

MERLIN2 Q&A's

Have a question about Merlin2. Browse through our FAQ's below to get answers to our most frequently asked questions.

Q: What is Merlin2?

Merlin2 is King Arthur's Tools replacement angle grinder for the Proxxon grinder. KAT grinders are designed, developed and assembled in the USA and incorporate major top to bottom improvements. We have introduced 4 new models with fixed and variable speeds for 110-115 Volt 60Hz and 220-230 Volt 50Hz countries and expanded the range of accessories. Detailed information can be found [HERE](#).

Q: What is Merlin2 used for?

Merlin2 is designed to cut, shape, smooth and sand in any direction with a array of different 2" 50mm) accessories when performing an infinite number of tasks in wood working, wood carving, wood turning, small auto repairs, d-i-y applications, musical instruments and a whole lot more!

Q: Who can use Merlin2?

Merlin2 is designed for woodworkers, woodcarvers, woodturners, taxidermists, do-it-yourselfers, hobbyists, musical instrument makers, model makers and anyone who wants to use a versatile tool for a myriad of applications.

Q: How safe is Merlin2?

Merlin2 is a safe tool when you follow the instructions and how-to tips. Our one caveat is that, **if you remove the safety guard and run the miniature grinder, it is NOT safe.** When using the chainsaw blade, it was designed to cut with the bottom and partially exposed left side of the cutting teeth. Removing the safety guard exposes the top half of the chainsaw teeth to your fingers and body and is not good for your health or safety. If you run Merlin2 without the safety guard you will be exposing yourself to the **high potential of accidentally running your fingers into a spinning chain saw blade or any other fitted accessories. SO BE WARNED, NEVER REMOVE THE SAFETY GUARD.**

Q: How long has Merlin been on the market?

Our miniature power unit known as Merlin using a Proxxon grinder was first introduced in 2004. Merlin2 is our own and greatly improved version boasting a stronger, quieter and more reliable power unit with many more available accessories.

Q: What are the dimensions of Merlin2?

Merlin2 is extremely light, weighing in at only 1.2 lbs (0.54 kg). It is only 11.5" (29.2 cm) long and each accessory has a diameter of 2" (50mm) with a 10mm bore.

Q: Is Merlin2 loud or noisy?

When using Merlin2, you can expect a noise level around 85 db, no load for variable speed or less than 100 decibels, no load for fixed speed units. They are much quieter than the original Merlin.

Q: How difficult is it to use Merlin2?

For the first time user, just like any power tool, there is a brief learning period with Merlin2. Watch our videos to become familiar with it. For previous owners of Merlin you will appreciate the subtle but major improvements - it only takes a few minutes to become familiar with your Merlin2.

Q: Does the Merlin2 have to be plugged in or does it have a battery?

Merlin2 runs off electricity so you have to have it plugged in. You can plug it into a grounded electrical outlet or run it off a generator.

Q: Can it be powered by using a DC/AC inverter?

Merlin2 pulls 1 amp (100 watts) of power and can be operated very effectively with an inverter plugged into your car or truck's 12 volt power outlet.

Q: I have arthritis in my hands. Is it going to be difficult to hold Merlin2?

Not at all. Merlin2 is specifically designed to be small and light-but also powerful- so that you only have to apply the minimum amount of pressure to make cuts or shapes.

Q: How do you hold Merlin2?

For most users who are right handed, place your right hand at the base of the grinder to control the tool, and your left hand under the gear head to guide its movement. Left handers can reverse their hand positions. Make sure you are not covering the air vents.

Q: How do you practice using Merlin2?

We recommend that you practice on a piece of soft wood to master the simple cutting and smooth pulling action of Merlin2. With use and practice you can make Merlin2 cut in any direction, removing slivers as thin as an eggshell.

Q: Can I plug Merlin2 into an extension cord?

Yes. Make sure everything is properly grounded.

Q: Do the discs get hot?

Because of their patented designs, the chainsaw blade, discs and sanders generate little to no heat.

Q: Is Merlin2 available for worldwide use?

Yes, both the fixed and variable speed models are available in 110 Volt 60Hz model for the North American and some Japanese markets and in a 220–240 Volt 50Hz model for the European, United Kingdom, Australasian, African, Arabian, South American, Chinese and Russian markets. **Some countries have dual voltage so please be aware of the voltage in your area and order the correct model for you. It will prevent a lot of frustration, wasted time and unnecessary hassle!**

Q: Are the chainsaw teeth easy to sharpen?

Yes, you can easily touch up and sharpen the chainsaw teeth with either a 5/32" (4mm) chainsaw or diamond-coated file available [HERE](#).

Q: Is Merlin2 safe?

Yes. We have never had a chain break, disc crack or tooth fly off any of our chainsaw products, including Merlin or Merlin2. Not one chain or disc has ever been returned because of a manufacturing defect, ever!

Q: What safety equipment do I need when using Merlin2?

When using Merlin2 you should always wear gloves and eye protection. As an additional safety measure, consider purchasing a pair of Kylar gloves that are made for use around chainsaws.

Q: Do I have to change the position of the safety guard?

The safety guard comes pre-positioned for your safety. We recommend using the safety guard between 23 and 45 degrees, in the position safest and most comfortable for the way you hold the tool.

Q: Is the chain replaceable?

Yes, the chain is easy to replace – you can easily do it yourself. Just refer to the included instructions or go online. We recommend having one spare 8 tooth chain (part# 20008) on hand.

Q: Do the chains require oil?

No, the only maintenance required is to sharpen the teeth.

Q: Where can I purchase Merlin2?

Check our website under Dealers for a store near you. Or you can order from our **WEBSTORE**.

Q: How can I become a KAT Dealer or Merlin2 Reseller?

Contact us directly via email at jerry@katools.com or call Jerry Hammock on 800-942-1300 (USA); 1-850-877-7650 (overseas).

Q: How can I get more questions answered about Merlin2?

By email, contact jerry@katools.com or call 800-942-1300.

Q: What is the advantage of a saw chain blade versus using a stamped disc cutter like Arbortech?

1) There are more teeth to remove and shape material (8 versus 6 or 3) and 2) using either a variable or fixed speed Merlin2 gives you far more finesse and control. For a detailed explanation of the major differences, go to "What's the Buzz" on our website. Arbortech has greater power from the angle grinder so it is more aggressive in stock removal but Merlin2 is far more controllable in every respect. Both brands accessories are interchangeable.

Q: I want to carve a life size bear. Is Merlin2 the right tool for the job?

No and yes! You'll initially need a chainsaw, then a Royal Knight's Choice or Royal King's Choice using our family of angle grinder accessories, and finish the sculpture using Merlin2 for smaller detail work on the face, paws, body and feet. Don't try using Merlin2 to carve the bear – it is similar to emptying a swimming pool with a bucket.