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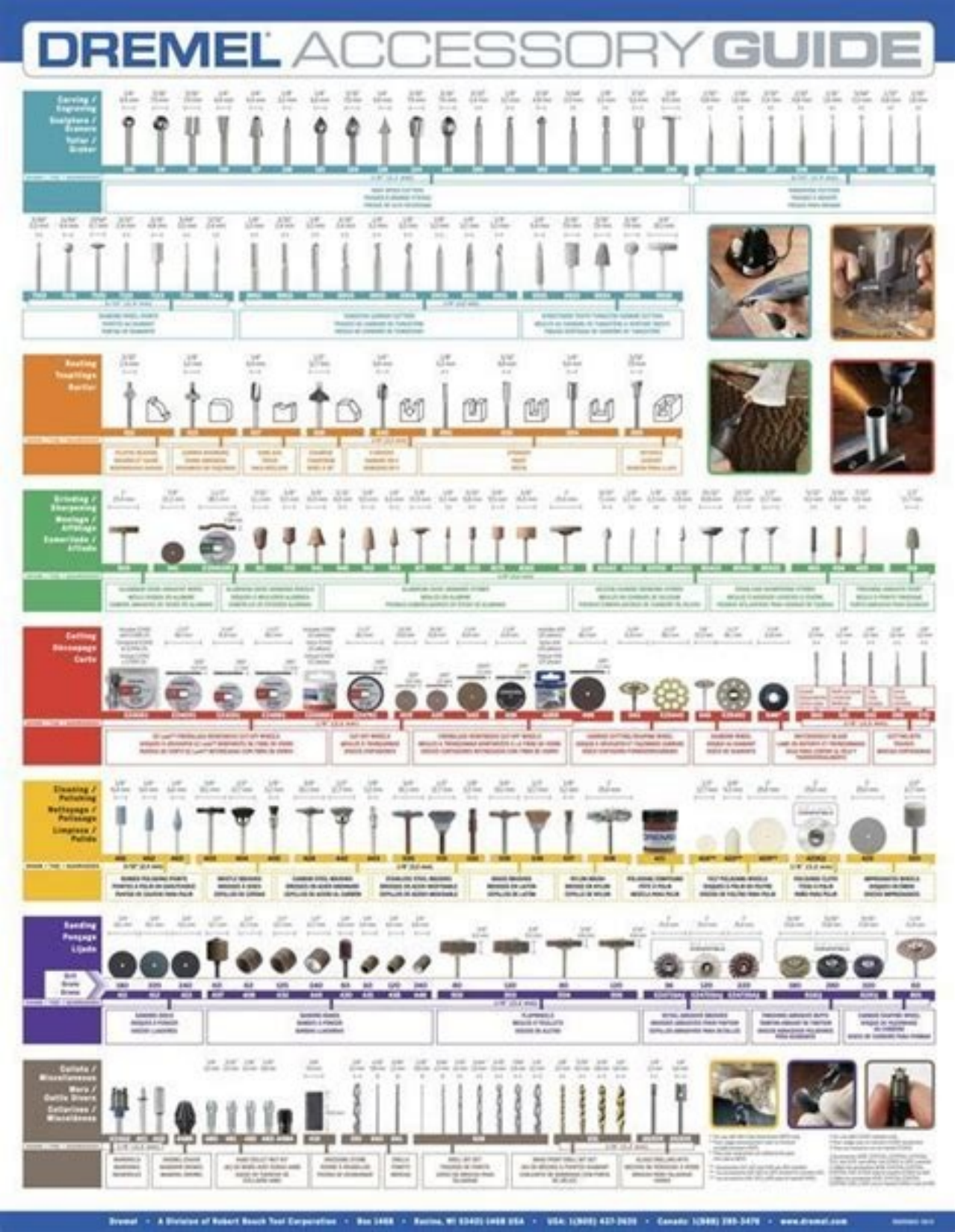
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Chart dremel bit guide pdf

Dremel tips explained. Dremel 4000 bit size.

In this article, you will learn about all the different bits and burrs used with the Dremel or similar rotary tool. These bits are available from both Dremel and third-party manufacturers. There are bits for wood, stone, glass, plastic, and metal. So no matter what material you are working with, there are bits out there for it. In most cases, the same bit will work on multiple materials. I will mention this as we go along. Years ago, when I was a complete newbie to Dremel and other rotary tools, I had purchased a complete set with many bits and burrs. As I explored materials beyond wood, I discovered the utility of bits that I had no clue about previously. This, in turn, opened up a whole new world of possibilities. This is the world that I am going to share in this article. A Few Things To Keep in Mind Please note that I use the terms bits and burrs interchangeably in some cases. A bit is anything that goes into a rotary tool. Some of these bits are also called burrs because they are very abrasive. Burrs are generally only used for carving soft materials like wood. As far as I know, no one carves metal. It is much easier to sculpt it by cutting or melting it. However, you can always engrave it. Stone carving is very common but if you are carving something hard, make sure you are cooling your bit using water. Otherwise, it will overheat, degrade, and eventually fall apart mid-session. Dremel has an excellent system of numbers and colors to segregate their various accessories. This is really helpful if you are trying to understand the 100+ piece accessory kit that you recently purchased. However, in this guide, I will be covering all kinds of bits. Many of these are available from other manufacturers. I will not be referring to the Dremel colors and numbers.

The bits I am talking about are 1/8" in thickness which is a standard size for Dremel, and other rotary tools that use Dremel standard sizes. So if you are ready to learn about all the different rotary tool bits that are out there, keep reading. FALLmuis Stone Carving Set (Amazon link) Related: Best Dremel Rotary Tools To Buy in 2023 Dremel Bits For Wood There is almost an endless variation of bits for wood carving. I know this because I have tried most of them, and my wish list is still extremely long! So I have divided them into Carving/Engraving As far as Dremel the brand is concerned, carving and engraving bits for wood are the same thing. However, there is a difference when you look at third-party manufacturers. Engraving bits are smoother and are designed for precision. This is what you would use to create fine details or do calligraphy-inspired designs. Carving bits are far more abrasive. They are designed to take more material off. Dremel calls them 'cutting' bits. Here's a good example of a set of carving bits. Rokrou Carbide Carving Bits (Amazon link) The thing to note here is that you cannot shape a lot of wood with the Dremel set. You can do so with the previous set from Rokrou, a third-party seller. The finer tips on this set are great for fine engraving work. The larger stone-tipped bits are meant for metal, glass and stone. Not wood. Here's an example of what you should get for carving wood if you want to buy from Dremel only. Dremel 114 Rotary Tool Accessory Carving Bit (Amazon link) Depending on where you are, this may be called a "cutter". Don't be confused. Once you know what you are looking for, the image will be enough. The names might and will vary. For carving, just get a set of various shapes when you are just starting out and build from there. Something like the example below. Double Cut Carbide Rotary Burr Set (Amazon link) Cutting Cutting wood with a Dremel is only feasible if you are cutting small pieces of wood. Otherwise, you are much better off using a coping saw or a similar saw. Dremel and other brands make HSS (high-speed steel) rotary blades in various sizes for cutting wood and other soft materials like plastic. Here's an example Cutting Wheels for Rotary Tool (Amazon link) A set like this will last you a long time if you use it well. Make sure never to put too much pressure and avoid overheating.



They won't break but they warp and then they will wobble and not cut smoothly. Make sure you follow the arrow and attach it properly so that it spins in the right direction. Sanding You can get two kinds of sanding bits for Dremel. There's the drum type and the disc type. The drum type comes in three different sizes and the disc is usually one size only. See the examples below. Coceca 458pcs Sanding Drums (Amazon link) This is a good example of sanding drums in all their sizes. AUTOTOOLHOME 110pcs 1 inch Sanding Discs (Amazon link) This is what you will get if you are looking for sanding discs. This is just the regular hook and loop (AKA Velcro) system scaled-down the Dremel size. Polishing Polishing for wood is done with felt-tipped bits. You will get them large collections of various sizes and shapes. A set like the one below will probably last you several years or several projects if used properly. Carving Expert 100pcs Multifunctional Polishing Accessories Attachment Set (Amazon link) You can also get smaller sets when you are just starting out. Most large sets will come with at least a few polishing bits. Routing There are special bits that are meant to be used either perpendicular or parallel to the surface of the wood. These are routing bits and they must always be used with the routing attachment. You can get a set with the attachment from third-party sellers like the example below. Preamer 6pc HSS Routing Router Bits (Amazon link) You can also get Dremel branded attachments. If you are using a Dremel tool, it is better to get Dremel-made attachments. If you are using any other rotary tools, you can get one or the other. Most brands don't last as long as a Dremel, with the only exceptions being Milwaukee and Proxxon. So you can base your decision on that fact. Related: Best Dremel Bits for Plastic You can easily use all the bits for wood on materials like plastic and fiberglass. This is because they are equally effective when used on non-wood soft materials. However, for really soft materials, you should slow down the rotation speed. Otherwise, you run the risk of burning your material, which might produce toxic fumes. Too much speed will also ruin wood and produce burn marks. So all the bits mentioned above will work for materials as hard as wood or softer. You can carve, engrave, sand and polish just like you would for wood. A few exceptions will remain, though. Make sure to do test runs before starting or committing to a project. Dremel Bits For Metal Grinding Dremel makes specialized stone-tipped grinding bits for grinding metal. These are useful for taking our burrs in your metal works, smoothening sharp or rough edges. They can also be used for sharpening edges on blades and things like chainsaws. Dremel actually makes a special chainsaw grinding attachment and special bits for that purpose. Dremel A679-02 Garden Tool Sharpening Kit (Amazon link) This kit is meant for all kinds of tools and not just chainsaws. Whether you are using a Dremel branded rotary tool or not, it is a good idea to buy a Dremel branded kit in this case because it is built to last. Garden tools can be rough on your rotary tool! Related: Best Rotary Tools To Buy (2023 Review) For starting out, you can get a third party set like this one right here - KSEIBI 689050 Grinding Stone Set (Amazon link) The different shapes are helpful in different scenarios. The colors are indicative of use, and these vary from manufacturer to manufacturer. So you should read the user notes when you buy these bits. Make sure to read up on the recommended speeds and stone types for different materials. These stones will eventually wear out with use, but they can wear out really fast if used inappropriately. Cutting Dremel makes some of the best-reinforced cutting discs for metal cutting. With these cutting wheels, you can cut, trim, and groove various kinds of metal. Dremel EZ456 (Amazon link) They might seem a little expensive upfront, but they are well worth the investment if you are working with metal frequently. The EZ lock system is a huge convenience for any rotary tool user, making it an additional benefit when buying Dremel. You can also choose from resin-based cutoff wheels other than these fiberglass reinforced cutoff wheels. These tend to be a lot cheaper, but they also break easily. So they tend to come in large packs. Rotary Tool Accessories Cutting Wheels Set (Amazon link) I can recommend a set like this one for beginners. It has cuttings wheels for wood, glass, and metal. That makes it really affordable. You will be breaking a few of these, and you don't have to feel bad about it. Learning can be a destructive process. Ask me, I have destroyed entire packs of these, and I am not sorry at all! I learned a lot in the process. Not I don't break as many. I am still learning, you see! Polishing Metal needs special abrasive wheels for polishing. These are designed to give a similar effect as sanding drums on wood. The only difference is the material. These are usually made of fine strands of metal, resulting in a fuzzy metal pompom of sorts! The only thing to keep in mind when using these is to not apply pressure and turn the speed down all the way. Otherwise, they tend to explode all over the place. I am still finding strands of metal from one such incident months back! These are cheap to buy in bulk, just like the sanding drums and polishing bits. You can get a pack of them like in the example below. Rocaris Buffing Polishing Wheel Set (Amazon link) The colors are used to distinguish the abrasiveness of each type. That makes us rotary tool users a really colorful bunch! But then you already knew that, because you are one of us! You can also use felt-tipped polishing bits for buffing your metal pieces. The same thing is done on a larger scale for buffing car bodies with large felt discs and polishing wax. Engraving Metal engraving works the same way as metal grinding does. You get specially coated bits that will eat away at the metal as it turns. As long as you don't overheat them through extreme pressure and/or speeds, they will produce good results.

Fiberglass Reinforced Cut-off Wheels	
MATERIAL	RPMs (1000s)
Aluminum	35
Brass	35
Ceramic	35
Copper	35
Hardwood	20-35
Plastic	10-15
Softwood	20-35
Stone	35
Shell	35
Steel	35

Cut-off Wheels	
MATERIAL	RPMs (1000s)
Aluminum	35
Brass	35
Ceramic	35
Copper	35
Hardwood	20-35
Plastic	10-15
Softwood	20-35
Stone	35
Shell	35
Steel	35

Cutting/Shaping Wheel	
MATERIAL	RPMs (1000s)
Hardwood	20-35
Plastic	10-15
Softwood	35

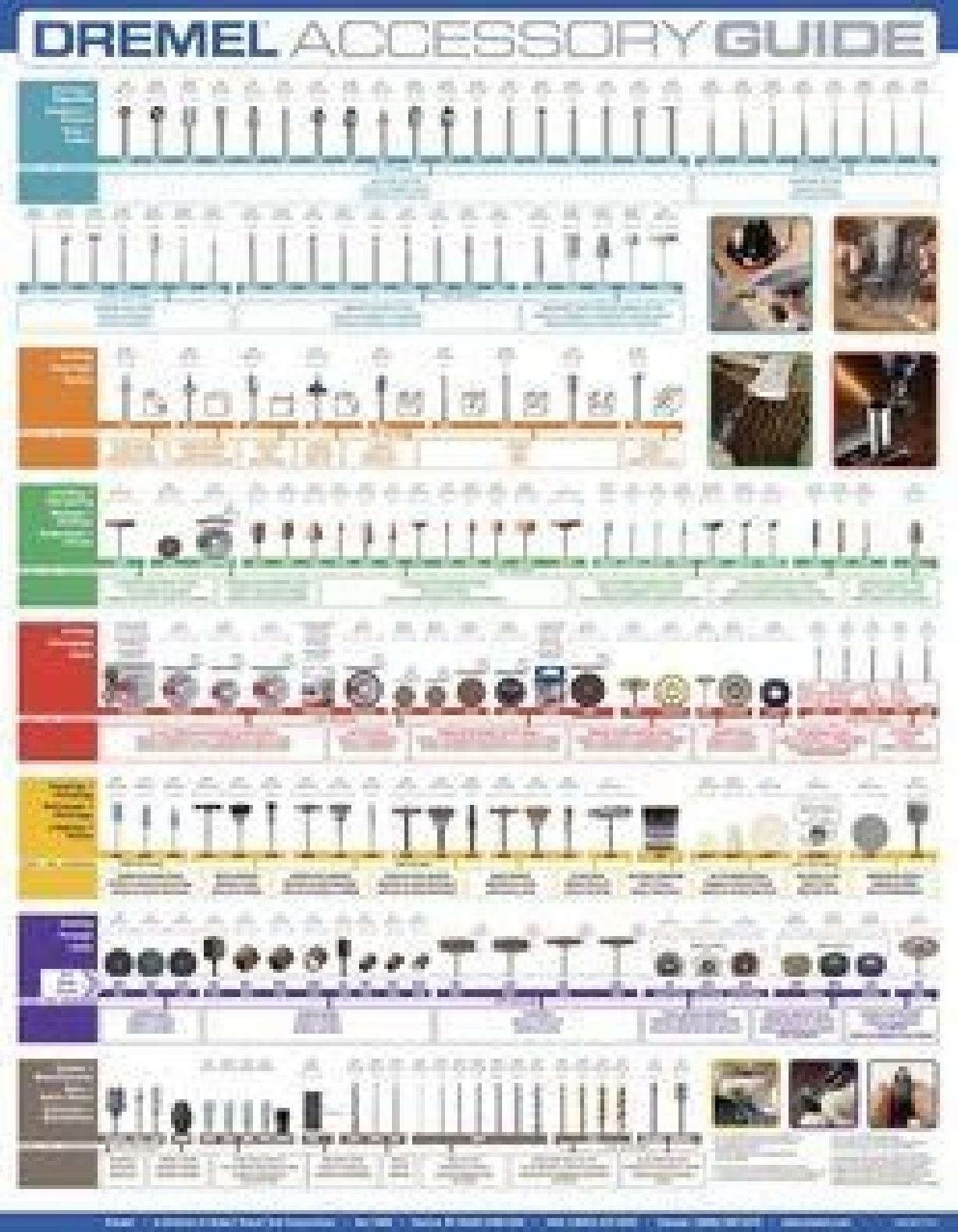
Multi-Purpose Cutting Bit	
MATERIAL	RPMs (1000s)
Aluminum	20-35
Brass	35
Copper	35
Drywall	35
Hardwood	20-35
Plastic	10-15
Softwood	20-35

Drywall Cutting Bit	
MATERIAL	RPMs (1000s)
Drywall	35

Carbide GROUT Removal Bit	
MATERIAL	RPMs (1000s)
GROUT	20

File Cutting Bit	
MATERIAL	RPMs (1000s)
Ceramic wall tile	35

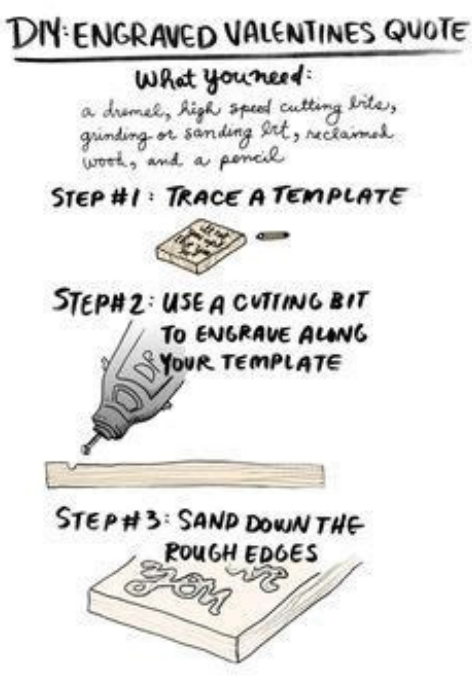
Dremel 689-01 (Amazon link) This engraving and carving set from Dremel that I mentioned in the wood section are also rated for metal use. Read the instructions carefully, though, because they are usually meant for soft metals. Trying to engrave reinforced steel might call for some special grinding stones. Fine tipped grinding stone bits are also excellent options for engraving metal. Just make sure that you can run them as cool as possible by using running water or dipping your piece in a pool of water while working. If you are worried about decaying the metal, run it slow to keep it cool. Dremel Bits For Glass and Ceramics The keyword for glass cutting is "Diamond." That's right; these bits are all bling and fancy because they are coated with a fine layer of diamond dust. This is because glass and ceramic have hard physical attributes that resist cuts and scratches. Diamond-tipped tools are the only things that can cut or scratch them. They come in different grits, just like sandpaper and whetstones. The range is between 40 and 600, where the higher the number, the finer the grit. Engraving Any diamond-tipped engraving tool will work just fine for glass. Anything that works on glass usually works well on ceramics also. Just like the carving bits for wood, the diamond-coated bits come in a wide variety of shapes and sizes. You can choose a large but cheap set for experimentation and then buy more expensive bits once you know which size you will be using the most.



Dremel 689-01 (Amazon link) This set from Dremel is a good example of a versatile kit at an affordable price. This is the third time it is appearing on this list. These tips are diamond coated and work well on all kinds of glass surfaces. The larger ones are special abrasive stones that work well on glass, ceramic, metal, and a host of other materials. But they are not great for wood. Polishing The same felt bits can be used for polishing glass because usually, you are just looking for some shine, not sanding. Cutting Dremel and other manufacturers make diamond-coated cutting wheels, such as below. These will slice through the glass at moderate speeds. Always read the user notes for recommended rotation speed for every accessory that you buy. This way your accessories will last a really long time. 545 Diamond Cutting Wheel (Amazon link) You can also get core cutting sets for cutting precise holes into glass and ceramic. Like the example below: Fits Dremel Tools (Amazon link) Dremel Bits For Stone Shaping and engraving stone is slow, especially for harder stones like granite and jade. For this reason, you will want to start with softer stones like sandstone and perhaps marble. Stones are pretty much like glass in this regard, and so you will need diamond-coated bits to make any headway into carving or engraving them. It is a slow process and requires patience and proper cooling, but it is gratifying to see what you have created out of a simple stone. Thus, everything I have mentioned in the glass segment holds for stone carving, grinding, and engraving. One word of advice – for larger pieces, you are better off roughing it out with hammer and chisel and then using the Dremel for the details, etc. Make sure you have running water or a basin to work with. This will help you keep the bit cool and prevent damage from overheating. This part is not mandatory but removing debris constantly within something like rubbing alcohol is important for greater accuracy and smoother experience. Also, resist the urge to increase the rotation speed. It will degrade your precision and damage the bit and possibly the design you are working on. It took thousands of years to form the stone you are holding. So a few extra hours to make art out of it is worth it. Here’s a good diamond-coated bits starter kit with lots of variety. FALLmuis Stone Carving Set (Amazon link) As you can see, it is rated for stone as well as glass, ceramic, and wood. Conclusion This list is far from exhaustive. It is meant to give you a broad overview of how Dremel bits work and what kind of bits to use for different materials and projects.



- TIPS ON USING A DREMEL:**
1. PICK THE RIGHT BIT FOR THE JOB AT HAND.
 2. DON'T FORCE IT. LET THE TOOL DO THE WORK.
 3. EXPERIMENT ON SCRAP MATERIALS FIRST.



Once you know which way your project is headed, you can start to dig deeper and find more specialized bits. I have covered such bits in previous articles for woodcarving projects. I hope this article has given you enough inspiration to jumpstart your rotary tool-based journey. The possibilities are truly endless here! Please consider using the links in this article and one on this website for any purchase you make from Amazon. As members of the affiliates program, we earn a small commission at no extra cost to you.



So you still get the best deals and quality online, and we get to produce more free content like this article. Dremel tools are little rotary tools. They fit nicely in your hand and have a little spinning blade or a cutting tool known as a Dremel bit at the end. Much like its big brothers, the die grinder and angle grinder, the Dremel tool is an extremely versatile tool. The sheer amount of jobs that it can do is staggering. However, to take advantage of this versatility, you have to find the right accessory or tool bit for your Dremel tool. I’m pretty familiar with the various tool bits that you can get for your Dremel tool, and so I figured that I would share that knowledge with you. But first, let me explain what exactly a Dremel bit is. What is a Dremel tool bit? A Dremel bit is a tool bit that can change the function of the Dremel rotary tool and allow it to do a variety of different jobs. You just simply attach it to the front of your Dremel rotary tool and you are ready to go. In this guide, I plan to show you a large selection of the various Dremel tool bits out there. There are quite a few, so I could never cover them all. However, I plan to cover a bunch of the more useful ones so that you can see just how handy a Dremel tool can end up being. Different Types of Dremel Bits Here is the list of the most commonly used Dremel bits and their uses. 1. Sanding Bits One of the main things that you can use your Dremel tool for is sanding down various surfaces. Whenever you hear the term “sanding,” your mind immediately jumps to wood sanding, and for a good reason. With the right bit, you can definitely use your Dremel tool for sanding and smoothing out wood. However, don’t make the mistake of thinking that you are limited to just that because you aren’t. With the right sanding disc or band, you can sand materials like fiberglass, clay, plexiglass, and more.

Sanding bits for Dremel tools come in two different kinds. Drums The first kind is known as “drums.” Basically, they look like little round cylinders. You attach the cylinder to the end of your Dremel tool and then you slip what is called a “band” over the cylinder. The band has abrasive particles on it, and the drum holds the band. The band is what does the work. So, in the case of sanding, the band will be covered with the abrasive material that you use to sand down the wood, plexiglass, aluminum or whatever else it is that you happen to be sanding. Discs The second kind is known as “discs.” If you have ever used a sander before, then this is going to be a bit more familiar to you. How it works is you have these little discs that you attach to the end of your Dremel tool and you use the disc for precision sanding. Generally, if you have to sand a larger surface, then you want to go for a drum bit. If you want more precision, then go for a sanding disc for your Dremel tool instead. Note: You should know that a rotary tool like Dremel cannot replace dedicated power sanders like belt sanders or orbital sanders. 2. Cutting Bits While most people, when they need to cut things like wood or tile, will go for something like an angle grinder or a circular saw, the Dremel tool functions perfectly well as a cutting tool if you know what bits to use. There are plenty of different kinds of cutting bits that you can use. Pretty much all Dremel tool bits that are meant for cutting are shaped like discs. However, that doesn’t mean that all cutting discs are built the same way. Some of the cutting discs are made with minimal gaps between the teeth (more number of teeth) for very precise cutting. Others have very large gaps between the teeth, which helps for bulk cutting, where you don’t really care too much what the final product looks like. Much like with the sanding bits, you might be tempted to think that cutting bits for your Dremel tool is only able to be used with wood, but again, you would be mistaken. Regular cutting bits can be used for wood, but if you need to cut things like thin metal, aluminum, or tile, then you can use a fiberglass cutting bit instead.

3. Etching and Engraving Bits Dremel tools are perfect for doing etching, engraving, carving, or general decorative work. This is because Dremel tools are extremely small and allow for very precise engraving and decorating. Using etching and engraving bits is easy. You just pick the specific bit that you want and pop it onto the end of your Dremel tool. They come in different patterns, sizes, and styles, so all of the difficulty comes from finding the one that works best for you. Tip: Use diamond-tipped Dremel bits for engraving glass-work. 4. Routing and Drilling Bits If you needed more proof that the Dremel tool is one of the most versatile power tools out there, how about the fact that in addition to cutting, engraving, sanding, polishing, and everything else that it can do, it can also act like a drill. That’s right, with the right routing or drill bit, your Dremel tool can become a great option for routing wood or drilling into soft material like wood, plastic, or thin metal. As with all of the other bits that I have talked about so far, there are a wide variety of different routing and drilling bits for you to choose from. So, regardless of what sort of drilling and routing work that, you need to do, you should be able to find the perfect bit to use. 5. Grinding and Sharpening Bits Do you have an old blade or axe that could use a bit of upkeep? Do you have some metal that has a bit of rust that needs to be ground away? If so, then there is no reason why you can’t be using your Dremel tool for that. There are a bunch of very useful grinding and sharpening bits that you can pick from. There are two different kinds of bits that fall into this category. Grinding Wheels First off, there grinding wheels. These are generally made from abrasive material such as Aluminum oxide. They are usually in disc shape with a thin cross-section compared to the diameter. The thin grinding wheels can be used for parting-off and cutting while the thicker wheels are good for general purpose. The edge wheels and Paint & Rust Surface Prep wheels are great for grinding off stuck-on rust from metal surfaces. Grinding Stones Secondly, there are grinding or sharpening stones. As you might have guessed, these stones are what you use for sharpening knife blades, ax blades, and much more. These sharpening stones are often made of silicon carbide or aluminum oxide. They are cylindrical in shape and work well for grinding profiles and holes. What Dremel Bit for Each Job In this next part of this article, I want to quickly talk about what the Dremel tool bit is good for each job. Obviously, I can’t cover every job, but I can go through a few of the more common and more popular ones. What Dremel Bit for Wood Cutting? If you want to use your Dremel tool for cutting wood, then the best option for you is to invest in a carbide cutting wheel. These bits are great at quickly cutting through even the toughest pieces of wood. For wood carving, you can get hardened high-speed steel bits or carbide bits. The carbide bits are more durable and will last you for a while. I have put together a list of wood carving Dremel bits here. Likewise, the carbide is so good at cutting, that it allows you to do both bulk cutting and more precise cutting as well. If you need to cut something tough like metal or if you just need to work with it, then you are going to need to invest in a Dremel metal cutting wheel tool bit. To be more specific, look for an abrasive cutting wheel that is made out of a material like fiberglass or even better, aluminum oxide. These are great for metalwork. For metal engraving work I recommend carbide bits. They are good for carving soft metals like aluminum, brass, etc. For hard metals like steel, you can use carbide burrs for deburring and chamfering. However, keep in mind that while carbide bits are very hard, they are also brittle. What Dremel Bit for Glass Cutting? If you need to cut glass, then you need a Dremel tool bit that is made out of the diamond. This is something that is true for basically every power tool. If you need to work with glass, then you need diamond-tipped equipment, it is basically non-negotiable. This is because glass is very hard and brittle. Thankfully, there are plenty of diamond-tipped Dremel bits out there, so you shouldn’t have any issues finding some. Best Dremel Bit for Stone Carving Again diamond-tipped bit is the best choice. However before you go and buy a diamond-tipped burr, you should know that the selection of tools also depends on the type of stone or rock that you are going to work. Soft stones like sandstone and soapstone are easy to carve. You can also carve soft marble, but it takes time. If you want to remove a lot of material, then consider using a chisel and hammer to get the rough shape and finish it with Dremel. Hard stones like granite, jade, etc. are very tough to work with. My suggestion is to start with soft stones first and then work your way up. Diamond bits are available in different grit sizes from 40 grits (coarse) to 600 grit (fine). The standard 150-grit diamond-tipped bit can work very as an all-purpose Dremel bit for stone, glass and other such hard materials. Home » Grinders