expenses and overhead related to such changes. BUYER WARRANTS THAT THE SITE FOR DELIVERY OR INSTALLATION OF ANY GOODS AND/OR FOR THE PERFORMANCE OF ANY SERVICES SHALL BE READY AND ADEQUATE FOR HI-SPEED'S DELIVERY OF GOODS AND/OR PERFORMANCE OF SERVICES AND THAT HI-SPEED SHALL HAVE FULL ACCESS THERETO, FREE OF ALL OBSTRUCTIONS. BUYER SHALL ASSUME ALL EXTRA COSTS ASSOCIATED WITH HI-SPEED'S INABILITY TO INSTALL ANY GOODS OR PERFORM ANY SERVICES AS A RESULT OF BUYER'S FAILURE TO COMPLY WITH THIS PROVISION. HI-SPEED MAY NOT INSPECT THE SITE PRIOR TO DELIVERY AND/OR INSTALLATION OF GOODS AND/OR PERFORMANCE OF SERVICES AND MAKES NO WARRANTY AS TO THE SUFFICIENCY OF THE SITE FOR THE DELIVERY AND/OR INSTALLATION OF GOODS AND/OR THE PERFORMANCE OF SERVICES AT SUCH SITE.
- 7. INSPECTION/ACCEPTANCE. All goods and services ordered pursuant to any quotation shall be subject to inspection by Buyer after delivery or performance to determine conformity with the quotation and/or purchase order and Hi-Speed's advertised or published specifications. Buyer shall have a period of thirty (30) days from shipment of goods at the delivery destination specified in the quotation within which to inspect the goods for conformity with the quotation, order and/or Hi-Speed's advertised and published specifications and to provide Hi-Speed with written notice of any discrepancy or rejection. Buyer shall have a period of thirty (30) days following completion of any services within which to inspect the services for conformity with the quotation, purchase order and/or Hi-Speed's advertised and published specifications and to provide Hi-Speed with written notice of any discrepancy or rejection. If the goods delivered or services performed do not so conform, upon delivery of notice to Hi-Speed of any discrepancy, nonconformance or rejection, Hi-Speed shall have the right to reject such goods or services. After the cure period, goods that have been delivered and rejected, in whole or in part, shall be returned to Hi-Speed shall, at its sole cost, re-perform the non-conforming services. Inspection or failure to inspect on any occasion shall not affect Buyer's rights under the warranty provisions herein.
- 8. WARRANTIES. Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or

TermsAndConditions

replace any defective or non-conforming goods in accordance with the applicable manufacturer's warranty. Warranty for any defective or incorrect parts is limited to the repair or replacement of those parts. Hi-Speed warrants that all services will conform in all material respects to the description of services identified in the quotation and will be performed in a good and workmanlike manner in accordance with industry practices and standards. Should the services be reasonably rejected or not conform with the foregoing warranties, Hi-Speed shall, at its sole cost, re-perform the defective or nonconforming services. Notwithstanding the foregoing, these warranties do not extend to goods or services to the extent that such goods have been subject to misuse, neglect or abuse not caused by Hi-Speed or have been used in violation of the approved written instructions furnished to Buyer. THE FOREGOING REPRESENTS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY HI-SPEED WITH RESPECT TO ALL GOODS SOLD AND IS IN LIEU OF ALL OTHER WARRANTIES EITHER EXPRESS OR IMPLIED. HI-SPEED EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICLAR USE OR PURPOSE. BUYER WAIVES ANY CLAIM THAT THESE EXCLUSIONS OR LIMITATIONS DEPRIVE IT OF AN ADEQUATE REMEDY AT EQUITY OR LAW OR CAUSE THIS AGREEMENT TO FAIL IN ITS ESSENTIAL PURPOSE. BUYER SHALL BE ENTITLED TO NO OTHER REMEDY OTHER THAN AS SET FORTH HEREIN, REGARDLESS OF THE CLAIM OR CAUSE OF ACTION, WHETHER BASED IN CONTRACT, TORT, NEGLIGENCE, GOODS LIABILITY, STRICT LIABILITY OR OTHERWISE.

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- 10. <u>SEVERABILITY</u>. The partial or complete invalidity of any provision of these Standard Terms and Conditions shall not affect the enforceability of the remainder of these Standard Terms and Conditions. If any provision is found to be invalid or unenforceable, that portion shall be modified to make it enforceable or shall be stricken and the remainder of these Standard Terms and Conditions shall enforced.
- 11. <u>GOVERNING LAW AND JURISDICTION.</u> Any controversy arising out of any quotation, the purchase order, the goods sold or delivered, repair or replacement thereof, or any services provided pursuant to any quotation or any purchase order, or these Standard Terms and Conditions shall be governed by the laws of the state of Tennessee without regard to any choice of law provisions and any cause of action related in any manner thereto shall be brought only in the state or federal courts of Shelby County, Tennessee.
- 12. <u>ABANDONED EQUIPMENT.</u> Hi-Speed requires that Buyer promptly pick up or provide shipment instructions for Buyer equipment or other Buyer property in Hi-Speed's possession. If equipment or other Buyer property is left with Hi-Speed and not picked up within six (6) months after Hi-Speed's final action related to the applicable property (e.g. evaluation, teardown, estimate, completion of services), Hi-Speed will consider such property abandoned and may dispose of it in accordance with applicable law. Buyer agrees to hold Hi-Speed harmless for any damage or claim for such abandoned property and acknowledges that Hi-Speed may discard or recycle it at Hi-Speed's sole and absolute discretion. Specifically, Hi-Speed may sell Buyer's abandoned property at a private or public sale and retain the proceeds to offset Hi-Speed's storage, inspection and servicing costs. For the avoidance of doubt, Hi-Speed reserves its statutory and other lawful liens for unpaid charges related to abandoned property.
- 13. FORCE MAJEURE. Neither party shall be responsible for any delay or failure in performance of any party of the quotation, purchase order or these Standard Terms and Conditions to the extent that such delays or failures are caused by fire, flood, earth quake, explosion, war, embargo, government requirement, civil or military authority, acts of God, or any other circumstances beyond its reasonable control and not involving any fault or negligence on the party affected ("Condition"). If any such Condition occurs, the party delayed or unable to perform shall promptly give written notice to the other party and, if such Condition remains at the end of thirty (30) days, the party affected by the other party's delay and inability to perform may elect to (i) terminate such order or part thereof, or (ii) suspend the order for the duration of the Condition, if the Buyer is the suspending party, buy elsewhere comparable material to be sold under the order and apply to any commitment the purchase price of such purchase, and resume performance of the order once the Condition ceases, with an option in the affected party to extend the period of this order up to the length of the time the Condition endures.
- 14. <u>NONWAIVER</u>. No course of dealing or failure of either party to strictly enforce any term, right, or condition of these Standard Terms and Conditions will be construed as a waiver of such term, right or condition. Any waiver by Hi-Speed will only be in writing and will waive no succeeding breach of a term, right or condition.
- 15. <u>ASSIGNMENT.</u> The rights and obligations of the parties shall neither be assigned nor delegated without the prior written consent of the other party. However, any party may assign or delegate its respective rights and obligations, in whole or in part, (i) to any subsidiary, (ii) pursuant to other financing, merger or reorganization or (iii) pursuant to any sale or transfer of substantially all of the assets of the assigning party. These Standard Terms and Conditions shall bind the heirs, successors and assigns of the parties hereto.
- 16. <u>NO INDIVIDUAL LIABILITY</u>. Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and HI-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between HI-Speed and the Buyer, even if the HI-Speed owner, director, officer or employee is or could be construed to be a party to such contract.