Frost Inc.

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FAILURE
IS NOT
AN OPTION

Chain Wear Monitor for the Bakery Industry

CATS
Conveyor AlerT System

Remote Mounted Display
Highly Precise Measurements

catalog number: FTCWMBakeryRevA

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Lasers are programed to measure set distances between the links of the chain. This data is stored in the control box and a new cycle of data begins once the chain has completed its cycle. The recording of information can be perpetual. As long as the conveyor is running, the chain wear monitor is capturing useful data.

The CATS Benefits For the Bakery Industry

- **Universal Fit.** It is designed to operate inside any bakery in the world, independent of any existing control systems, on almost any chain design.
- **Efficient.** No dedicated computer is required to monitor your conveyor.
- **Flexible.** Data is stored internally and can be accessed multiple ways based on your needs. Data retrieval options include:
  - Through your existing network;
  - By removing the internal USB thumb drive;
  - By cell phone or tablet as you walk across your shop floor via a WiFi connection (optional feature);
  - Through the internet when equipped with a cellular modem.
- **Constant Attention.** The CATS system monitors your chain for wear 24 hours per day, 7 days a week, 365 days per year. If the chain is moving, we are collecting and logging data.
- **Accurate.** Measurements are accurate within 0.02".
- **Simple to Use.** All data is interpreted through an Excel spreadsheet (via a macro). The user adjusts the parameters of the report to flag links for inspection or replacement to any range they are comfortable with.
- **Easy to Operate.** Touch screen interface is standard.
- **Remote Monitoring Available.** We monitor your conveyor for you.

Multiple means for storage including USB data stick, mobile device, or a desktop computer.

Over time as the pins wear, the distance measured by the lasers will increase. When this occurs, the data output will indicate which links to check. In extreme circumstances, links will appear as red on the Excel spread sheet output. Red indicates the chain should be immediately replaced to avoid a costly breakdown.

	A	B	C	D	E	F	H	I	J	K	M	N	O	P	R
1	Chain Type:	X-458 Chain		List of All Links:				Links to be Inspected:				Links to be Replaced:			
2	File Date:	5/4/2017 16:58		Link #	Length	Wear		Link #	Length	Wear		Link #	Length	Wear	
3	Base File Date:	N/A		1	8.074	0.074		1160	8.191	0.1908		870	8.191	0.1914	
4	Total # of Links:	1276		2	8.045	0.045									
5	Good Links:	1274		3	8.057	0.057									
6	Inspect Links:	1		4	8.037	0.037									
7	Replace Links:	1		5	8.092	0.092									
8	Ideal Length:	10208.000		6	8.041	0.041									
9	Actual Length:	10284.416		7	8.011	0.011									
10	Replacement Length	10451.716		8	8.159	0.159									
11	Percent Wear:	0.75		9	8.071	0.071									
12	MIN Wear:	-0.027		10	8.049	0.049									
13	MAX Wear:	0.191		11	8.007	0.007									
14	AVG Wear:	0.060		12	8.081	0.081									
15	Wear Change:	N/A		13	8.083	0.083									
16	Percent Change:	N/A		14	8.065	0.065									

To read the data no special software is needed. A simple spreadsheet program will suffice.

Customer Requirements

- Power—Dedicated 110V 10A plug.
- Computer—Any device capable of running Microsoft (or equivalent) Excel 2003 or newer with the ability to run macros.
- Provide and install safety guards if needed.
- Provide and install all necessary conduit if needed.