MEASURING LEAF CHAIN LENGTH



Figure 1: Measure 4 Pitch Section with a Caliper or Tape Measure

4 Pitch Section



Figure 2: Leaf Chain EZ Wear Gauge

INSTRUCTIONS

- The measurement should contain equal number of inner links and outer links.
- 2. Measuring longer sections will give more realistic estimations.
- 3. Chain on equipment should be measured on the tension side.
- 4. Measurement is outside of pin to outside of pin.
- 5. Chain not on equipment requires the specified minimum measuring load.

Note: In applications, the tape measure is the most common tool used to measure chain length. However, a caliper will be more accurate and should be used when possible.



TABLE 1.
MEASUREMENT SPECS NEEDED PER CHAIN SIZE

Chain Size	P = Pitch	PD = Pin Diameter	Minimum Measuring Load
	in.	in.	lb.
BL12	1.500	0.500	400
BL14	1.750	0.562	530
BL16	2.000	0.687	800
BL20	2.500	0.937	1,200

LEAF CHAIN % ELONGATION FORMULA

% Elongation =
$$\frac{(AML - NL)}{NL}$$
 * 100

Pitch [inches] Table 1

NP Number of Pitches # of Measured Pitches

NLNominal Length [inches]NL = P * NPPDPin Diameter [inches]Table 1

ML Measured Length [inches] From Tape Measure or Caliper

AML Adjusted Measured Length [inches] AML = ML - PD

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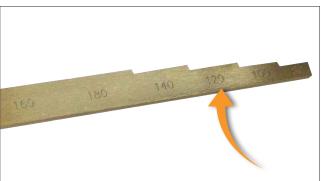
EZ CHAIN WEAR GAUGE®

Check the life of your chain



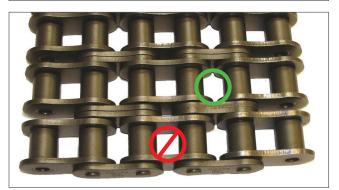
STEP 1

Indentify chain pitch size.



STEP 2

Locate the corresponding step on the gauge.



STEP 3

Check gauge for fit between any two roller links.

(Perform with chain in tension.)



STEP 4

If the gauge step fits through the checkpoint, the chain is worn out and needs to be replaced.

Note: Gauge should be in line, directly below any outside link plate.

