

NC Agricultural Tools and Materials ID

Images and Uses

Revised 2025

101. 45 degree pipe elbow - Making a 45 degree turn with a pipe



102. 90 degree pipe elbow - Making a 90 degree turn with a pipe



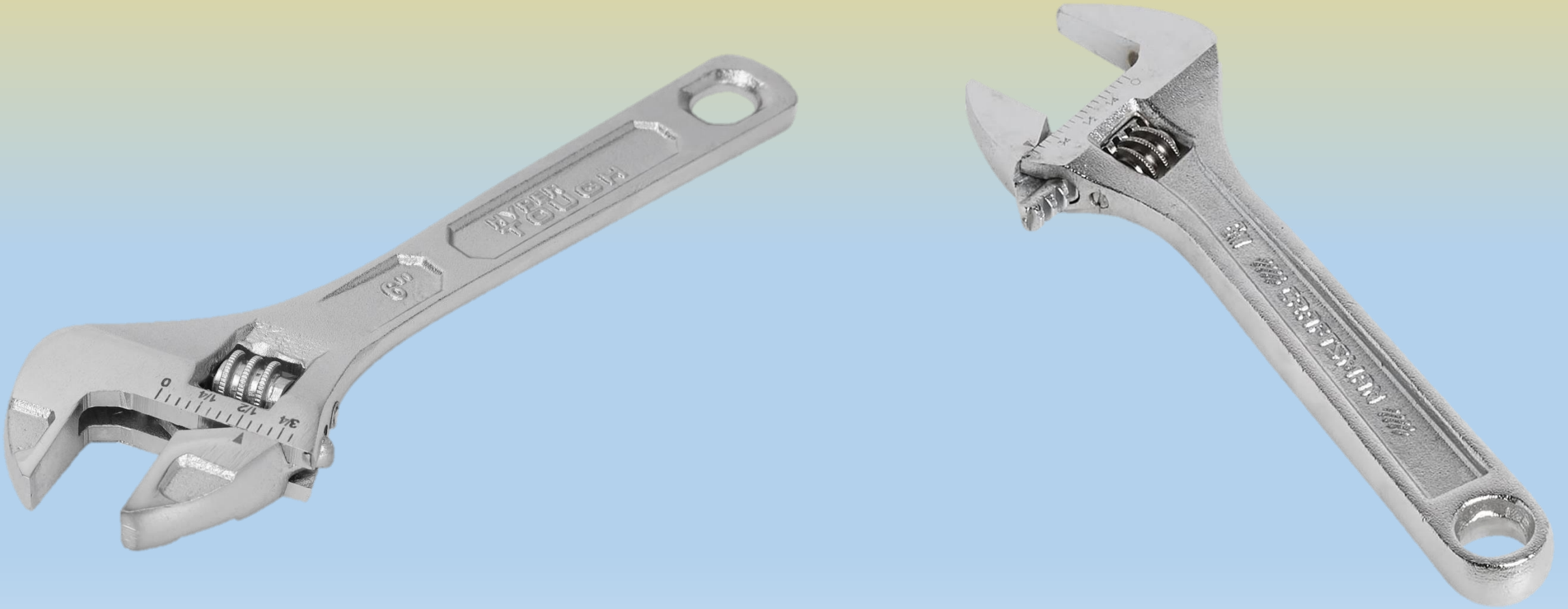
103. 90 degree street elbow – Making a 90 degree pipe turn; inside threads (female) on one end and outside threads (male) on the other



104. Abrasive chop saw – Cutting various types and sizes of materials with abrasive wheels



105. Adjustable wrench – Turning various sized nuts and bolts



106. Air compressor/hose – Machine that supplies air used for tools and equipment



107. Allen wrench – Turning hex head socket screws



108. Angle grinder– Power tool used for cutting, grinding or polishing



109. Animal clippers – Trimming hair or wool on pets and livestock



110. Aviation snips – Cutting sheet metal



111. Backpack sprayer – Used to spray liquid pesticides in mist form on plants or soil



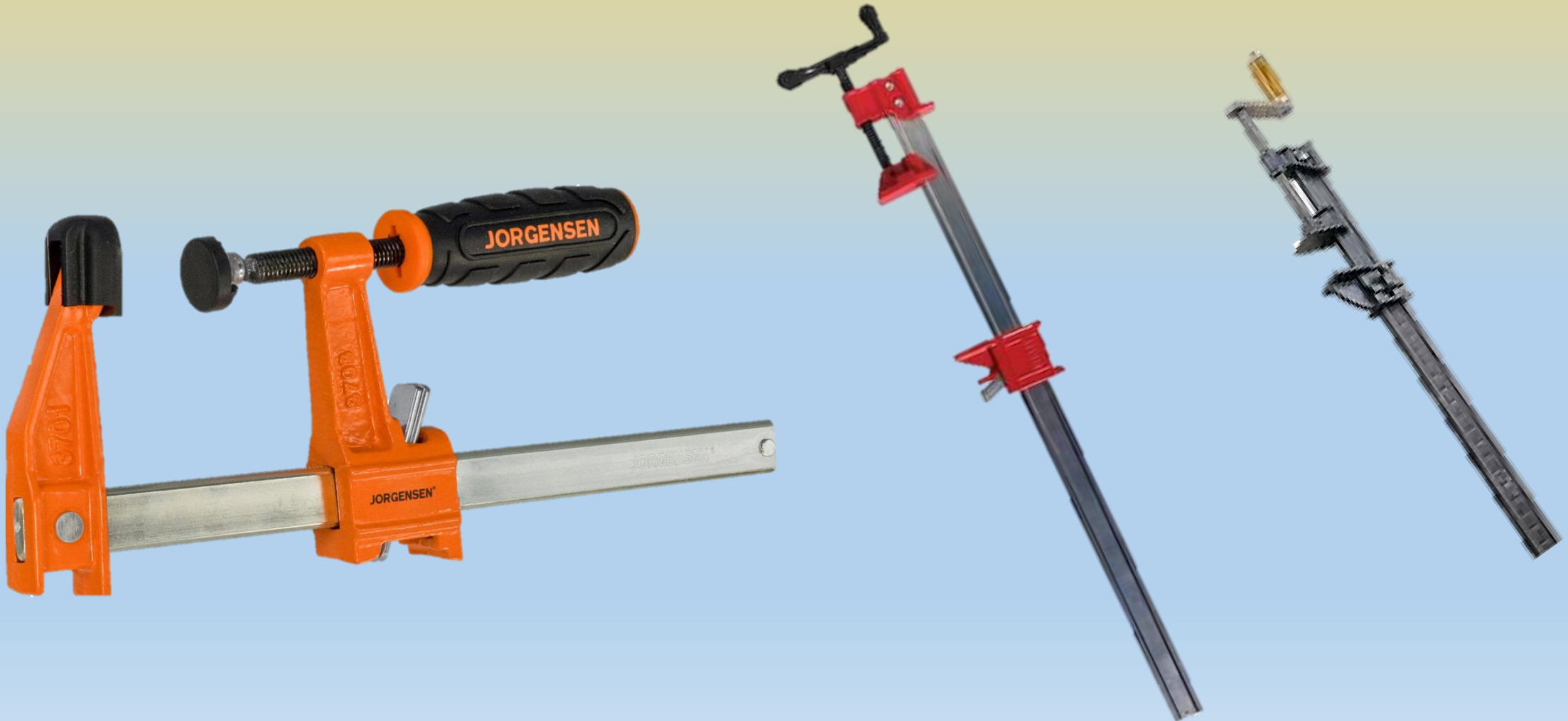
112. Ball peen hammer – Hammering metal



113. Balling gun – Delivering medication to large animals orally



114. Bar clamp – Clamping large sections of wood together



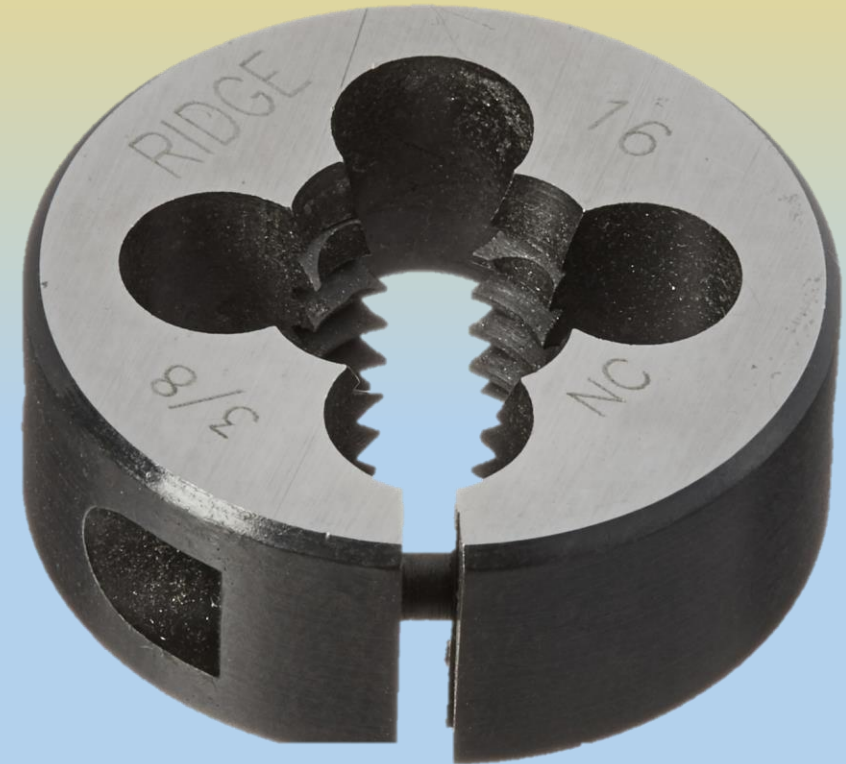
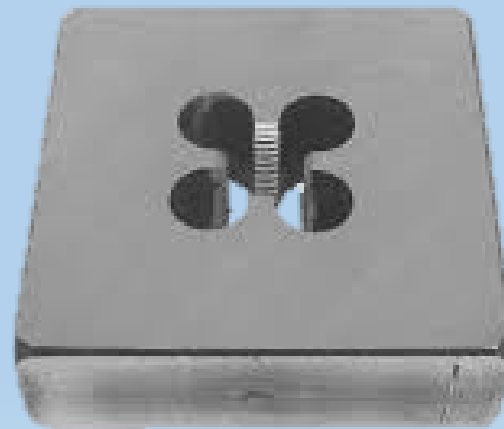
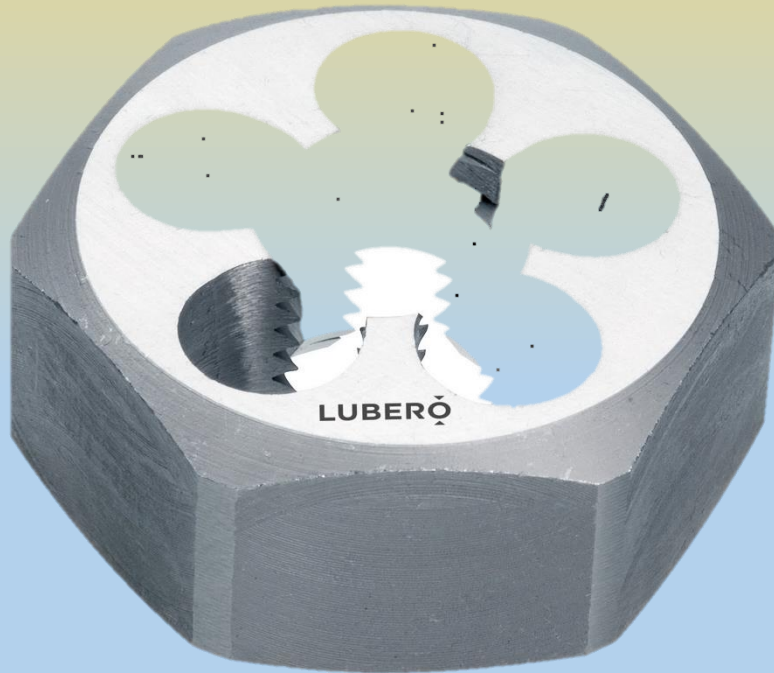
115. Bent nose pliers - Reaching obstructive or awkward places



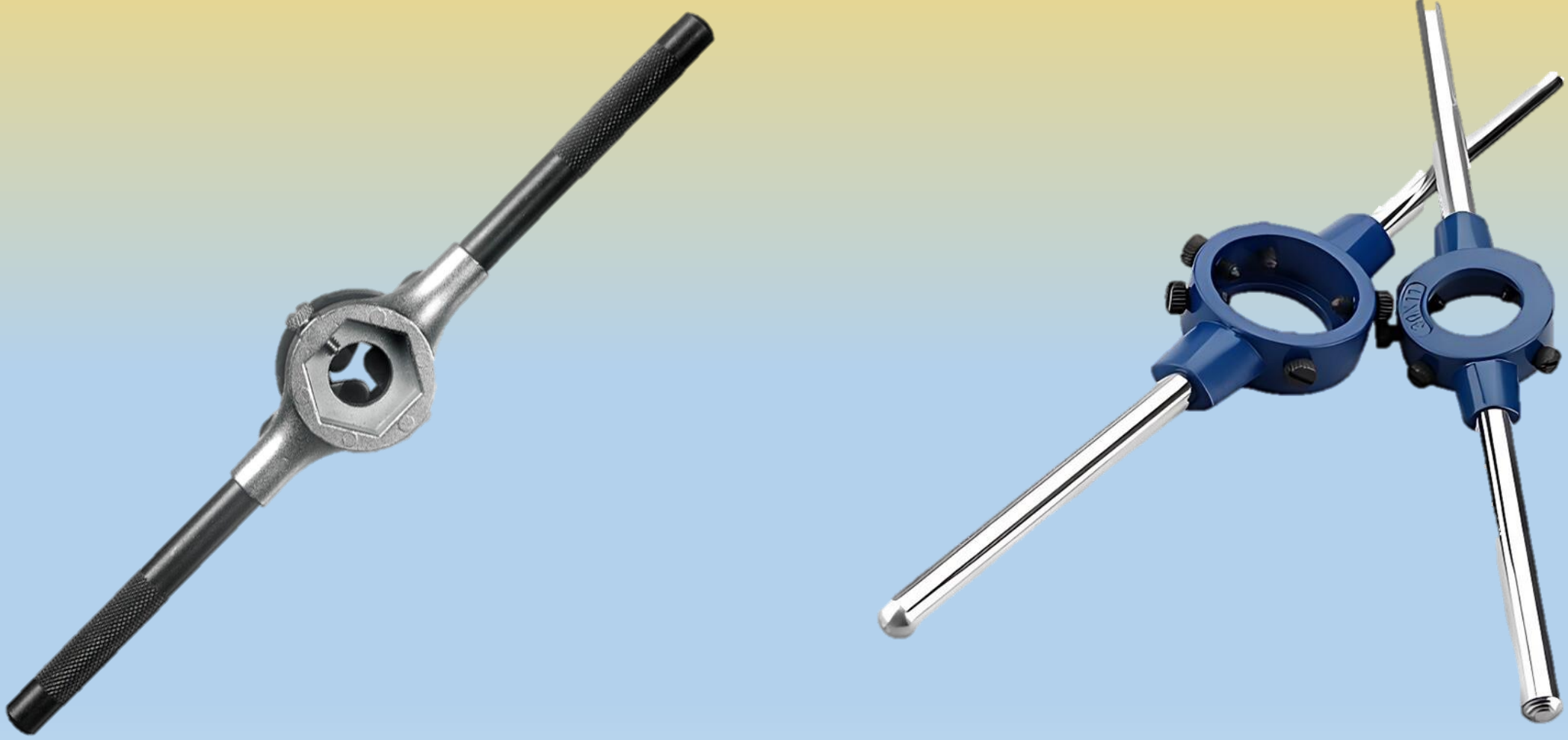
116. Bolt cutters - Cutting bolts and steel rods



117. Bolt die - Cutting threads on bolts and rods



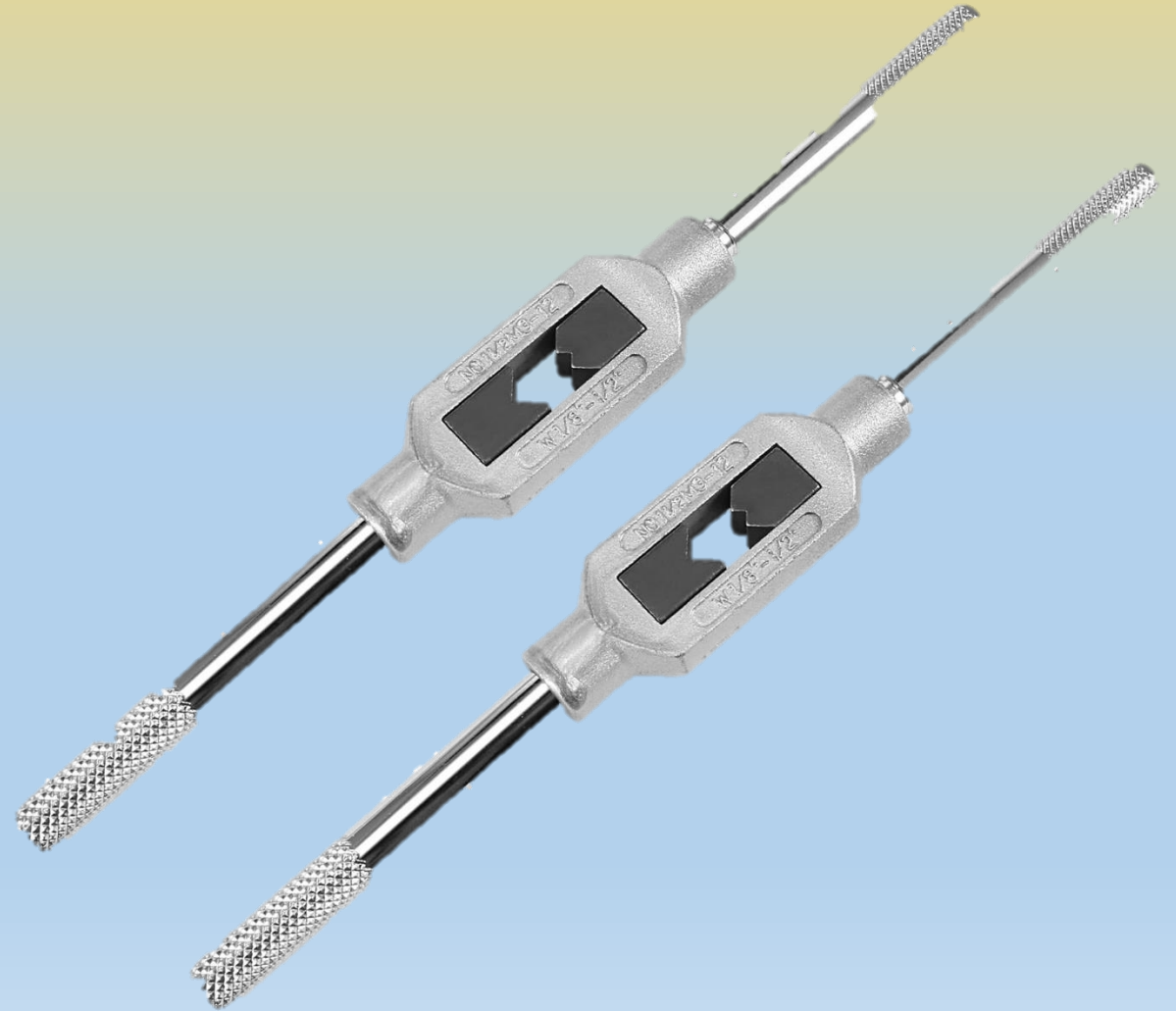
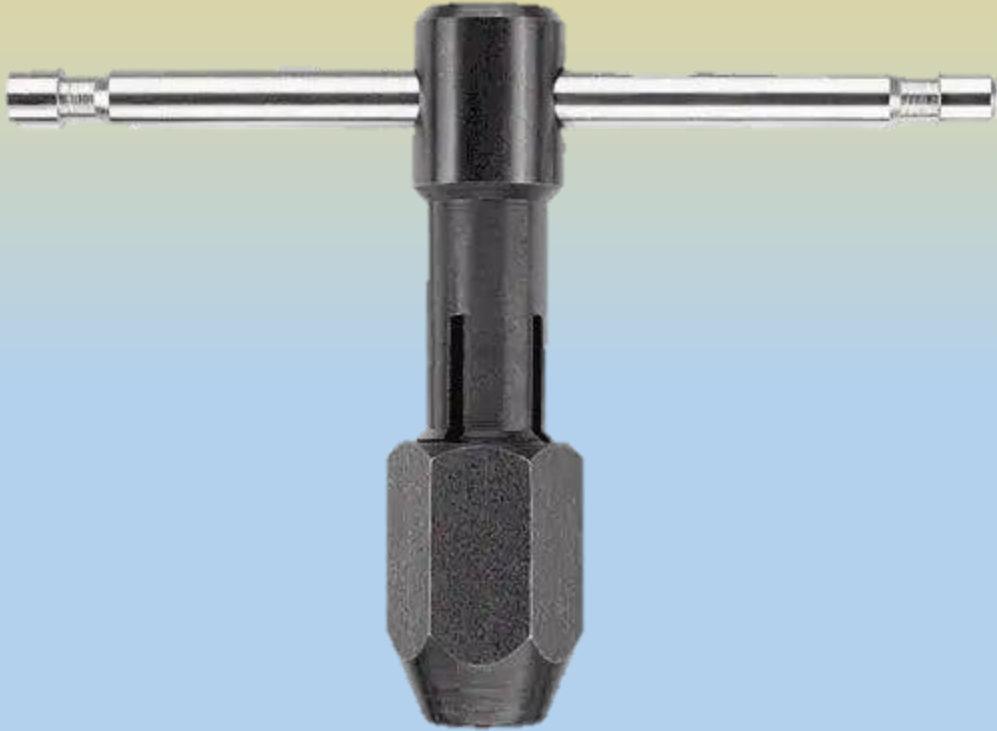
118. Bolt die stock – Holding a bolt die



119. Bolt tap - Cutting inside threads



120. Bolt tap wrench - Holding bolt tap



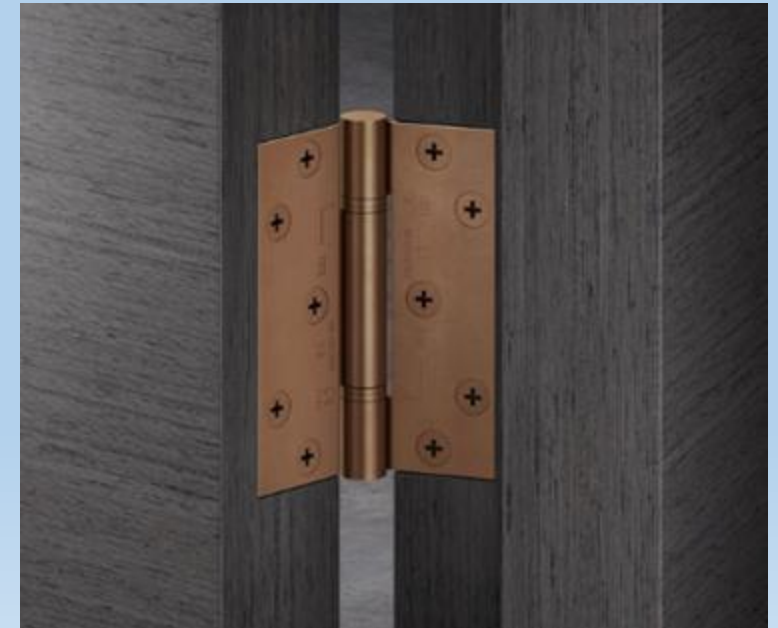
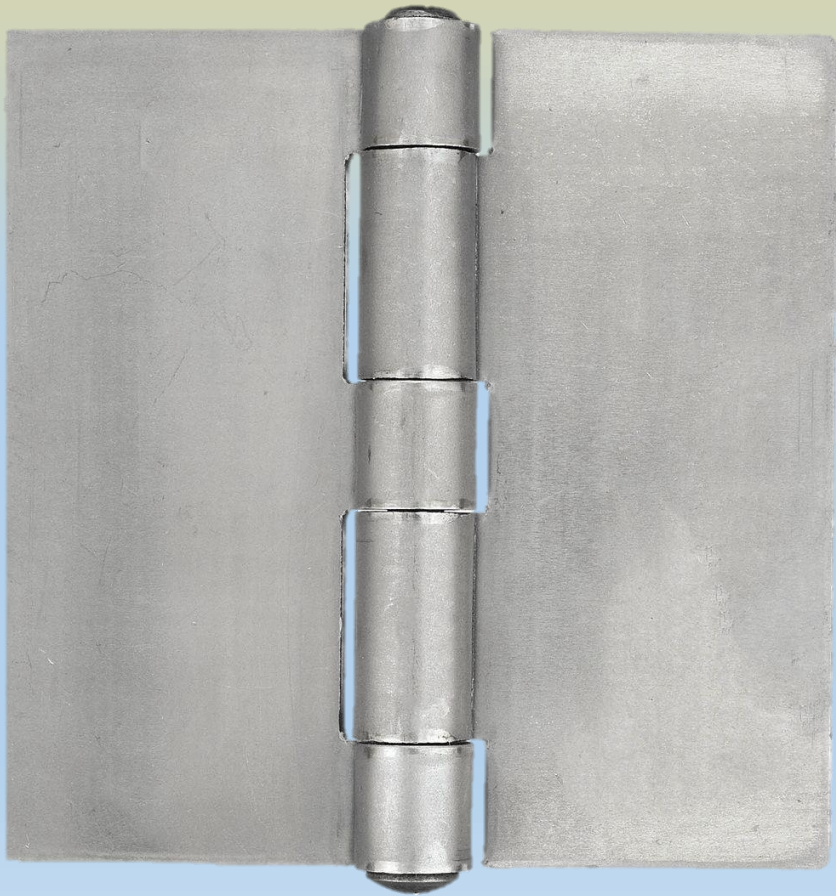
121. Brick jointer- Smoothing and designing masonry joints



122. Brick trowel - Placing and spreading mortar



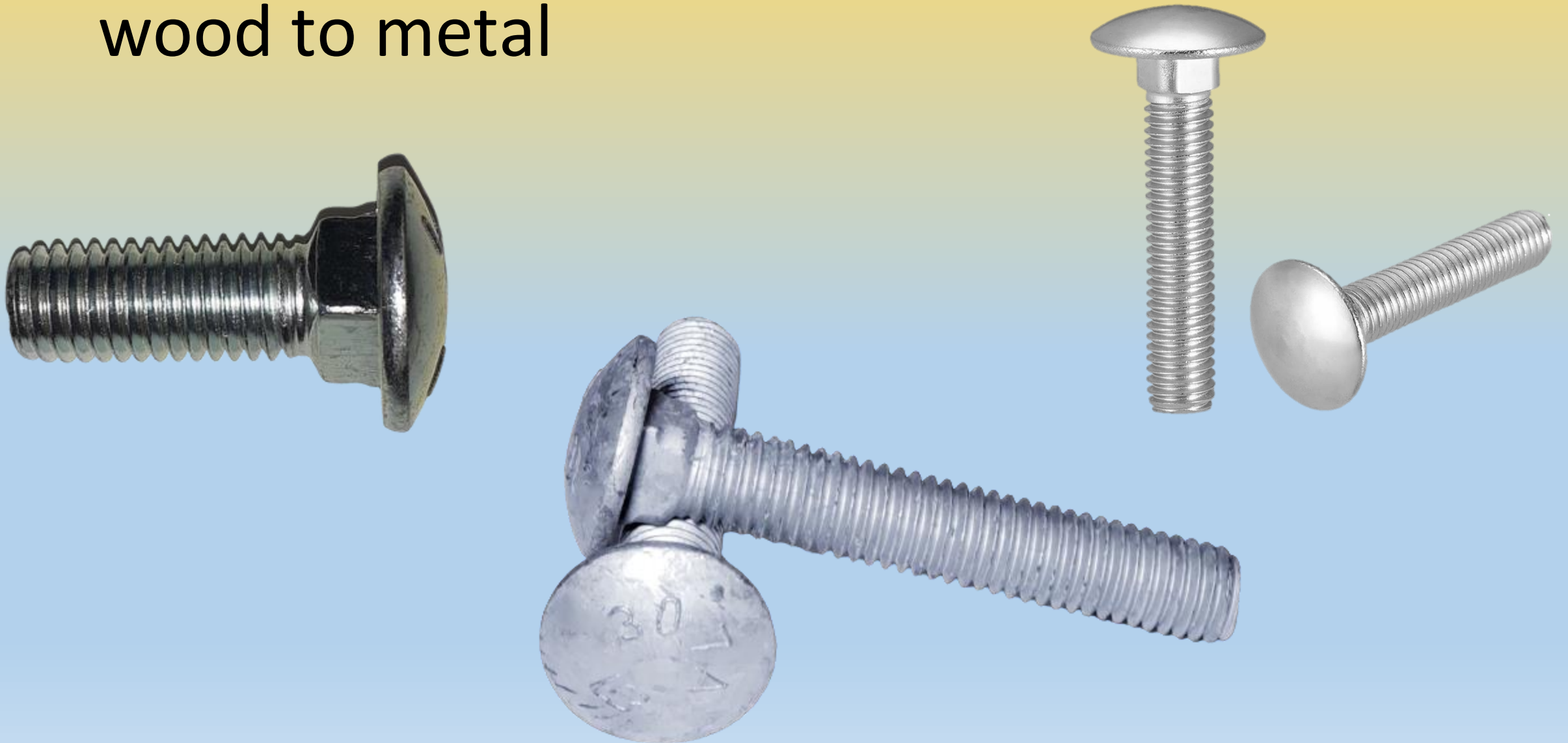
123. Butt hinge - Hinge for narrow facing



124. C clamp - Clamping two or more pieces of metal together



125. Carriage bolt - Bolting wood to wood or wood to metal



126. Castrator – Sterilizing male animals



127. Caulking gun – Holding a tube with material for patching holes or sealing cracks



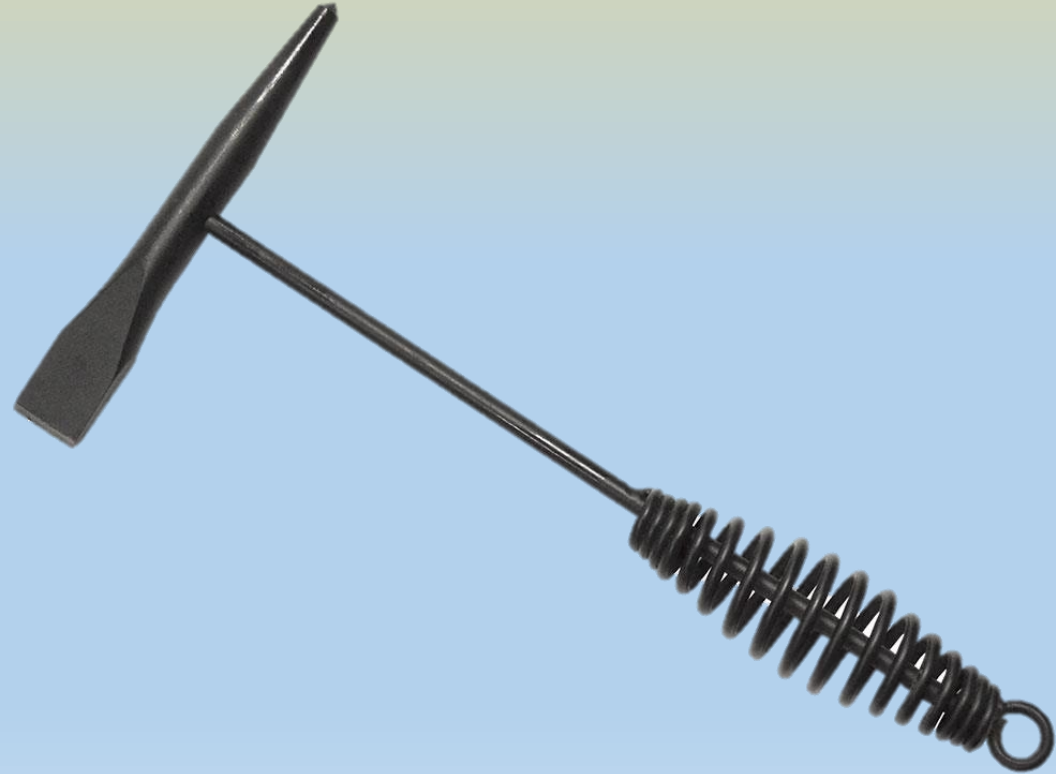
128. Center punch - Starting holes in metal



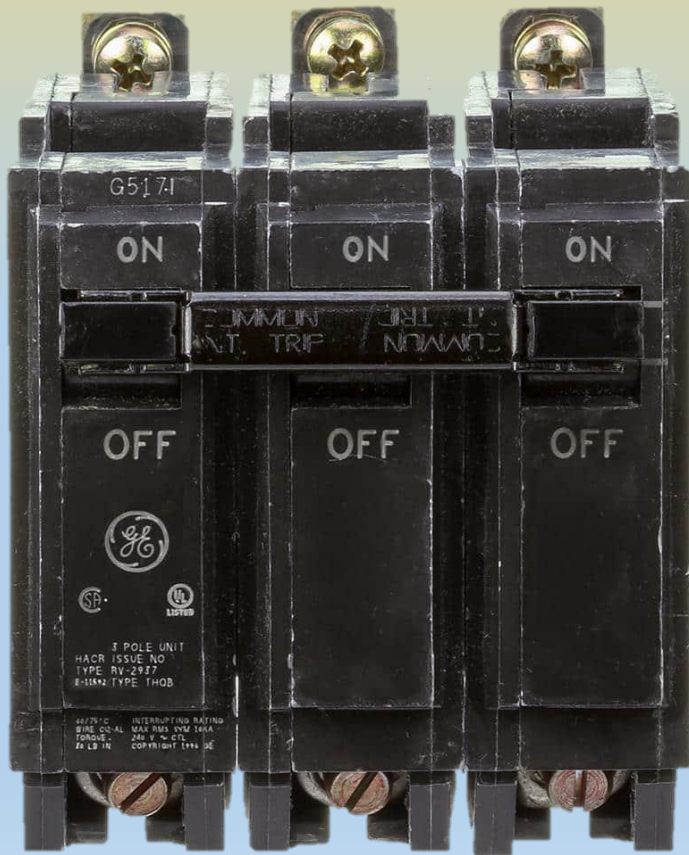
129. Chalk line reel - Marking straight line



130. Chipping hammer - Removing slag from welds



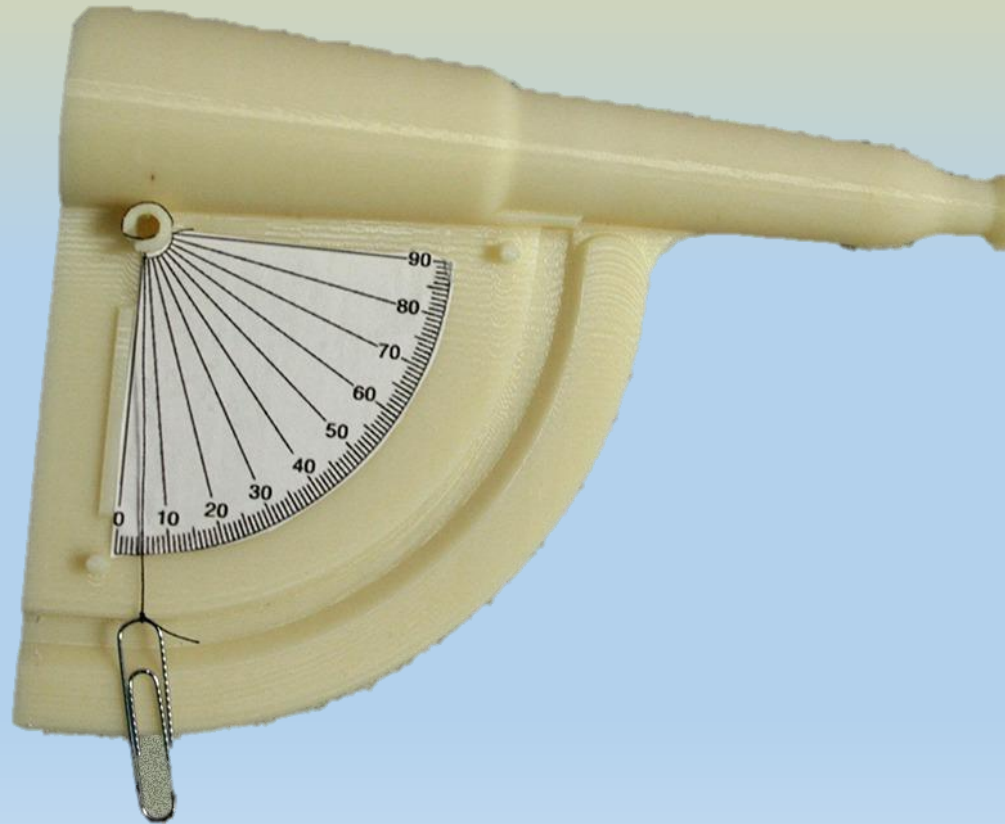
131. Circuit breaker - Protecting electrical circuits from overload



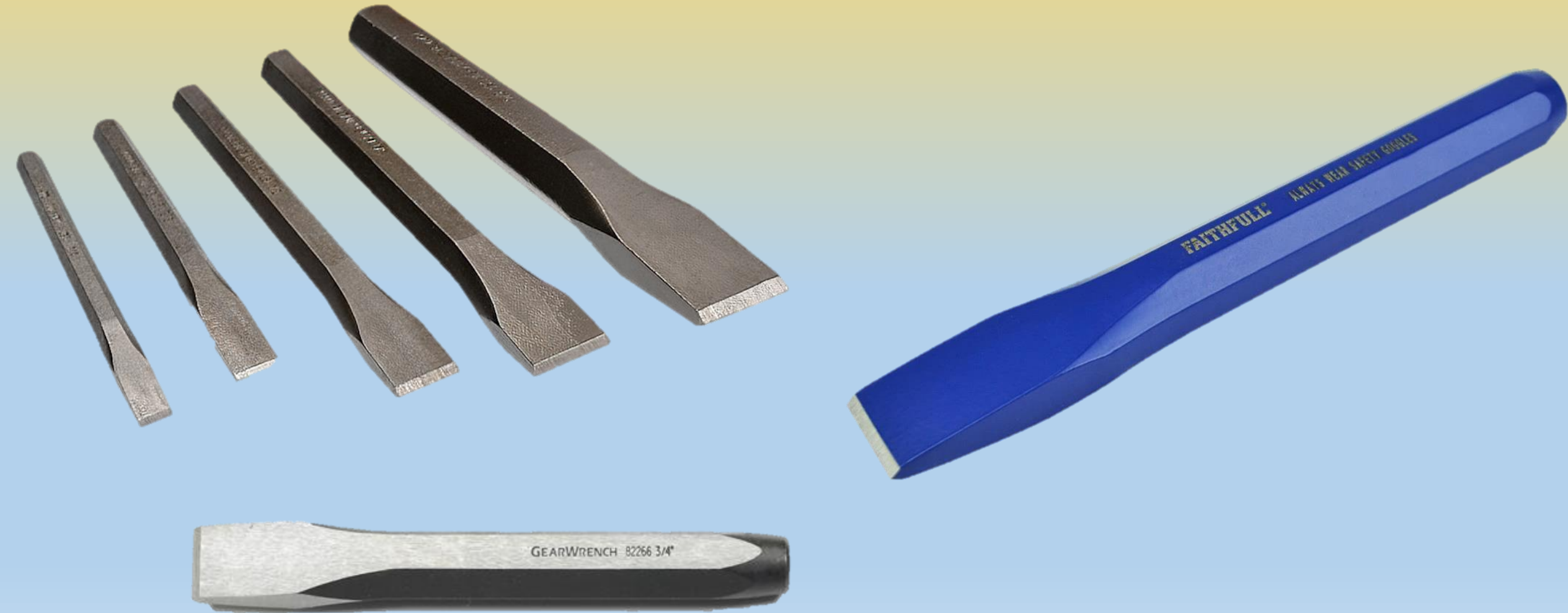
132. Circular saw - Sawing wood in construction projects



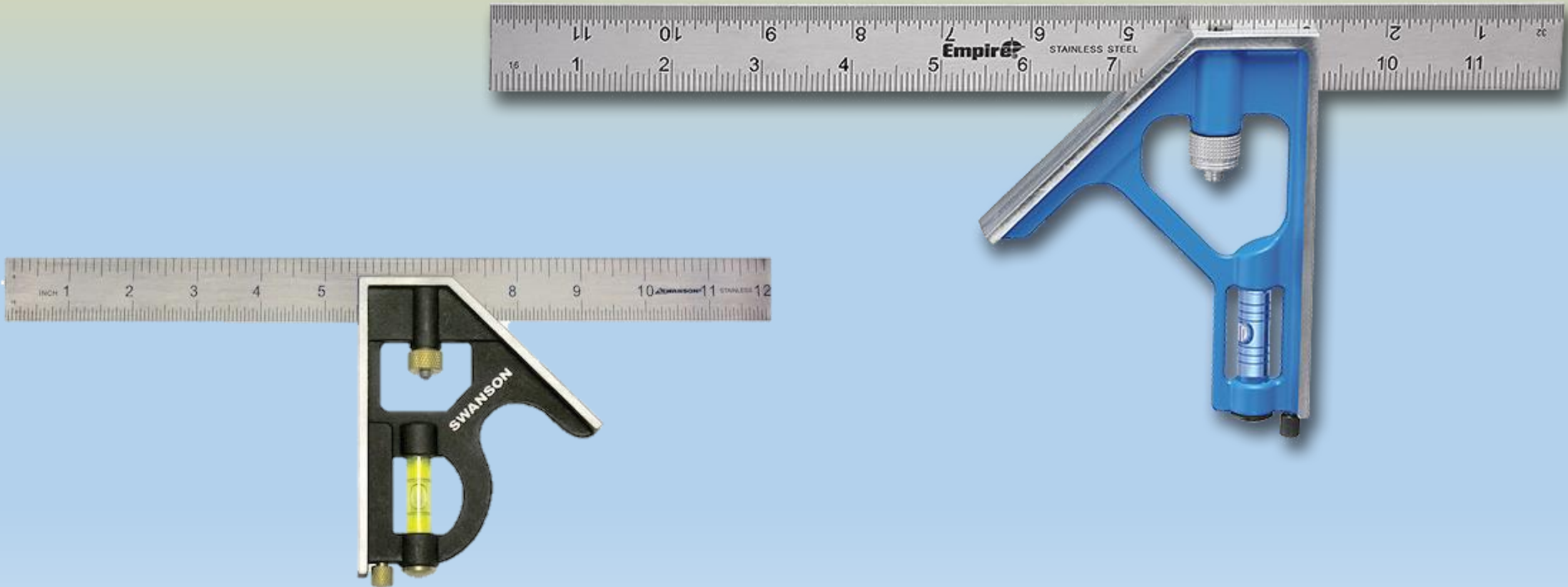
133. Clinometer – Measuring heights of objects or elevations of slopes



134. Cold chisel - Cutting metal



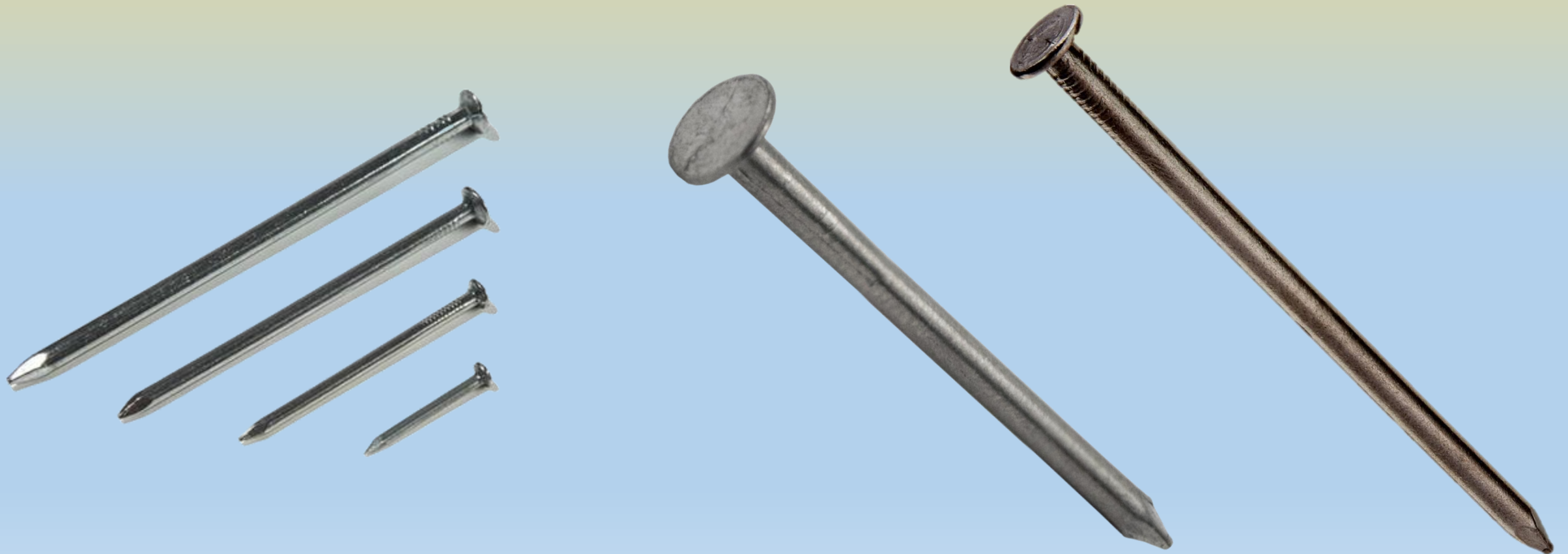
135. Combination square - Determining 45° and 90° angles



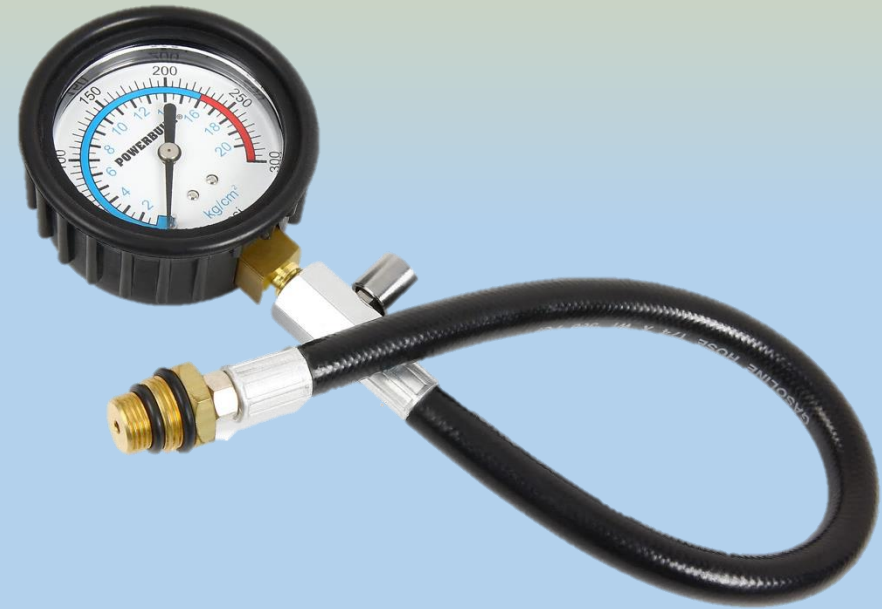
136. Combination wrench - Turning hex and square nuts and bolts



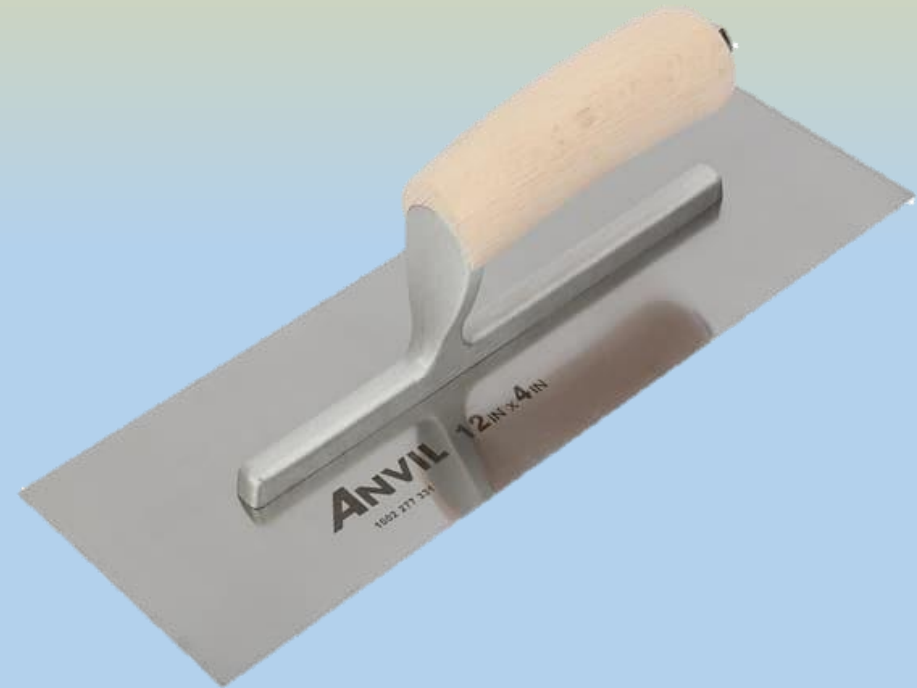
137. Common nail - Nailing boards together where holding power is desired



138. Compression tester – Providing accurate readings on the pressure inside engine cylinders



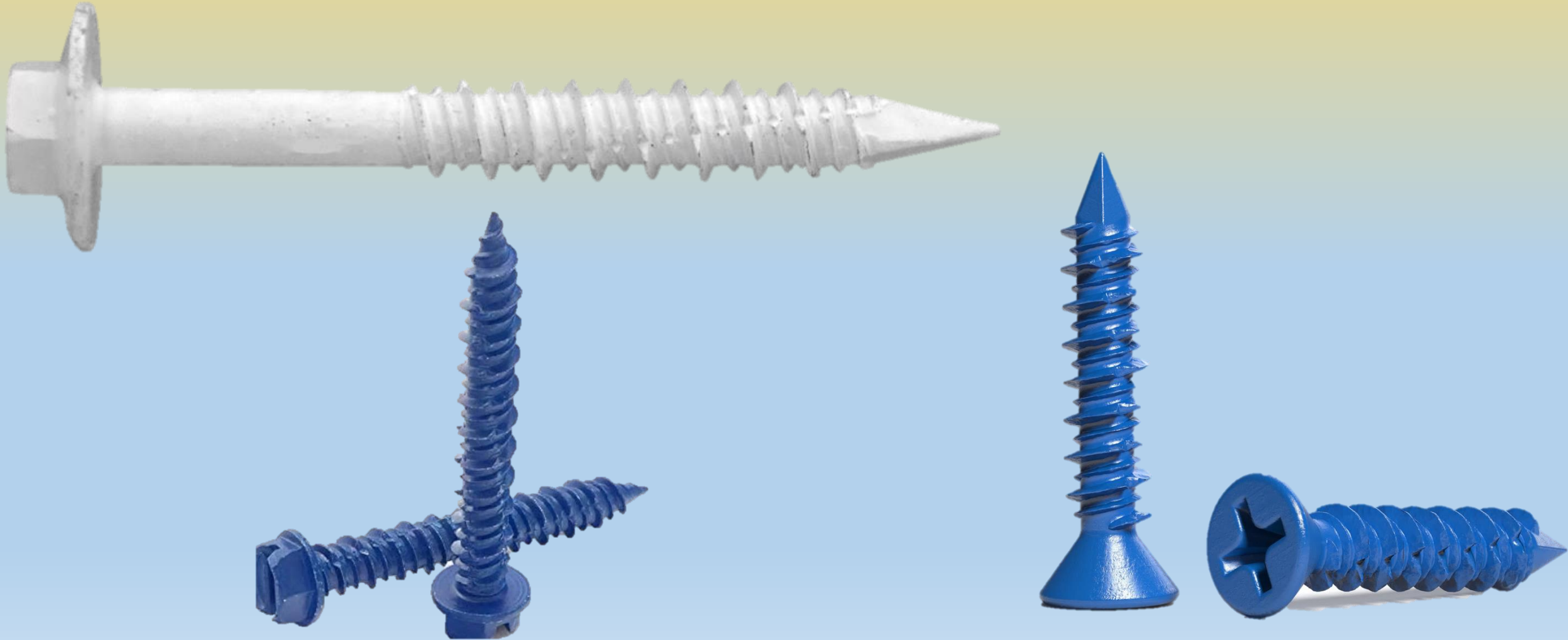
139. Concrete finishing trowel - Smoothing concrete



140. Concrete float - Leveling concrete



141. Concrete screws – Anchoring into predrilled holes in concrete, brick or block



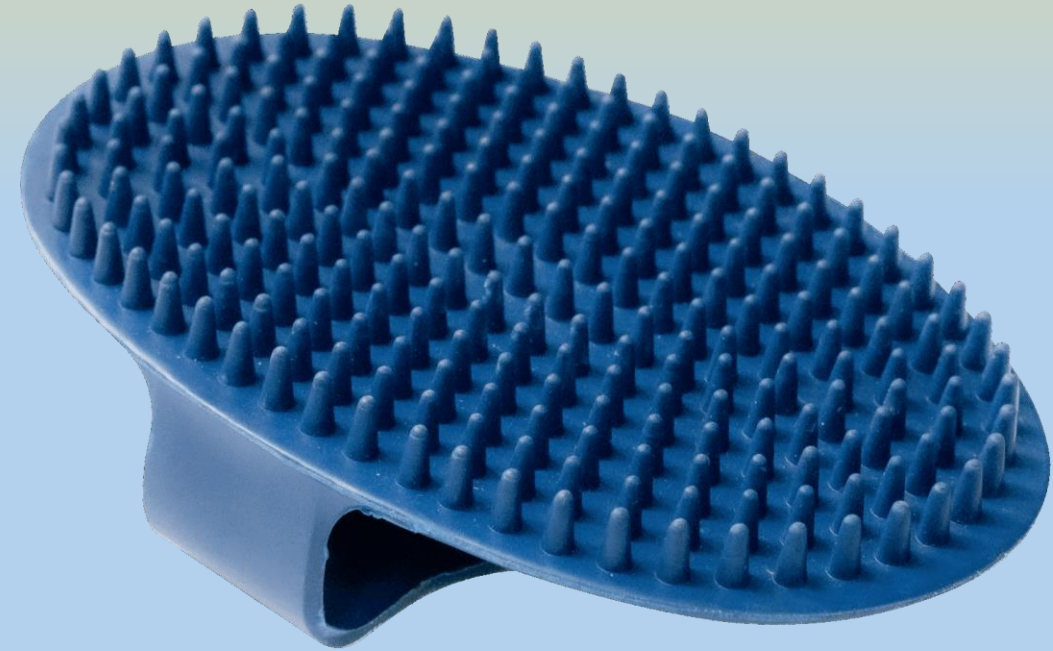
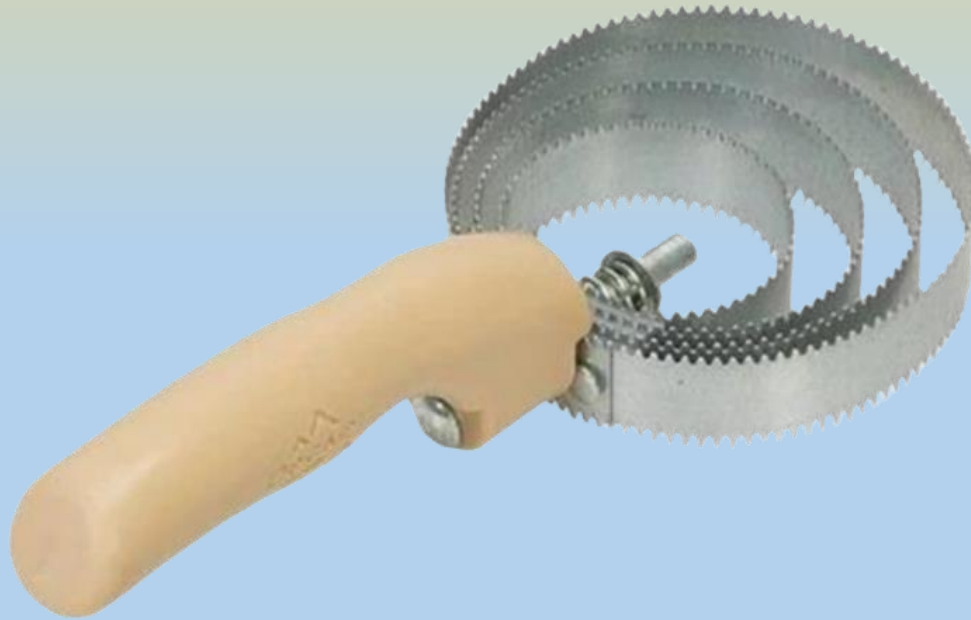
142. Coping saw - Cutting curves and irregular cuts



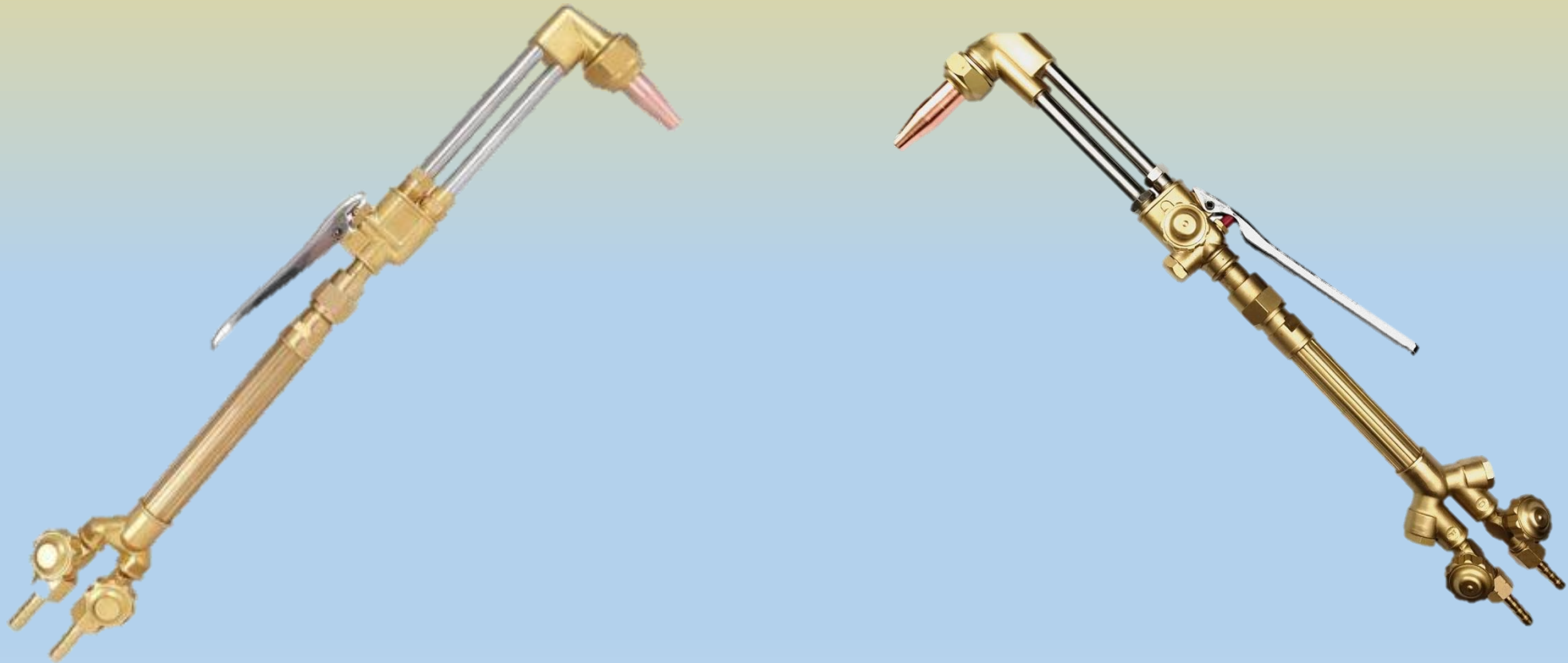
143. Countersink - Flaring top of hole for recessing head for flathead screw or bolt



144. Curry comb – Removing mud, dirt, and hair from animals' coats



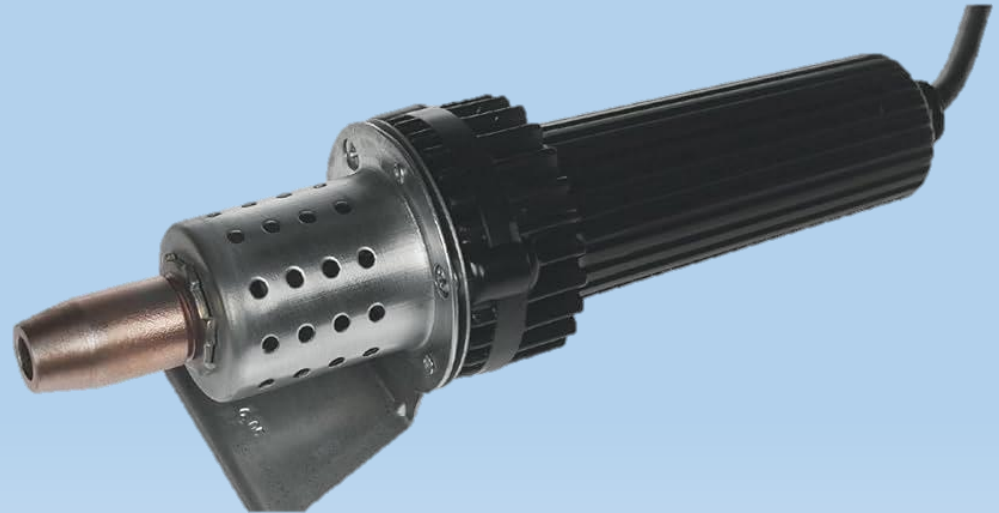
145. Cutting torch - Cutting metal with heat



146. Deep socket - Turning nuts and bolts in depressed areas



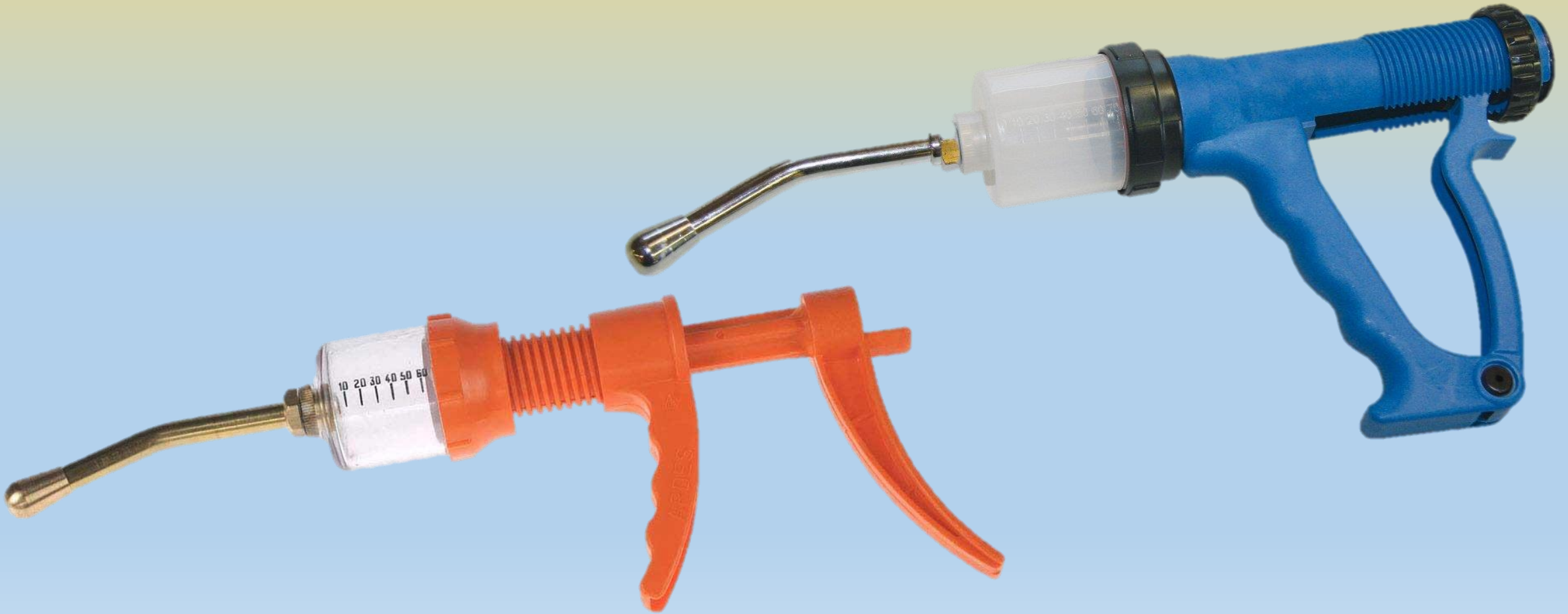
147. Dehorner - Removing horns from cattle



148. Diagonal cutting pliers - Surface and diagonal wire cutting



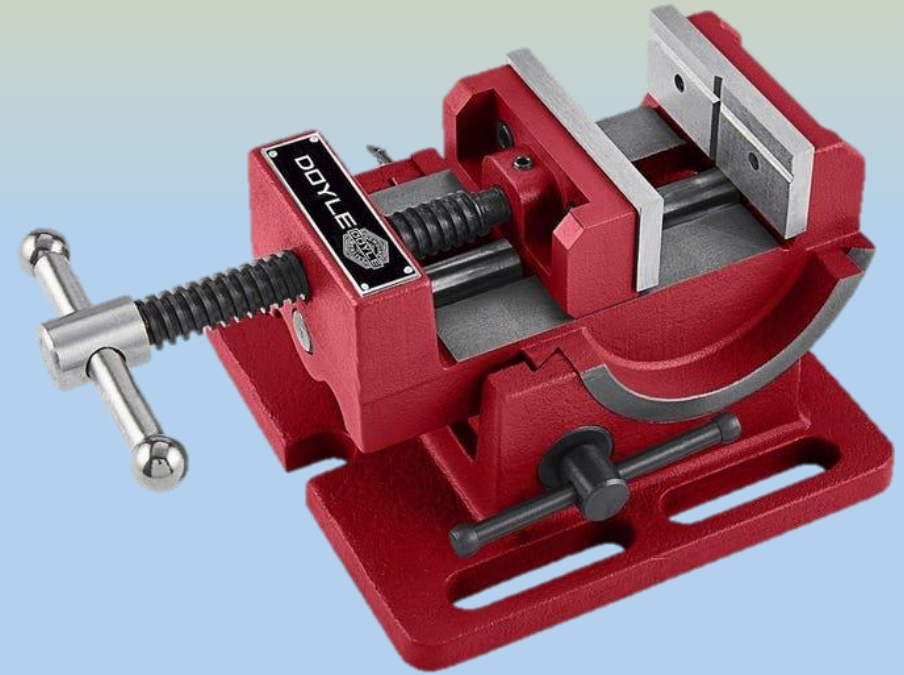
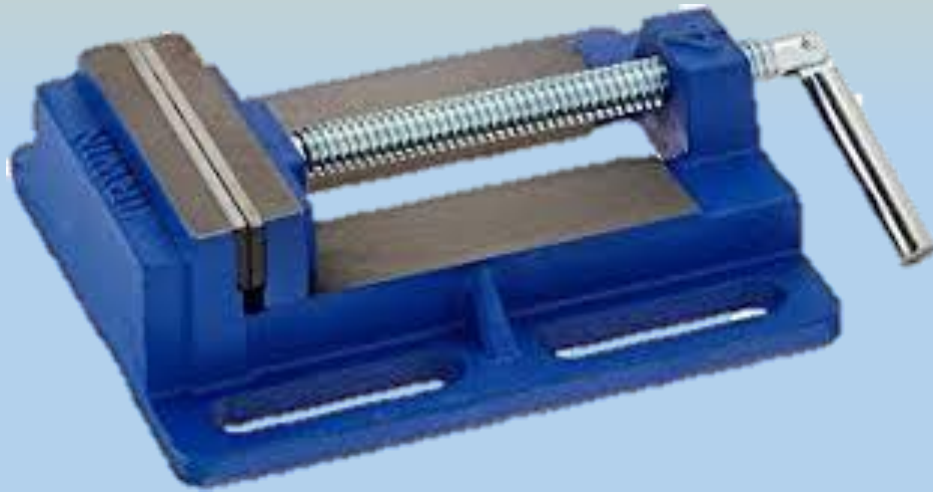
149. Drench gun – Administering precise amounts of liquid medications to animals



150. Drift punch - Aligning holes



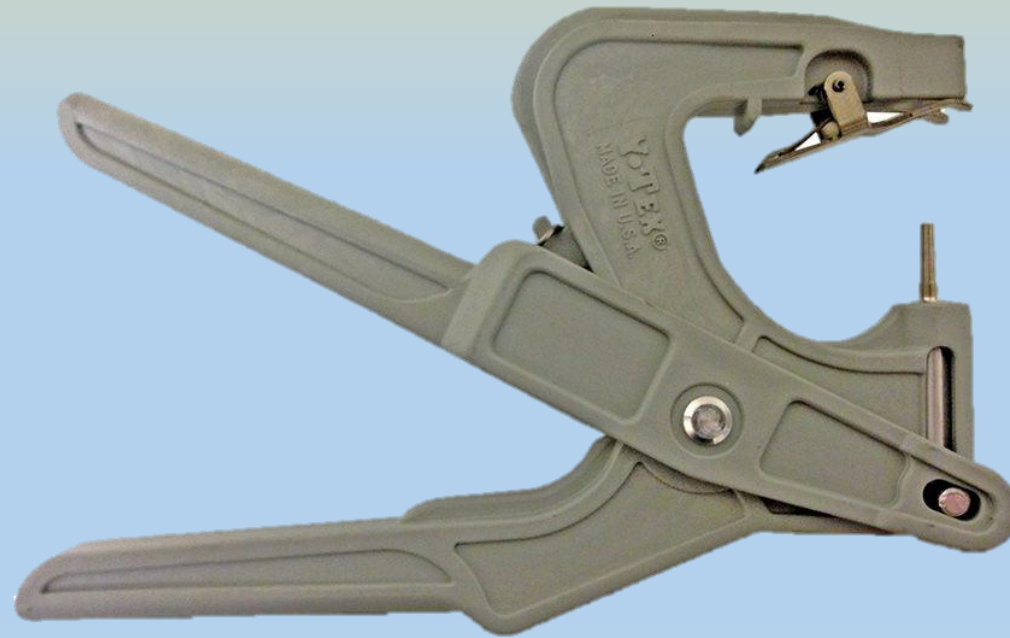
151. Drill press vise - Holding stock while drilling



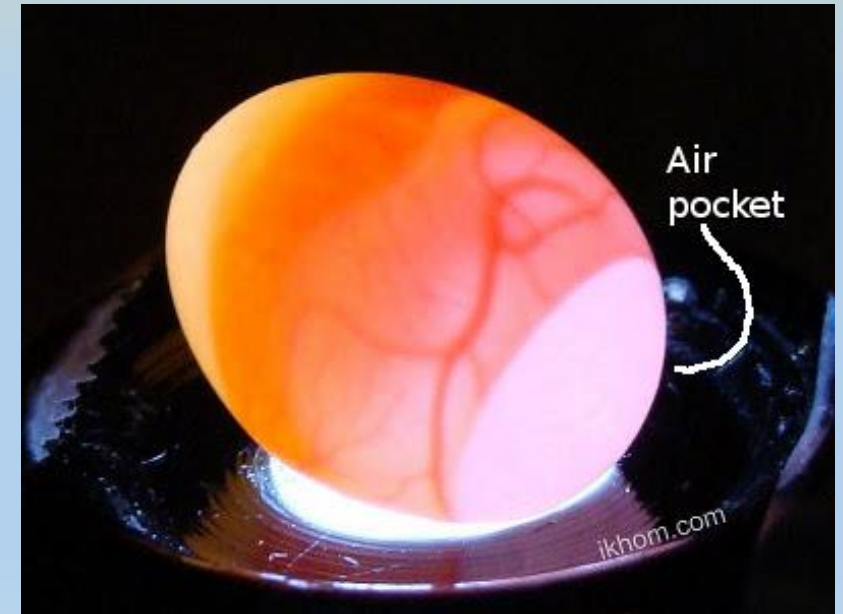
152. Duplex Receptacle - To plug in electrical units



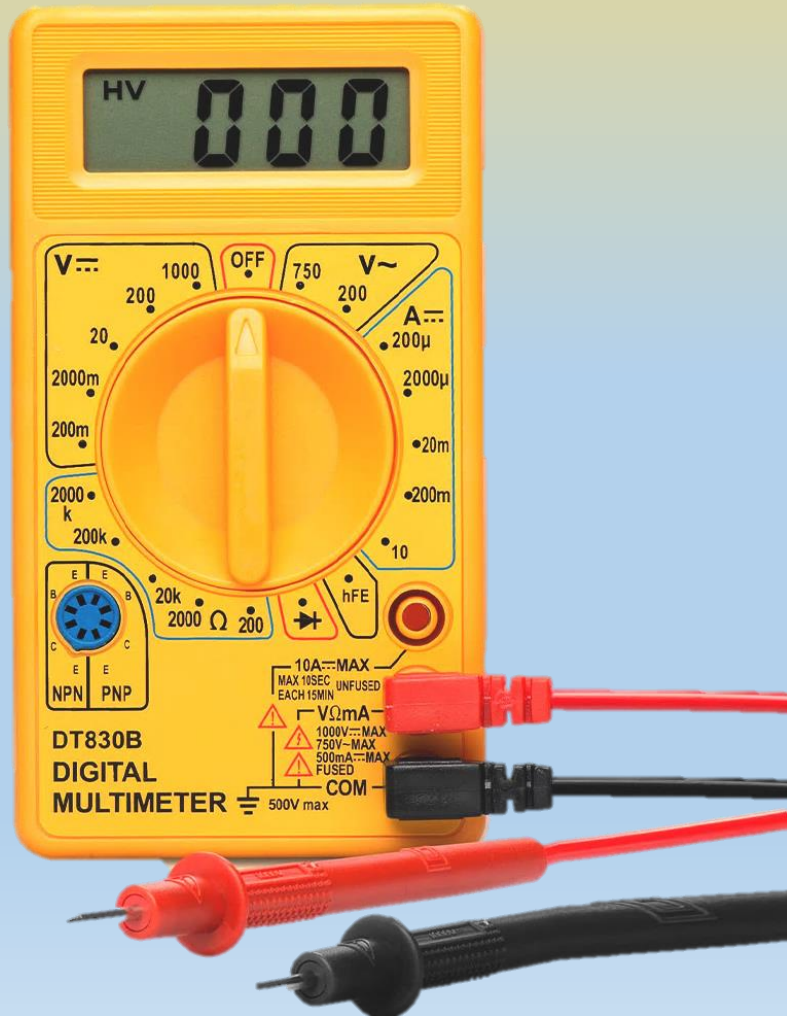
153. Ear tagger - Labeling individual animals for identification



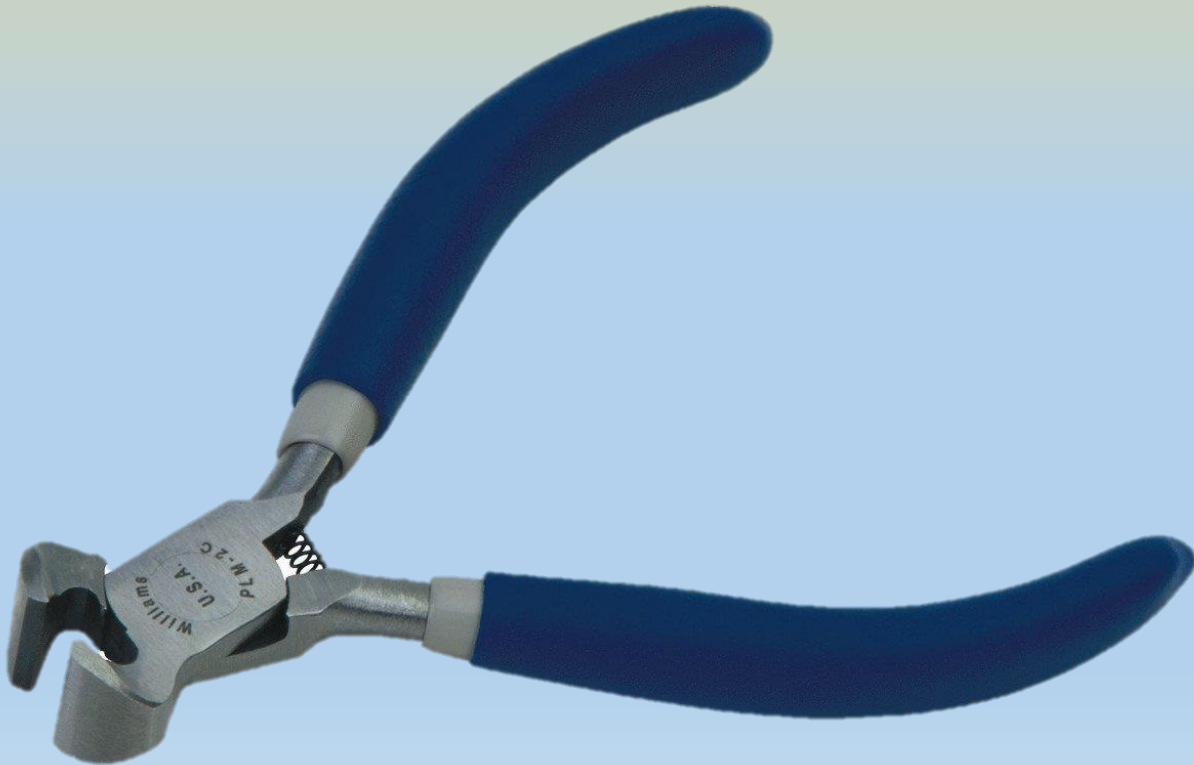
154. Egg Candler - Detecting embryonic development or for evaluating shell eggs



155. Electric multimeter - Performing various tests on electrical circuits



156. End cutting nippers - Cutting ends of wire, nails and small bolts



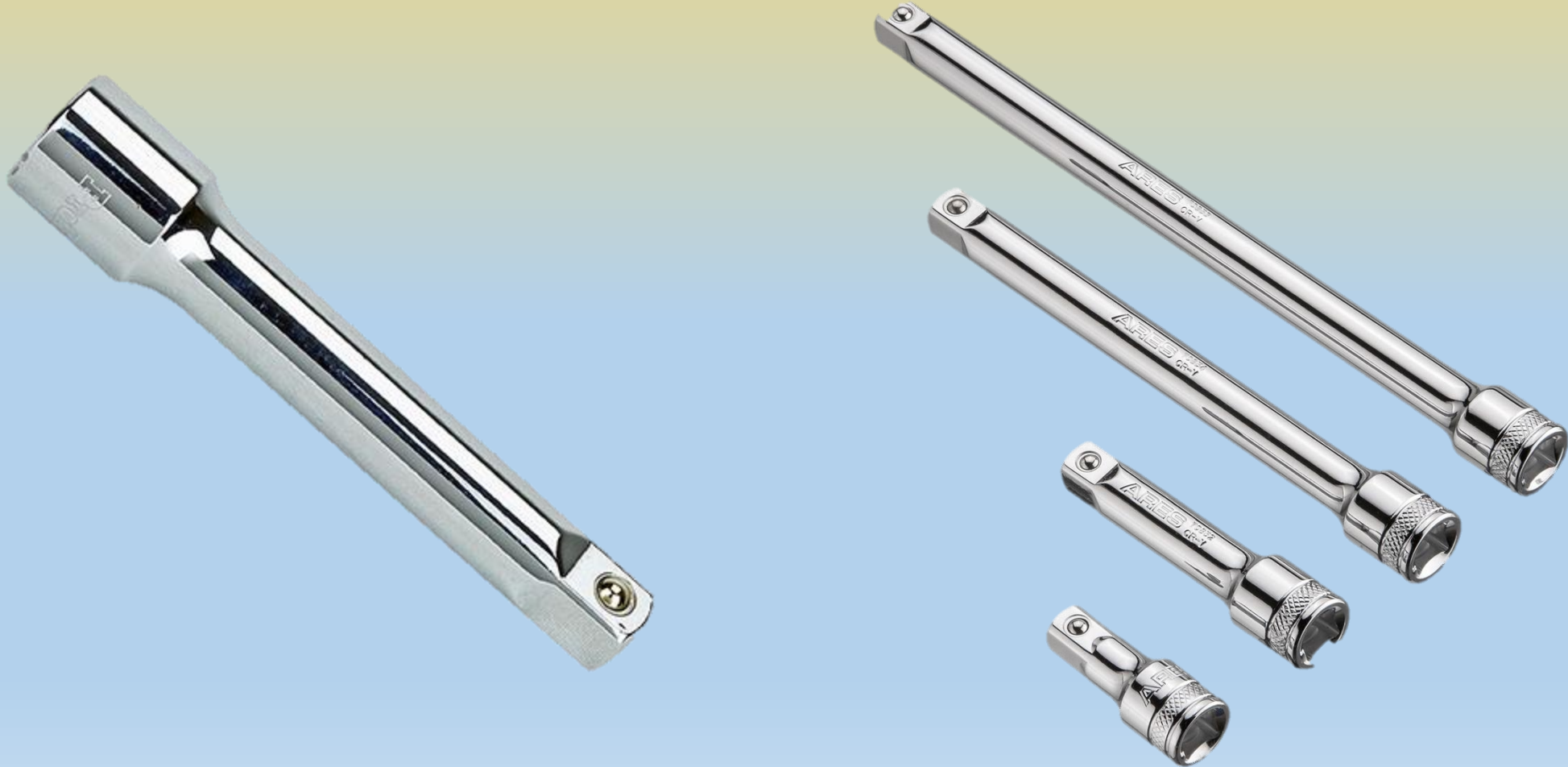
157. Engineers hammer – Pounding hot metal, breaking up concrete or demolition



158. Expansion shield - Anchoring a lag screw into concrete, brick or block



159. Extension – Extending the reach of a socket



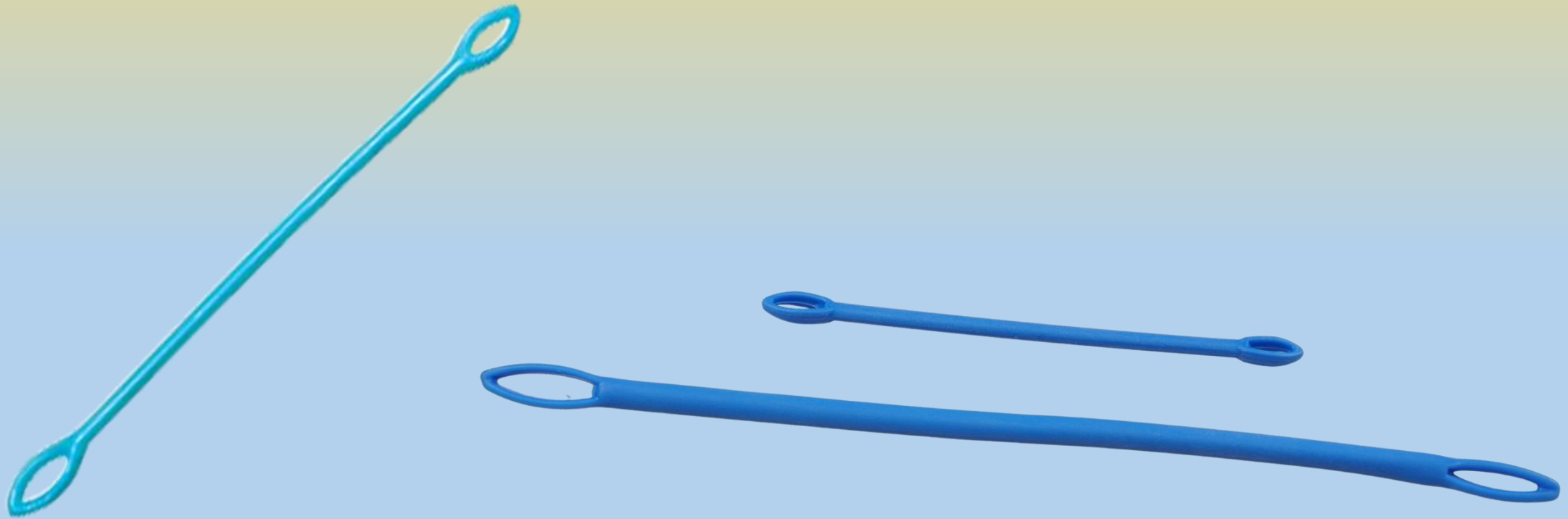
160. Eye bolt - Bolt used to attach wire onto



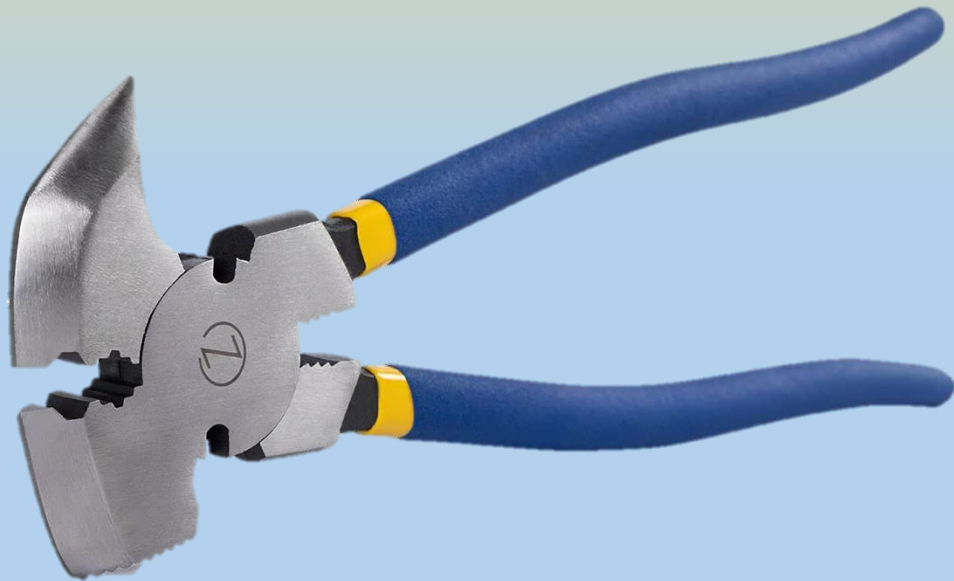
161. Face shield – Protecting face from flying debris while working



162. Fecal loop – To extract a stool sample from the rectum for analysis



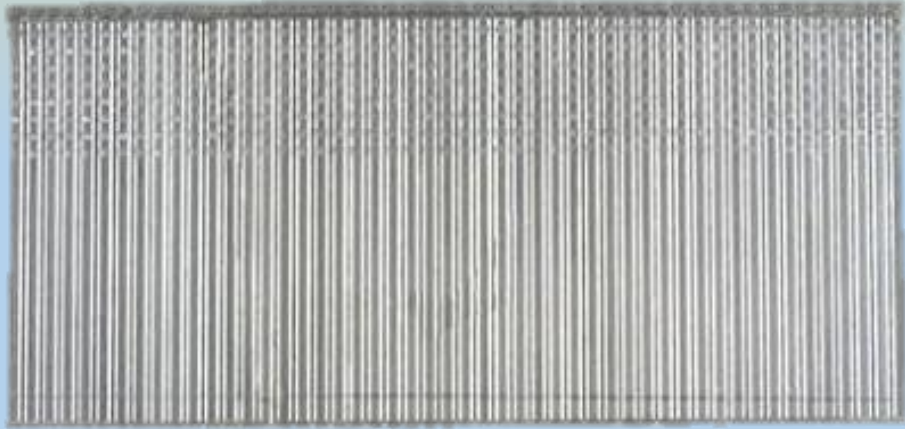
163. Fence pliers - Building and repairing wire fences



164. Fence staple – Nailing up fence



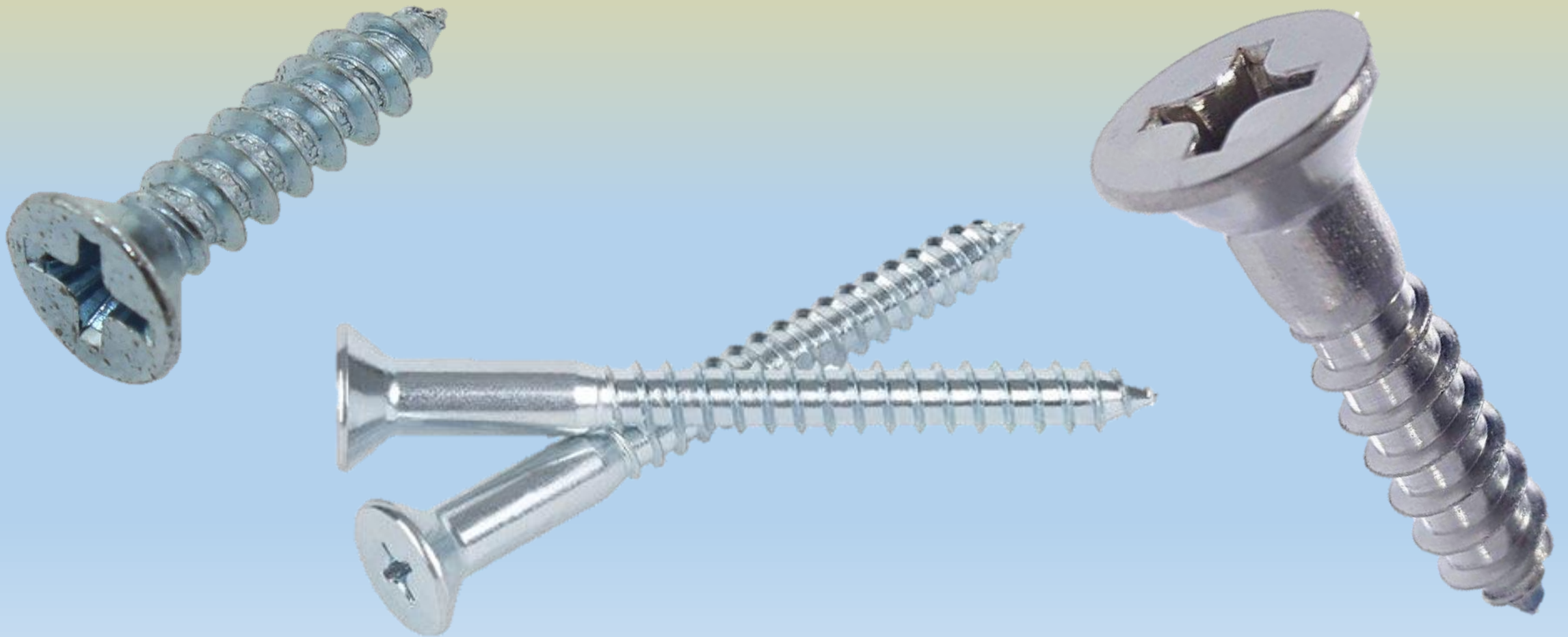
165. Finishing nail - Nailing boards where head will not be noticed



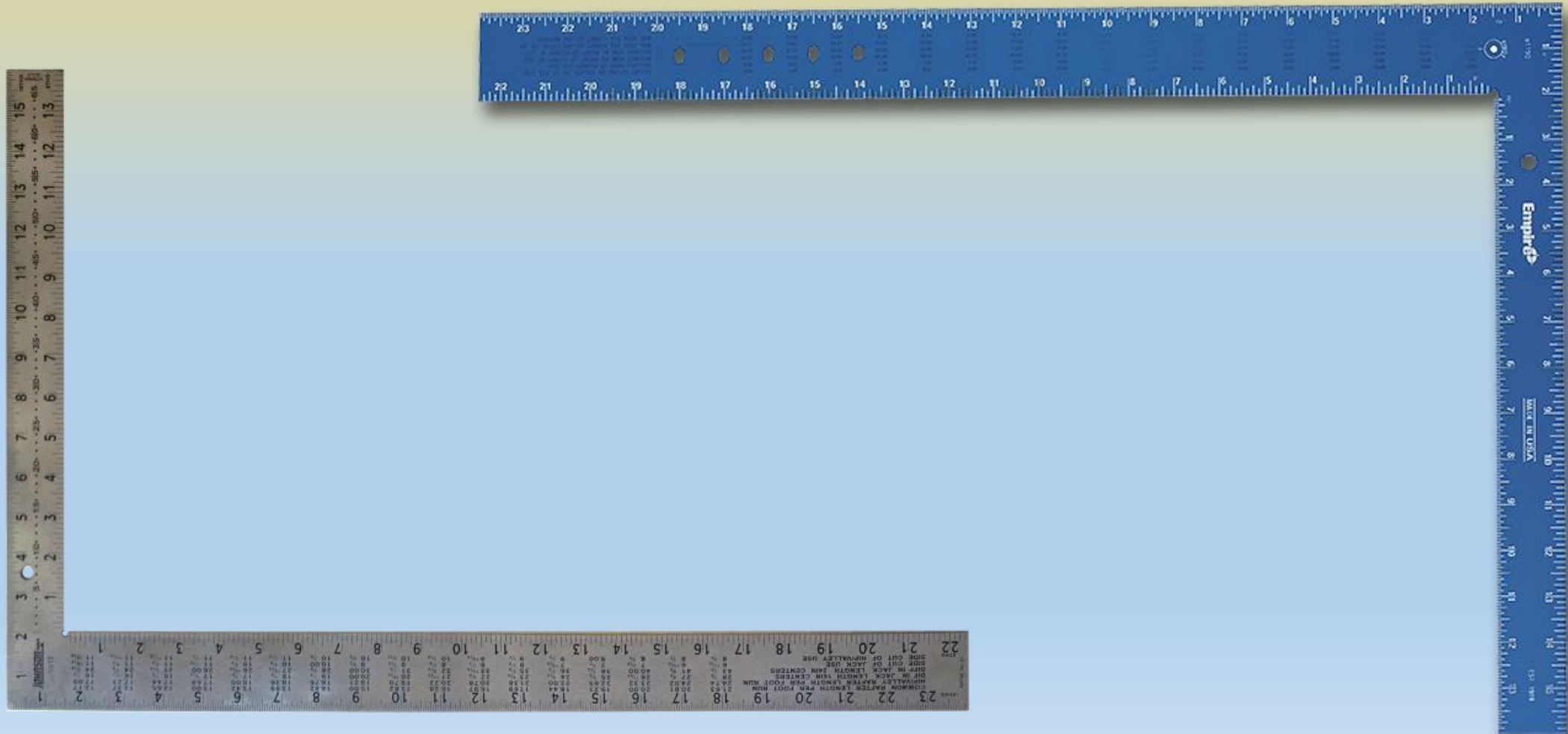
166. Flathead stove bolt - Fastening wood to metal or metal to metal with wrench leaving a flat surface



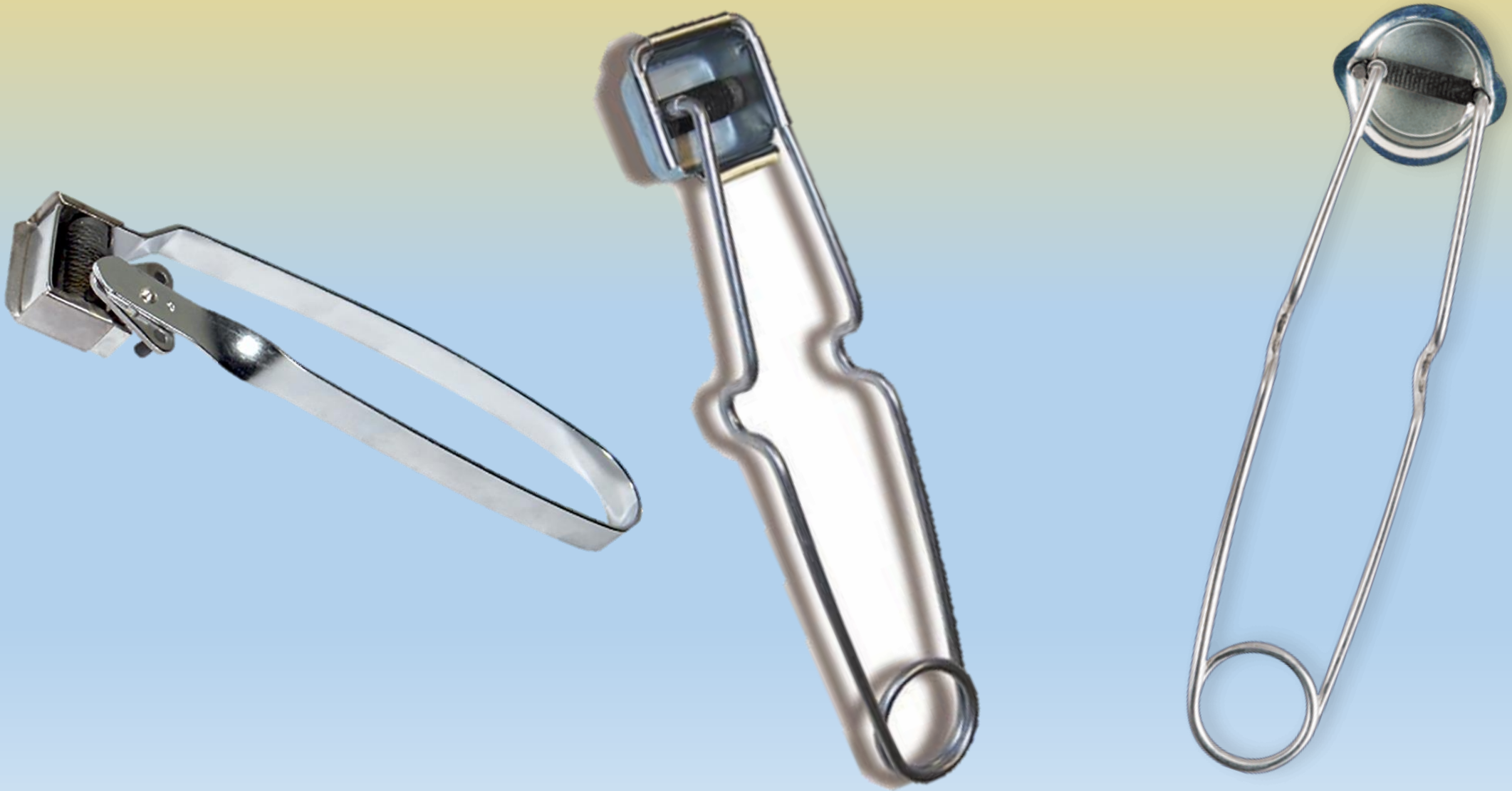
167. Flathead wood screw - Fastening wood to wood where a flat surface is required



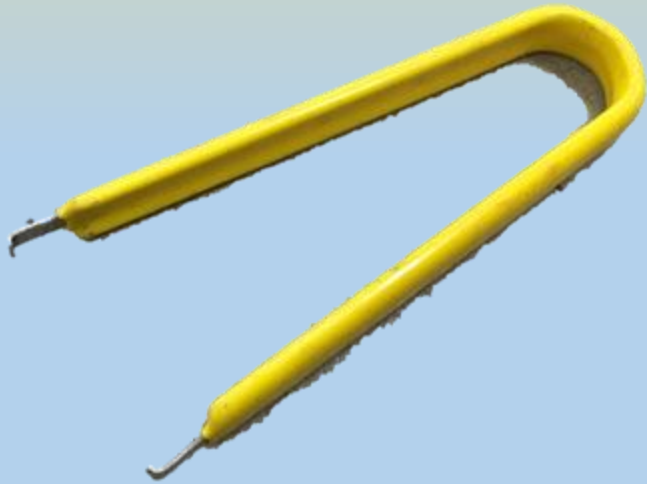
168. Framing square - Squaring cut corners and laying out stairs and rafters



169. Friction lighter - Lighting acetylene and propane torches



170. Fuse puller - Removing cartridge fuses



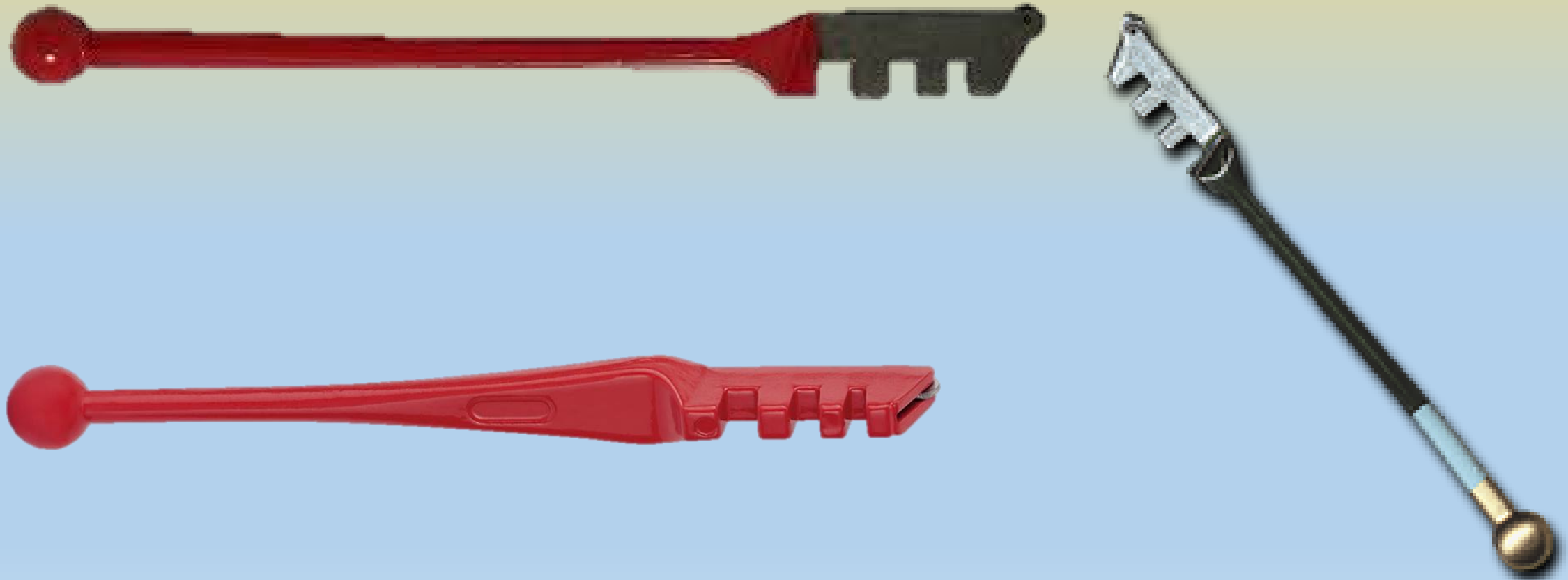
171. Garden trowel – Used for smaller garden chores like planting, weeding, and scooping soil or media



172. Gate valve - Cutting off water supply on a main line



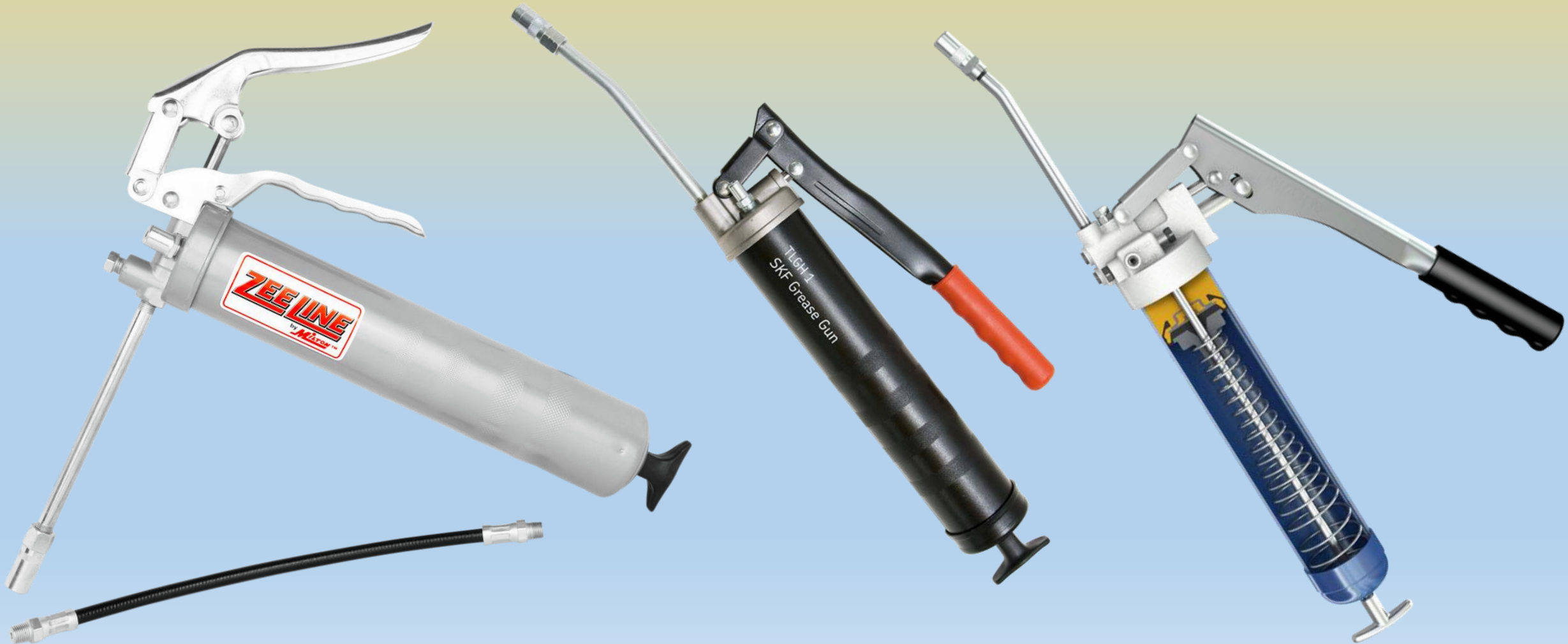
173. Glass cutter - Cutting glass



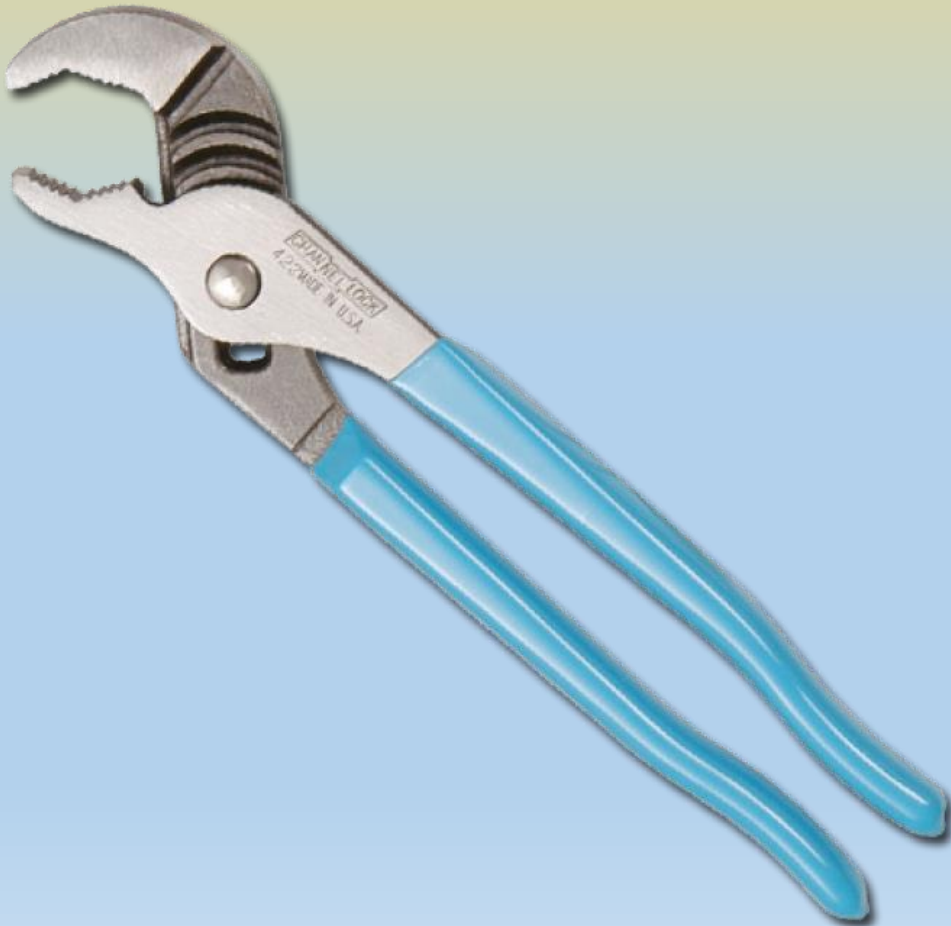
174. Grafting tool - Preparing woody parts for grafting



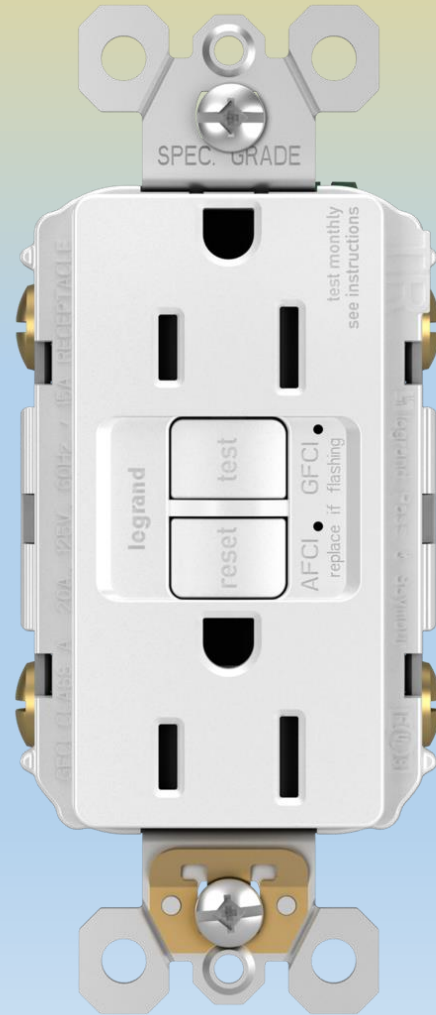
175. Grease gun - Lubricating through grease fitting



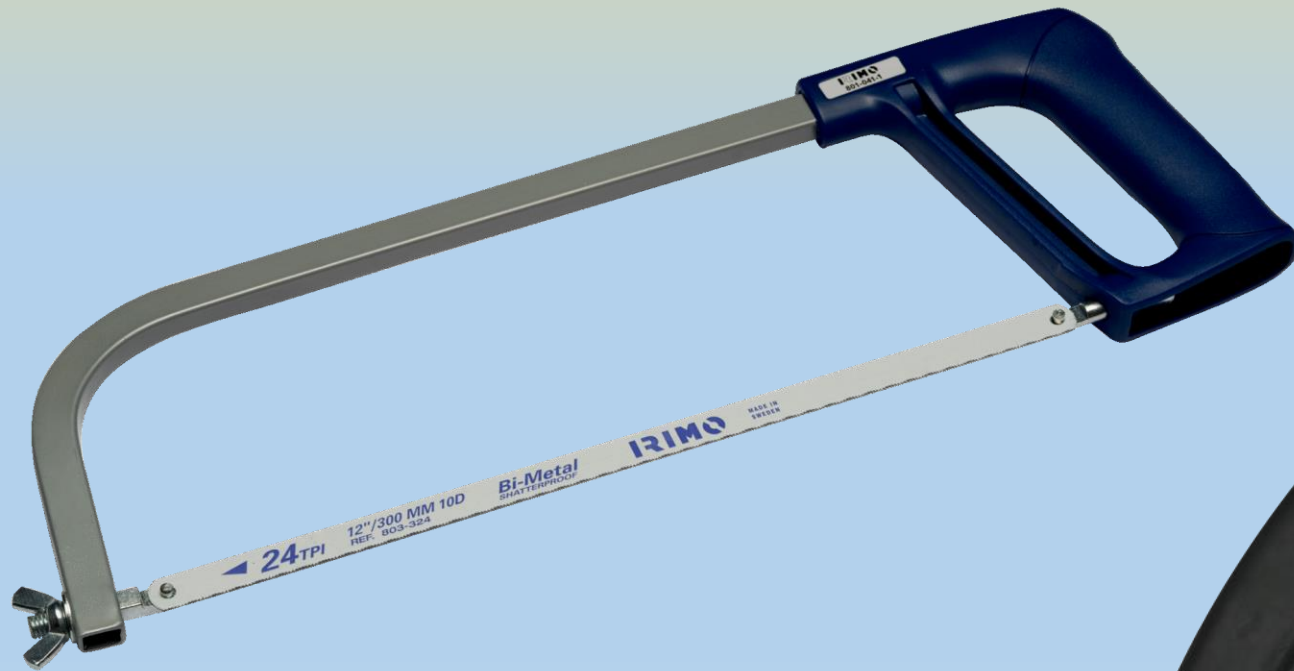
176. Groove joint pliers - Gripping when greater pressure is needed



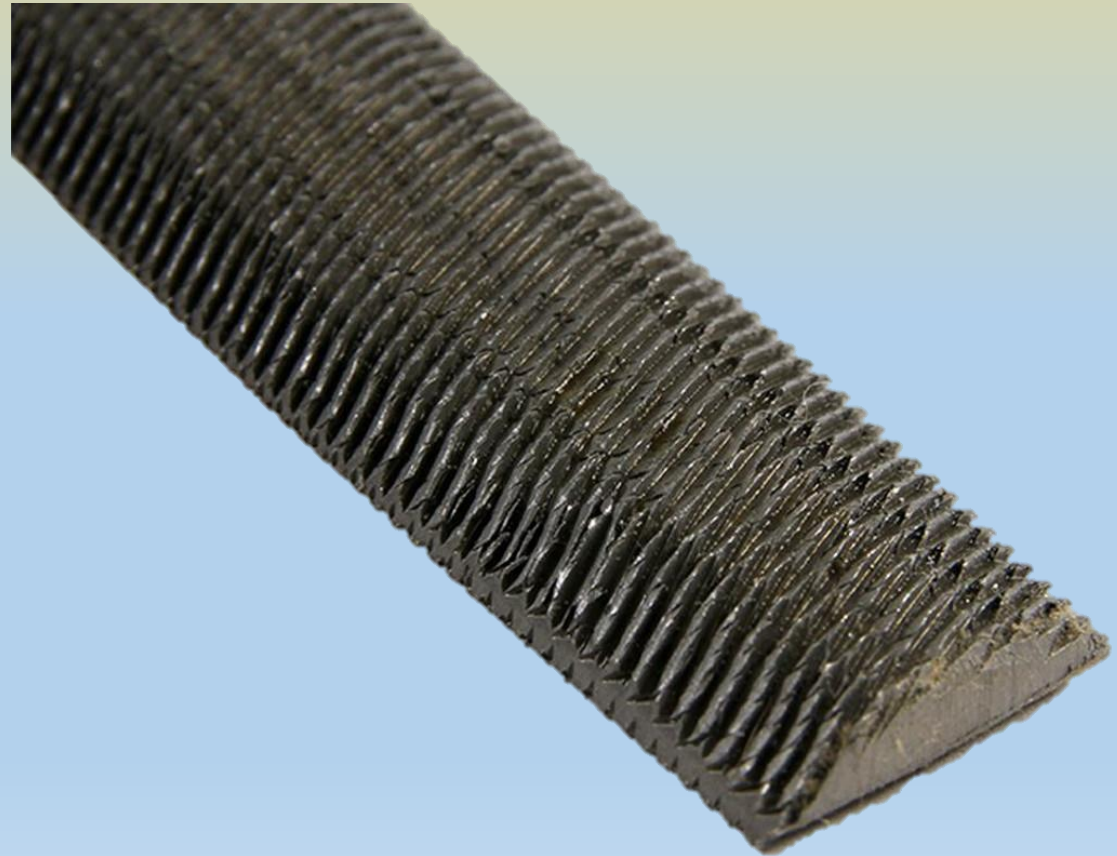
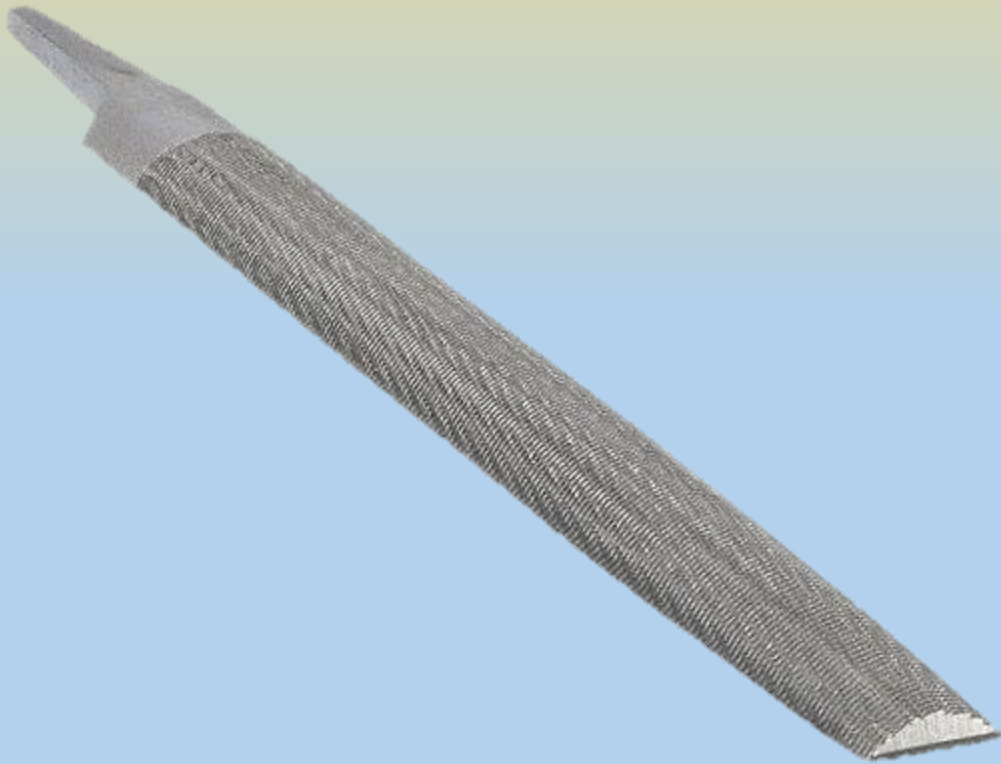
177. Ground fault circuit interrupter (GFCI) - Shutting off power when current flows along an unintended path



178. Hack saw - Sawing metal



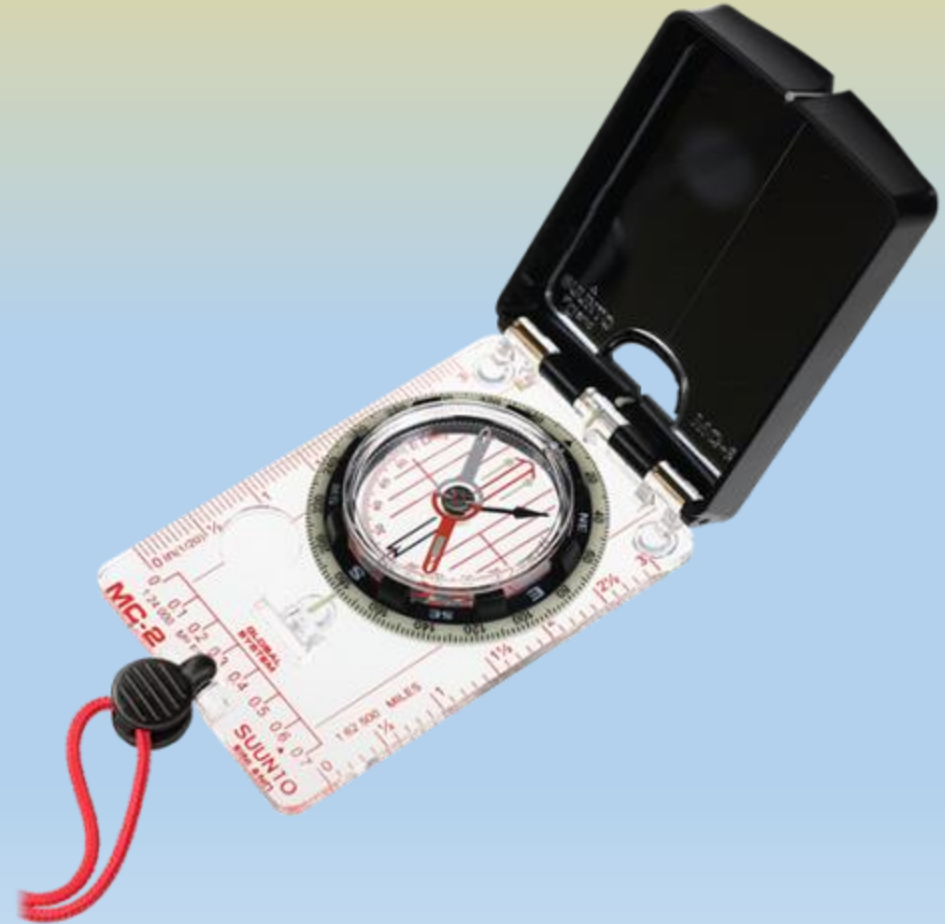
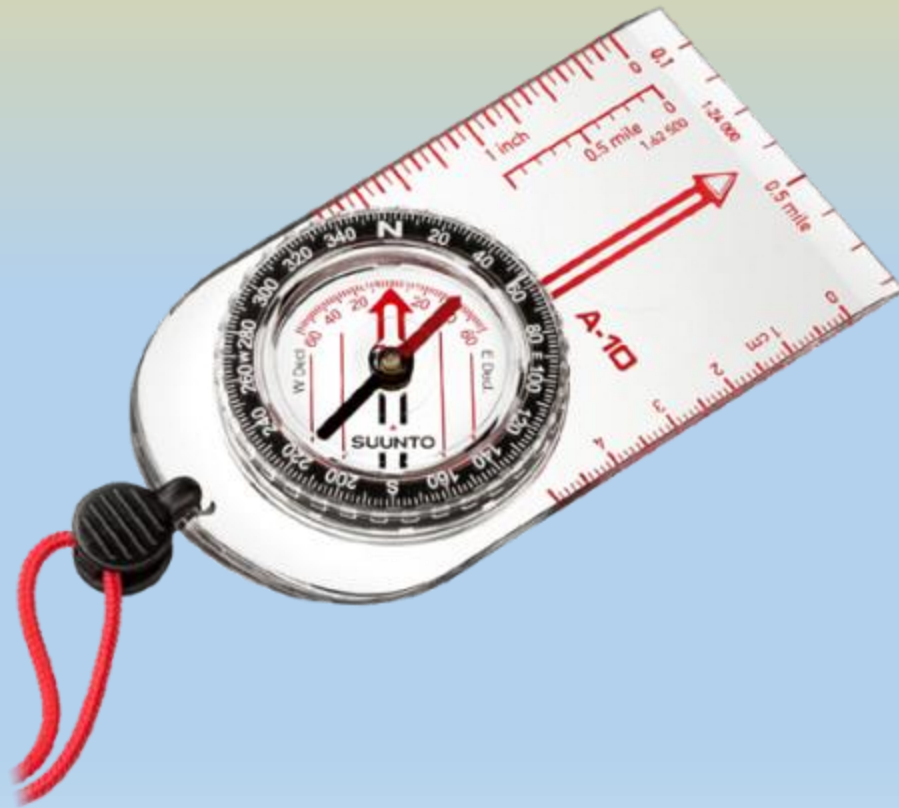
179. Half round file - Curved and flat filing



180. Hammer drill – Power drilling in concrete, brick or block



181. Hand compass – An instrument that indicates magnetic north



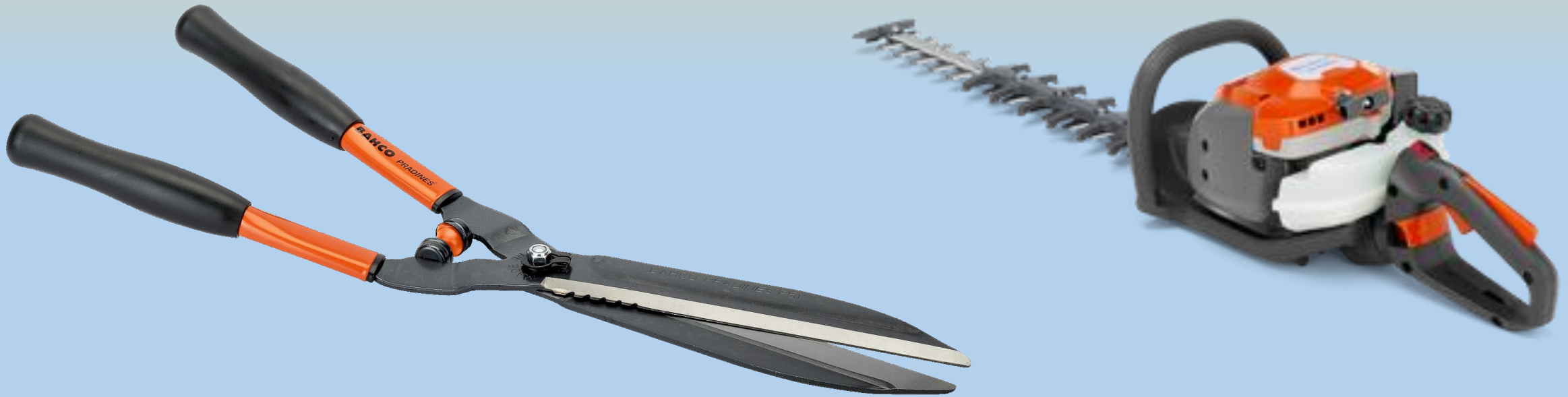
182. Hand hoe – Used to till soil



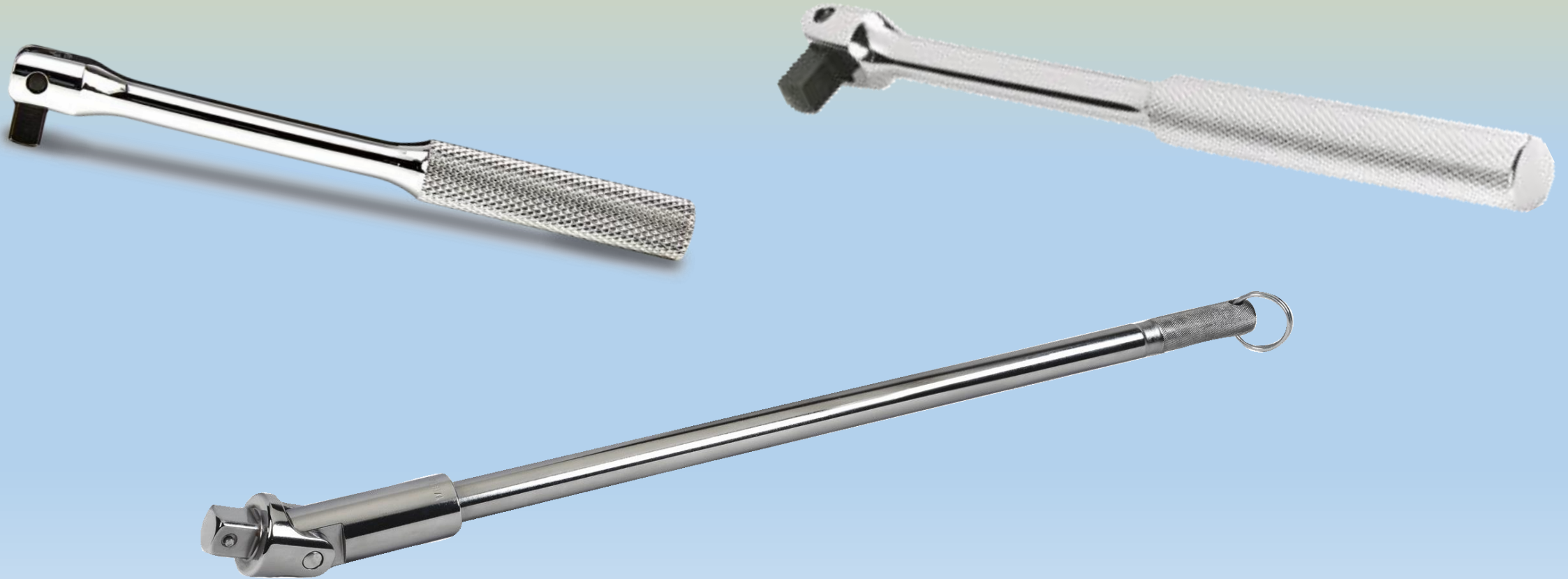
183. Hearing protection – Decreasing hearing exposure to high decibel levels



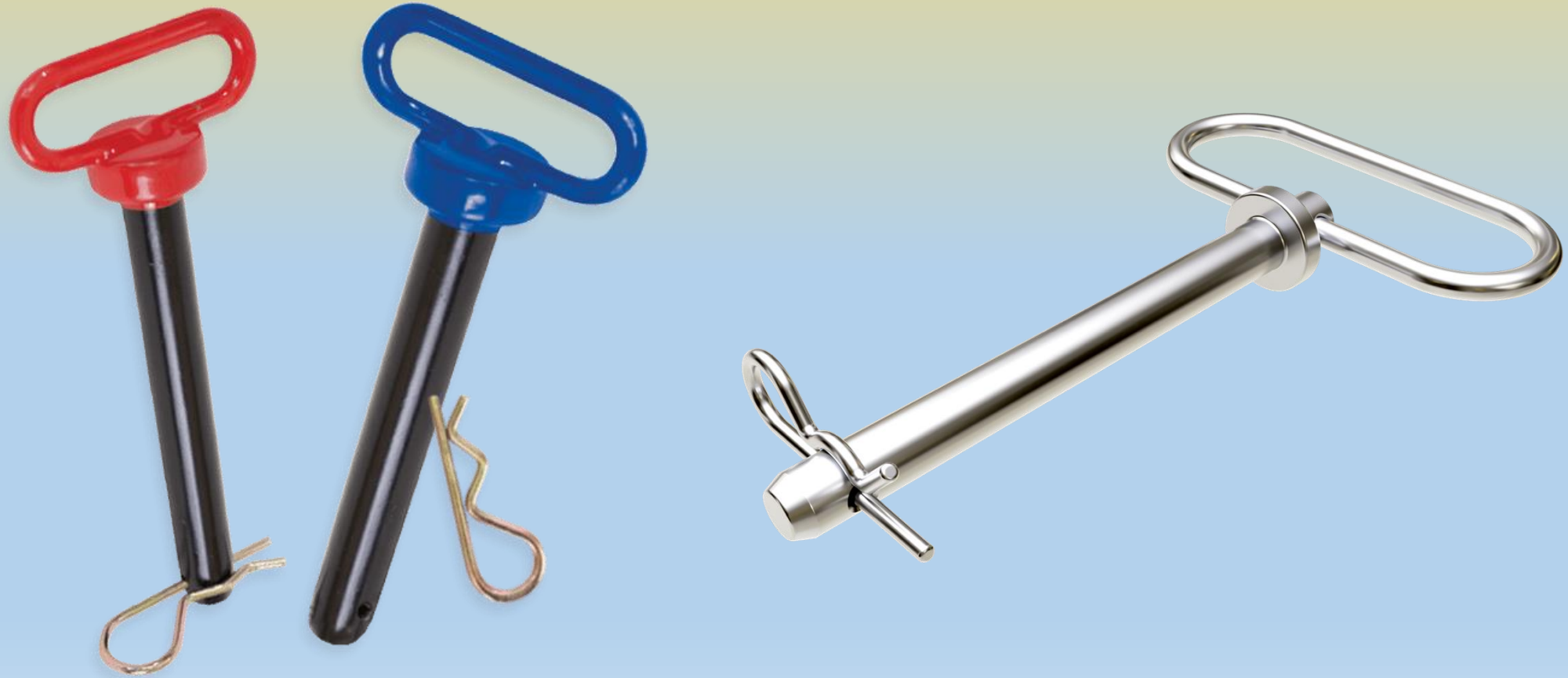
184. Hedge shears - Trimming and shaping hedges



185. Hinge handle / Flex handle - Socket handle to be used when flexibility is needed



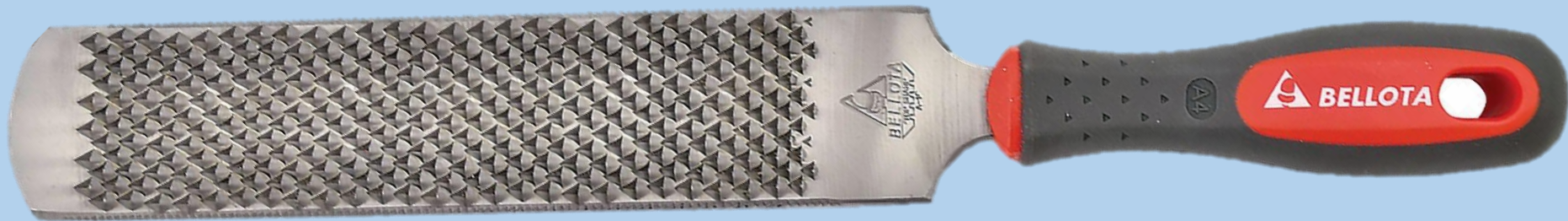
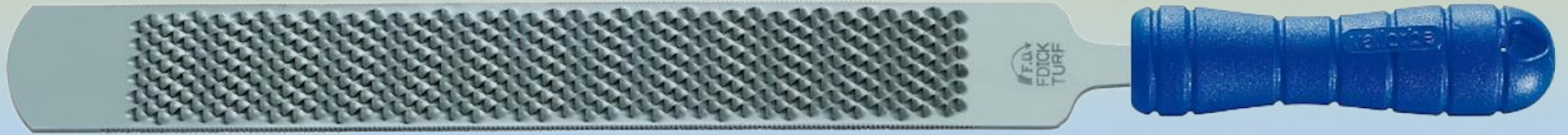
186. Hitch pin – A fastener used to connect a drawn (pulled) implement to a tractor



187. Hoof knife - Removing hard and uneven surfaces on an untrimmed hoof



188. Hoof rasp – Coarse file used to trim and shape the hooves of animals



189. Hose bib - Valve for attaching a water hose; turning water supply on and off



190. Impact driver – Uses a combination of rotational and concussive force to drive fasteners into various materials and uses a quick-change clamp



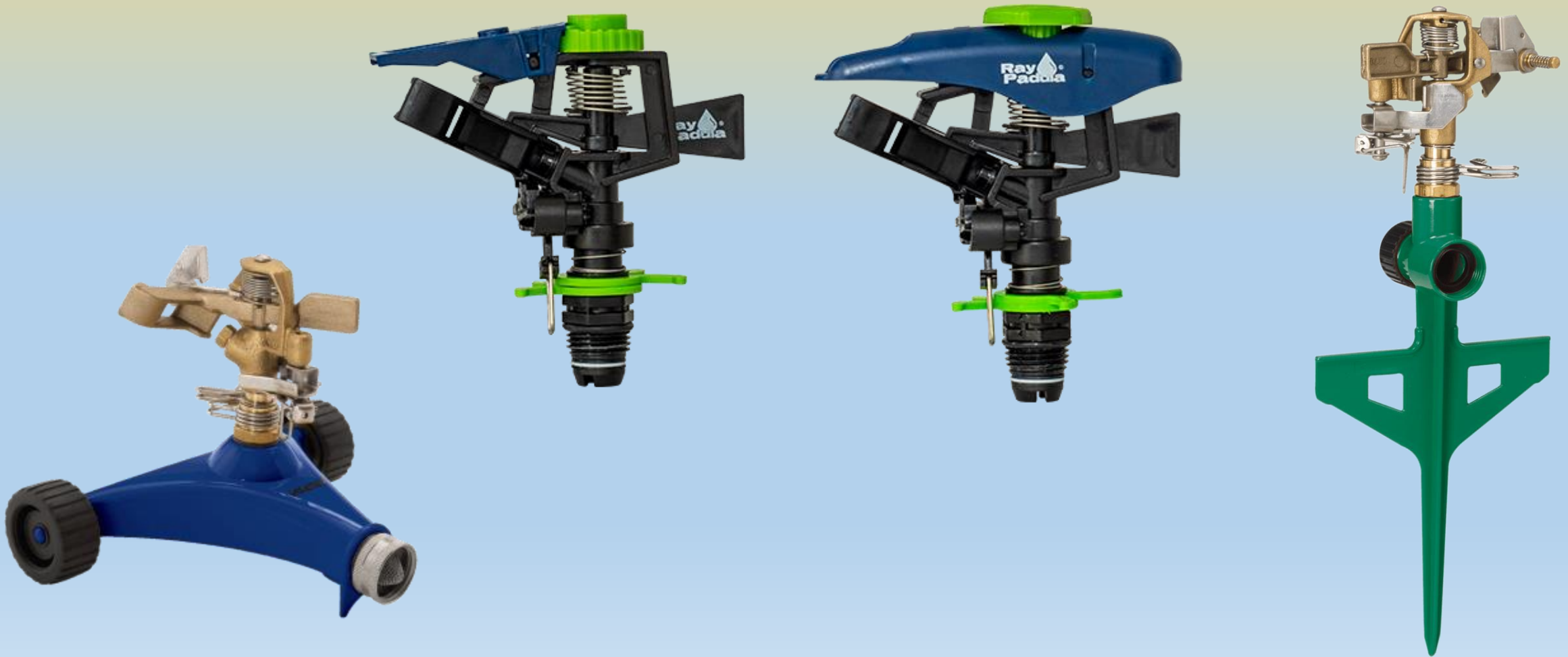
191. Impact wrench – Installing or removing fasteners, lug nuts or lag screws



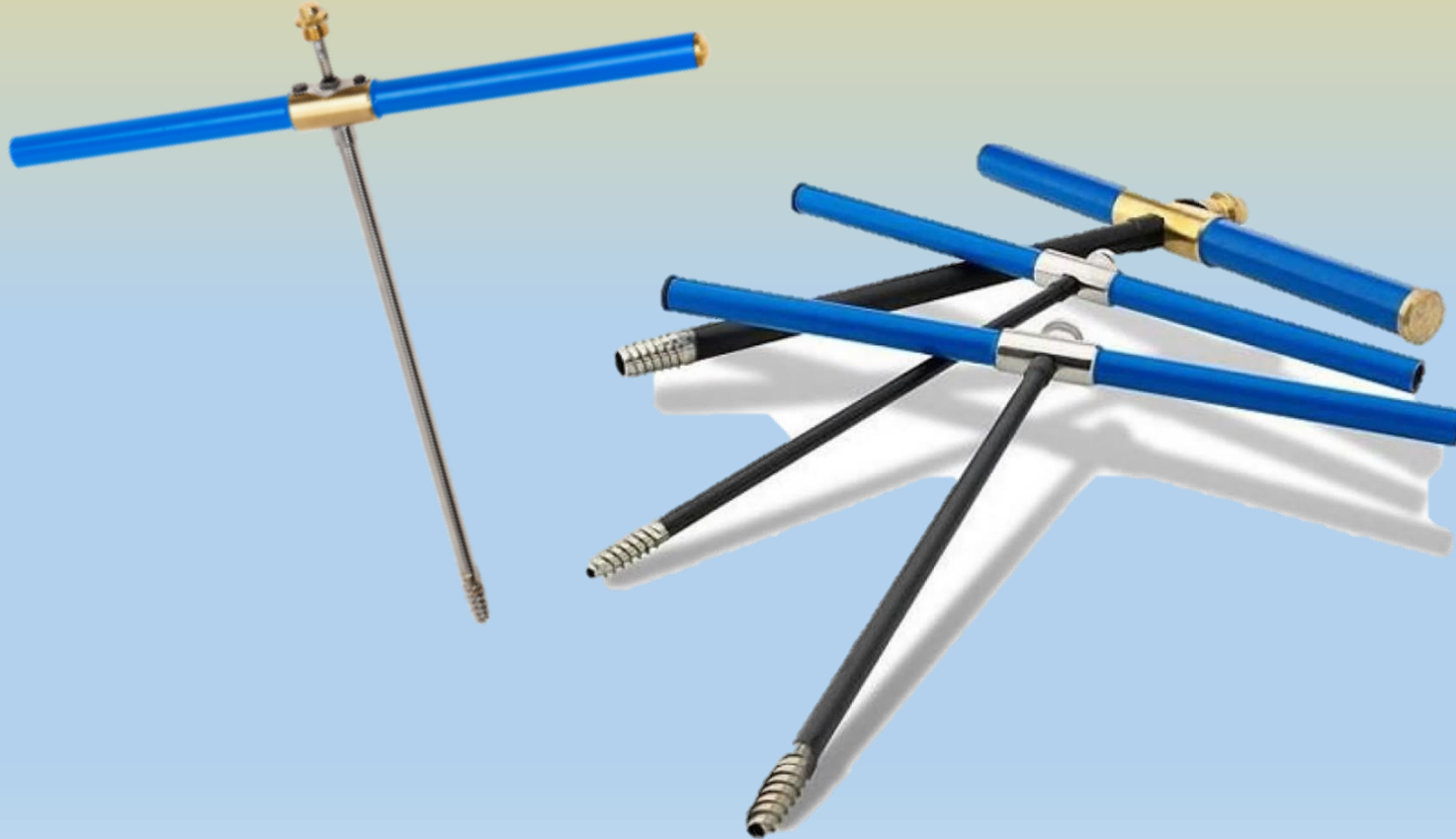
192. Implant gun - Injecting growth hormones in animals



193. Impulse sprinkler - Overhead irrigation of plants where rotation is water driven



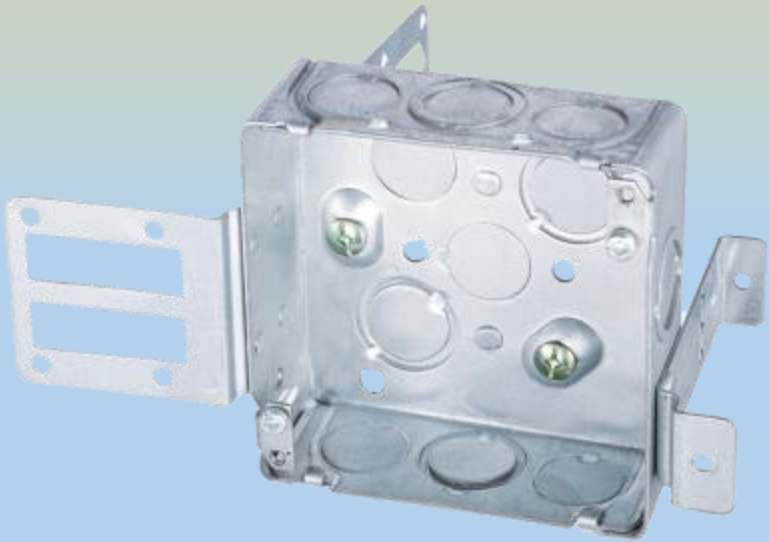
194. Increment borer - Checking growth rate of trees



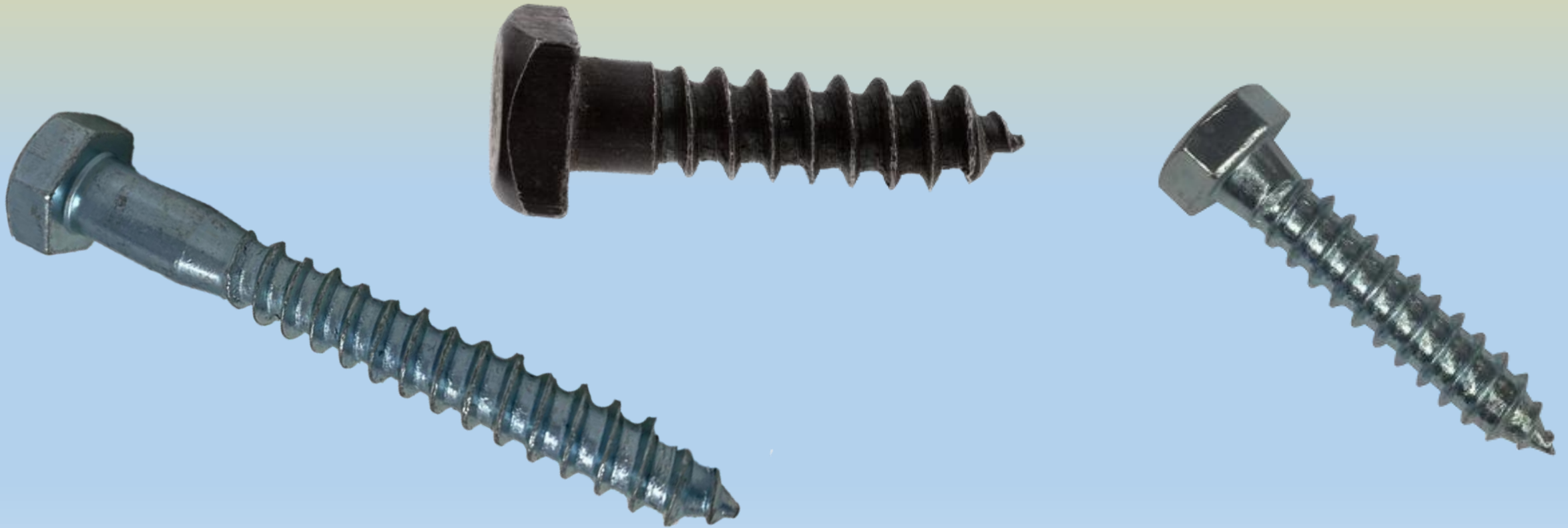
195. Jig saw - Making irregular cuts



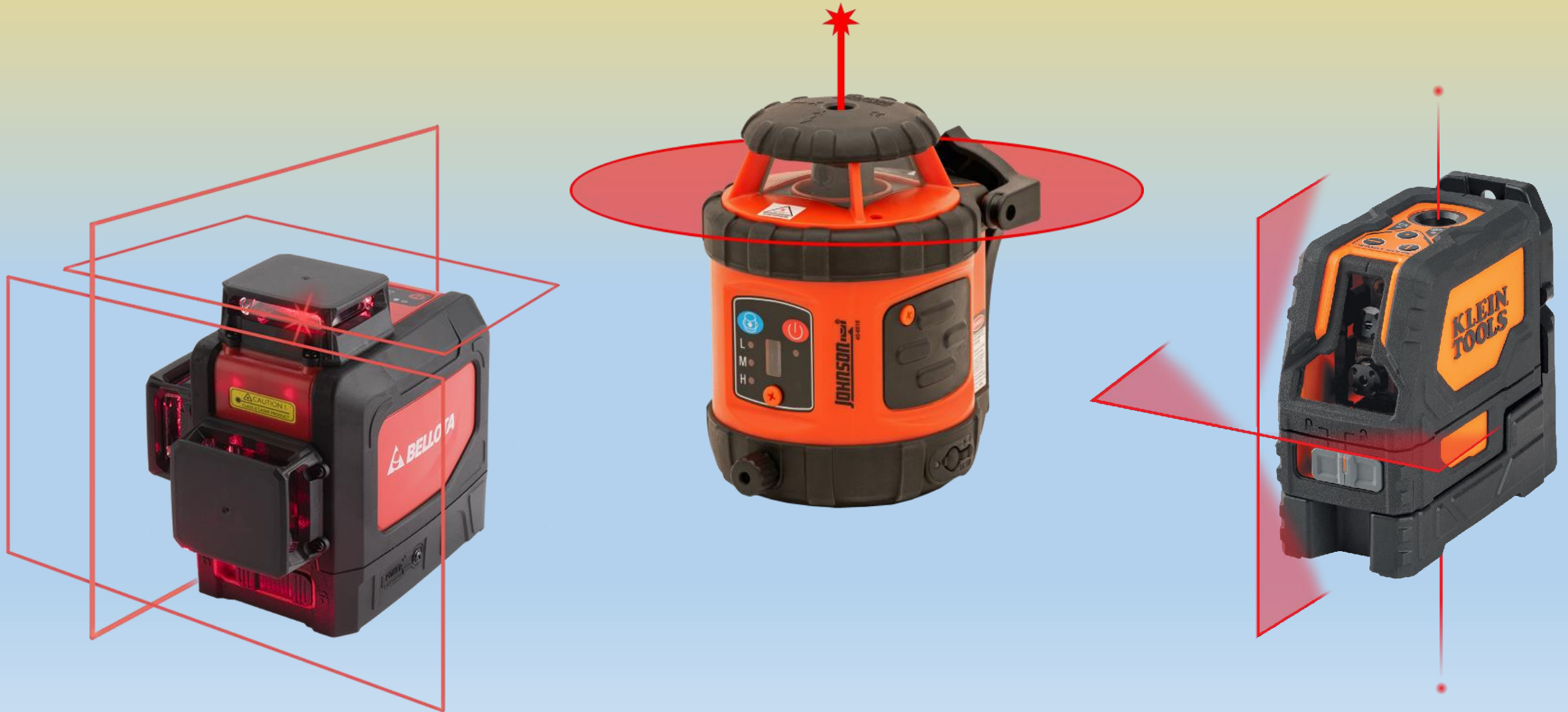
196. Junction box – Joining several electrical wires into a circuit



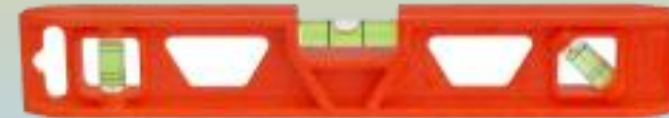
197. Lag screw - Screw used where great pressure to turn is required



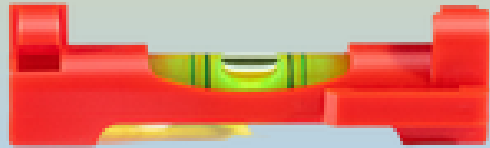
198. Laser level – Projecting a line vertically and/or horizontally to serve as a visual guide



199. Level - Leveling and plumbing



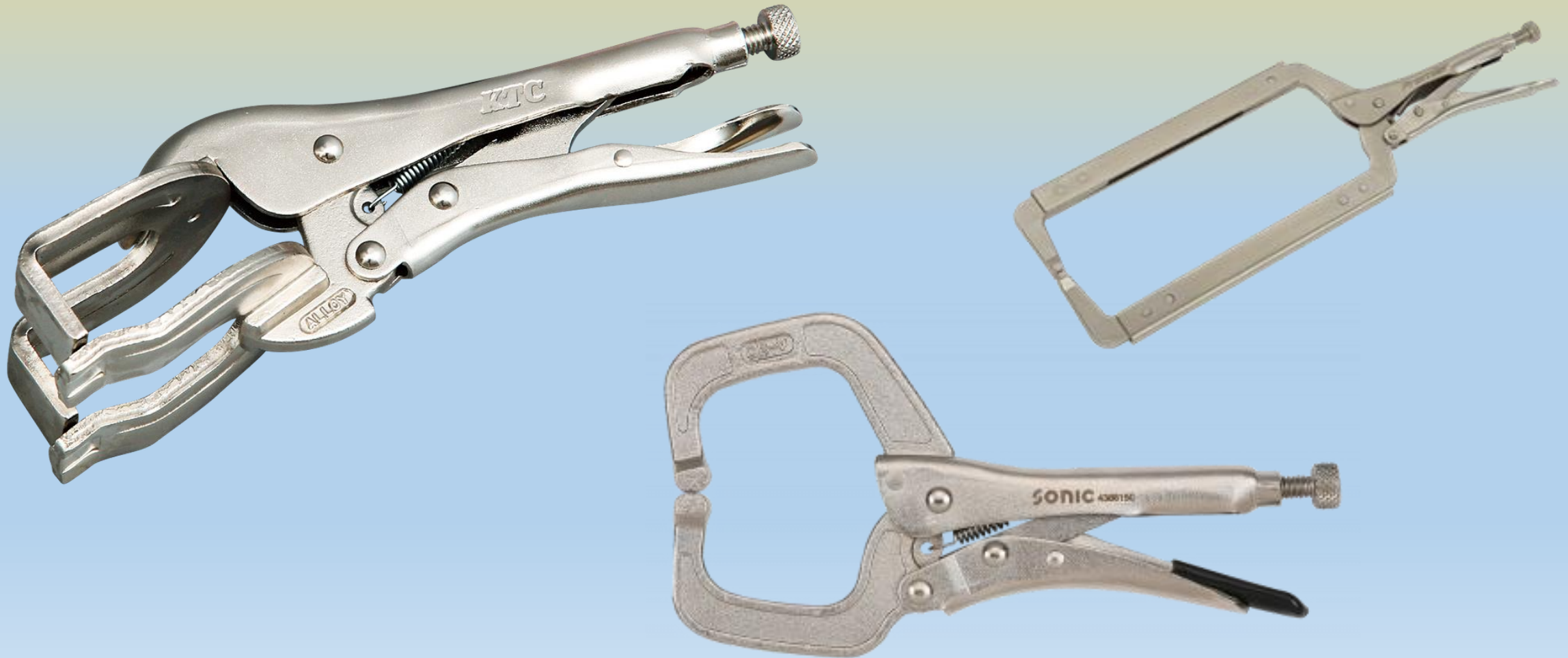
200. Line level - Leveling between long distance points



201. Locking pliers – Used for extra firm gripping



202. Locking welding clamp – Used for extra firm gripping of welding materials



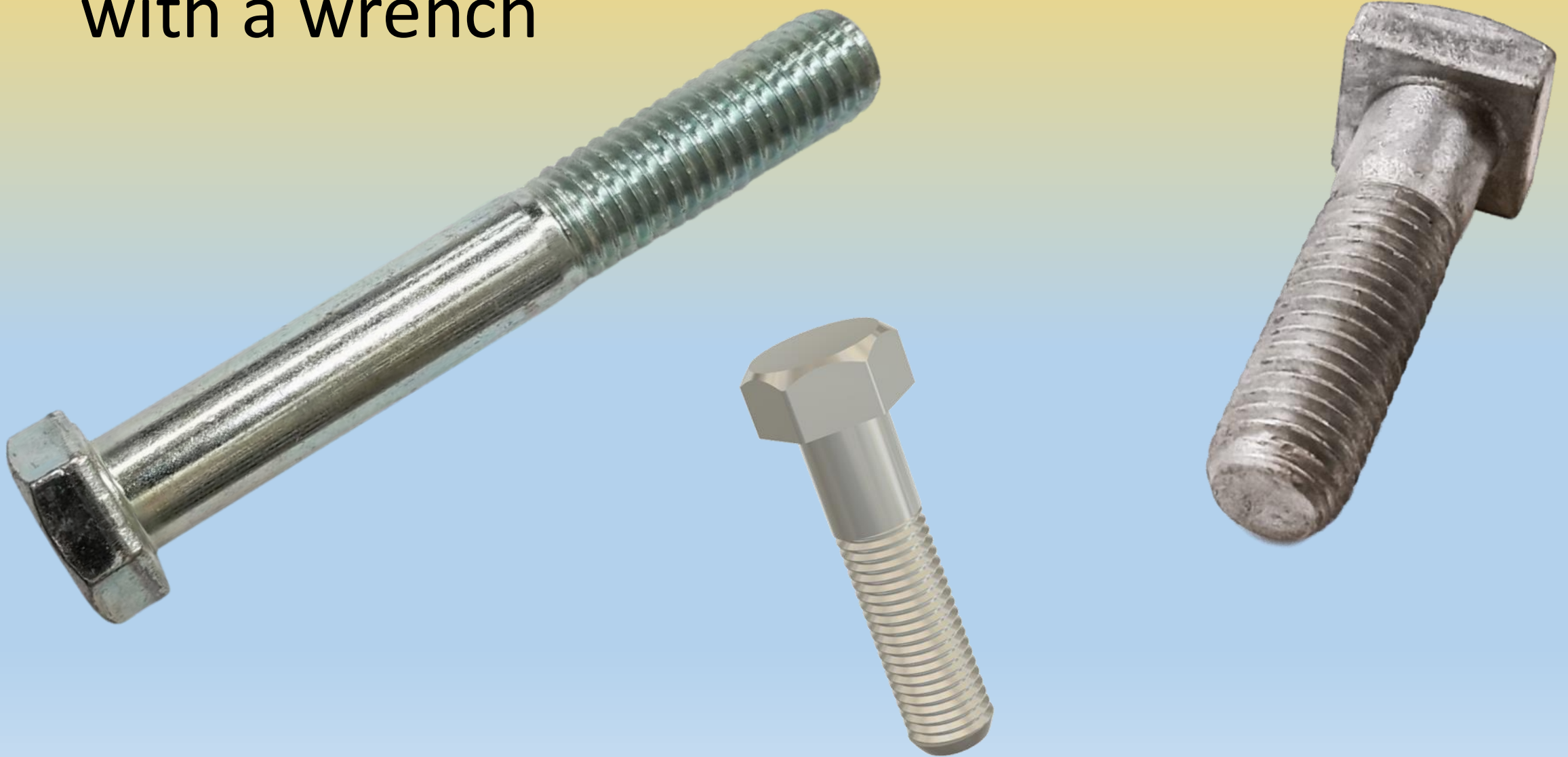
203. Long nose pliers - Reaching into recessed areas



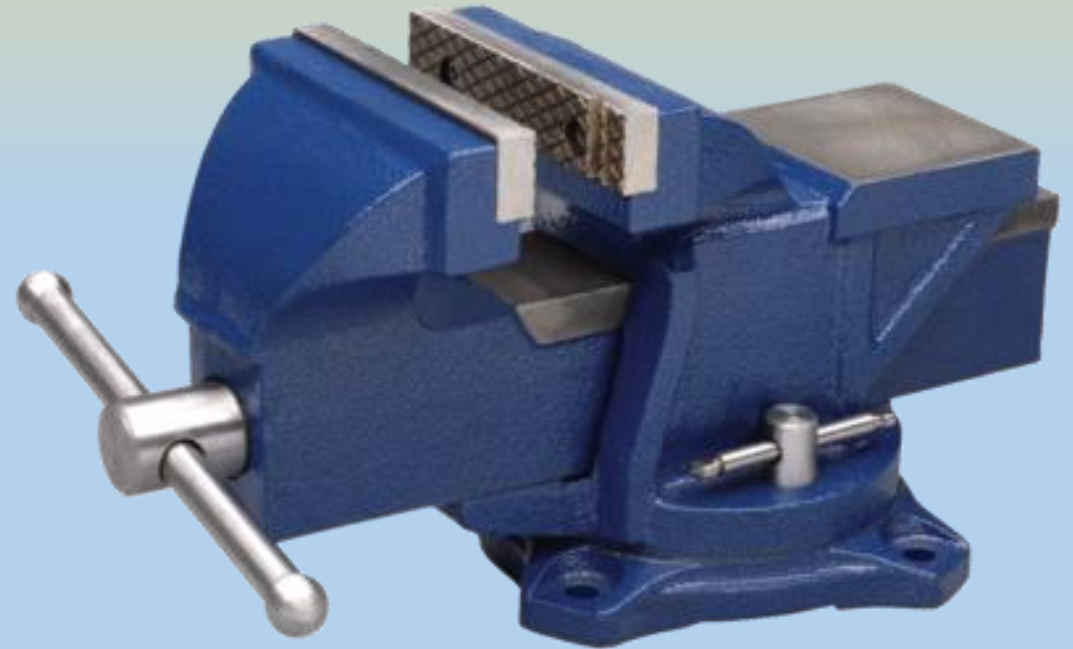
204. Lopping shears - Cutting large branches when pruning shrubbery



205. Machine bolt - Fastening metal to metal with a wrench



206. Machinist's vise - Holding metal firm while working



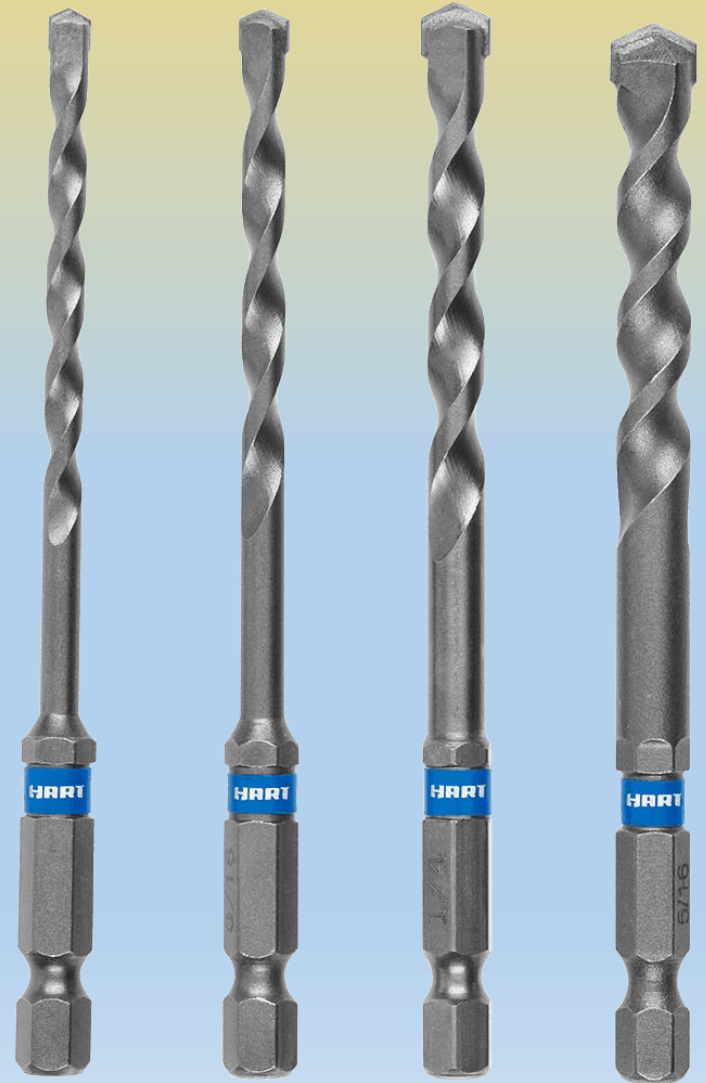
207. Mason Hammer - Chipping and shaping masonry material



208. Mason level - Leveling and plumbing masonry materials



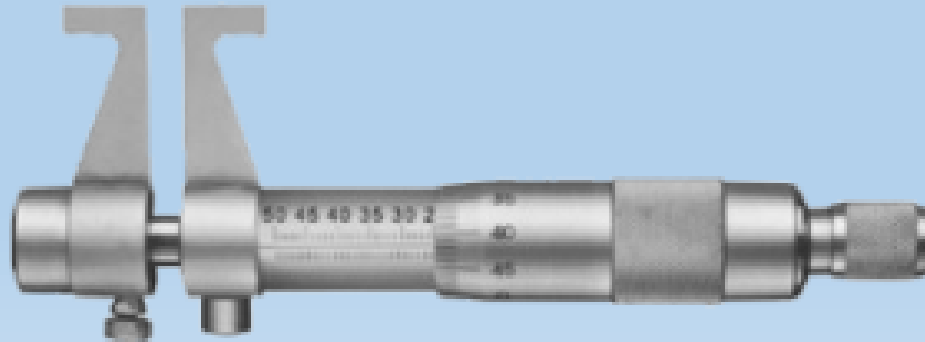
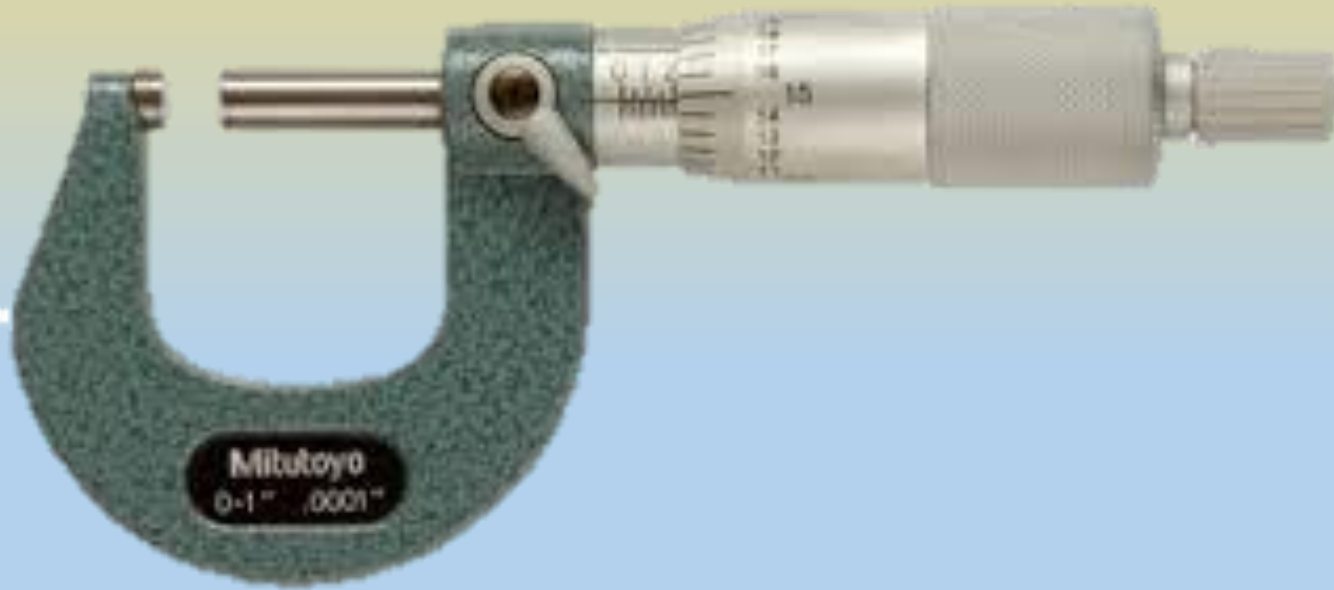
209. Masonry bit - Boring a hole in concrete, brick or block



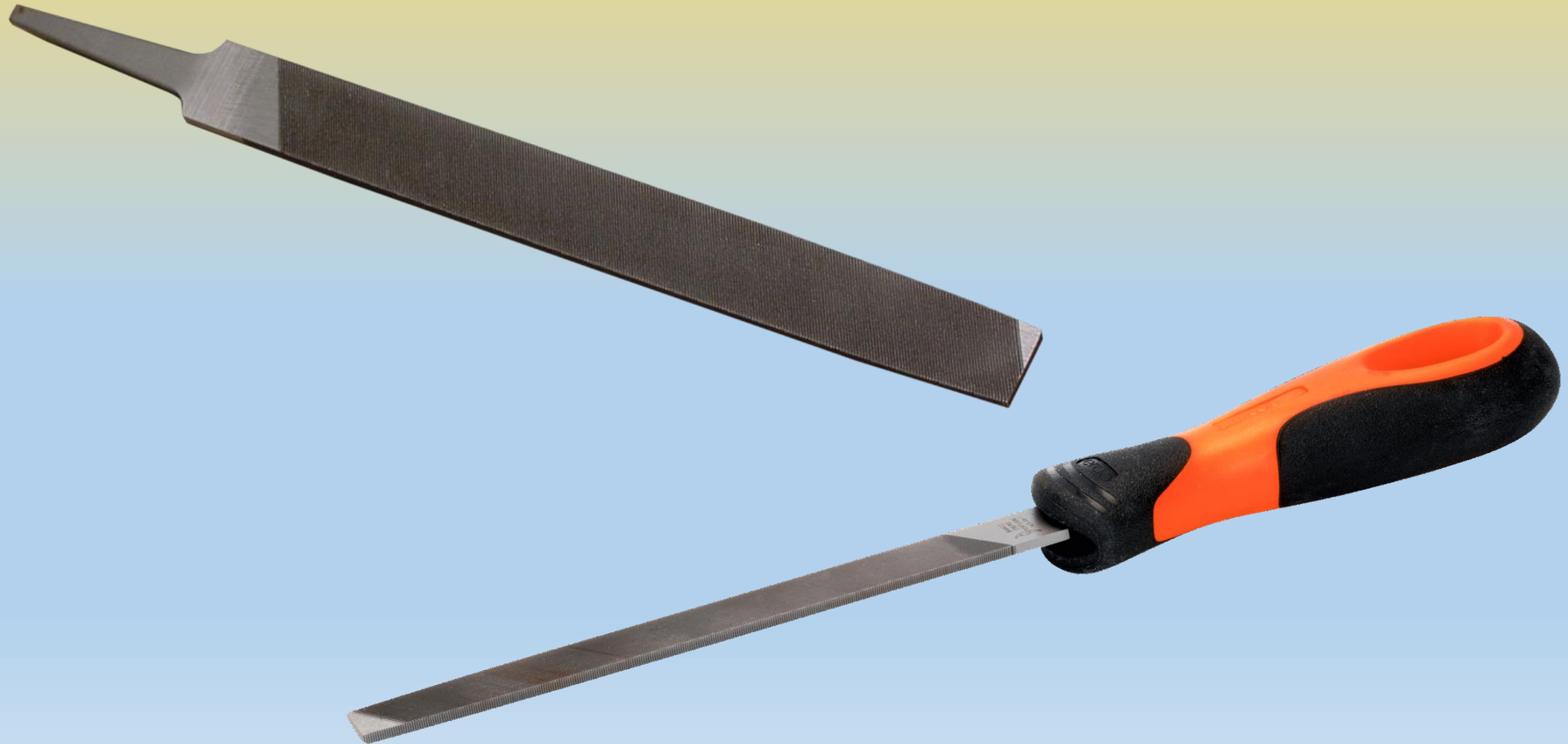
210. Masonry nail - Nailing in concrete, brick or block



211. Micrometer – Gauging or measuring small distances or thicknesses



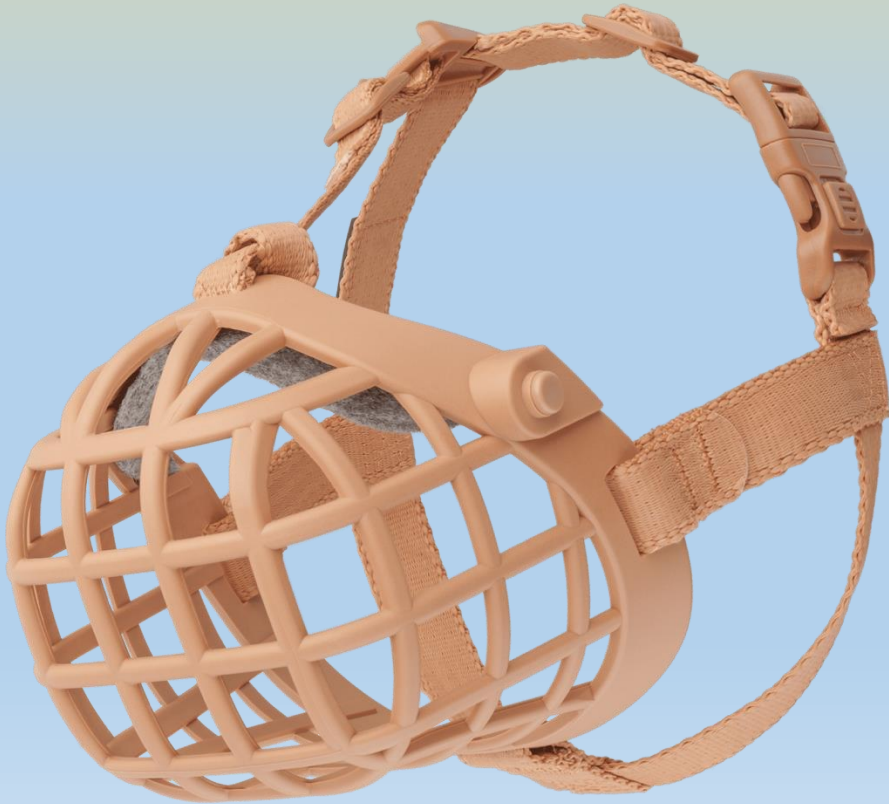
212. Mill file / Flat file - Filing metal



213. Miter saw – Cutting 90 degree crosscuts as well as various angles



214. Muzzle – Fastening or covering for the mouth of an animal to prevent eating or biting



215. Nail gun - Rapid nailing using air, gas, or electricity



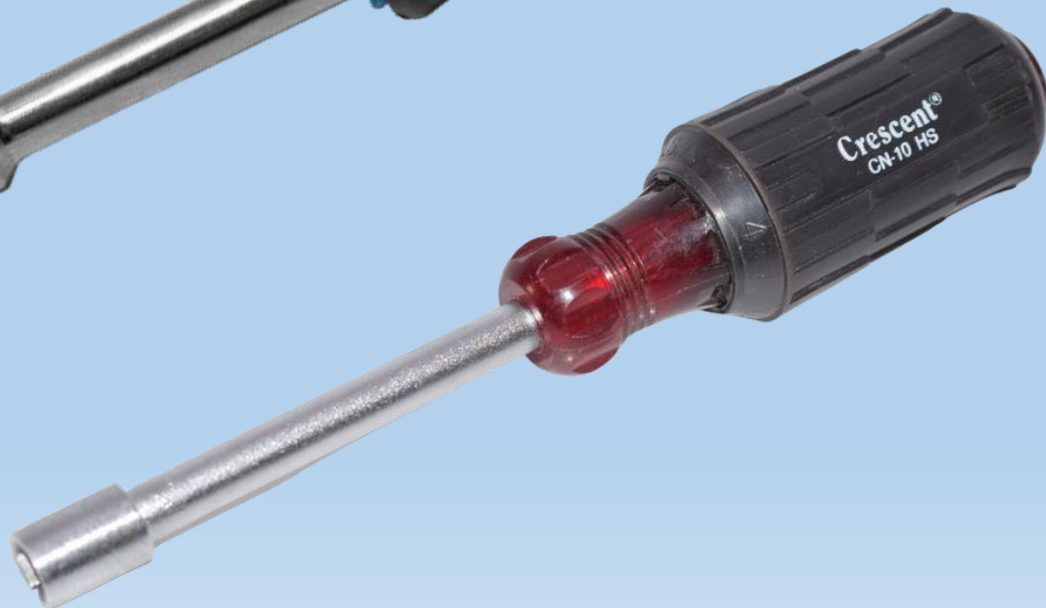
216. Nail hammer - Driving nails



217. Nail set - Countersinking nail heads



218. Nut driver - Socket permanently attached to a handle for turning small nuts and bolts



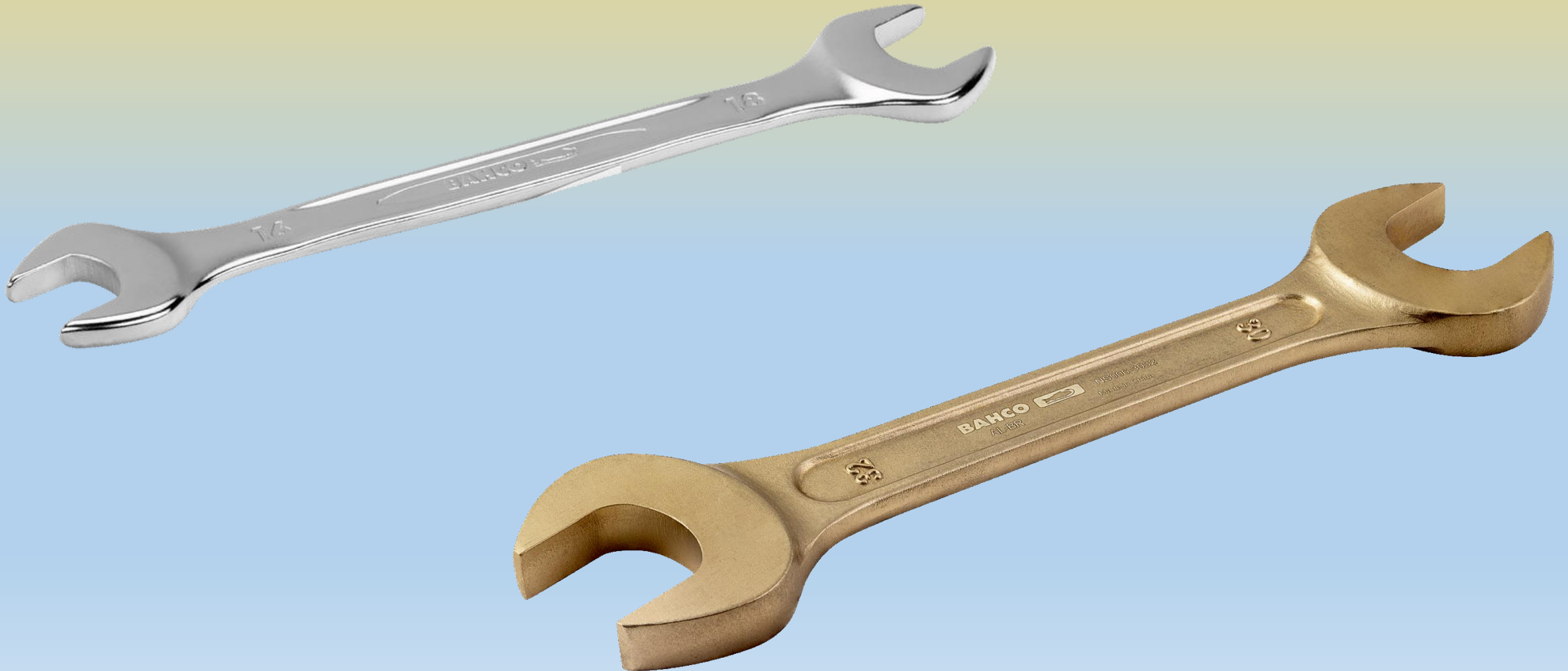
219. Obstruction wrench - Reaching nuts and bolts around obstructions



220. Oil filter wrench – Installing or removing oil filters



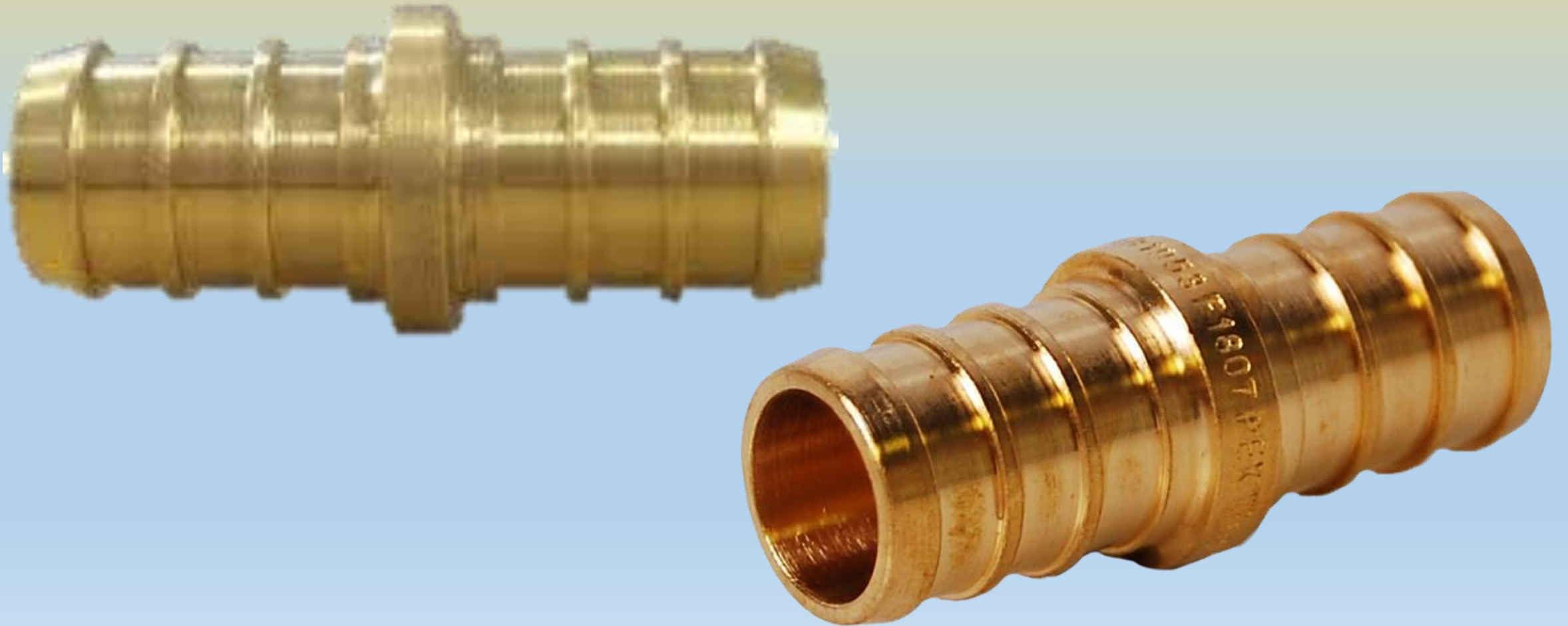
221. Open end wrench - Turning square head nuts and bolts



222. Oscillating tool – A handheld power tool that vibrates back and forth at high speeds to cut, sand, or polish materials



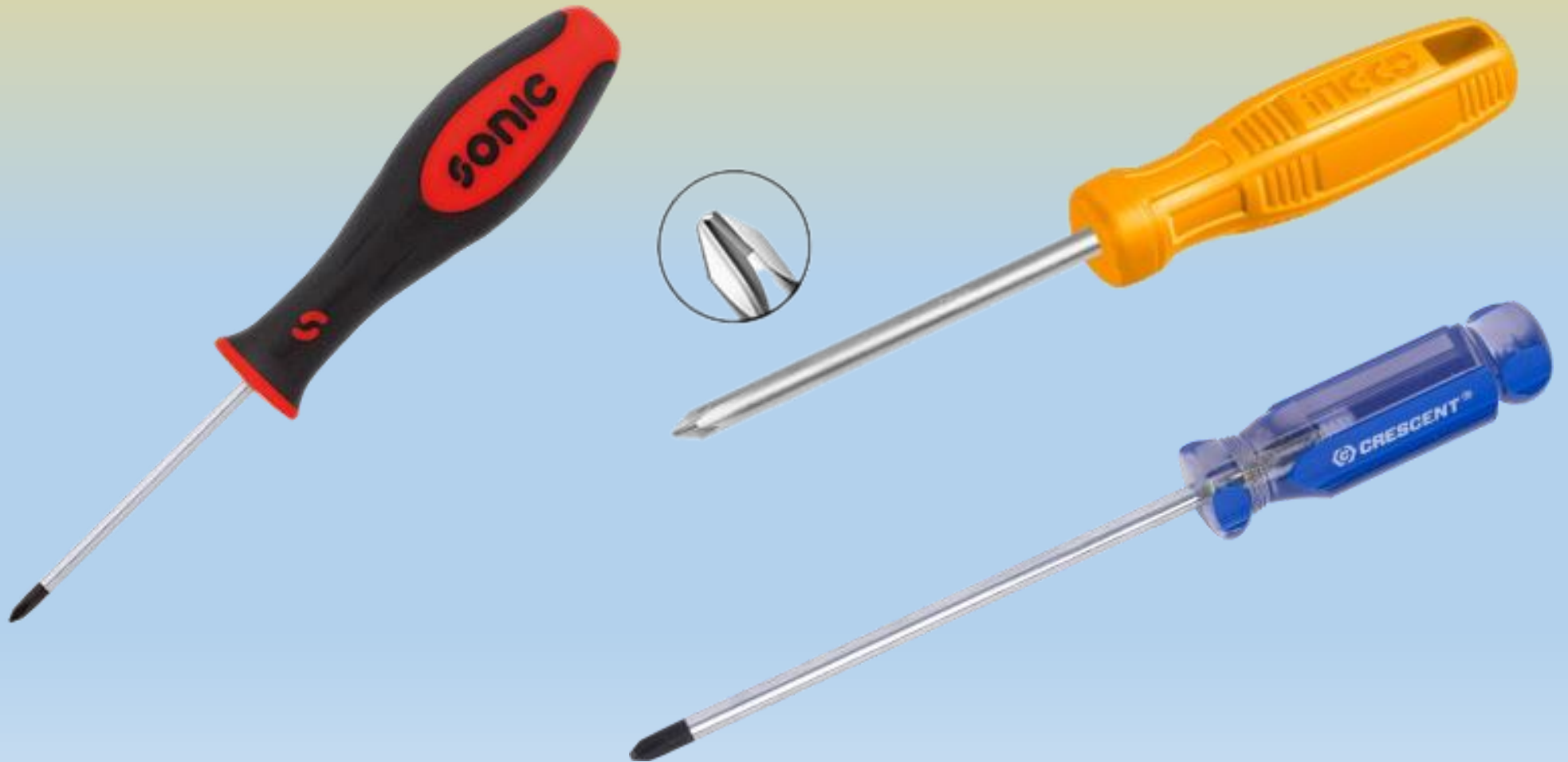
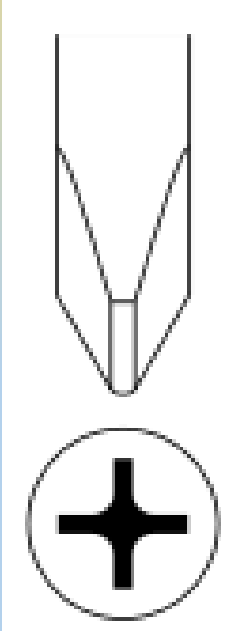
223. Pex coupling – Making hot or cold water supply line connections



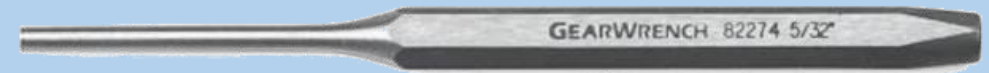
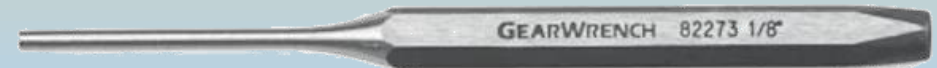
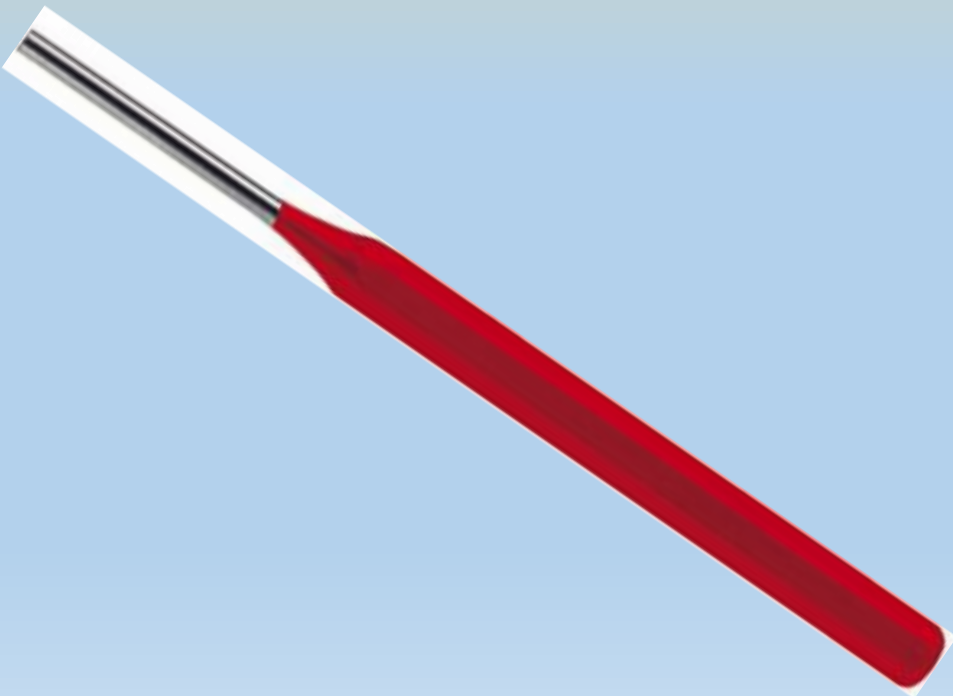
224. Pex pinch clamp ring – Securing water supply pipes to fittings



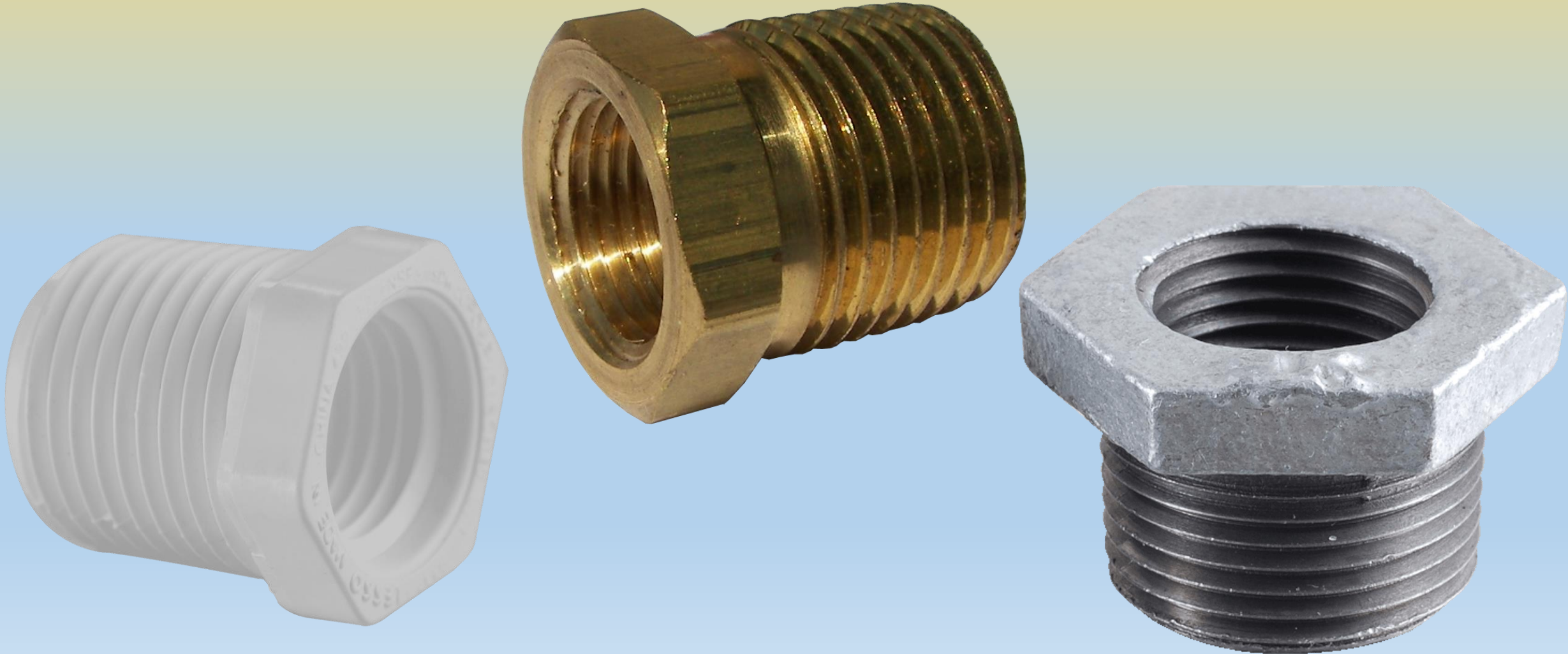
225. Phillips screwdriver - Turning phillips head screws



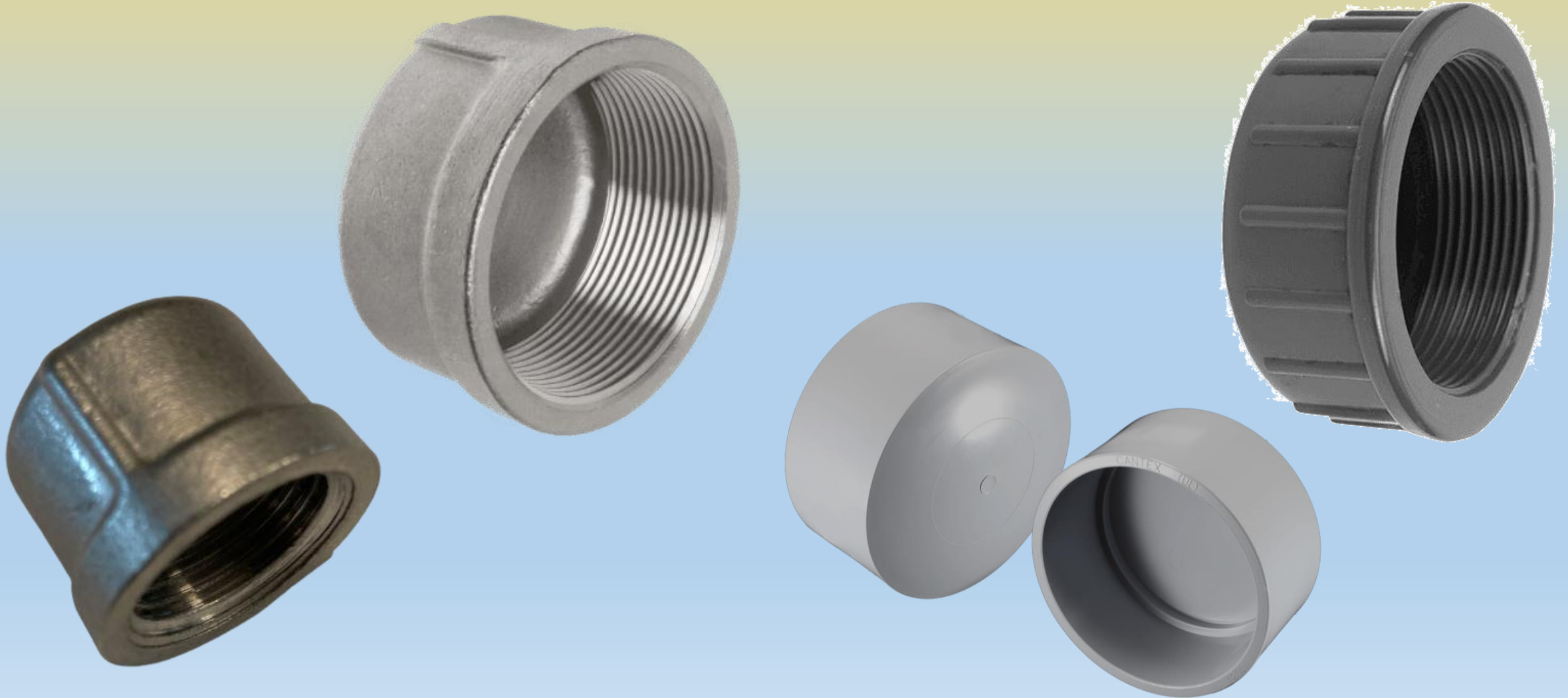
226. Pin punch - Driving out metal pins



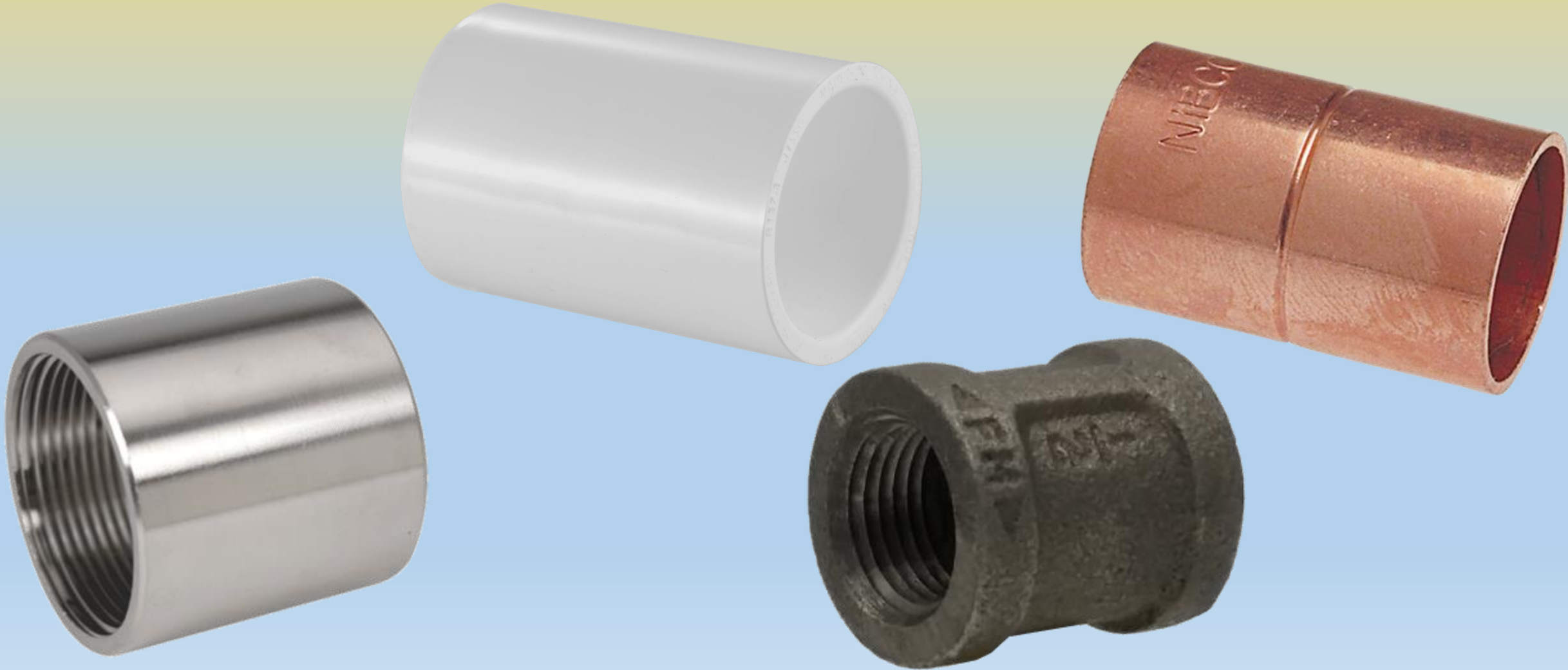
227. Pipe bushing – Connecting pipes of different diameters



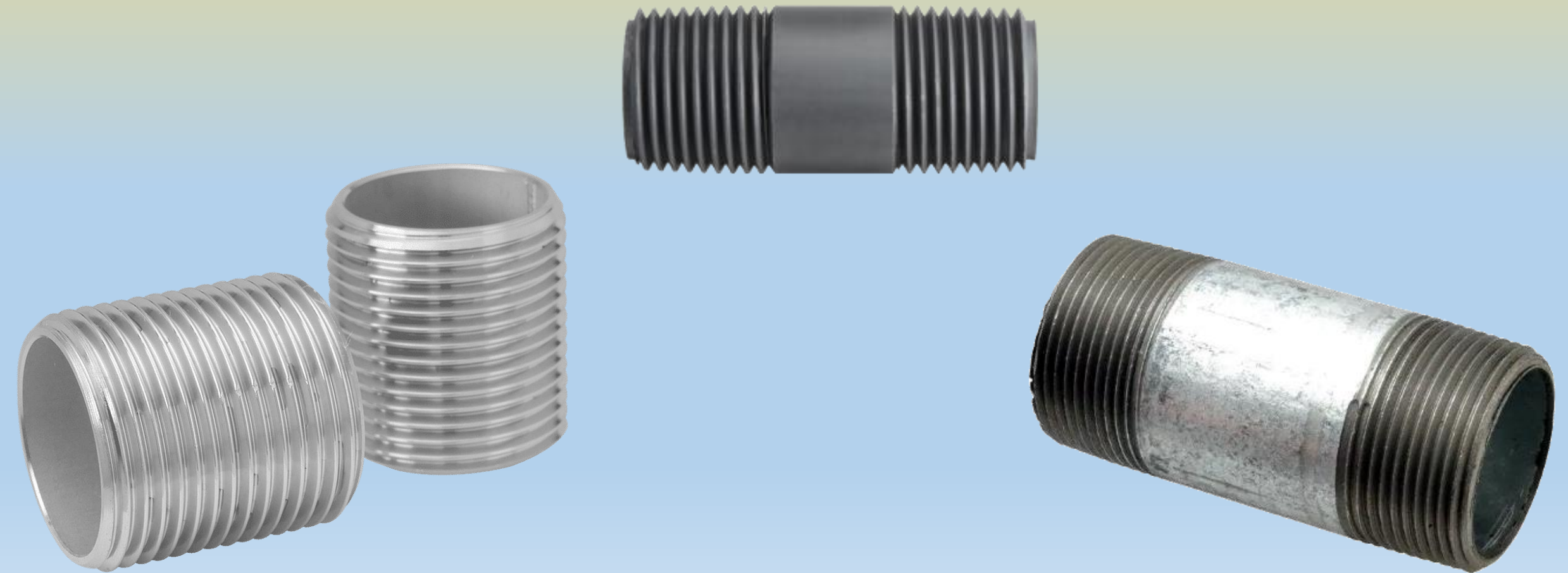
228. Pipe cap - Closing the end of a pipe by going over the pipe end



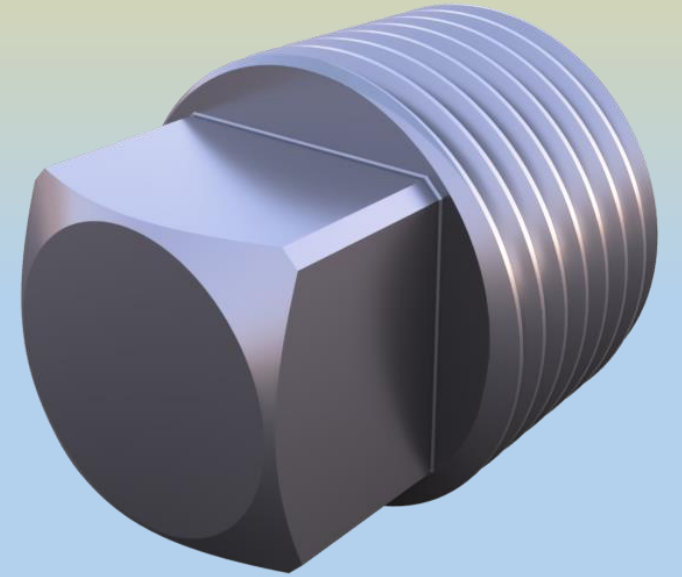
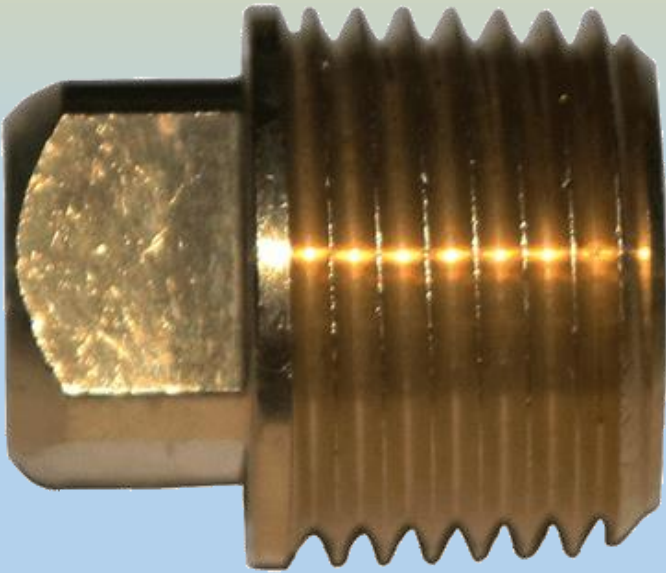
229. Pipe coupling - Joining two pieces of pipe



230. Pipe nipple - Adding length to a piece of pipe



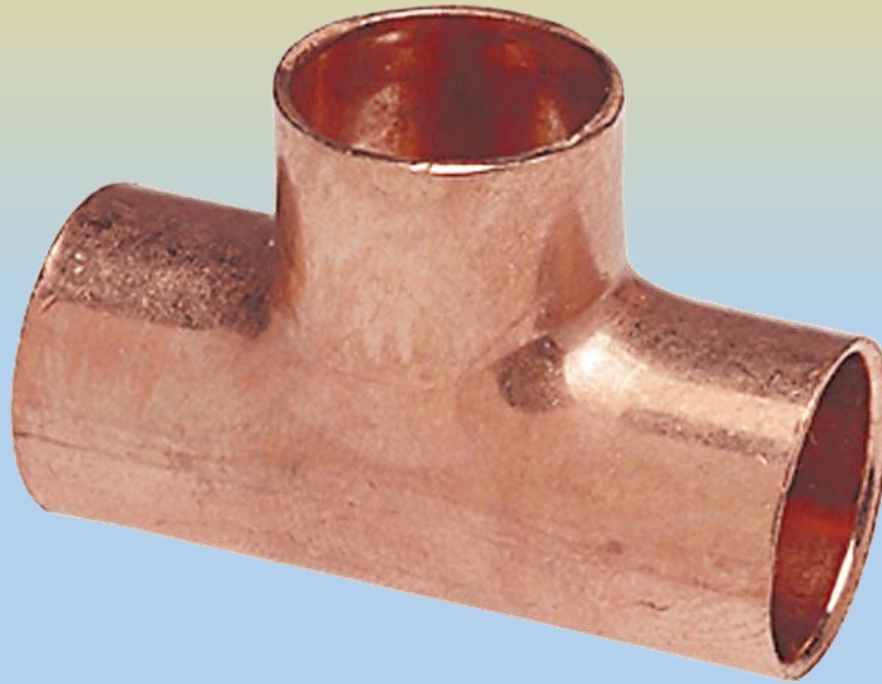
231. Pipe plug - Closing the end of a pipe, threads on the outside



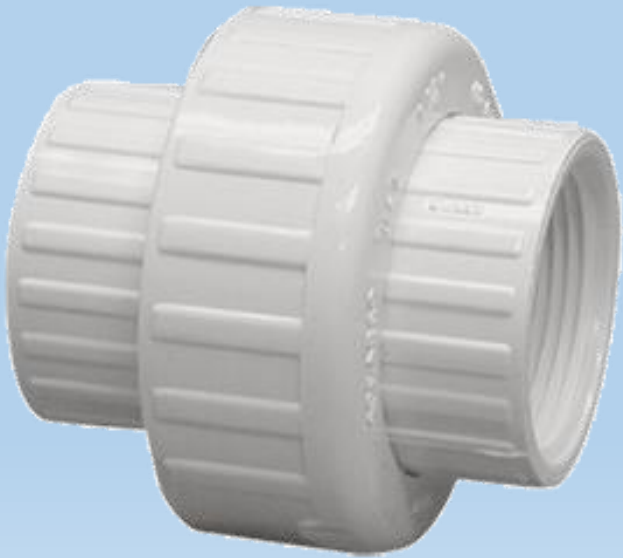
232. Pipe reducer - Reducing pipe size



233. Pipe tee - Joining at 90° angles



234. Pipe union - Joining two pieces of pipe where neither side can be turned



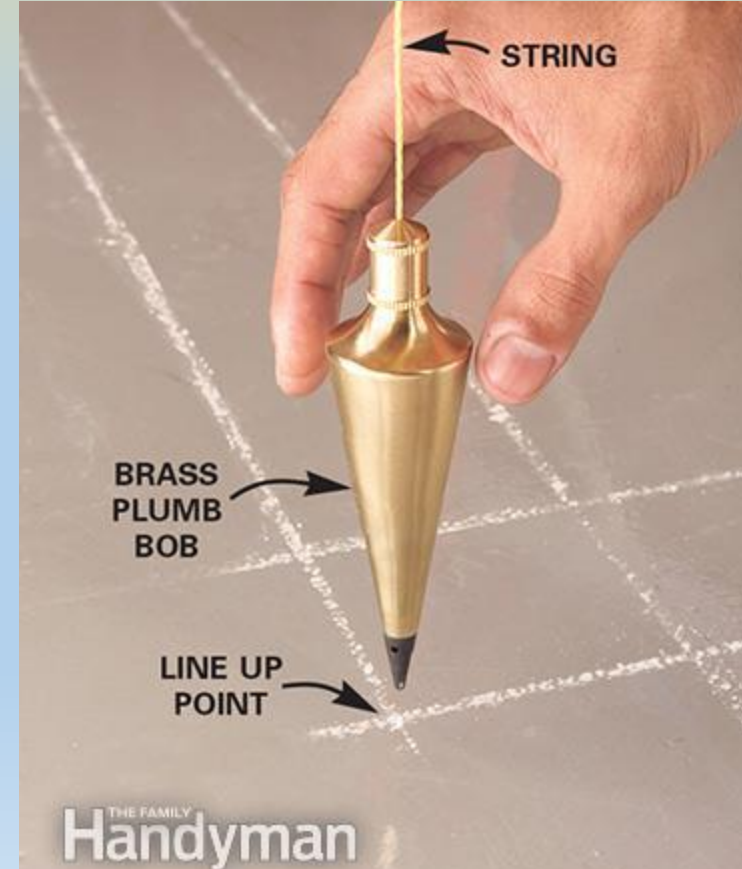
235. Pipe wrench - Turning and holding metal pipe



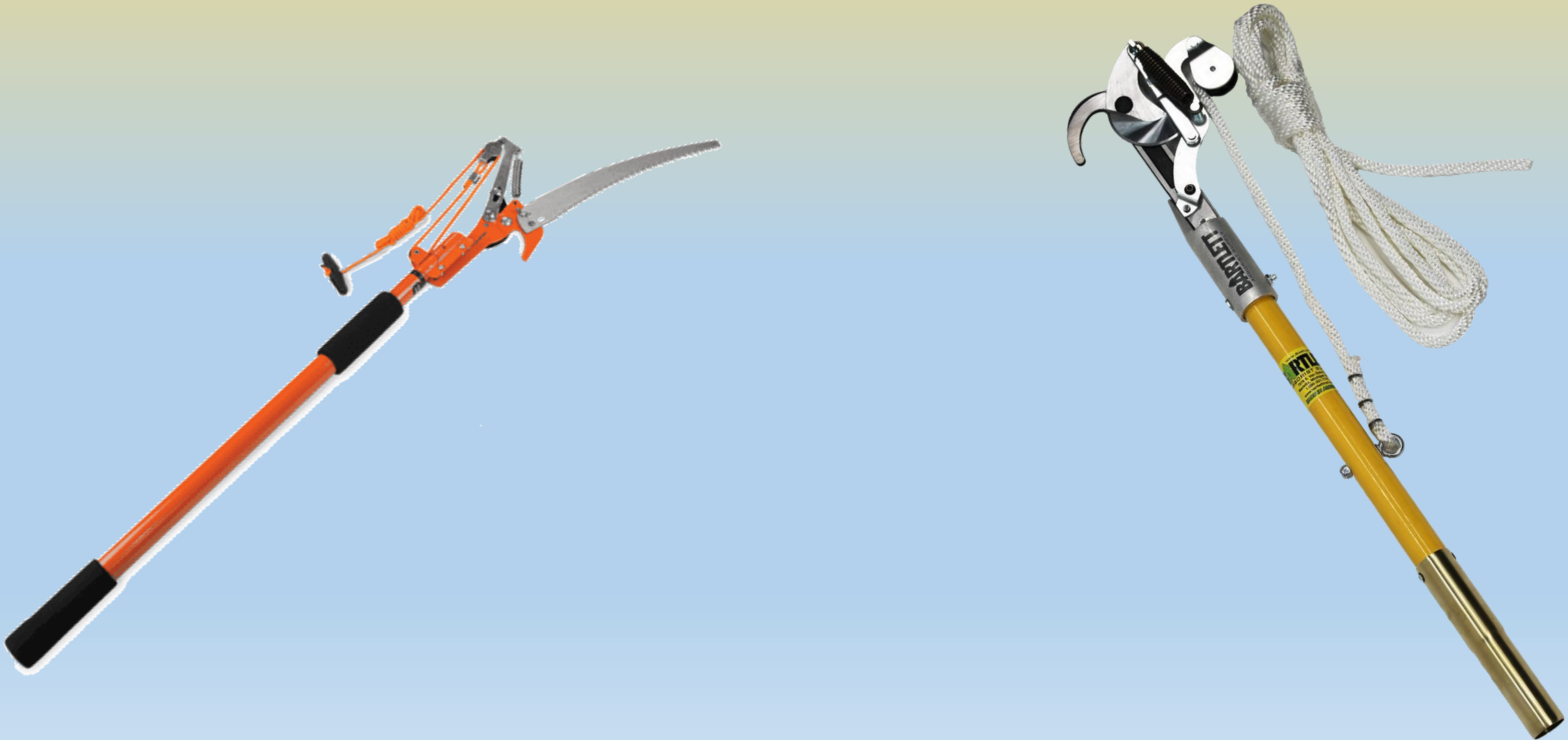
236. Piston ring compressor - Compressing ring for inserting into cylinder



237. Plumb bob - Vertical plumbing to locate points



238. Pole pruner – Removing elevated or hard-to-reach branches and limbs



239. Portable drill - Drilling holes or driving fasteners with a bit



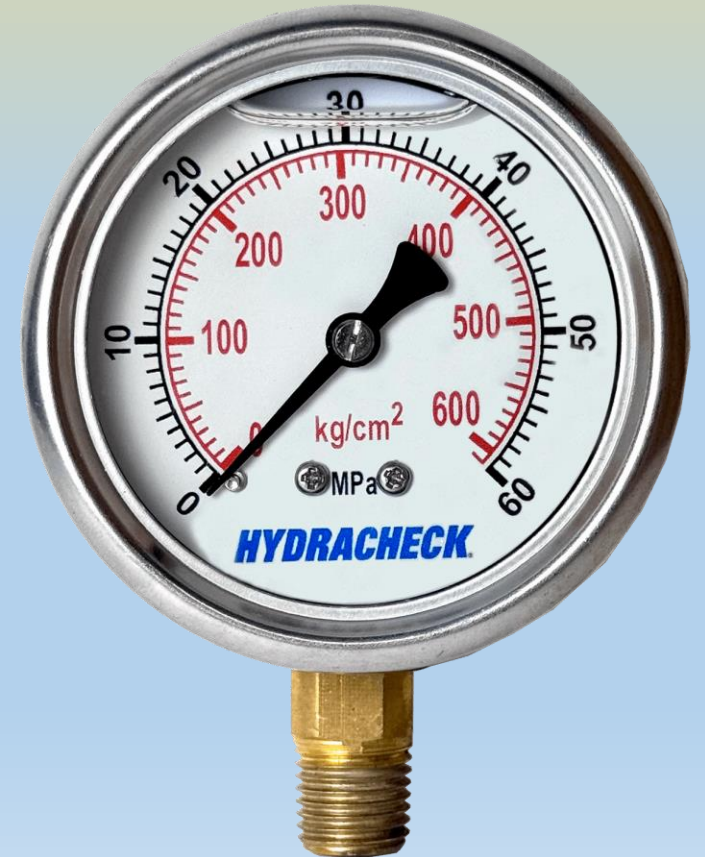
240. Portable router – Power tool used to shape the edge, cut a groove or mill a design in a piece of wood



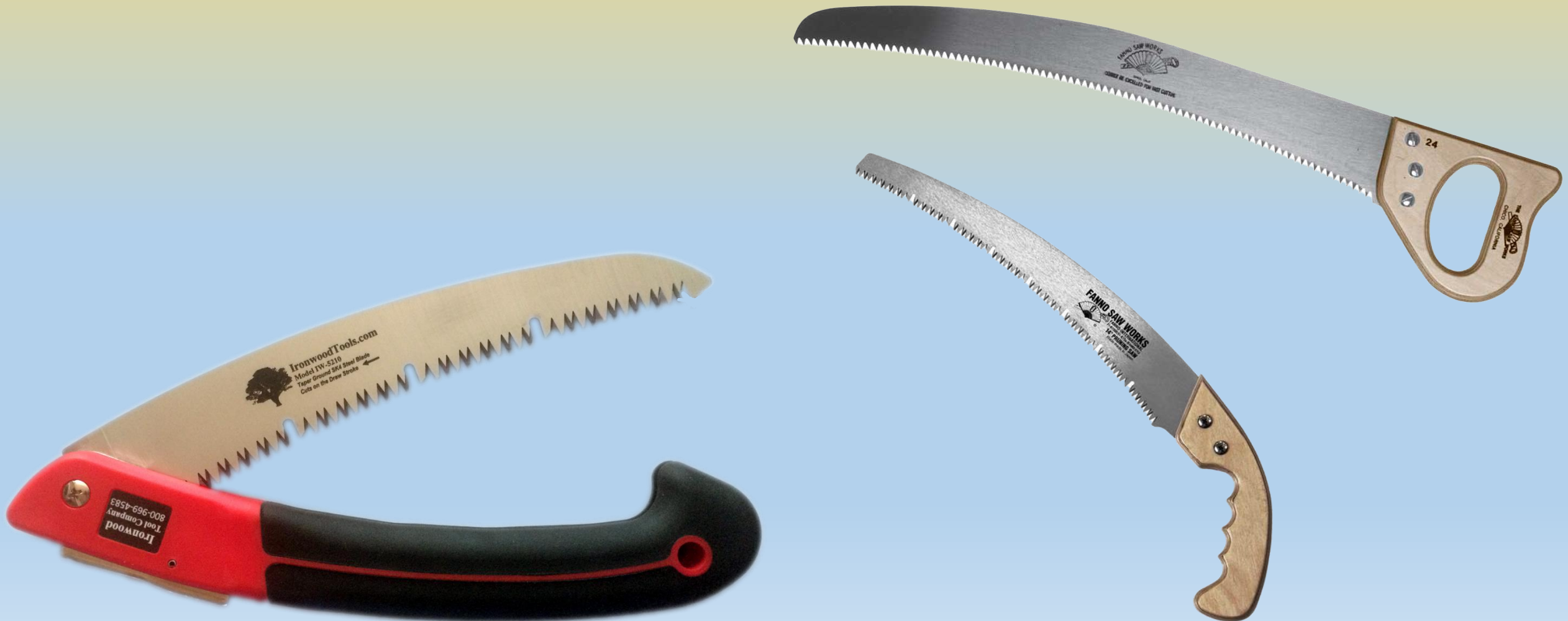
241. Portable sander - Power tool used for smoothing surfaces



242. Pressure gauge – Device on a regulator that displays the pressure inside a cylinder



243. Pruning saw - Sawing limbs from shrubbery and trees



244. Pruning shears - Cutting and shaping shrubbery



245. Putty knife - Applying and smoothing putty



246. PVC cutter - Cutting non-metallic pipe



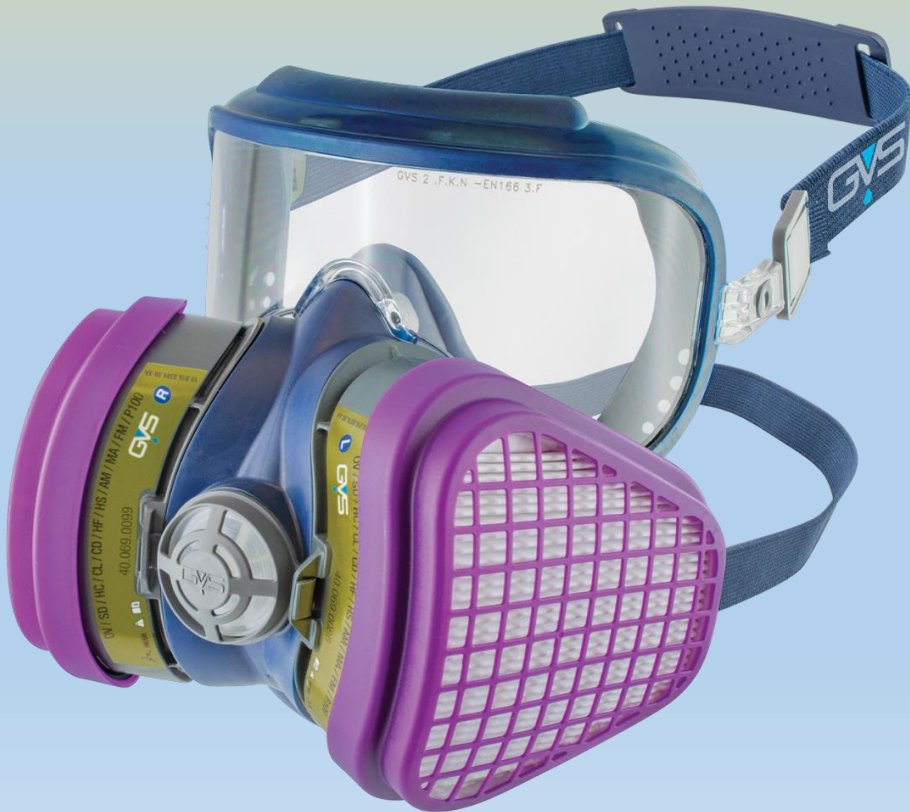
247. Reciprocating saw – Cutting various materials with push and pull blade action



248. Regular socket - General purpose socket for turning nuts and bolts



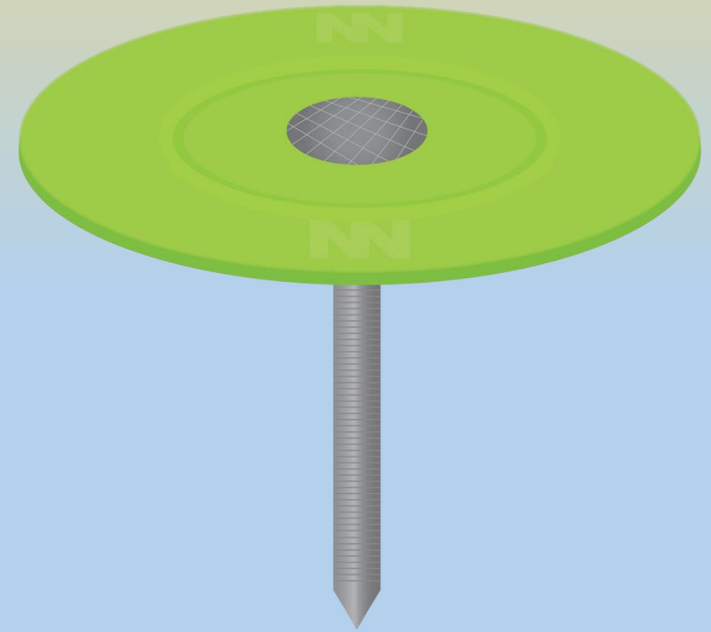
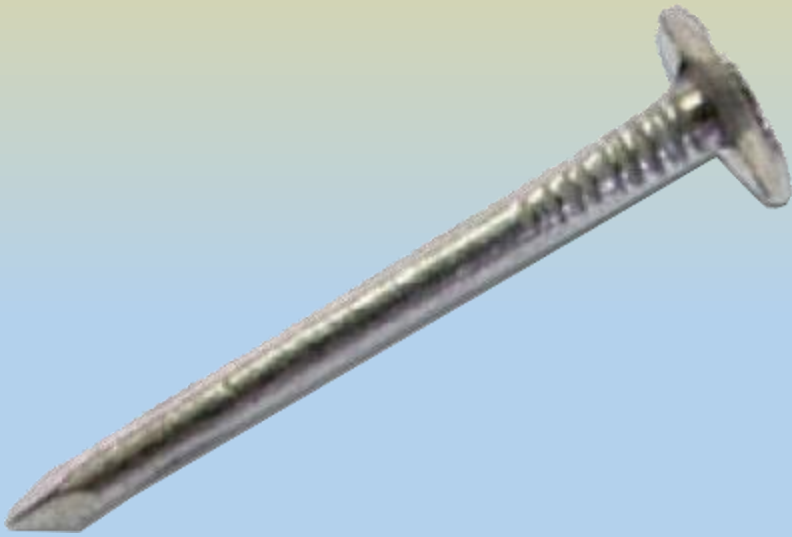
249. Respirator – Preventing particles, gases, and vapors from being inhaled



250. Reversible ratchet – Turning sockets in forward and reverse rotations



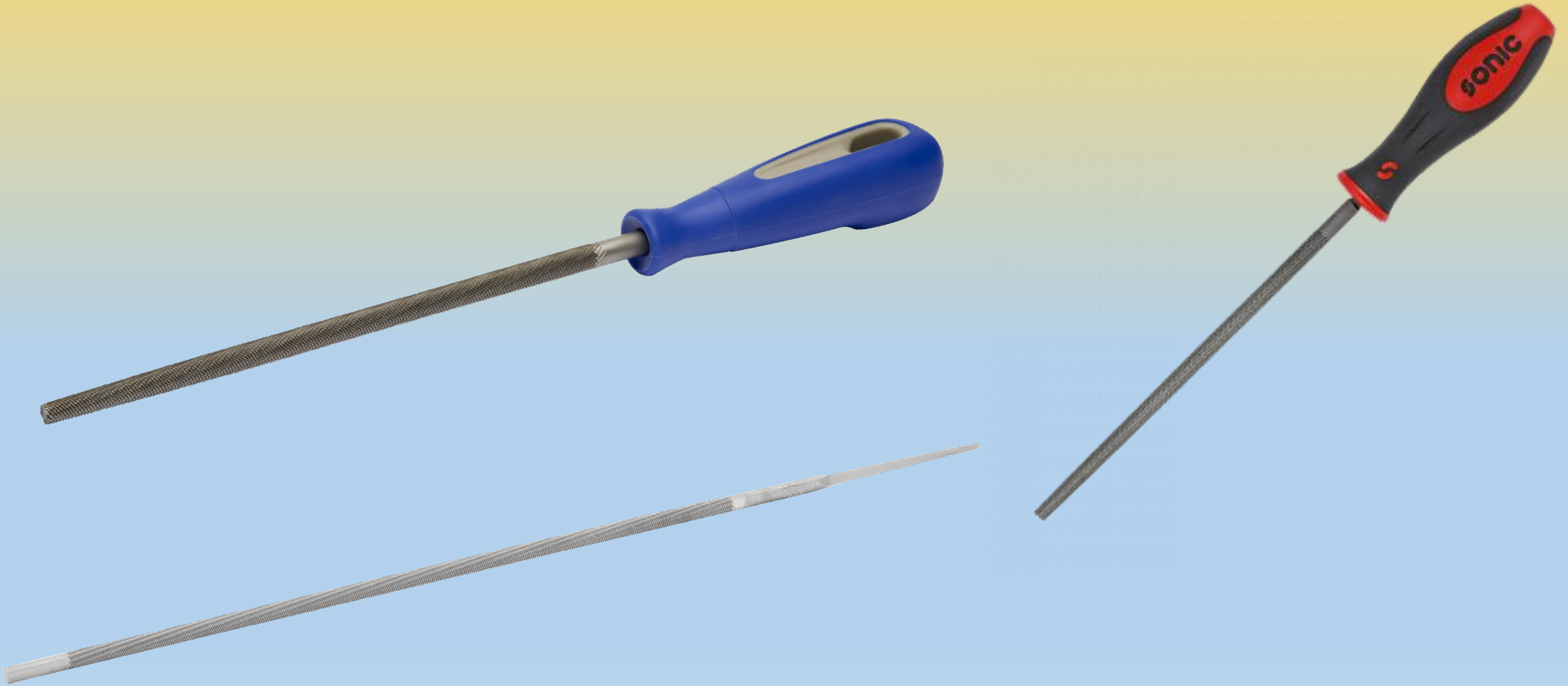
251. Roofing nail - Nailing tin, aluminum, fiberglass, or asphalt roofing



252. Rotary tool – Handheld tool for sharpening, polishing or trimming various materials



253. Round file – Filing inside holes



254. Roundhead stove bolt - Fastening wood or metal to metal with a screwdriver or wrench



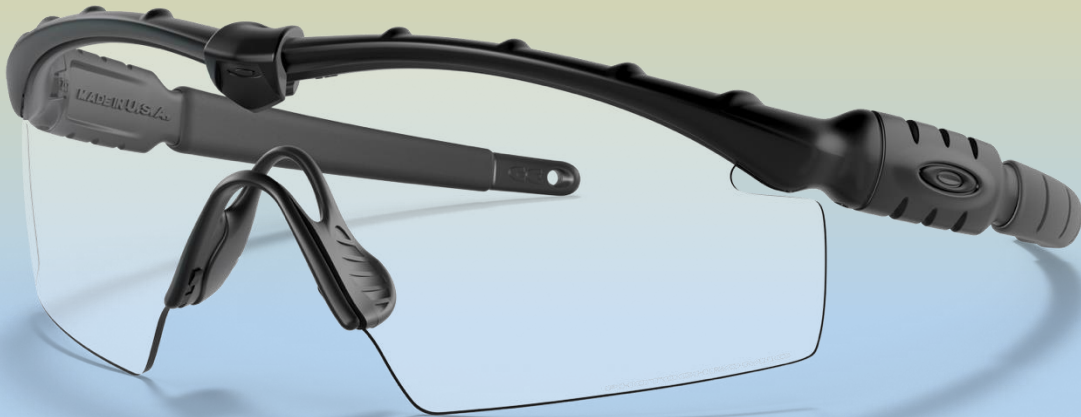
255. Roundhead wood screw - Fastening wood to wood



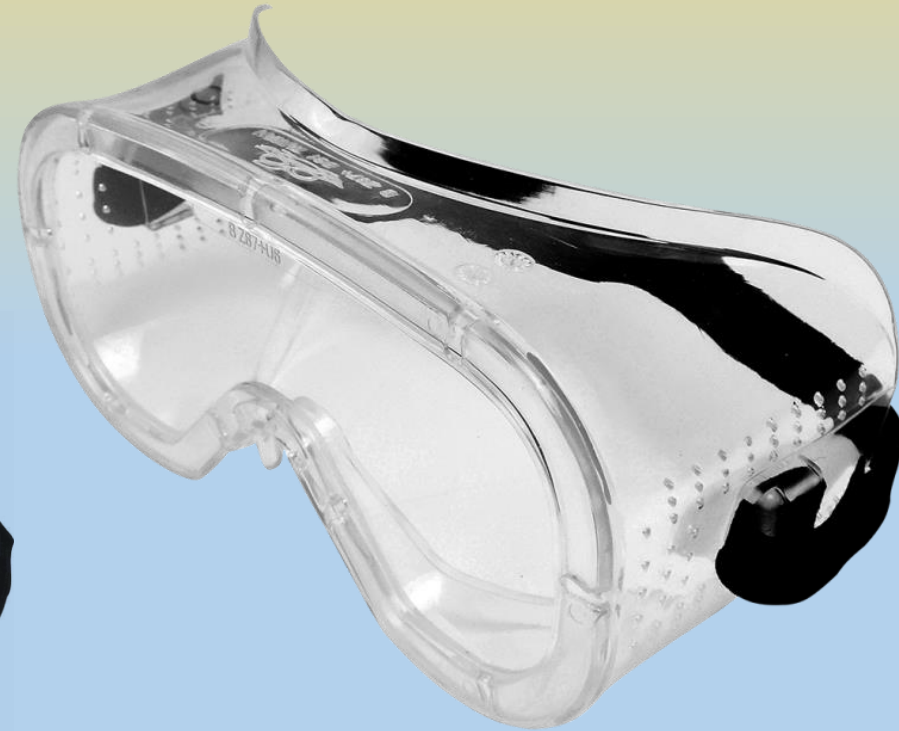
256. Rubber mallet - Hammering to avoid marring surface



257. Safety glasses - Protecting eyes from the impact of foreign objects

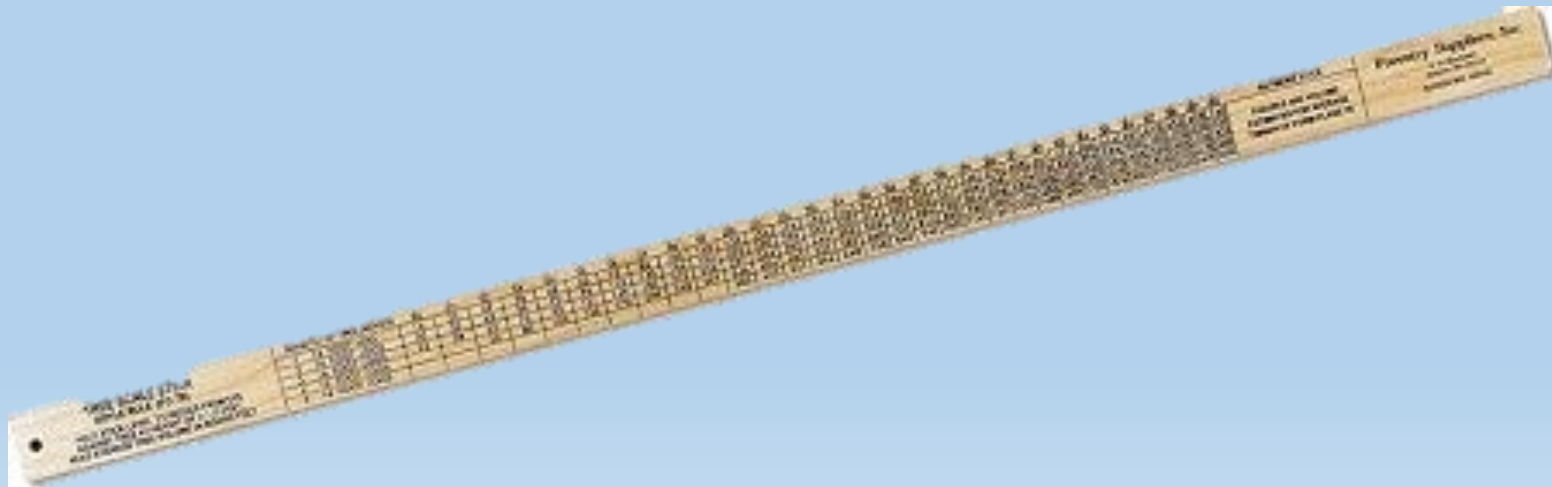


258. Safety goggles – Protecting eyes from liquid splash, acid vapors, dust, and impact hazards



259. Scale stick – Measuring tree diameter and height

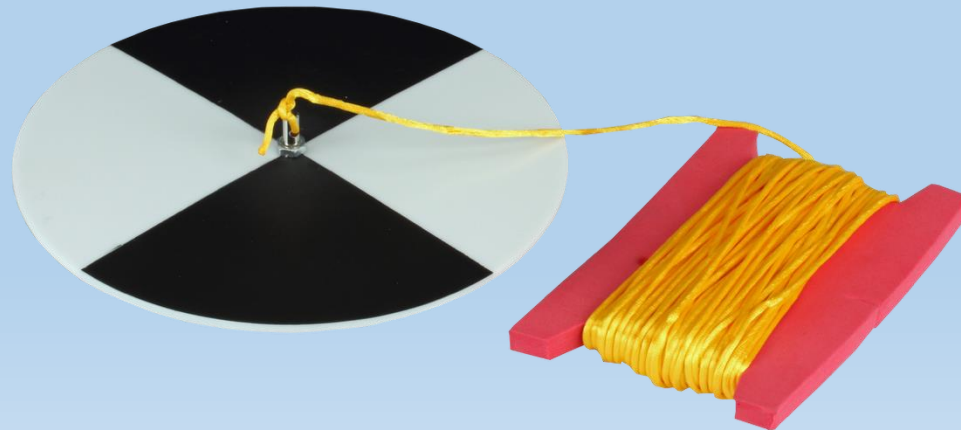
DIAMETER OF LOG AT SMALL END (INCHES)		6	7	8	9	10	11
LOG SCALE STICK INTERNATIONAL 1/4" RULE MEASURE AVERAGE DIAMETER INSIDE BARK AT SMALL END OF LOG READ VOLUME IN BOARD FEET	8 FOOT LOGS	10	10	15	20	30	40
	10 FOOT LOGS	10	15	20	30	35	45
	12 FOOT LOGS	15	20	25	35	45	55
	14 FOOT LOGS	15	25	35	45	55	65
	16 FOOT LOGS	20	30	40	50	65	75
	18 FOOT LOGS	25	35	45	60	75	90



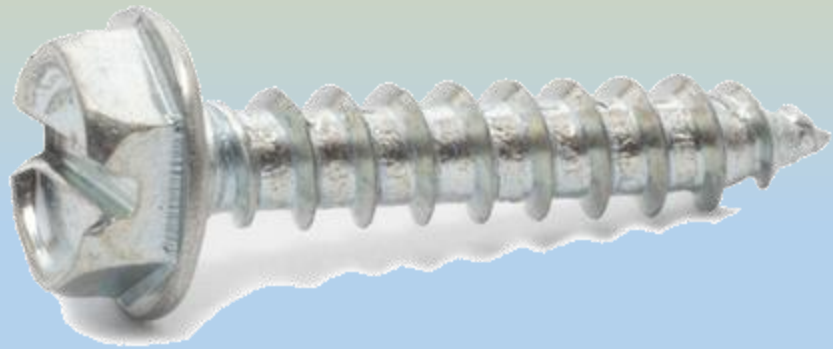
260. Screw extractor - Removing broken bolts, studs, or screws



261. Secchi disc – Measuring turbidity of water



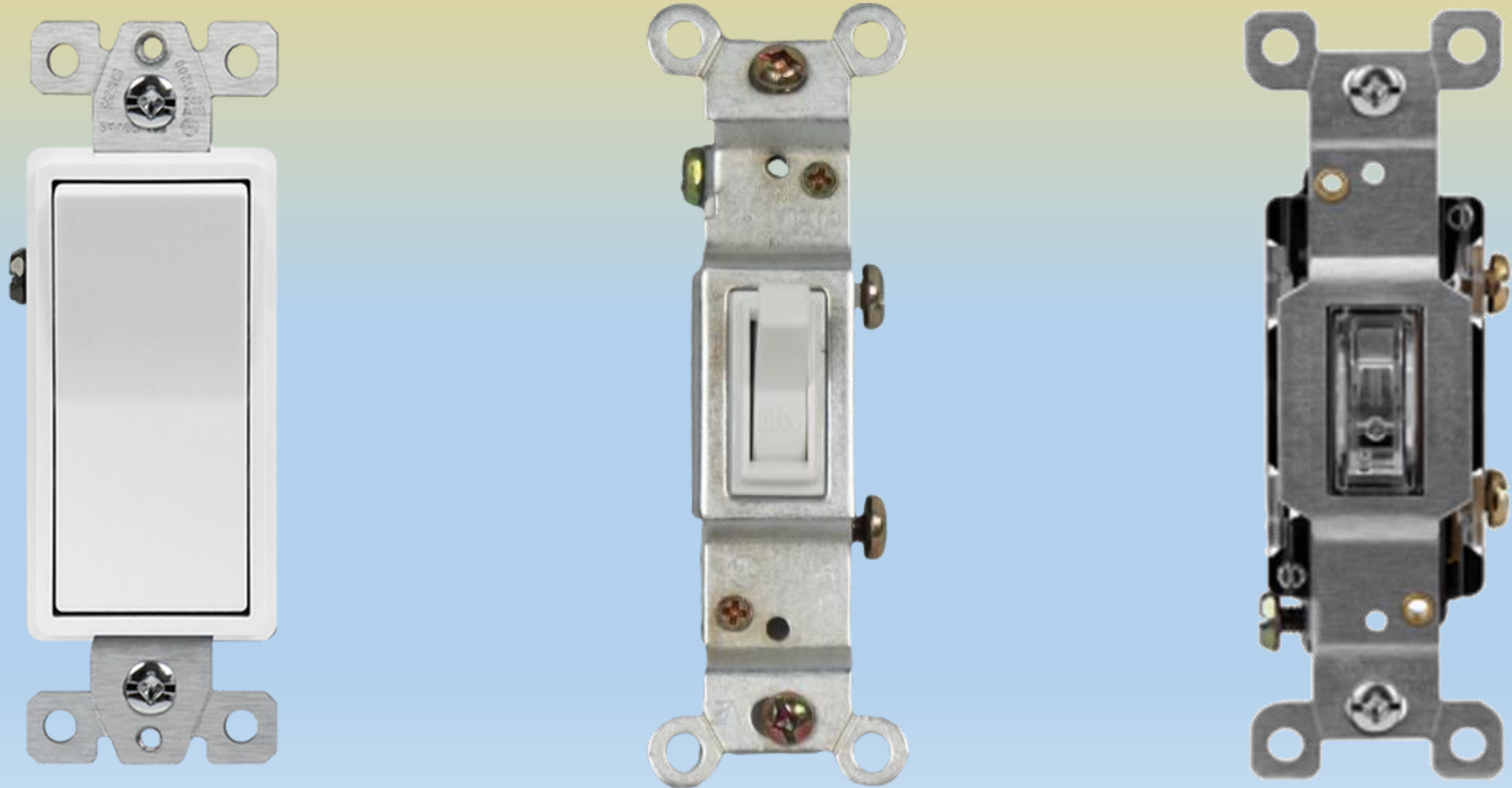
262. Sheet metal screw - Joining two pieces of sheet metal



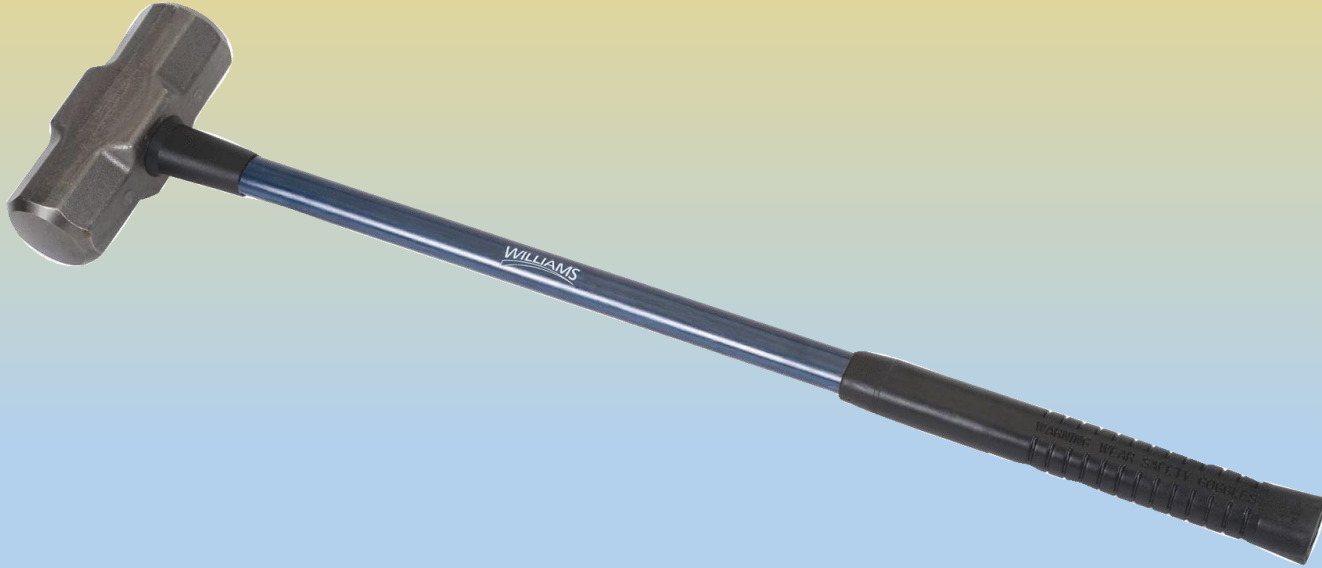
263. Side cutting pliers - Holding and/or cutting wire



264. Single Pole Switch – Completing a circuit or creating a gap in the flow of electricity



265. Sledge hammer - Heavy hammering



266. Slip joint pliers - Adjust for holding various size material



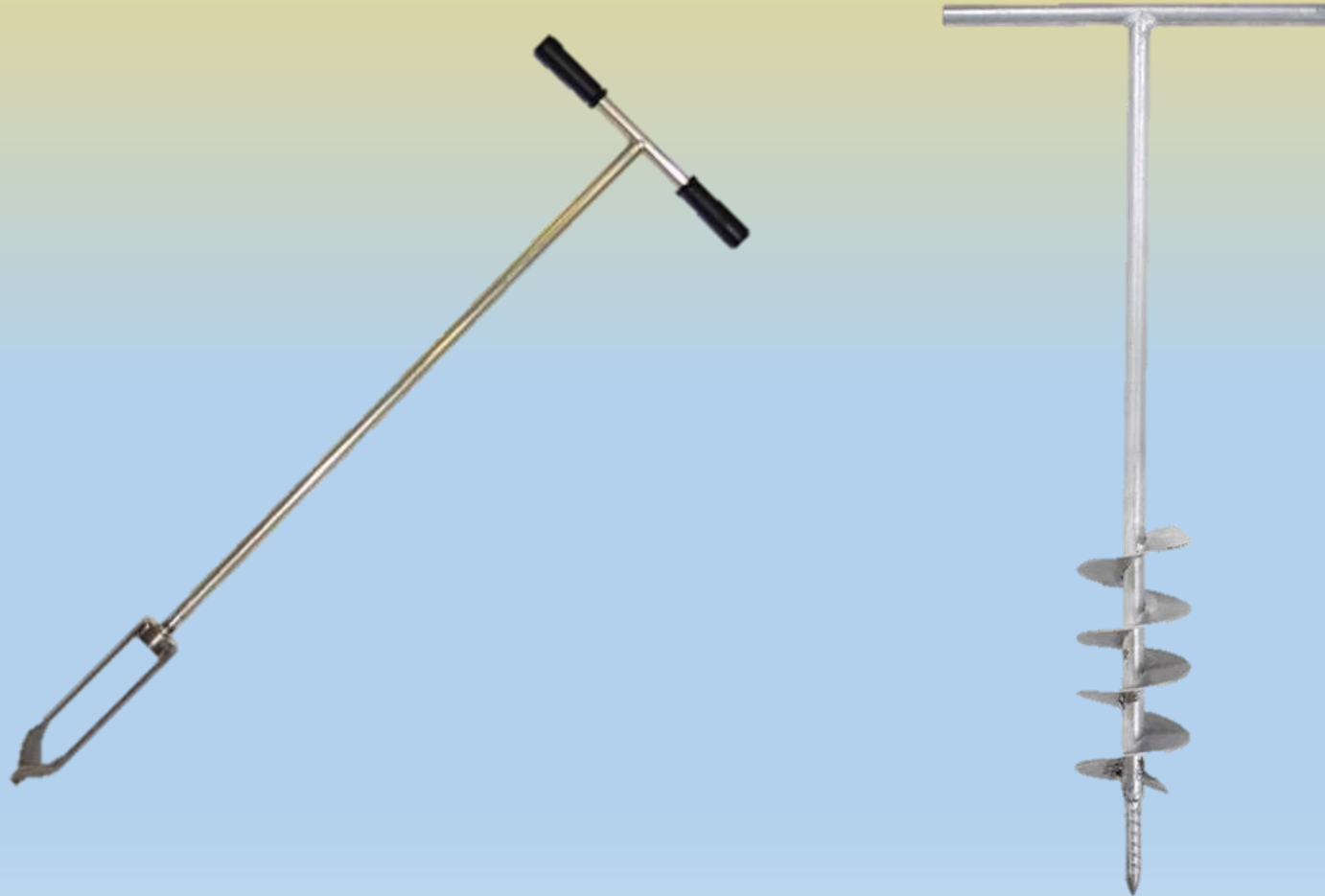
267. Slotted screwdriver - Turning slotted screws



268. Snap ring pliers – Removing or installing internal or external snap rings



269. Soil auger - Boring into soil to get samples



270. Soil thermometer – Measuring the temperature of the soil



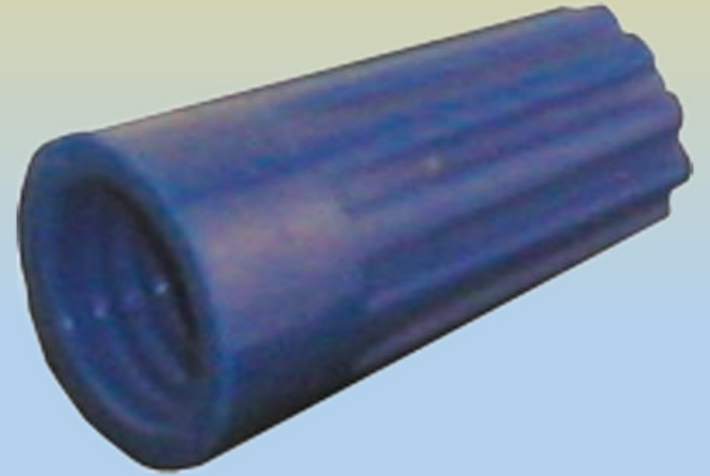
271. Soil tube - Obtaining soil for testing



272. Soldering gun - Melting solder



273. Solderless wire nut - Joining two or more electrical wires



274. Spade bit - Wood boring bit for electric drill



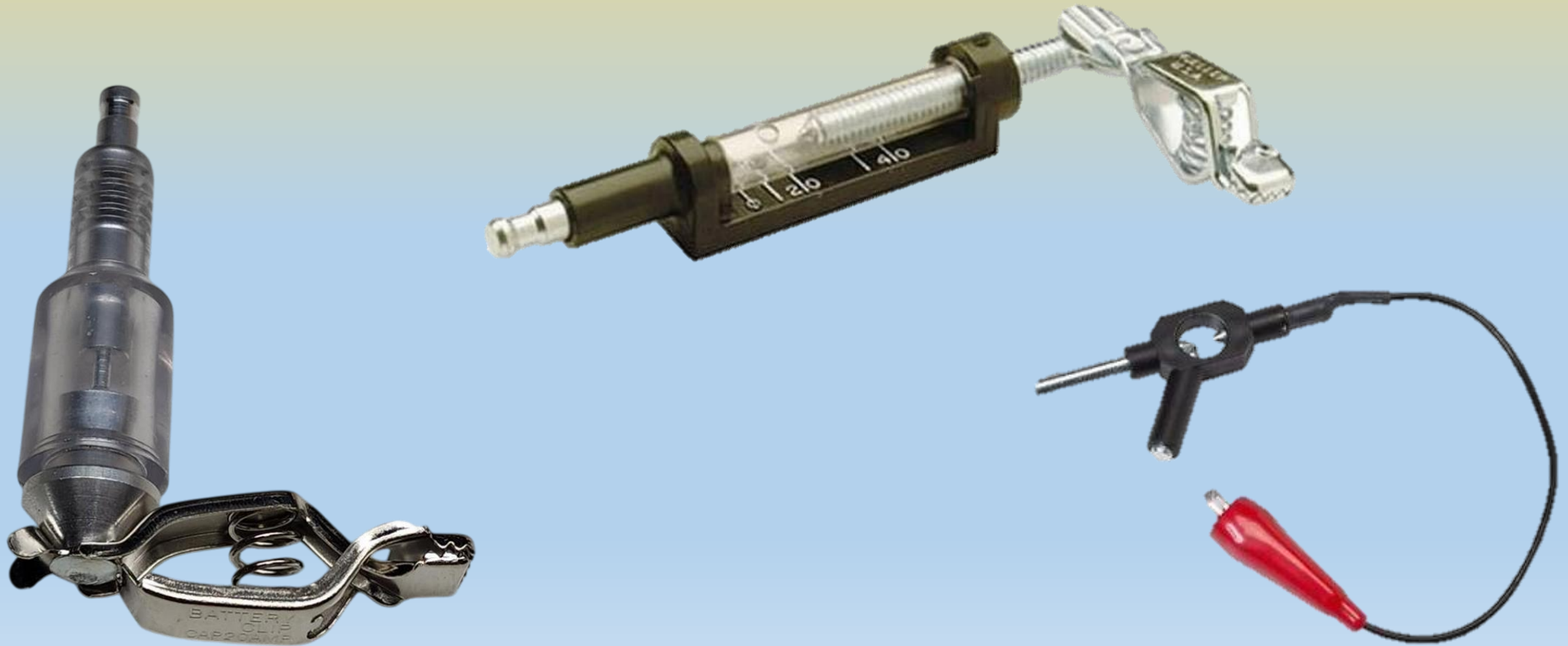
275. Spark plug gauge - Gauging and setting spark plug gap



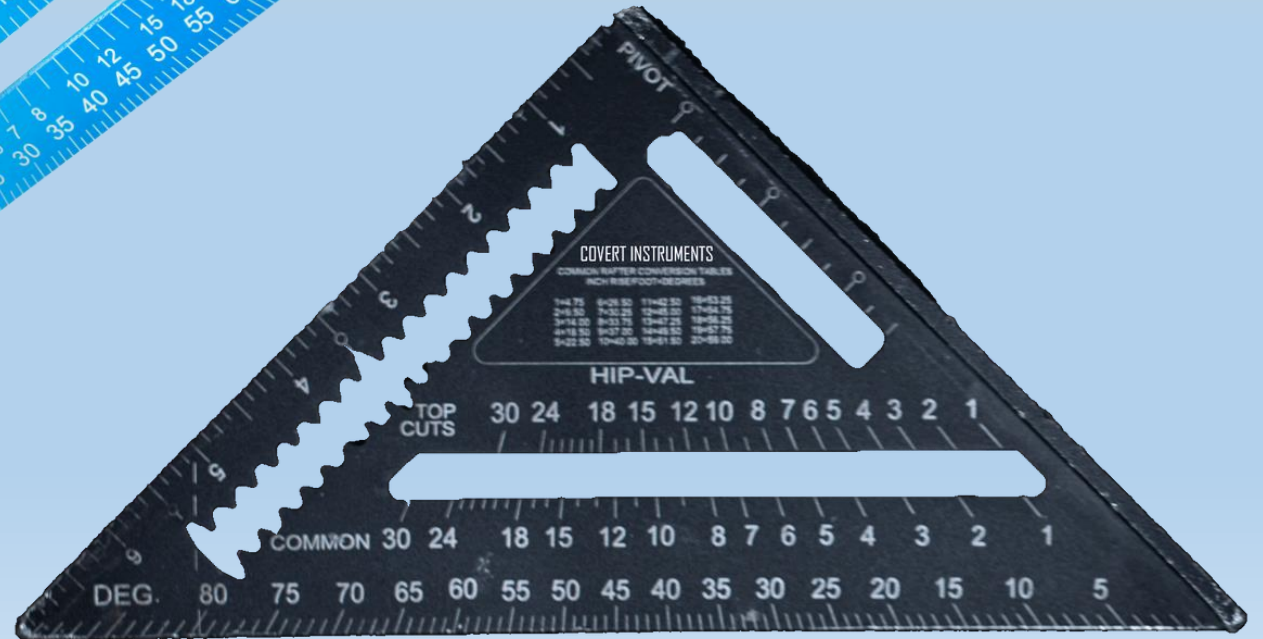
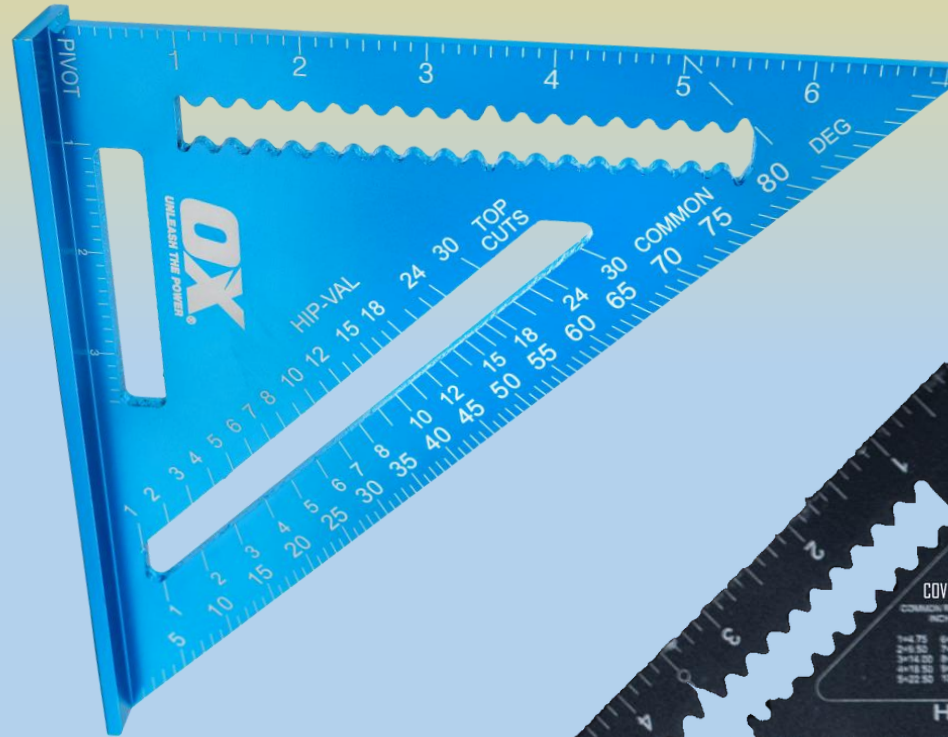
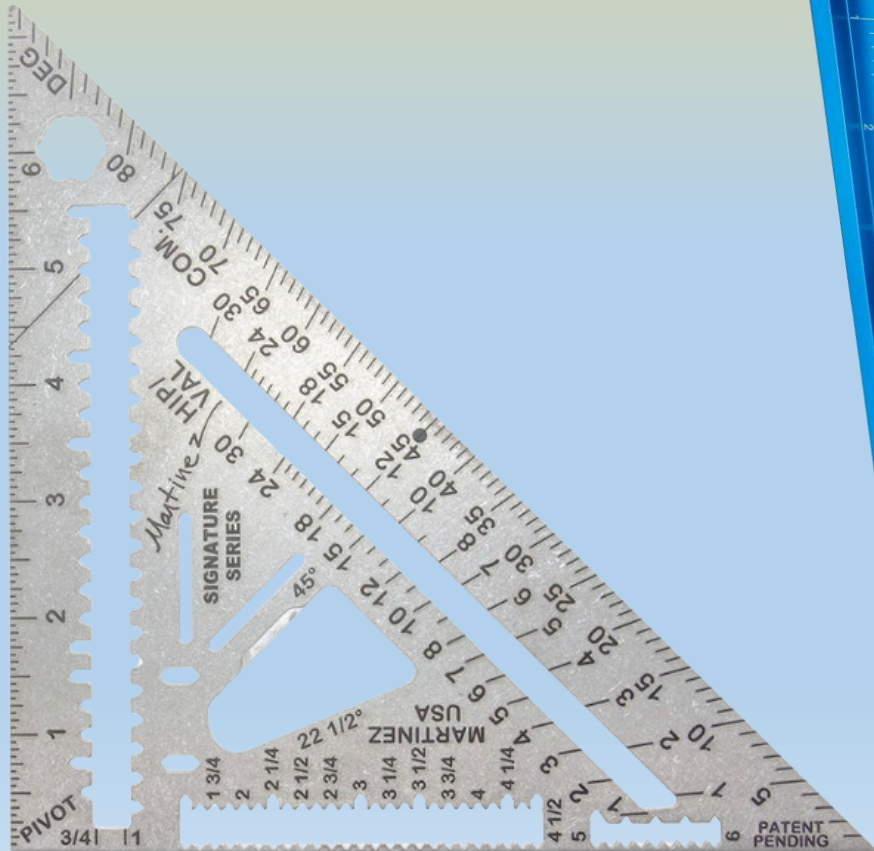
276. Spark plug socket - Installing and removing spark plugs



277. Spark tester – Checking the condition of the ignition system at each cylinder



278. Speed square – Measuring and marking 0-90 degree angles, finding roof pitches, and laying out rafters



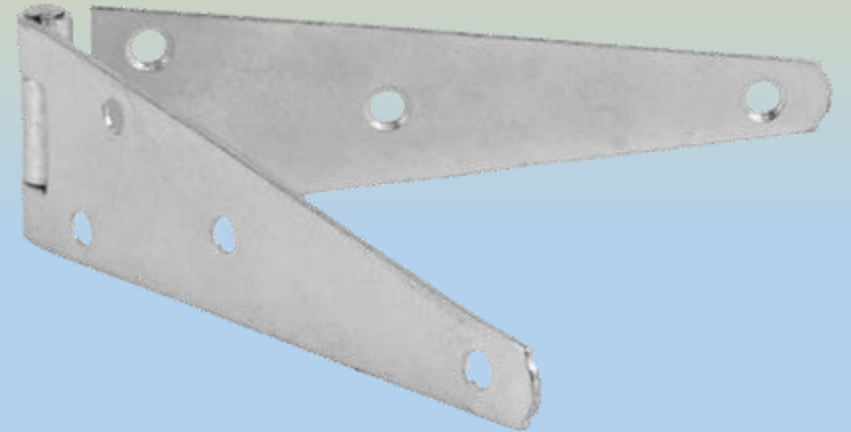
279. Stethoscope – Used to listen to heart, lungs, and digestive organs



280. Straight shank drill bit - Drilling metal



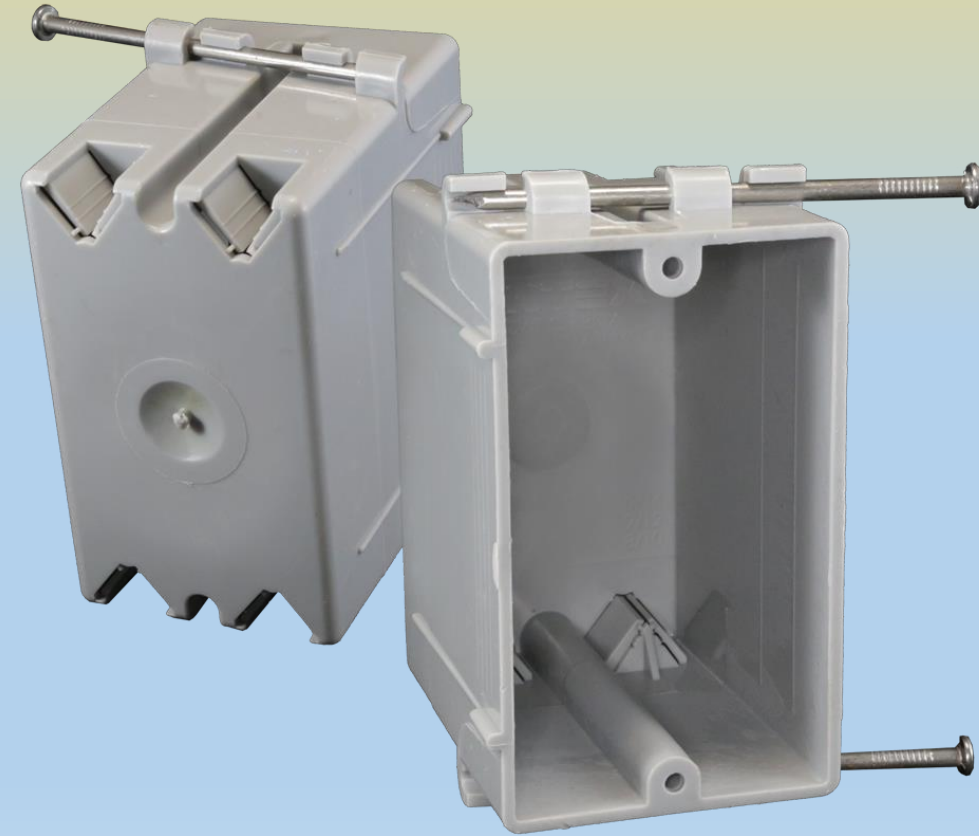
281. Strap hinge - Hinge used where major strength or support is required



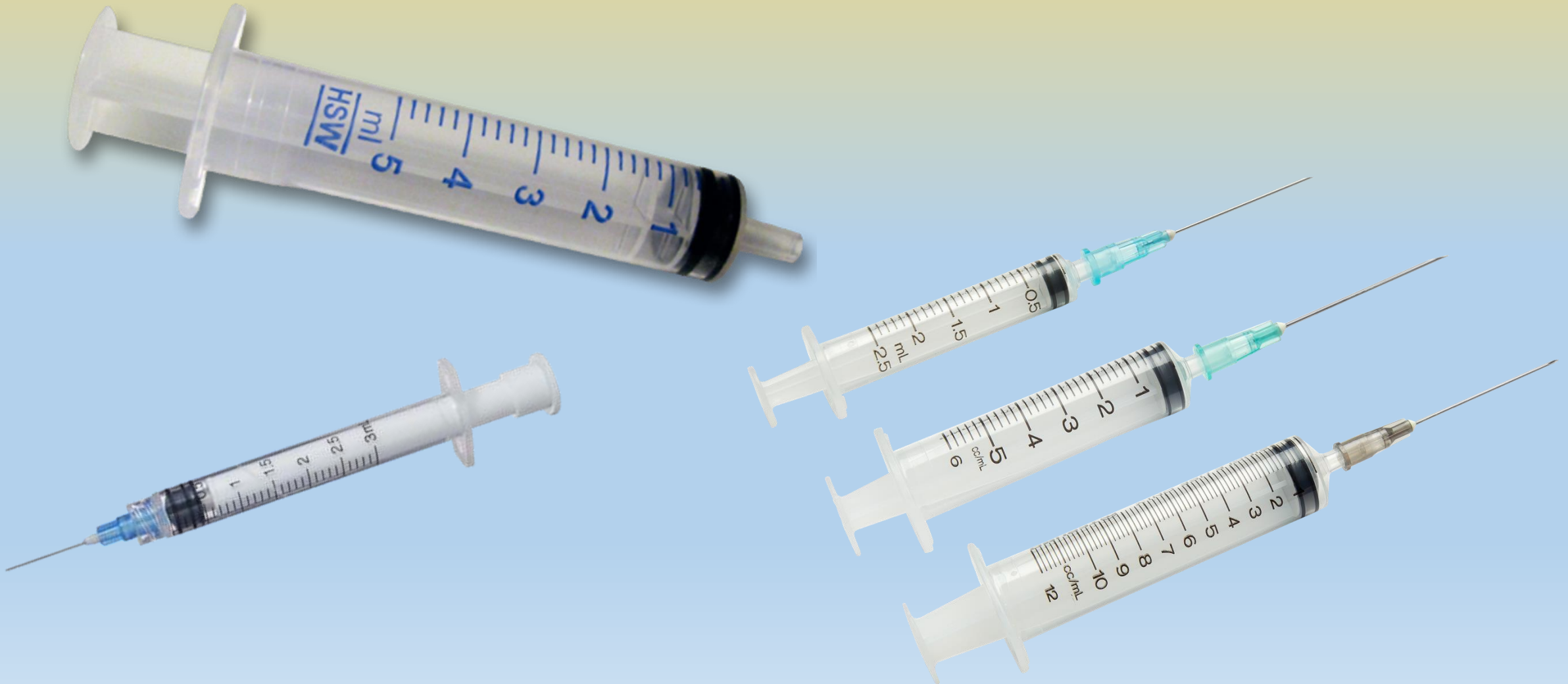
282. Sweep net – Used to collect insects from long grass



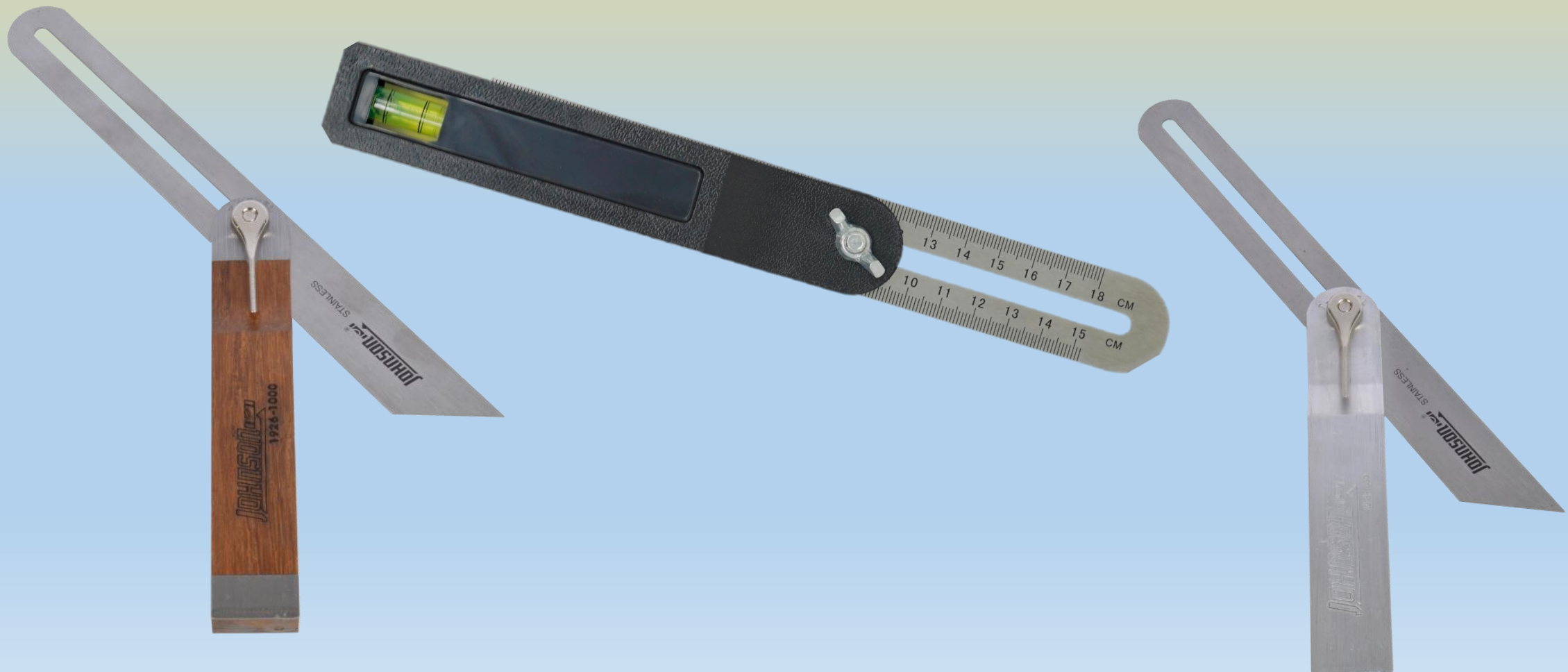
283. Switch box - Used to install toggle switches or duplex receptacles



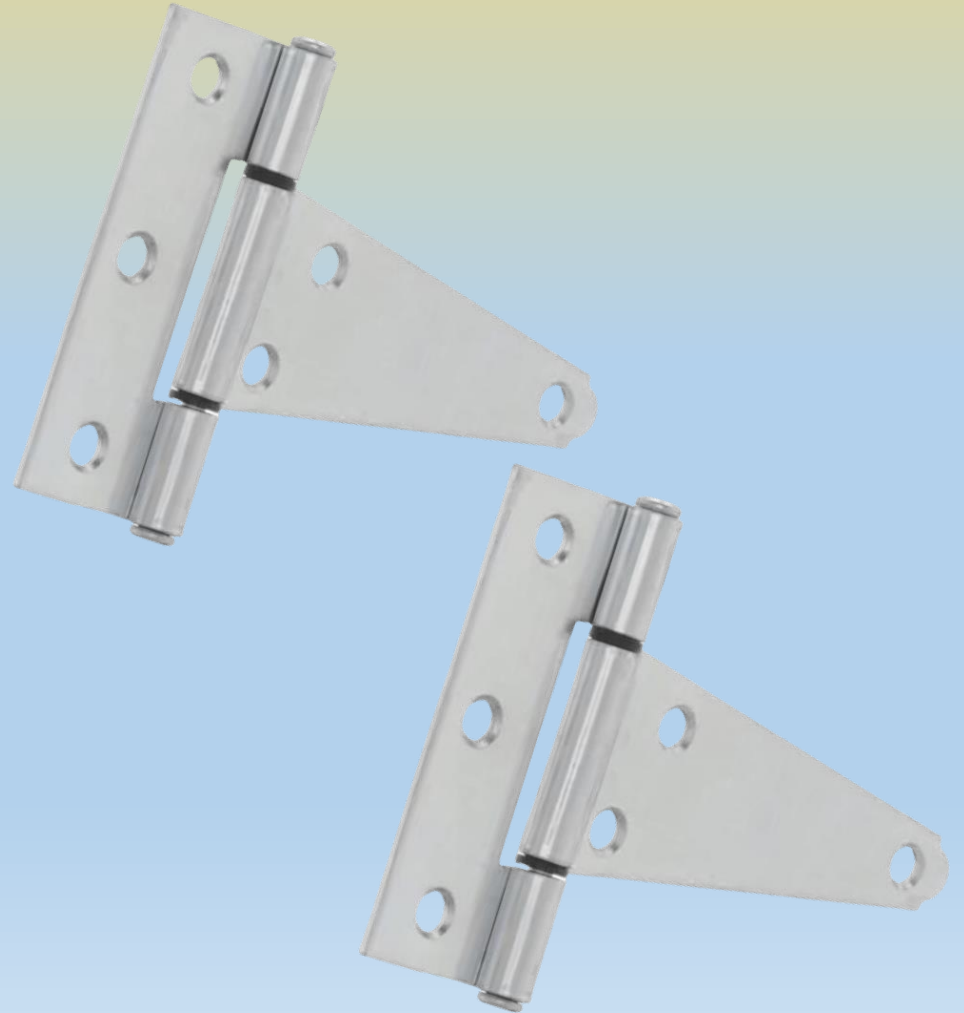
284. Syringe – Administering drugs and measuring liquids with a cylinder and plunger



285. T bevel – Adjustable gauge for setting or transferring angles



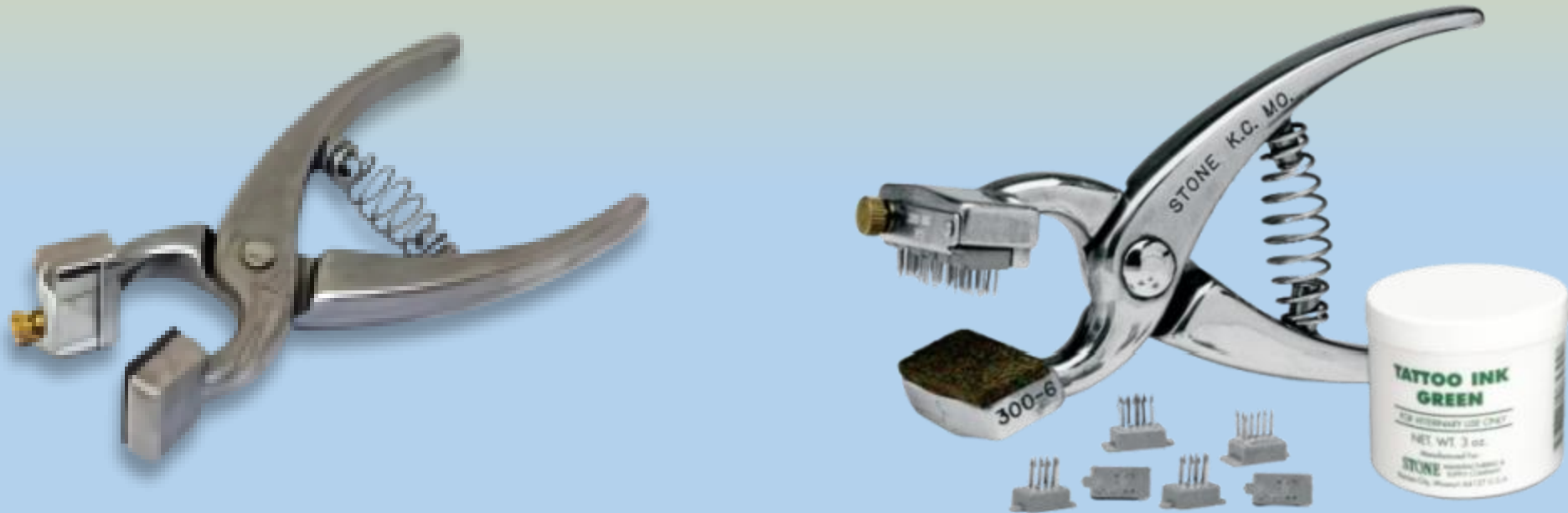
286. T hinge - Used where strength is required but one facing is narrow



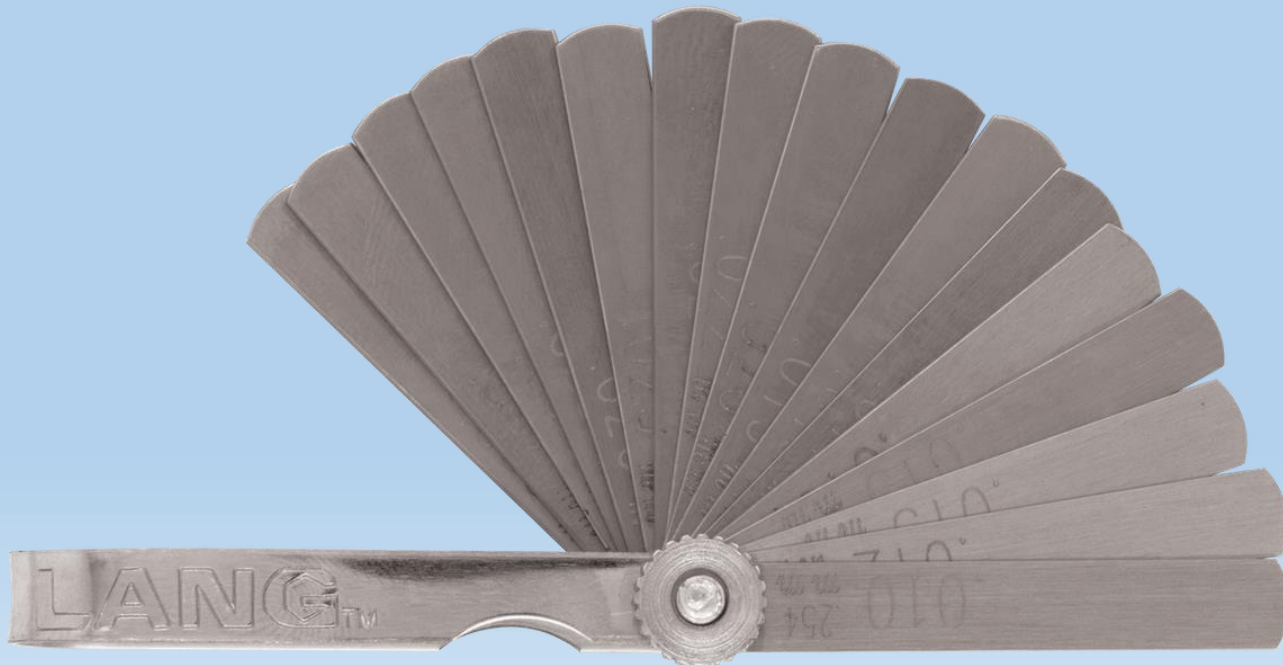
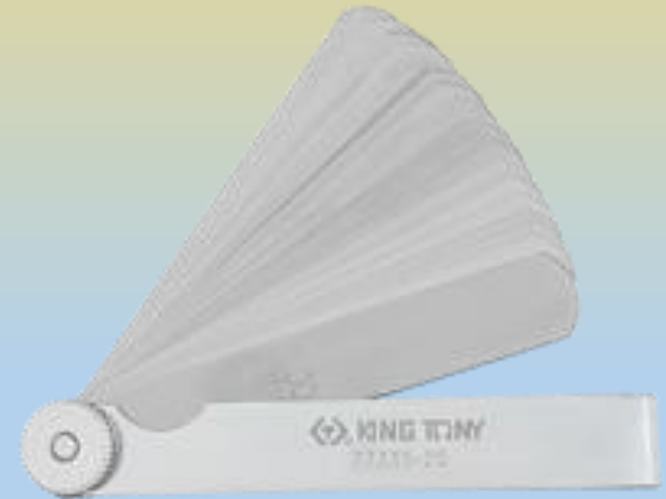
287. Tape measure – Used for straight or curved measuring



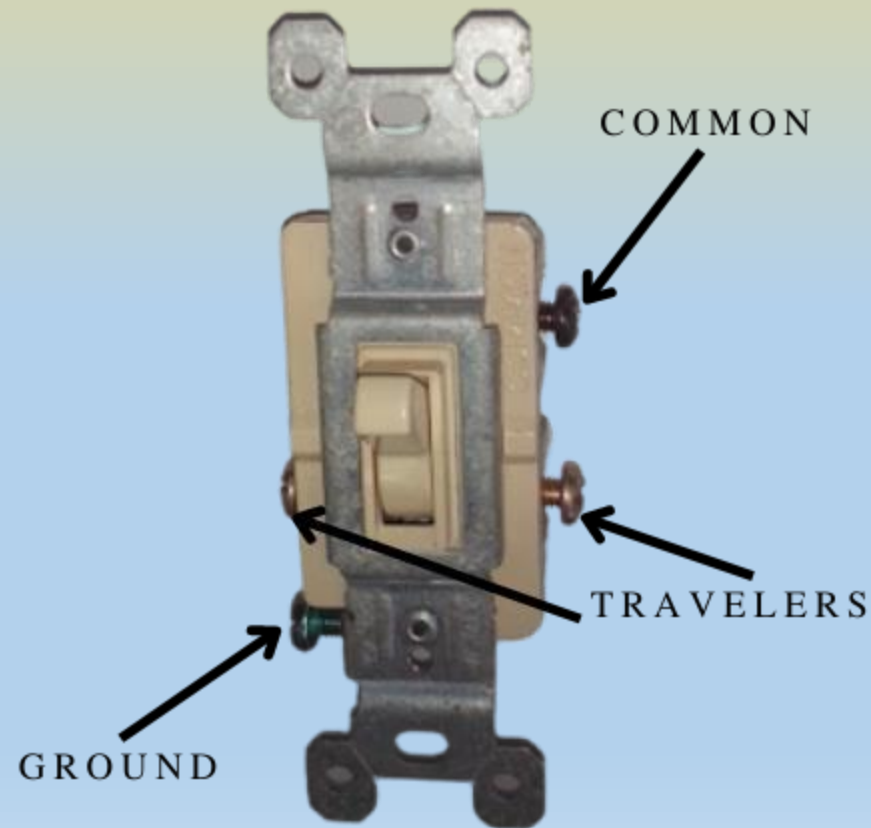
288. Tattooing instruments – Used to permanently identify animals with numbers and letters



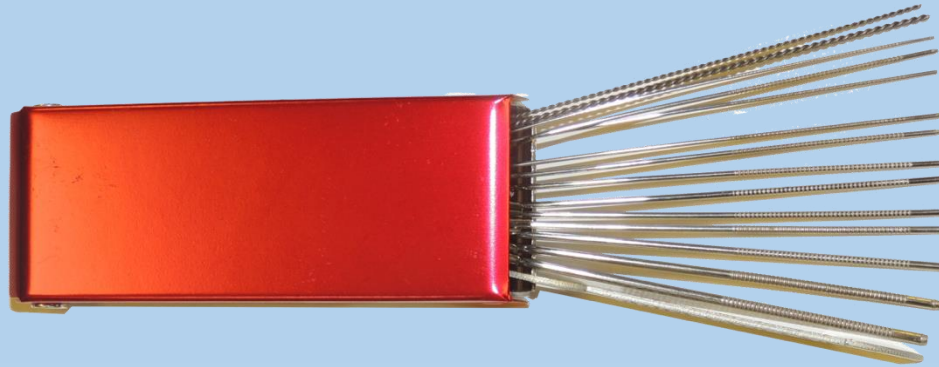
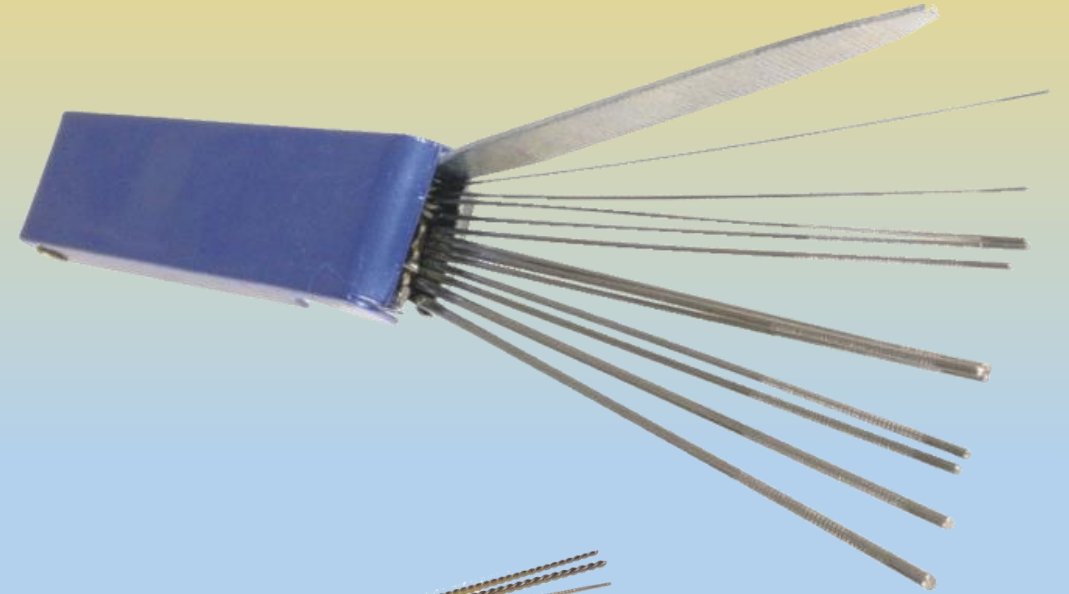
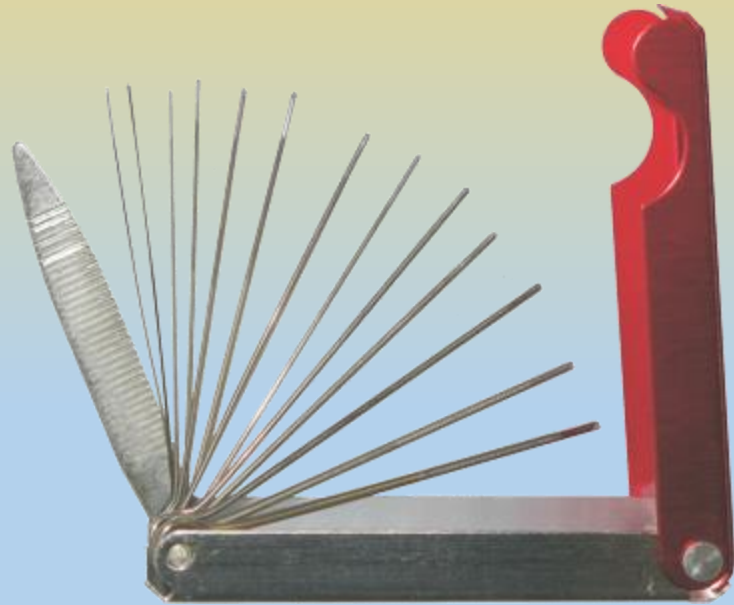
289. Thickness gauge - Determining gaps



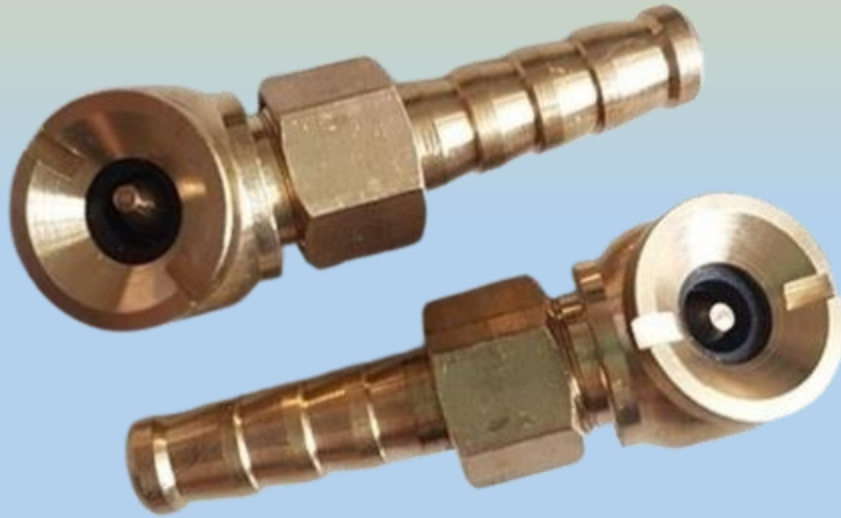
290. Three way switch – Turning current on and off from two locations



291. Tip cleaners - Cleaning welding and cutting tips



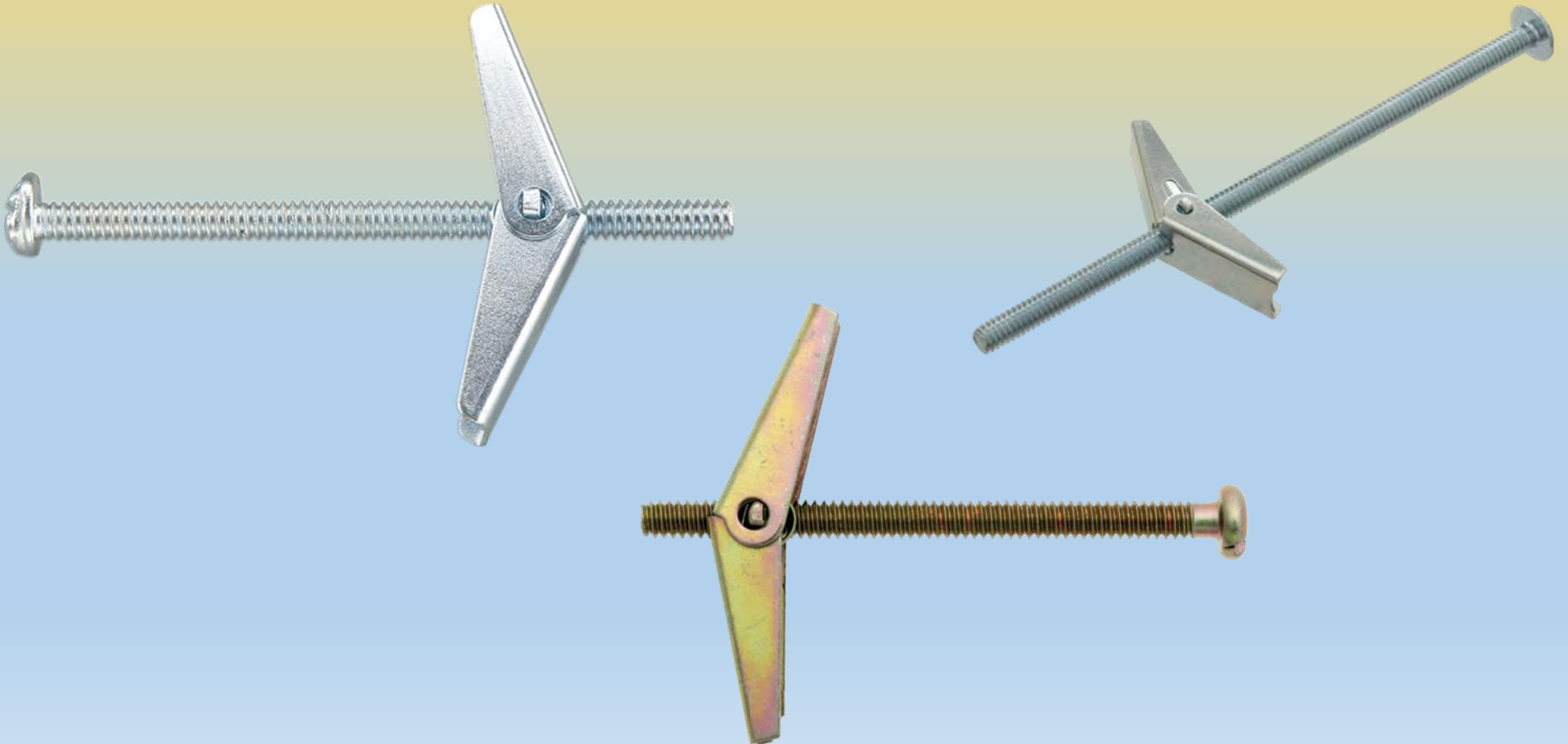
292. Tire chuck - Inflating tires



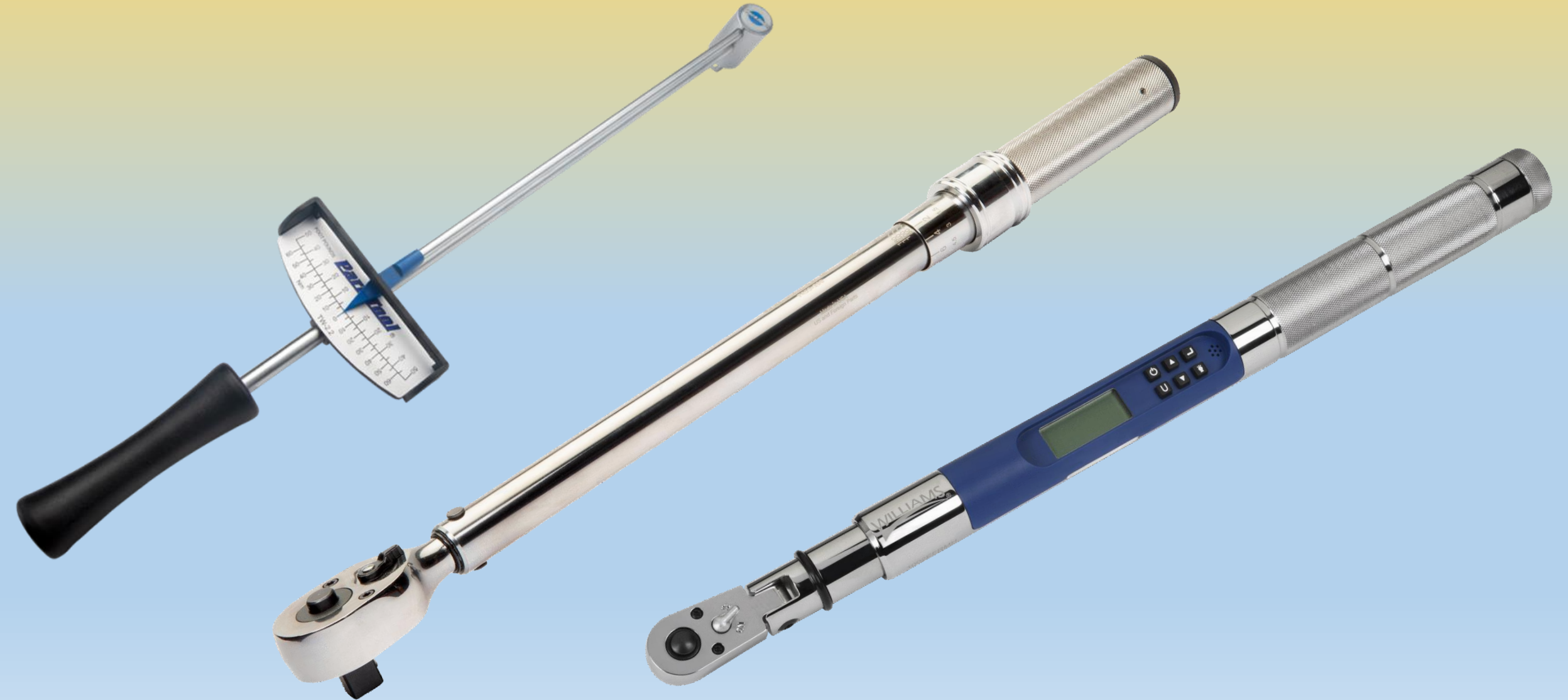
293. Tire gauge - Checking tire air pressure



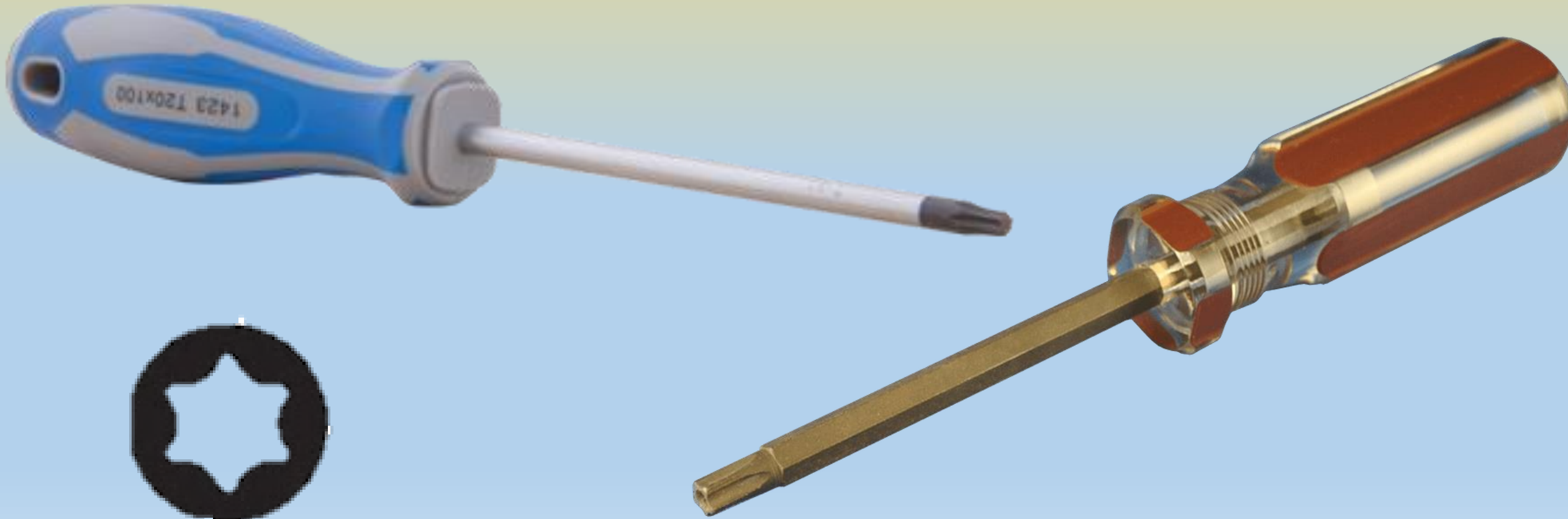
294. Toggle bolt - Anchoring into a hollow space



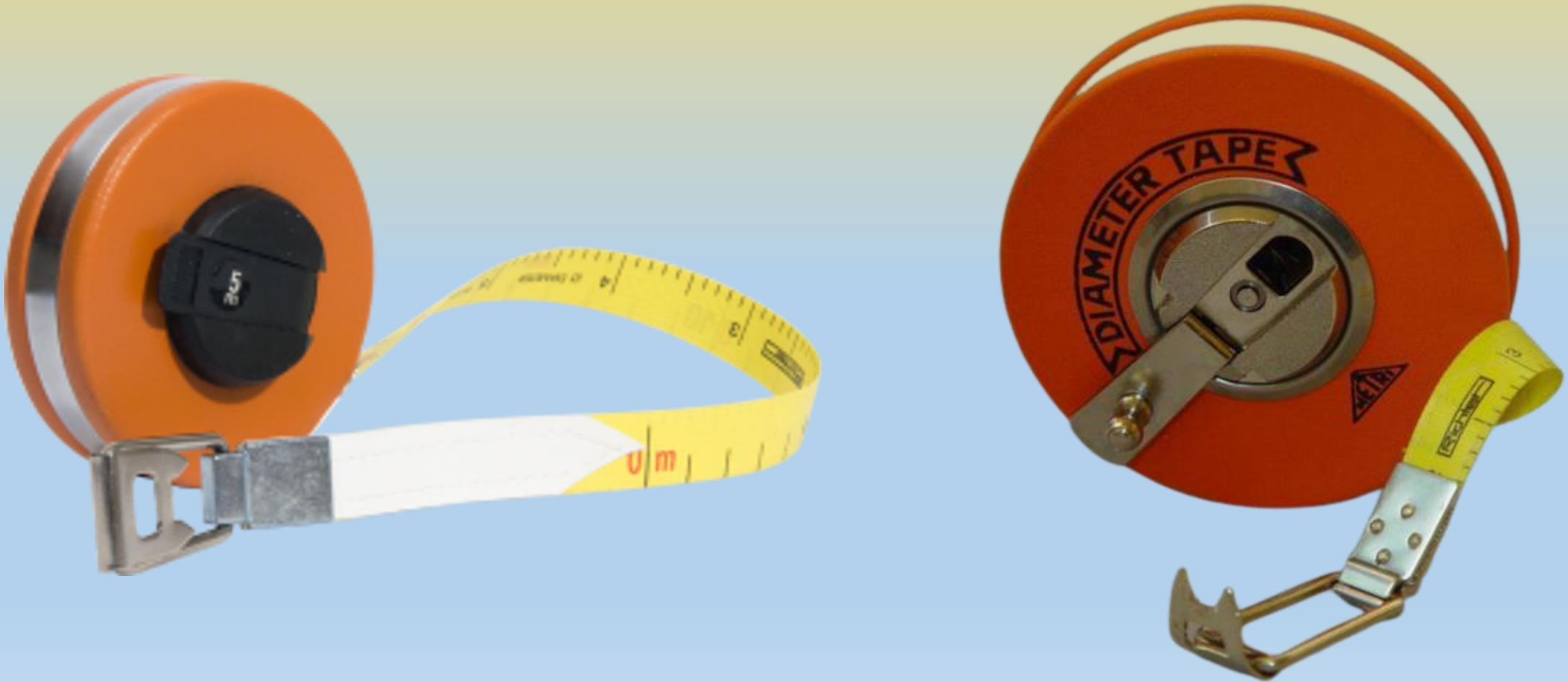
295. Torque wrench - Measure amount of torque



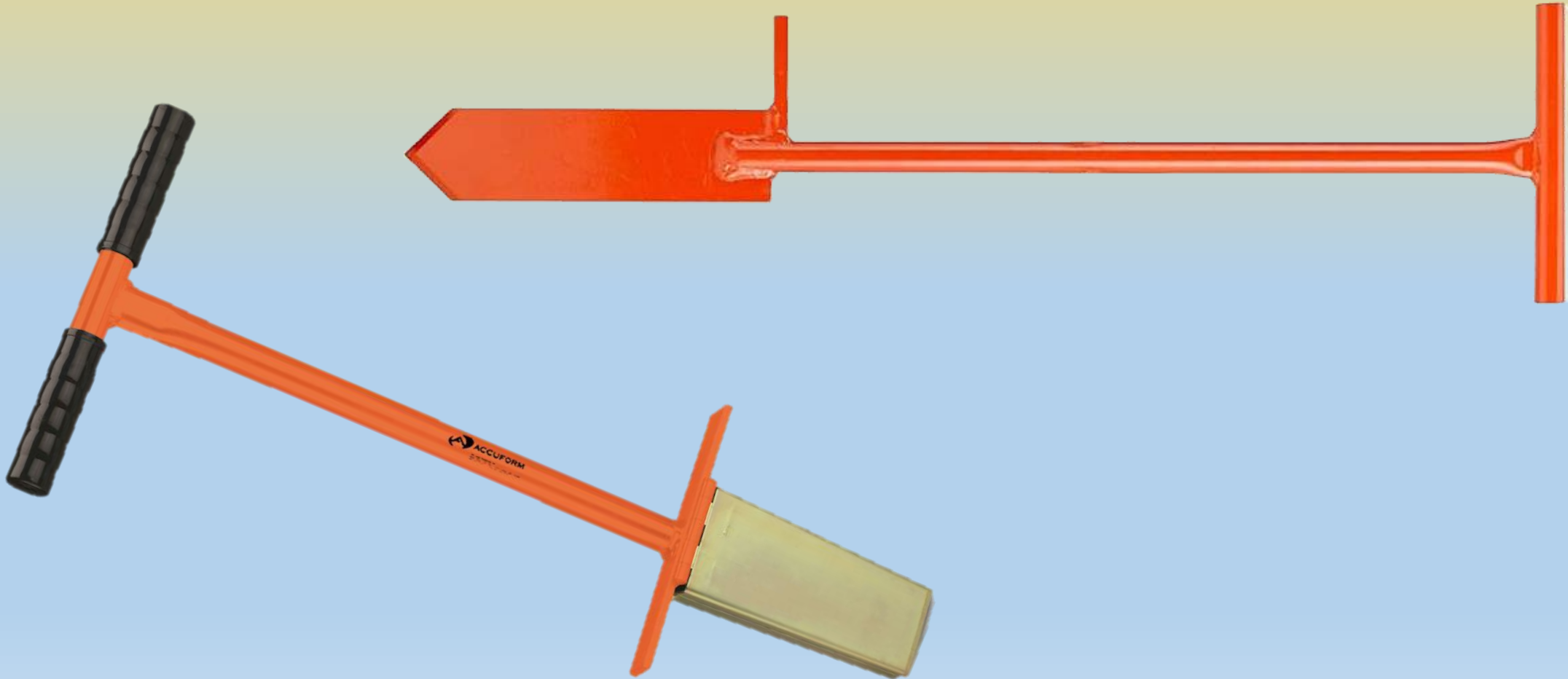
296. Torx screwdriver - Turning torx-head screws and bolts



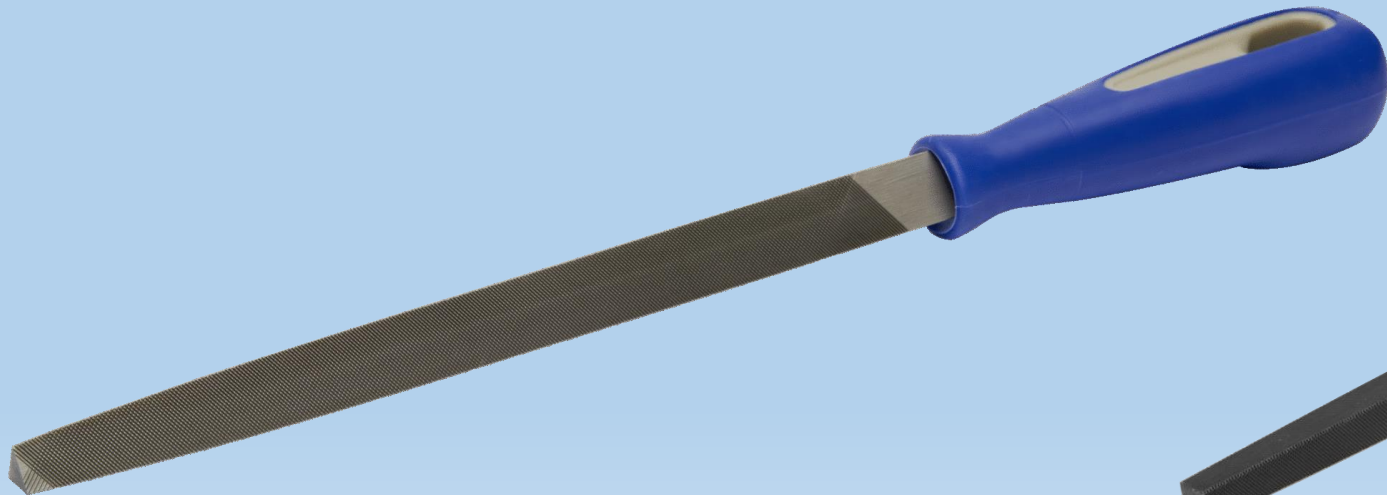
297. Tree diameter tape - Measuring circumference of tree



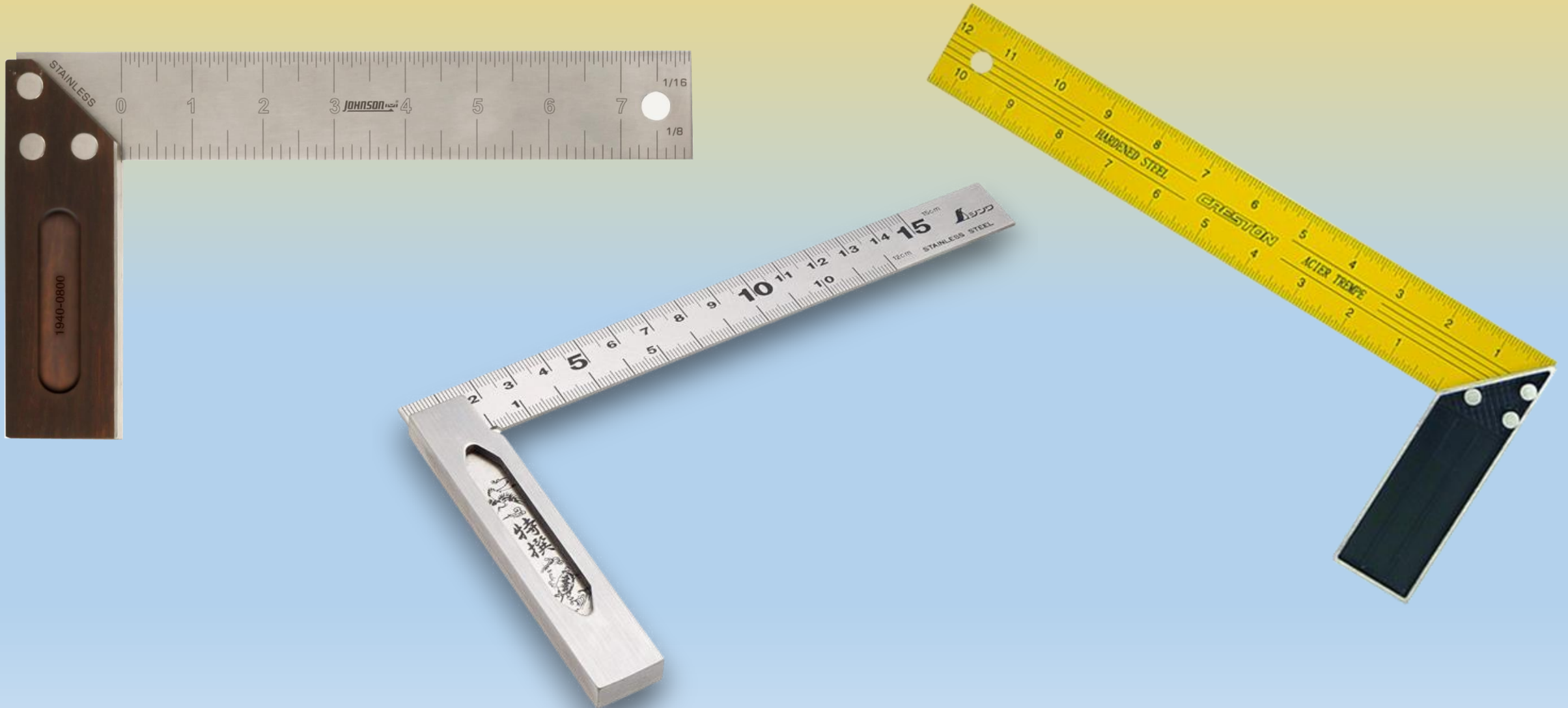
298. Tree planting hoe or bar - Setting out tree seedlings



299. Triangular file – Filing saws



300. Try Square – Squaring 90° angles



301. Tube cutter - Cutting soft tubing



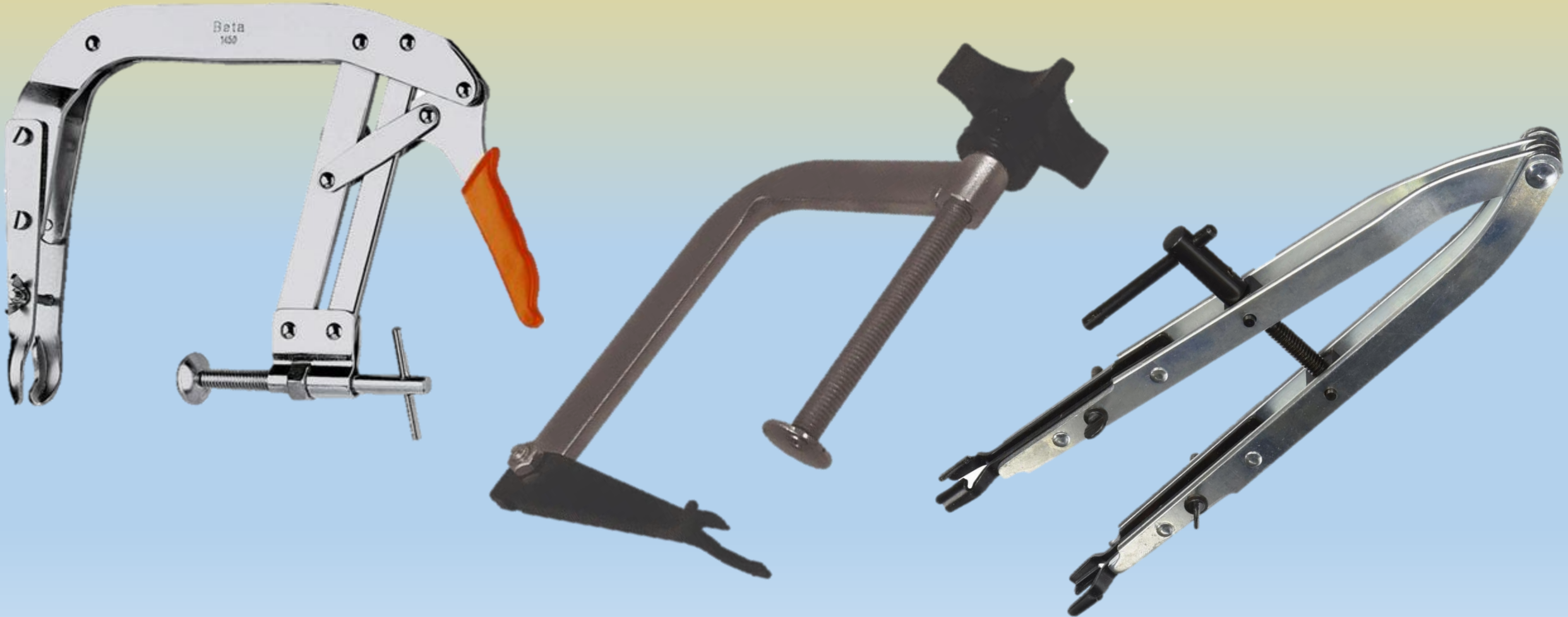
302. Universal joint - Holding socket for angled turning



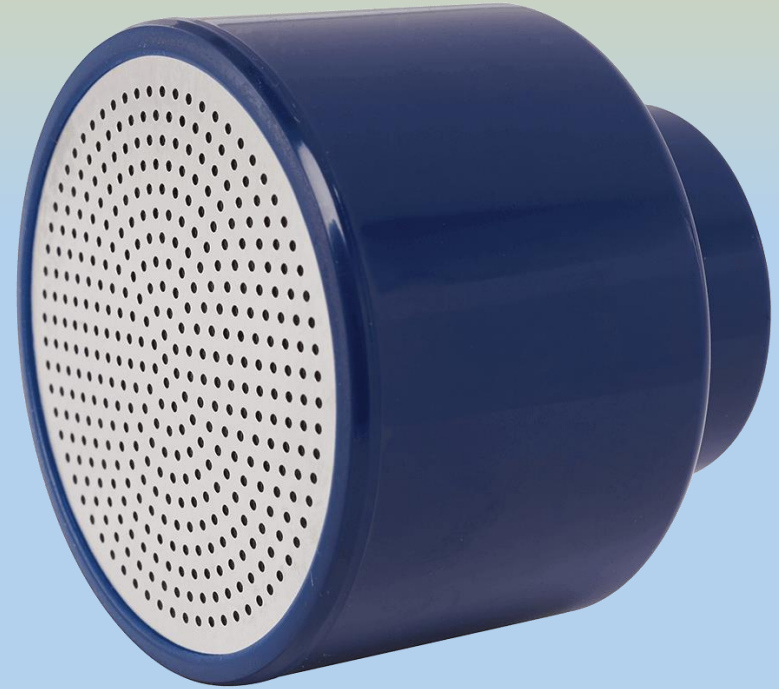
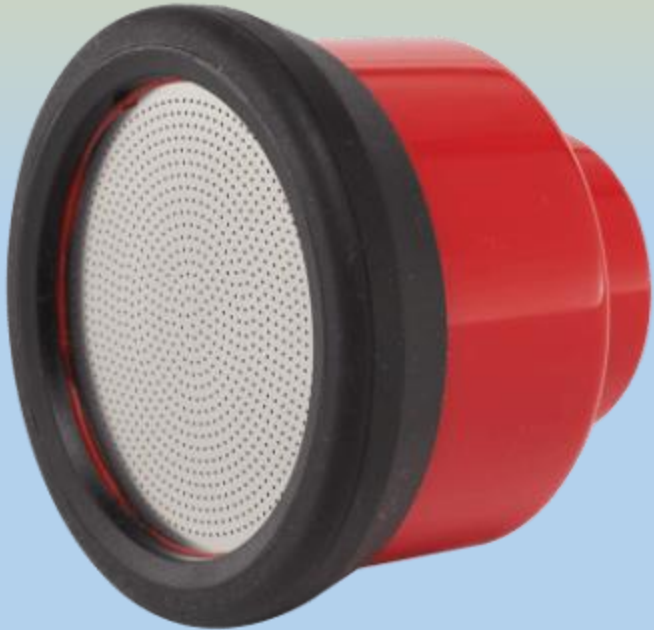
303. Universal socket - Socket used for angled turning



304. Valve spring compressor - Compressing valve spring for removal and insertion



305. Water breaker – Reduces the impact of water on soil and plants.



306. Welding gloves – Protecting welder's hands



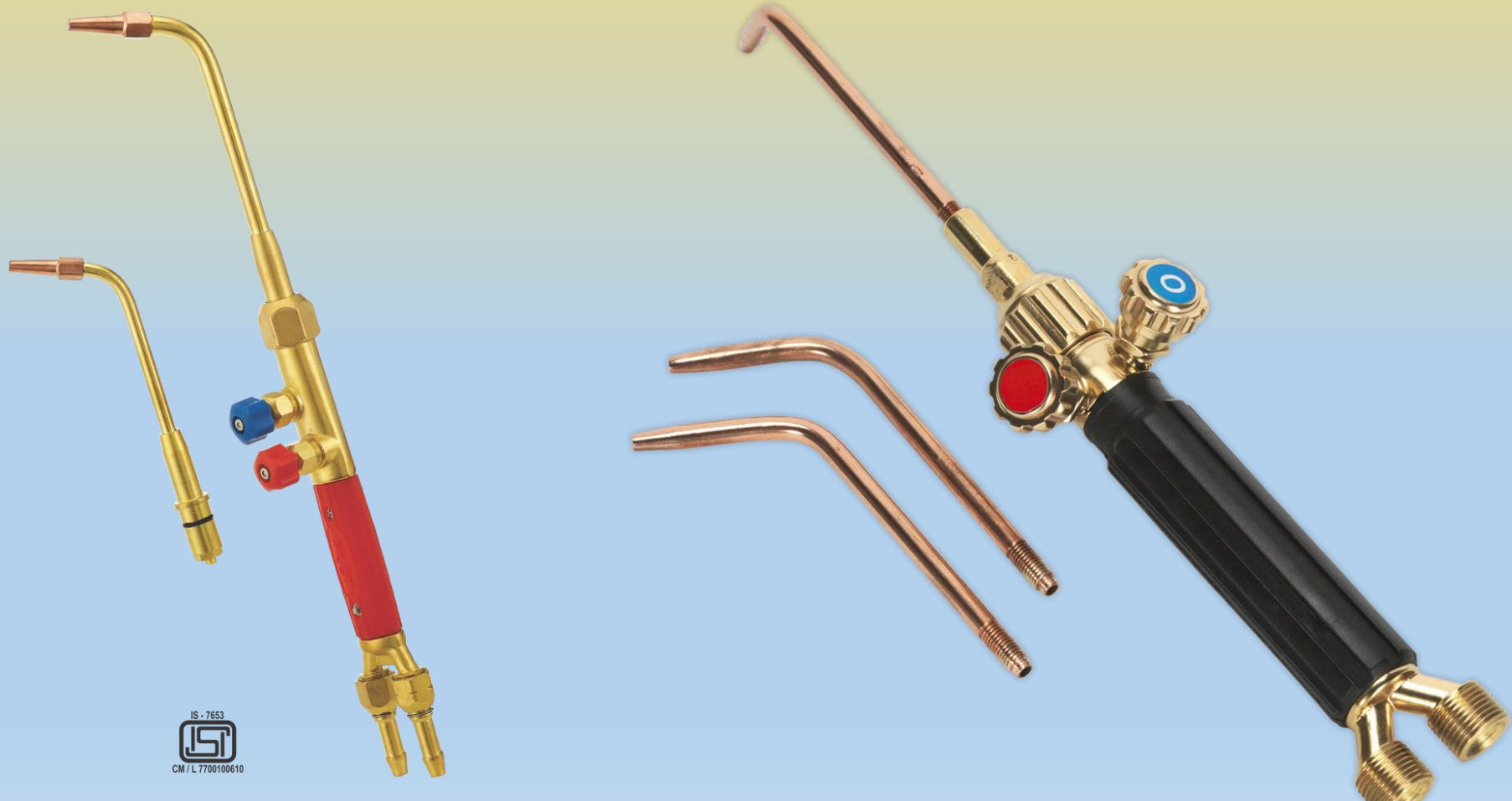
307. Welding goggles - Protecting welder's eyes



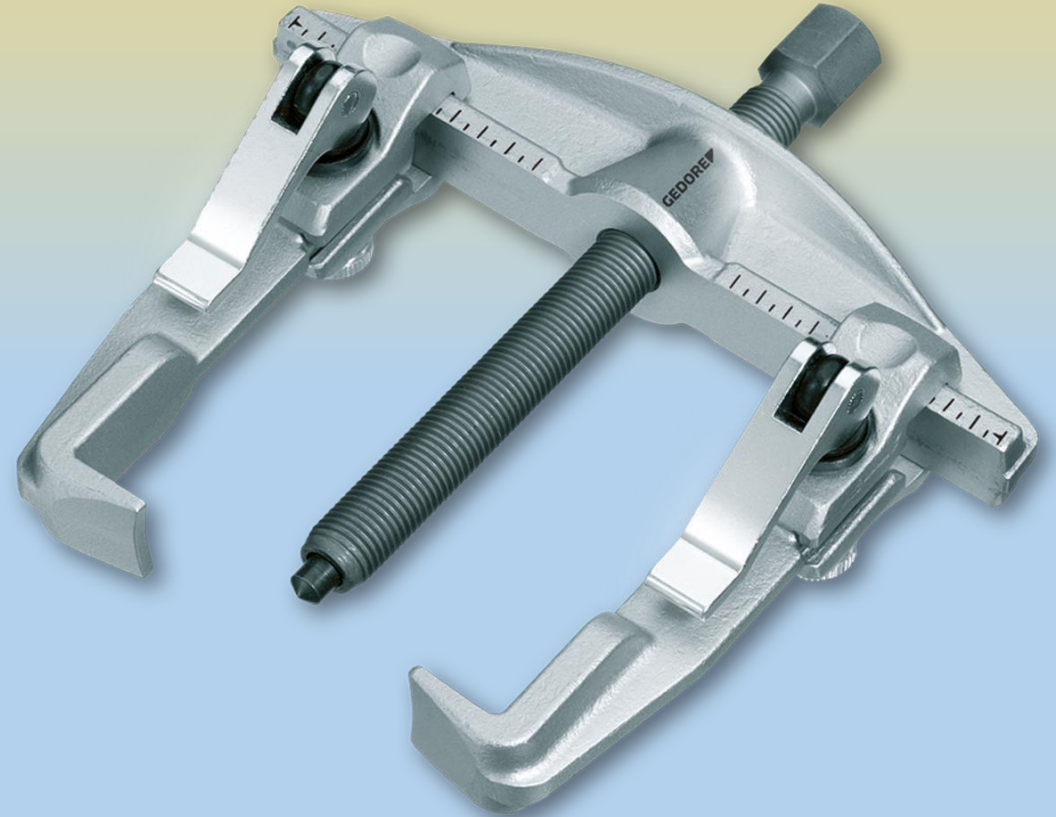
308. Welding helmet - Protecting face and eyes from welding flash



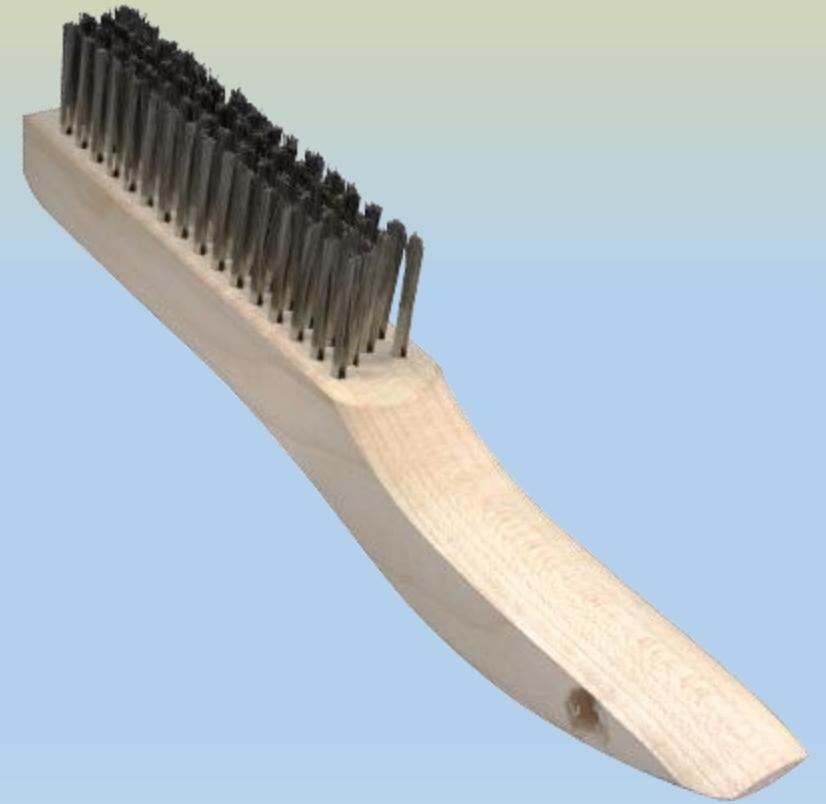
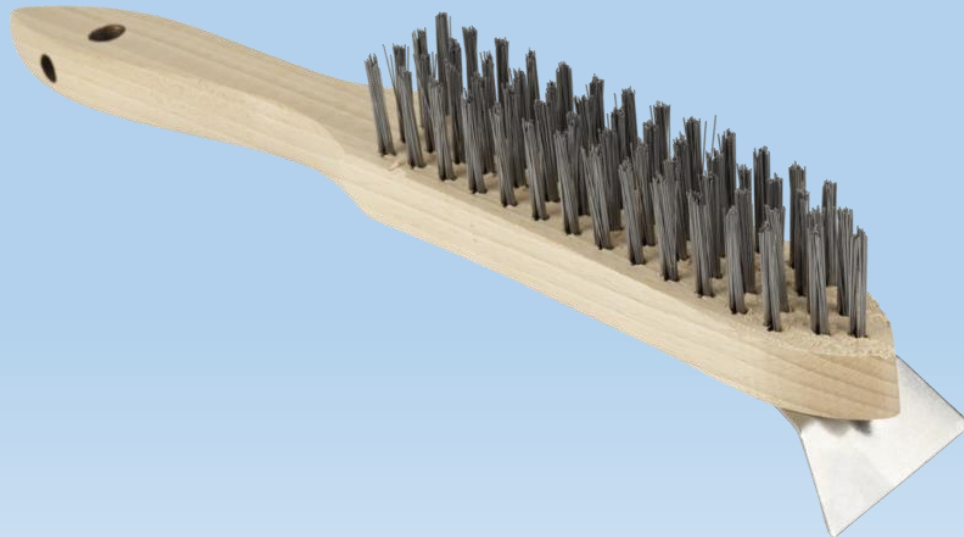
309. Welding torch - Heating and fusing metal



310. Wheel puller - Removing wheel from axle



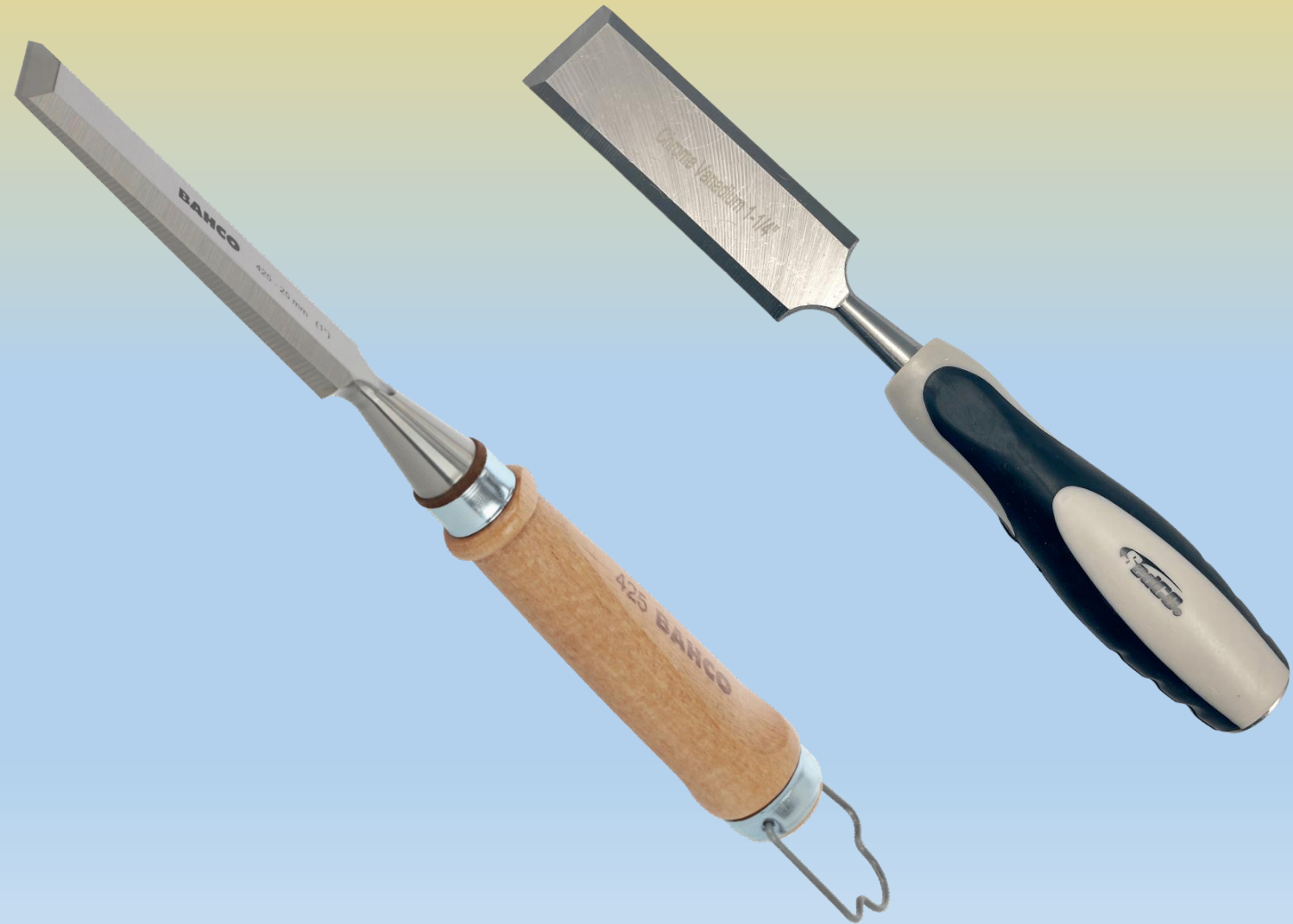
311. Wire brush - Cleaning metal



312. Wire strippers - Removing insulation from electric wire



313. Wood chisel - Dressing and shaping wood



314. Wood mallet - Driving non-metallic objects



315. Wrecking bar - Ripping and prying

