



# NozzTeq®

**Taking Science to the Sewer!®**

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## “LUMBERJACK®” MULTI-PURPOSE CUTTER SPECIFICATIONS

**Model:** The cutter shall be the “LUMBERJACK®” or equal as distributed by NozzTeq® Inc. located in Dunedin, Florida. The cutter shall have the capability to remove roots and other common obstructions in sanitary and storm sewer pipe in accordance with the following model number.

<u>MODEL</u>	<u>WEIGHT</u>	<u>Length</u>	<u>PIPE SIZES</u>
LJ700C	98lbs+	37" +	15" to 36" (Options to 48")
LJ300C	44lbs.	19.5"	8", 10", 12" (Options to 36")
LJ200C	24lbs.	13.5"	6", 8", 10" (Optional 12")
LJ100C	13lbs.	11.25"	4", 6" & 8" (Optional 9")
LJ075C	9lbs.	6.5"	4" & 6" (Optional 8")
LJ050C	2lbs.	4"	3", 4" (Optional 5" & 6")

**General:** The cutter shall be a dedicated exchangeable sled type that is capable of rotating by the water pressure supplied by a common sewer jetting truck. The cutter shall clean the inside perimeter of the sewer pipe utilizing a proprietary hardened square chain link that is filled with barium Fill Or other Substitute. The cutter shall also have the feature of a removable cutting blade for severe blockages. Model numbers LJ075C, LJ200C, LJ300C & LJ700C shall have a permanent drive axle to accommodate a towing ring.

**Capabilities:** The cutter shall have the capability to adequately remove roots and other obstructions commonly found in municipal sewer or storm pipe. The cutter shall have the capability to freely rotate at variable speeds with flow rates from 10 to 250 gallons per minute and pressures from 50 to 10,000 pounds of pressure per square inch. Cutter Rotation with 10 GPM has a RPM speed of 10,000 up to 50,000 RPM's, depending on what series Cutter, GPM, length of hose and operating pressures.

**Construction:** The cutter drive shaft and turbine shall be machined from hardened steel. The water supply tube shall be machined from stainless steel. The cutter shall have a removable propelling jet housing machined to accommodate 1.9mm to 6.0mm as thrusting Jets. The cutter shall have a cutting head designed to accommodate chain link in various numbers of chain links. Internal jet impellers supported by two sealed grease-lubricated bearings that are easily replaceable shall power the turbine. The rear bearing shall be beveled to 45 degrees with a 2.5mm depth. The cutter shall be constructed so that the water supply continuously cools the bearings. The dedicated sleds shall be designed to accommodate the water supply tube with the two supplied bolts in each sled.

**Provisions:** The cutter kit shall be supplied with the turbine, water supply tube, chain plate, pull plate, tow ring, cutting blade, sleds, five sets of chain per sled size, propelling nozzle with jets and adapter, spanner wrench, hand tools and tool box.

**Maintenance:** The cutter shall not require lubrication after each use, bearings due wear out after extended use. First year NozzTeq® Inc. will cover the cost of repair related to bearing failure. Hard water can effect the operation of the lumberjack diffuser and thruster. If you use dirty water and your area is known for hard water please check the diffuser/thruster Jets Often.

**Warranty:** The cutter shall be free of defects due to material and workmanship and shall be covered under a **One-Year Replacement** guarantee of the bearings. All warranty issues Lumberjack™ must be shipped back to NozzTeq® Inc. at Customers cost with insurance. NozzTeq® Inc. will cover the cost of ground shipment back to the customer with insurance if the item is covered under the warranty and within the time period of one year.

**Note:** Weights and dimensions are approximate and subject to change without notice. Weights and dimensions may vary depending on equipment installed. Certain equipment is not available on all models.