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Photo: istockphoto.com For years, sharpening chainsaws meant having to sharpen individual incisors on the chain by hand. Today's sharpeners change all that. The electric sharpener (also called grinder) does a quick job of getting the boring chain back into shape, so you can get back to the important work at hand. If you've been thinking about making a switch, keep reading to find out which features are most important and why we consider these model fives to be the best electric chainsaw sharpening options out there. Before BuySince using an electric sharpener is very different from a manual sharpener chainsaw, it is a good idea to understand how the sharpener works. The chain fits into the horizontal guide on the base of the sharpener, and then the disc-shaped grinding stone (resembling a round blade of a saw without teeth) is placed in a retractable head. The retractable head is tilted and adjusted so the grinding stone can enter contact with the chain cutting links just at the right front corner. In addition, the chain-holding guide rotates to make sure the grinding wheels hit the cutting links at the right side angle. First, the hardest part of using a chainsaw sharpener may be setting all the corners correctly, but once they are installed, you can sharpen the cutting links to the entire chain in just a few minutes. Photo: istockphoto.comMounting OptionsChainsaw sharpeners are usually installed either on a bench or on the wall. Bench-mounting can be convenient if you have a large work bench with a lot of space, but if the workshop is small, wall installation will save on the work bench of the estate. The installation of the wall also allows the user to mount the tool at or just below the eye level, so as not to bend when several chains are sharpened. Some electric sharpeners can be installed in any way - on a bench or against a wall. Pitch CompatibilityPitch is the distance between the cutting links on the chain, and it is measured in inches, from the smallest to the largest. The chains come in one of five pitches: 1/4-inch, .325-inch, full profile 3/8-inch, 3/8-inch low profile, and .404-inch. The most common step sizes are 3/8-inch and 3/8-inch low profile, and most sharpeners will accommodate at least those two pitches. Many will accommodate all five sizes. Some sharpeners are labeled as sharpening up to .404-inch in stride, which means they will also sharpen all five sizes. Chainsaw chains come in different sizes, and before buying an electric sharpener, make sure it will take the chain (s) you use most often. This requires knowing the pitch of your chain, but if you don't know, don't worry: the number is often printed directly on the saw hand of the chainsaw, or you may find it in your owner's guide. Manual or AssistSome of the new electric sharpeners feature hydraulic relief, which simply means that every time you lower the spinning grinding wheels, the wheels, Help will block the chain in place so that the cutting links won't move when the grinding wheels are in contact. It's a good feature, but it's not an absolute necessity. If the tool does not have hydraulic relief, it will have a hand handle you can tighten to provide cutting links before lowering the grinding wheels. Hydraulic aid speeds up the process, but it does not affect the actual sharpening. Max SpeedThe speed at which the grinder rotates is measured by rotations per minute (RPM). The speed of rotation is on average from 3000 to 4200 RDM, with the most common are 3400 RDMs. Theoretically, a higher RPM will get the job faster, but a higher RPM is also more conquered-meaning, if you haven't adjusted the grinding angles accurately and the spinning stone makes contact with the cutter in the wrong place, it is more likely to leave the gouge in the cutting link. While there is no risk factor to humans using sharpeners, sharpeners with higher RPMs have the potential to damage cutting links more easily. AutomationDepending on the level of mechanization you want, you can choose a basic electric sharpener that requires you to unlock and propel the chain links manually after filing each one, or you can choose a fully automatic sharpener that makes all the promotion and sharpening after you set the adjustments in fit in your particular chain. DigitalWhile most chainsaw sharpeners on the market today are adjusted by turning pens and pens, some of the newest models are using digital technology to help identify the exact angles on the sharpener. These digital models have LED readings, and you can key in the height of cutting links and desired angle cuts for accurate sharpening. Options and accessoriesAll electric chainsaw sharpeners work in a similar way, but some come with options and accessories that can be useful. Built-in light: This can be one of the most challenging options of all, since the built-in light directs the lighting to the very spot where the sanding stone meets cutting links, so you can clearly see if you're grinding at the exact angle you want. Grinding Wheels: You can purchase stone grinders at sawmills and DIY venues, but you'll often get one or more with buying sharpeners. The grinding wheels coordinate the size of the step cutting links you sharpen. Sensor grinding wheels: This is a bit of a metal or plastic bar with cutouts that you can hold up to the edge of the grinding wheel to make sure that the wheel is the right width for cutting the links you sharpen. They are also widely available in home improvement stores. Dressing stone: Dressing stone is used to remove residue that can build on wheels while working. Our best picksPhoto: amazon.comBEST OVERALL: Oregon 120 Volt bench/wall horse saw chain chain The ultimate in versatility, this Oregon grinder is mounted either on the wall of the workshop or your work bench. Wherever you decide to customize it, you'll get the chance to sharpen all five chain pitches (1/4-inch, 3/8-inch low profile, .325-inch, full profile 3/8-inch, and .404-inch). This built-in, best-in-class sharpener has a hand handle to provide cutting links, and it comes with three grinding wheels, a dressing stone, and a plastic sensor grinding wheel. Not to mention that there is a built-in light - very convenient! Photo: amazon.comALSO CONSIDER: Oregon bench Mount Chain GrinderIf you're a serious lumberjack and want the opportunity to sharpen various chains, check out the Oregon bench Mount Chain Grinder. It is designed to be mounted on a work bench, and it is adjustable to sharpen all five cutting link pitches (1/4-inch, 3/8-inch low profile, 0.325-inch, full profile 3/8-inch, and .404-inch). The sharpener comes with three grinding wheels, a dressing stone, and a sanding wheel sensor. It has a manual handle to provide cutting links during sharpening, and the wheel rotates on 3400 RPMs. It also has built-in light. Photo: amazon.comALSO CONSIDER: Oregon Professional 120V Bench GrinderWith the Oregon 620-120 Hydraulic Assisted Grinder, you'll enjoy the opportunity to quickly sharpen the link for a link without using manual pens to provide cutting links. This popular model rotates on 3400 RPMs, and it can be adjusted to sharpen all five cutting link step sizes (1/4-inch, 3/8-inch low profile, 0.325 inches, full profile 3/8-inch, and .404-inch). It comes with three grinding wheels, a dressing stone, and a sanding wheel sensor. Go to basic contentHome Tools, Gear and Equipment Power Equipment Chainsaw Family Handyman In the Chain Saw Market? Our HR specialist shows you the most useful features on chainsaws and then checks the performance of 7 popular models. It includes features such as starting ease, chain selection, chain tension, fuel and oil systems and more. Be sure to read the results of his chain-seen tests before you buy. According to DIY family expert Handyman MagazineYou can also sniff: TBDOverview: The chain has been reviews and the best features Since the top four manufacturers are offering more than 80 models combined, choosing the right saw chain can be challenging. To help you make a selection of the best chainsaws, we have divided the saws into two categories depending on the cost and size of the engine. Then we fired them and made hundreds of cuts. We compared features and performance. Choose one that best fits your specific needs and budget. But first, especially if For your first chainsaw, read through the chainsaw features we love. They will guide you on the key solutions that manufacturers embed into their products and make the use of chainsaw safer and easier. Many of the features listed below, for example, without tools tension, are on the full range of saws. Others, like the pre-cleaning air system, are only available on more expensive models. Go online or stop at a local dealer to pick up the producer literature that outlines the features and offers you a comparison of the charts to help in your choices. Function 1: Without the pull chain toolsTool-free tension systemA disk lock and nut tension allow you to tighten the chain without additional tools. The chain on your saw should be stretched properly. If it is too loose or too tight, it can damage the bar and pose a safety hazard. Without tension without a tool, chain voltage adjustment requires a wrench and screwdriver. With this innovation, you don't need to either. The systems vary slightly between saws, but overall, the nuts that provide the bar to the body saw have been replaced by a mechanism built into the grip lid. You loosen the bar by hand and then turn the node wheel of some kind to adjust the tension of the chain. We like this feature and think it's worth spending a few extra dollars. Feature 2: Choke and switchCombined choke switch/off, on/off Combined Switch makes it easier to start and stop. Running a cold saw chain requires closing the choking and increasing the throttle speed. To stop the saw, you turn it off. Some saws combine all of these functions into one switch. Others have separate switches and switches. We prefer the type of switch found on the Husqvarna and Jonsered saws because it is large enough to work easily with the gloves, pushing down on the switch stops the engine, and the switch automatically returns to the starting position. You don't need to switch the saw back to start it again. This helps prevent accidental engine flooding by trying to restart it with a shutdown. Feature 3: Easy-start systemEasier pull startingSaws have different systems to facilitate the effort to pull the start. Test-pull different saws. The larger the engine, the harder it is to pull the starting cord if there are some features built in to reduce the voltage of the starting cord. One innovative solution changes the spring mechanism in recoil (the part that rewinds the starting cord) to make it easier to pull. Stihl's Easy2Start system, which uses this mechanism, is surprisingly easy to use and works great. Other manufacturers have an easy start to rollbacks too, but the difference isn't so dramatic. Another design that reduces the starting effort opens a temporary hole in the cylinder to reduce compression, making it easier to pull the starting cord. Look for this decompression valve function on large chain saws. Feature 4: Body Width ComparisonSaw: NarrowNarrower-bodied saws adjust and cut easier. Comparing the width of the WiderWider saw sometimes makes it difficult to process and cut. Pros who work with a chain saw all day prefer compact saws. More expensive saws Husqvarnas, Jonsereds and Stihls have narrower bodies than some of the cheaper ones. A narrower body facilitates the transport of the saw and maneuvering in narrow places. Characteristic 5: Carbide-toothed chain carbide chain can withstand dirt and even nails and still cut well. Standard steel chainStandard steel chains can quickly dull when exposed to dirt or nails. The dull chain cuts slowly, but worse, it can damage the chain and bar, as well as put extra strain on the saw. It only takes a fraction of a second to blunt the blade if you touch the ground with a chain, see dirty wood or hit the nail. Chain with carbide tips, like the one you'll find on the Stihl MS 230 C-BE, can withstand encounters with dirt and nails and still be sharp enough to keep cutting. You'll pay an extra \$50 or so for this feature, but if you cut dirty wood, need to cut the stumps close to the ground, or cut a lot of urban wood that probably nails embedded in it, then it can be money spent well. The downside is that you can't easily sharpen the carbide chain yourself, and even sharpening stores may not have the equipment to do so. Before you buy a carbide-tipped chain, or a chain saw that includes one, find out if you can get it sharpened and how much it will cost. I used a carbide-tipped chain to cut a dozen litter trees to the ground. Sometimes the chain really went into the mud. He cut as well on the last tree, as it was at first. Ken Collier, Editor-in-Chief of Features: Anti-Vibration, Air Cleaning, and moreEasy-Access Air Filter Every Chain Saw has an air filter connected to the carb, and if it gets clogged, your saw will waste gas, pollute more and possibly work poorly. If you can access the air filter easily, without having to pull out the screwdriver, you will most likely keep it clean. Stihl saws have one of the easiest covers to remove. Air cleaning Most of these saws have a translucent, rubber lamp that you press five or six times before you start a cold engine. This is called an air cleaning or primer lamp because it replaces the air in the gas line with fuel. This reduces the number of times you have to pull the starting cord, keeping the wear on the saw and arm. Fuel sensor On some saws, you can see the fuel level in the tank without removing the lid. The lightweight fuel and oil caps of Stihl chain saws have fuel and oil caps that you remove by flipping the handle and twisting a quarter of a turn. Other saws include a raised handle that allows for better grip. Both are good features. Air Pre-Cleaning System Many of the More Expensive Saws a pre-cleaning system that emits most large dust particles before they reach the air filter. This reduces the maintenance of the air filter and improves engine performance. Anti-vibration All but the cheapest chain saws have springs or rubber bushes that divide Build out the rest of the saw to reduce the amount of vibration you feel. The more expensive the saw, the more reliable the springs or bushes. We felt the difference between saws that didn't have springs or bushes and those that did it.1 The size of the engine is measured in cubic centimeters (cub.cm) or cubic inches. In general, the larger the number, the more powerful the engine. Most homeowners will do well with a saw in 32 cc to 45 cc range.2 A bigger bar isn't necessarily better. For most homeowners, 16-in-the-bar is a lot. Longer bars can be put on the path and increase the likelihood of a dangerous rollback.3 In general, more expensive saws have better components and will last longer, but most DIYers never wear out even less expensive saws.4 Gear safety is optional. You need a helmet with a face shield, hearing protection, leather gloves and special chain saws of guys. Expect to spend about \$120 total for these items.5. In many cases, you can buy the same saw with or without special features such as a free voltage chain tool. You can save money by saving a bit of convenience. If you don't have a problem with a chainsaw, consider buying from a full-service dealer to help you set up the saw and show you how to start it. For more information on safe saw use and safe cutting techniques, see use of chainsaw Safely.Chainsaw Brands and Reviews: 3 Chainsaws for Tight BudgetsSS limited this class to saw to a price point under \$150, which means they tend to have an engine size under 40 cm. If you don't heat up with a tree or cut down a 2-foot diameter tree, the chain can be in this category. What do you want. We tried three saws that cost less than \$150. Keep in mind that if you increase your budget to \$200, You'll have a lot more options that will include saws from Stihl, Echo, Husqvarna and Jonsered.Review 1: Homelite UT10560Homelite UT10560England Size: 38 cc Bar length: 16 inches Price: about \$139Th saw has a lot of good features including air purification, vibration control springs, free circuit tension and water and gas and it comes with the case. We found the mechanism without the tool a little harder to use than most, and the gap between the handle and the chain brake is a little tight. Online reviews are mixed, but our test saw ran smoothly. Review 2: Poulan P3816Poulan P3816England Size: 38 cc Bar Length: 16 inches Price: About \$139 As an artisan (see below), this saw includes air cleaning lamps and comes with the case. It doesn't have a free tension chain tool, but there's a chain tension built into the bar that's easier to access than more conventional chain voltage adjusters. You have to remove the propellers to access the air We like the large handles on the fuel and oil filler caps, but don't like the fact that there is no vibration moisturizing built into the handle. For the same price, price, Craftsman offers an additional lily chain tension. Review 3: Craftsman 35170Craftsman 35170England Size: 38 cc Bar Length: 16 inches Price: About \$150Th craftsman saw what appears to be identical Poulan P3816 (see above), except the craftsman has a tool without tension chains. The saw has an aerial cleaning and includes a portable body. We had a little harder to start this saw than we had with some of the more expensive models. We don't like the lack of vibration hydration in the handle of this saw. Otherwise it is good value for money and is worth considering in the range below \$150. Have you ever wondered why one chain saw costs 30 percent more than another comparable size saw? Here's a list of features you'll find on more expensive saws: Two or three parts of a cranked shaft against five-piece cranks means less vibration and more life. Fake, not stamped connective rods. Forged rods are stronger. The centrifugal cleaning built into the flywheel means the best airflow for better engine performance. Chrome-soaked against chrome cylinders. The chrome-soaked cylinders have microscopic pores that hold the oil to help lubricate the piston. Saw reviews: 4 chains saw for medium use We have limited this class to a price point under \$350 with engines about 40 cm. If you chop wood several times a month, want a saw that does not struggle when cutting at full capacity, or just like to buy high-quality tools, then this is the category for you. The saws in this range often include all the quality components and features of more expensive chain saws. They're just not as strong. Review 4: Stihl MS 230 C-BEStihl MS 230 C-BEEngland Size: 40.2 cm Bar Length: 16 inches Price: About \$350Thit saw is loaded with every feature you might want, plus it comes in standard with Duro carbide-tipped Stihl chain. But what really sets it apart from the Easy2Start system. A gentle, steady pull on the starter rope winds spring that releases when it overcomes compression pressure by flipping the engine. It's noticeably easier to pull, without the jerkiness you usually feel. We also like that the air-cleaning coating and gas and oil caps are easy to remove and replace without tools. For an extra \$50 for a similar size saw, you get a chain saw that it's super easy to start and includes a carbide-tipped chain. Review 5: Jonsered CS 2240 SJonsered CS 2240 SEngland Size: 40.9 cm Bar Length: 16 inches Price: About \$300Y can't go wrong buying Jonsered saws. Jonsered offers models in all but the lowest price range. This saw includes no chain tension tools, spring starting cord, air pre-cleaning system, switch and return to the start, fuel level indicator and reliable springs to moisturize vibration. The saw starts easily, runs smooth and cuts quickly. We couldn't find any fault with that saw. Review 6: Husqvarna 440 e-seriesHusqvarna 440 440 Size: 40.9 cc Bar length: 16 inch Price: about \$290As with Jonsered, you can buy Husqvarna with confidence, knowing that you are getting one of the best chain saws on the market. In fact, under the lid, it saw looks identical to the CS 2240 S and has all the same features (see CS 2240 S above). We couldn't tell the difference in how the two saws start, run and cut. The tension without tools on both of these saws is outstanding. There's a big handle that flips over to give you extra leverage, and the regulator has teeth that are big enough to work with gloves. If you are trying to choose between the Jonsered CS 2240 S and this saw, we recommend that you choose the one available from your local dealer. Husqvarna narrowly edged out the almost identical Jonsered for our editors' choice just because the retail price was \$10 less. Review 7: Echo CS-400Echo CS-400England Size: 40.2 cm Bar Length: 16 inches Price: About \$300Here Another high-quality saw from a respected name in outdoor power equipment. The Echo CS-400 includes an air purification lamp, air conditioning and air-cleaning cover that is easy to remove without tools. It's seen not enough of a free chain tension tool, but there is an easy start-up system that works well. There's a small switch switch to turn the engine on and off and a separate choking lever. Saw has rubber bushes rather than springs to moisturize vibration. It starts easy and works great. If you can't find this saw for sale, however, we recommend either Jonsered or Husqvarna because they have the best features for the same price. Saw reviews: 3 chain saws for heavy useHusqvarna 450England size: 50.2 cm Bar length: 12 inches - 20 inch Price: about \$359Stihl MS 271England Size: 50.2 cc Length Bar: 16 inch - 20 inch Price: About \$430Jonsered 2250 SEngland Size: 50.2 cc Bar length: 16 inches - 18 inches Price: about \$390This class includes saws, that cost \$350 to \$600 with engines more Less than 40 cm. If you have acres of land and spend a lot of time cutting down trees and cleaning, spending a little more for a chain saw makes sense. The saws in this category have the best quality components and are made to withstand daily use. In addition, you can get larger engines capable of handling more bars. Three saws here are characteristic of this range. Range.

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