



**Frost Incorporated**

2020 Bristol, Grand Rapids, MI 49504

telephone: 616.453.7781 | fax: 616.453.2161 | www.frostinc.com | email: frost.sales@frostinc.com

To Place your Order or for More Information,  
Please Contact a Member of Our Sales Team:

**Frost Industries**  
2020 Bristol,  
Grand Rapids, MI 49504



**telephone: 616.453.7781**



**fax: 616.453.2161**



**email: frost.sales@frostinc.com**  
**www.frostinc.com**

## Frost Inc. Product Warranty

Frost Inc., warrants to the original purchaser only, each new product manufactured or supplied by Frost to be free from defect of material and workmanship under normal use and service.

The Frost obligation shall be limited to furnishing either repair and/or a replacement product, at Frost's decision, that product or that product part which shall, within 12 months after the date of purchase by the original purchaser, be returned by that purchaser to Frost for examination, having received Frost's written authorization therefore, and which examination shall disclose the product or that product part to have been found to be defective, at a cost no greater than the time based pro-rata cost of the product or the product part price at the time of purchase, this amount to be applied against the cost of repair of the product or product part, or applied to the price of new product to be supplied by Frost to the original purchaser of the product.

Frost is not liable for incidental or consequential damages to such purchaser arising out of any such defect and makes no other warranty of fitness or merchantability expressed or implied.

This warranty shall not apply to any Frost product which has been subjected to negligent or careless handling or use after leaving Frost custody and control, or which has been repaired, modified, or altered in any way so as, in Frost's judgment, to have adversely affected the product's performance and reliability, nor to any product which had been used for any purpose for which it has not been designed or intended.

No one shall have authority to expand or modify the terms of this warranty without the express, written approval of an officer of Frost, Incorporated.



Even though companies rely on them, many ignore the importance of conveyor systems —until a breakdown occurs and raises havoc, escalates costs and reduces profits.

There has never been a cost effective way to predict when that downtime will occur —until now. Frost is proud to introduce The Frost Chain Wear Monitoring System called CATS or Conveyor AlerT System. It integrates digital technology which monitors conveyor chain wear and elongation, alerts you to major chain failures before they occur, ready and is ready to perform 24 hours a day, seven days a week. Ultimately, this system saves you routine inspections and unexpected expensive down time.

**FAILURE IS NOT AN OPTION**



Remote Mounted Display  
Highly Precise Measurements





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Conveyor Alert System  
**CATS**  
by FROST

Designed for  
**X-248 Chain,  
X-348 Chain,  
X-458 Chain,  
X-658Chain,  
X-678 Chain,  
and X-698 Chain.**

## The CATS Features

- Persistent Data Monitoring collects data and is ready to perform 24/7.
- All Data Reporting is ready to be interpreted in Excel with our custom designed reporting tools or yours. No special software required.
- Reports can be customized to meet your specific needs, contact your Frost Sales Representative for details.
- Easy to operate touch screen interface.
- Remote monitoring available, contact your Frost Sales Representative for more details.
- Ethernet/USB data retrieval standard, options for WiFi and Cellular are available.
- Many different options and configurations available to create a custom solution for your application.
- A custom mounting assembly for each conveyor chain.
- The programmed or displayed measurements can be standard or metric units.
- The link set data can be used to display the length of any segment of chain.

## The CATS Advantages vs. Portable Systems

- CATS are mounted one time and adjusted to perfect calibration. Once the CATS is in place you can be assured that the data will be accurate.
- Portable monitors are made to move from conveyor to conveyor and defeat the purpose of constant monitoring. After all, what is the purpose of investing in a chain wear monitoring system? The purpose of a chain wear monitoring system is to have accurate and constant monitoring to alert you before a catastrophic failure. CATS permanent mounted monitors are ready to perform 24 hours a day, 7 days per week, 365 days per year from one specific location.
- Installing a permanent mounted CATS monitor does require some time, but the setup only occurs once. A portable monitor requires scheduled setup time, and resources to install it each time it is moved---every time you move the monitor your team wastes valuable resources---and then repeats the process again and again.
- A CATS permanent mounted monitor mitigates errors. With a portable system the monitor is moved from place to place which increases the opportunity to enter incorrect data and settings for the new chain and creates avoidable errors. A CATS monitor is permanent; the settings are set and the data is free from error.

## Customer Requirements

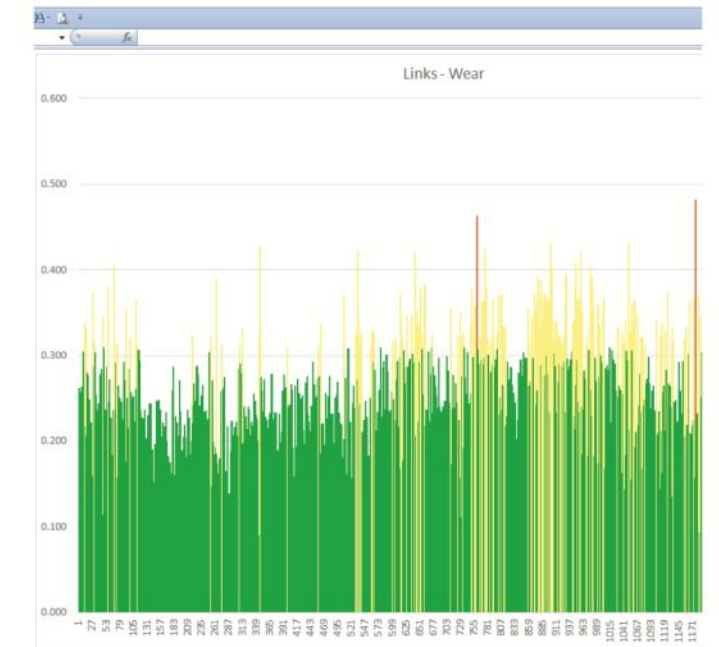
- Power – dedicated 110V 10A plug.
- Computer - Any device capable of running Excel 2003 or higher with the ability to run macros.
- For the best results the chain being monitored should be free of debris and operate continually.

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CATS will check the status of all individual links and all chain sections in both data and graphical format. Reports are easy to read with color coded warnings with green as acceptable; yellow requires inspection; and red needs immediate attention.

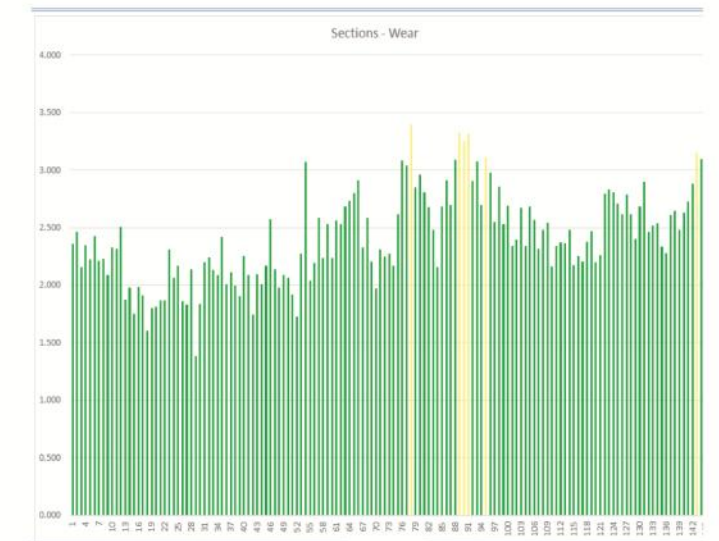
F348		List of All Links:			Links to be Inspected:			Links to be Replaced:			
		Link #	Length	Wear	Link #	Length	Wear	Link #	Length	Wear	
1	Chain Type:	X-678									
2	File Date:	8/23/2015 8:48									
3	Base File Date:	N/A	1	12.262	0.292	13	12.340	0.339	760	12.463	0.461
4	Total # of Links:	1458	2	12.188	0.194	15	12.331	0.331	1177	12.482	0.482
5	Good Links:	1209	3	12.257	0.257	27	12.374	0.374			
6	Inspect Links:	247	4	12.169	0.169	31	12.315	0.315			
7	Replace Links:	2	5	12.203	0.203	47	12.345	0.345			
8	Ideal Length:	17496.000	6	12.245	0.245	57	12.379	0.379			
9	Actual Length:	17848.617	7	12.264	0.264	69	12.408	0.408			
10	Replacement Length:	18152.100	8	12.225	0.225	74	12.313	0.313			
11	Percent Wear:	2.02	9	12.244	0.244	91	12.355	0.355			
12	MIN Wear:	0.042	10	12.305	0.305	99	12.321	0.321			
13	MAX Wear:	0.482	11	12.243	0.243	109	12.365	0.365			
14	AVG Wear:	0.242	12	12.175	0.175	113	12.311	0.311			
15	Wear Change:	N/A	13	12.340	0.339	217	12.324	0.324			
16	Percent Change:	N/A	14	12.217	0.217	253	12.324	0.324			
17			15	12.331	0.331	263	12.389	0.389			
18			16	12.206	0.206	274	12.312	0.312			
19			17	12.279	0.279	308	12.311	0.311			
20			18	12.202	0.202	313	12.332	0.332			
21			19	12.277	0.277	345	12.326	0.326			
22			20	12.195	0.195	347	12.427	0.427			
23			21	12.248	0.248	399	12.311	0.311			
24			22	12.134	0.134	458	12.317	0.317			

**Check the status of all individual links.**



B9		List of All Sections:			Sections to be Inspected:			
		Link #	Length	Wear	Link #	Length	Wear	
1	Chain Type:	X-678						
2	File Date:	8/23/2015 8:48						
3	Base File Date:	N/A	1	122.361	2.301	78	123.395	3.395
4	Total # of Sections:	145	2	122.464	2.464	89	123.329	3.329
5	Good Sections:	139	3	122.156	2.156	90	123.251	3.251
6	Inspect Sections:	6	4	122.345	2.345	91	123.317	3.317
7	Replace Sections:	0	5	122.226	2.226	95	123.108	3.108
8	Ideal Section Length:	120.000	6	122.424	2.424	143	123.150	3.150
9	Section Replacement Length:	124.500	7	122.212	2.212			
10	MIN Wear:	1.382	8	122.230	2.230			
11	MAX Wear:	3.395	9	122.087	2.087			
12	AVG Wear:	2.414	10	122.330	2.330			
13			11	122.315	2.315			
14			12	122.507	2.507			
15			13	121.873	1.873			
16			14	121.976	1.976			
17			15	121.751	1.751			
18			16	121.987	1.987			
19			17	121.913	1.913			

**Check the status of all individual sections**



## Ease of Use. Peace of Mind.

The Frost CATS records the condition of your chain ready to perform 24 hours a day, 7 days per week, 365 days per year. Reports are easy to read with color coded warnings with green as acceptable, yellow requires inspection and red as links that need immediate attention. Measurements are saved at user selected intervals and the software can also be used to view and compare previously saved measurements.