

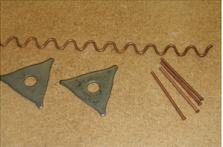
# Air Ratchets & Impacts

	<p><b>3/8 Air Ratchet</b> <b>Usage:</b> This is a 3/8 Air ratchet, the square head on the end measures 3/8 inch across which denotes its name. Ratchets are used in conjunction with sockets to twist bolts on and off. They are much faster than a hand ratchet and increase productivity.</p>
	<p><b>1/2, 3/8, 1/4 Air Ratchets</b> <b>Precautions:</b> Be sure the correct drive size and socket size is used on the bolts or resulting damage will occur to the ratchet, socket, and bolt. Wear your safety glasses. <b>Usage:</b> This is an example of the three most widely used drives of air ratchets, notice the size difference of the square head, sockets are named by the same corresponding drive size. The drive size indicates the power side of the ratchet or socket.</p>
	<p><b>3/8, 1/2 Drive Air Impacts</b> <b>Precautions:</b> Impacts have more power than ratchets; some have as much as 500 foot lbs. of torque. This means that bolts are easily broken or stripped. Regular sockets can be cracked by the power of these tools so it is recommended that impact sockets be used. <b>Usage:</b> These impact tools are used on stubborn bolts and larger bolts where access can be gained. The use of a wobbley socket is not recommended, it will easily disengage and fly off, or break.</p>

# Air Sanders

	<p><b>Air Board File or Inline Sander</b> <b>Precautions:</b> Use safety glasses and a dust mask with this tool. This sander is to be used flat against the surface not on end or on the edges; this type of misuse will damage the pad and gears. Inlet pressure should be no greater than 90 psi. <b>Usage:</b> The inline sander is named after its inline, back and forth, motion. They are typically used to sand, cut, and shape filler materials. The board file is one of the tools used for the initial cutting of fillers and use 36-40 grit sandpaper for this operation. They can also be used with finer grit papers if desired.</p>
	<p><b>Six Inch Dual Action Sanders or DA</b> <b>Usage:</b> The DA sander is used on painted surfaces that require leveling. It should be kept flat to the surface; any lifting of an edge will dig a hole and create a bull's eye when painted over. The DA oscillates and Spins thus the dual action. There are three main pattern sizes each DA has a specific patten built in, some have a very fine oscillating pattern, others large, the larger the oscillating pattern the more aggressive the cutting action and courser grit paper is used. Note, the beginner should never use a DA directly over filler materials; it is too easy to create flat spots and dish out the filled surface.</p> <p>Watch the <a href="#">video</a></p>
	<p><b>Six vs. Eight Inch Dual Action Sander or DA</b> <b>Usage:</b> This picture is a comparison of the six inch dual action sander to the eight inch dual action sander.</p>
	<p><b>Eight Inch Dual Action Sander / Mud Hog</b> <b>Usage:</b> Many refer to this tool as the Mud Hog because it is very aggressive and is typically used to sand, cut, and shape body fillers. You will recall the inline sander does the same job; the basic differences are in the aggressiveness between the two. NOTE, the Mud Hog is the most aggressive and the hardest to control, the Inline Sander is next aggressive and is easier to control, the hand board sander is the least aggressive but has the most control.</p> <p>Watch the <a href="#">video</a></p>

# Dent Removal Equipment

	<p><b>Unispotter</b> <b>Usage:</b> The unispotter uses a pin or nail designed specifically for this machine that is spot-welded the low areas of damage, the nail can then be gripped by the puller and allows the technician the ability to pull the damage out. When the damage is pulled out to the desired shape the nail is twisted off, leaving a clean undamaged surface.</p> <p>Watch the <a href="#">video</a></p>
	<p><b>Wiggle Wire / Unispotter Pins / Lenco Triangle Tips</b> <b>Usage:</b> These tips are used in conjunction with dent removal equipment. Wiggle wire is used with the Dent Maxi, triangle tips are used with the Lenco, and nails are used with the Unispotter.</p>
	<p><b>Lenco Dent Remover</b> <b>Usage:</b> The Lenco dent remover requires a triangle tip that is welded to the damaged area then pulled with the accompanying slide hammer. Each side of the triangle tip can be used dozens of times before a new tip is needed.</p> <p>Watch the <a href="#">video</a></p>
	<p><b>Dent MAXI</b></p> <p>Watch the <a href="#">video</a></p>
	<p><b>Bear Claws</b> <b>Usage:</b> The Dent Maxi is used in the same manner as the Lenco or the Unispotter, and accomplishes the same tasks. The Dent Maxi has a few advantages in that it can apply wiggle wire that a Bear Claw can be hooked when a heavy pull is desired. The tip on the Dent Maxi is non-consumable and only requires cleaning once in a while by grinding the end of the tip to the proper shape.</p> <p>Watch the <a href="#">video</a></p>

# Die Grinders

	<p><b>Die Grinders</b> <b>Precautions:</b> They will produce heat and sparks, be aware of the direction the sparks are flying. Sparks will pit glass and create an eye hazard. Close attention should be taken to the placement of fingers and body parts, as there is no shield on the shank of these tools. <b>Usage:</b> The die grinders spin at a very high RPM and are use to cut sheet metal and grind welds.</p>
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	<p><b>Die Grinder With Carbide Burr</b> <b>Usage:</b> The Burr sets are of different size and shape and can grind metal welds, or shape and prepare plastic parts for welding.</p>
	<p><b>Die Grinder Disc's</b> <b>Usage:</b> The thin die grinder disc is used for cutting; the thick disc is used for grinding of welds.</p>
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## Drills & Cutting Equipment

	<p><b>3/8 Air Drill</b> <b>Usage:</b> 3/8 indicates the size opening of the chuck. This particular chuck is keyless.</p>
	<p><b>Assorted Cordless, Right Angle, 1/2 Inch Drills</b> <b>Usage:</b> Distinctive features allow drills to be used in hard to reach or powerless areas.</p>
	<p><b>Drill Index</b></p>
	<p><b>Spot Weld Cutting Bit Set</b></p>
	<p><b>Hole Saw Set</b> <b>Usage:</b> These different cutting sets are specific in design and function. Their names are self-intuitive of their function.</p>

# MIG Welding

	<p><b>MIG Welding</b> <b>Safety Precautions:</b> Looking at the flash of a welder will cause injury to the eyes, always wear a welding helmet with the appropriate lens (11-14) shade for MIG welders. NOTE, MIG welders produce a magnetic field that is 6-8 feet in circumference, if any computer is within the field it will be damaged. Keep the welder away from vehicle computers. <b>Usage:</b> MIG welding is the standard process used in the collision industry for fusion of metals, the MIG recommended for Plug welds, butt welds, and lap welds. The correct gas and wire are necessary to pass vehicle safety standards. They are C25 gas, and 70,000 lbs. tensile solid wire.</p>
	<p><b>Welding Helmet</b> <b>Safety Precautions:</b> Always use a welding helmet with the proper lens. Shades between 11-14 are good for MIG welding.  Watch the <a href="#">video</a></p>
	<p><b>Welding Gloves</b> <b>Safety:</b> Welds on metal surfaces remain hot for long periods of time are sure to use gloves and pliers to handle the metal. Gloves will also protect from weld burns, much like sunburn.</p>
	<p><b>MIG Welding Pliers</b> <b>Usage:</b> Notice the shape of the welding pliers, the large gap by the handle is used to remove the nozzle when hot, the small round gap on the nose is used to remove the tip when hot, there are also wire cutters and a square nose that helps in keeping the nozzle clean from slag.</p>