

# What Makes **CANNON**® *"The Best Bar - Bar None!"*®

All Cannon Bars are made from high grade, custom formulated, cold rolled and annealed steel, that has extra chromium for wear resistance and extra molybdenum for strength.

*"The Best Bar - Bar None!"*® NEEDS THE BEST STEEL TO MAKE IT LAST

From the raw steel, each bar is precisely **WATER JET CUT**, so that there are no Heat Affected Zones (HAZ).

Once the steel is cut, it is **HEAT TREATED**, oil quenched and press tempered to achieve just the right hardness for strength, durability, toughness and flexibility.

The hardened bars are carefully **STRAIGHTENED** and **SURFACE GROUND** to the ideal thickness.

Next, surface ground bars are **CNC MILLED**, leaving little margin for error. Different milling patterns are cut, depending on the style of tip that the bar is fitted with.

Once a bar is milled, it is put into the hands of our **MASTER BARMEN**, who give it Cannon's claim to fame, the **PRECISION HONED GROOVE**. Every bar has a true and centered groove that is accurate to within .003" of the desired gauge. It is this care, attention and skilled workmanship that really makes our bars stand out against the competition.

Next is the rail hardening. Using a proprietary **FLAME HARDENING PROCESS**, the bar rails are hardened to 5 points more than the tie straps on most models and brands of chain. This special hardening process penetrates much deeper than electric induction hardening and results in much longer bar rail life.

Longer bars are then **HEEL PRESSED** in order to reduce vibration and prevent premature cracking from vibration.

The bars are put through a **STRESS RELIEVING SYSTEM** in order to expel tension that builds up in the bars through all of the different processes. This step realigns the molecular structure to ensure that the bars will not be stressed and prone to premature cracking.

Finally the bars are ready for the finishing touches. Cannon applies the attractive brushed **GUNMETAL FINISH** to most of the bars. Some longer lengths and specialty bars still have Cannon's classic matte black painted finish. The bars are engraved with our identifying numbers and silk screened with our logo. They are now ready to be tipped, put through our **FINAL QUALITY ASSURANCE TESTS**, packaged and shipped to the customer.

There you have it, all the steps taken to ensure you are **GETTING...**

*"The Best Bar - Bar None!"*®

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## **LIMITED LIFETIME WARRANTY**

Cannon Bar Works Ltd. warrants its products to be free from defects in material or workmanship for as long as they are owned by the original end use purchaser. Cannon chainsaw bars are not warranted against improper maintenance or user abuse, including but not limited to, damage caused by improperly tensioned chain, prying, bore cutting and normal metal fatigue. This warranty is limited to repair or replacement of the product, solely at the discretion of Cannon Bar Works Ltd. and specifically excludes compensation for consequential or indirect damages of any kind whatsoever, including personal injury.

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