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Once very popular, versions of these spiral ratchet drivers using proprietary bits have been largely discontinued by manufacturers such as Stanley. The Frearson recess is designed so that any size bit will fit any size recess. The user pushes the handle toward the workpiece, causing a pawl in a spiral groove to rotate the shank and the removable bit. Archived from the original on 2014-07-07. p. 18. Phillips screwdrivers come in several standard sizes, ranging from tiny "jewelers" to those used for automobile frame assembly—or #000 to #4 respectively. With the Industrial Revival at the end of the Great Depression and the upheaval of World War II, the Phillips screw quickly became, and remains, the most popular screw in the world. See also List of screw drivers Wheel and axle References Citations ^ "Screwdriver | tool". The tip may be hardened to resist wear, treated with a dark tip coating for improved visual contrast between tip and screw—or ridged or treated for additional 'grip'. October 2011. Evidence is lacking for this specific narrative and the feature is not mentioned in the original patents.[10] However, a subsequent refinement to the original design described in US Patent #2,474,994[11][12][13] describes this feature. Archived from the original on 2011-09-26. Designs include indentations for the user's fingers, and surfaces of a soft material such as thermoplastic elastomer to increase comfort and grip. This helps the user tighten screws to a specified torque without damage or over-tightening. A wide variety of power screwdrivers ranges from a simple 'stick'-type with batteries, a motor, and a tip holder all inline, to powerful "pistol" type VSR (variable-speed reversible) cordless drills that also function as screwdrivers. Each bit size fits a range of screw sizes, more or less well. Some screwdrivers have a short hexagonal section at the top of the blade, adjacent to the handle, so that a ring spanner or open wrench can be used to increase the applied torque. ^ "Schraubenzieher « atlas-alltagssprache". In microwave ovens, such screws deny casual access to the high-power kilovolt electrical components, which are very dangerous. Archived from the original on 2021-08-20. The main cause of this trend is manufacturing efficiency: Torx screwdriver tips do not slip out of the fastener as easily as would a Phillips or slotted driver. The cabinetmaker's screwdriver is one of the longest-established handle forms, somewhat oval or ellipsoid in cross-section. The #1 and smaller bits come to a blunt point, but the #2 and above have no point, but rather a nearly squared-off tip, making each size incompatible with the other. This last usage can be confusing, because the term flat-head also describes a screw with a flat top, designed to install in a countersunk hole. Torx is one such pattern that has become widespread. Some other styles fit a three-pointed star recess, and a five-lobed spline with rounded edges instead of the square edges of the Torx. Some screwdriver tips are magnetic, so that the screw (unless non-magnetic) remains attached to the screwdriver without requiring external force. Robertson screw Canadian P.L. Robertson, though he was not the first person to patent the idea of socket-head screws, was the first to successfully commercialize them, starting in 1908. Robertson, also known as a square,[14] or Scrulox[15] screw drive has a square-shaped socket in the screw head and a square protrusion on the tool. (The taper's earliest reason for being was to make the manufacture of the screws practical using cold forming of the heads,[16] but its other advantages helped popularize the drive.) Robertson screws are commonplace in Canada, though they have been used elsewhere,[17] and have become much more common in other countries in recent decades. This is a screw standard throughout the Asia market and Japanese imports. ^ Chilton, G. Also, the Phillips screw slot is not as deep as the Reed and Prince slot.[18][19][20] In theory, different size R&P screws fit any R&P bit size.[21] Pozidriv and the related Supadriv are widely used in Europe and most of the Far East.[22] While Pozidriv screws have cross heads like Phillips and are sometimes thought effectively the same, the Pozidriv design allows higher torque application than Phillips. ^ Review, Princeton (2004). ISBN 978-0-375-76430-1. Cordless drills with speed and torque control are commonly used as power screwdrivers. Composite handles of rigid plastic and rubber are also common. Before the development of the newer bit types, the flat-blade was called the "Common-Blade", because it was the most common one. ^ Furniture Projects for the Deck and Lawn. The driver has a 57° point and tapered, unsharp (rounded) flutes. The "Perfect Pattern Handle"[further explanation needed] screwdriver was first manufactured by HD Smith & Company, which operated from 1850 to 1900. Japanese Industrial Standard (JIS) cross-head screwdrivers are still another standard, often inaccurately called Japanese Phillips. The shaft is usually made of tough steel to resist bending or twisting. ^ "Bits From MRO Tools". ISBN 978-0-7607-2719-5. The design is often criticized for its tendency to cam out at lower torque levels than other "cross head" designs, an effect caused by the tapered profile of the flutes which makes them easier to insert into the screw than other similar styles. p. 174. Testing and Understanding Screwdriver Bit Wear (Master's thesis). The offset screwdriver has a handle set at right angles to the small blade, providing access to narrow spaces and giving extra torque. ^ "Schraubenzieher". It is usually associated with a plain head for slotted screws, but has been used with many head forms. Furthermore, the term implies that a screwdriver has a "head"; it does not. It is a spline tip with a corresponding recess in the screw head. Comparison of Phillips and Frearson screw heads A variety of Robertson sizes Phillips and Pozidriv compared. Many manufacturers adopted this handle design. Retrieved 2021-08-09. Archived from the original on 30 May 2020. This form of the screwdriver has been replaced in many workplaces and homes with a more modern and versatile tool, a power drill, as they are quicker, easier, and can also drill holes. Interchangeable bits allow the use of powered screwdrivers, commonly using an electric or air motor to rotate the bit. Screwdriver with rubber handle The shape and material of many modern screwdriver handles are designed to fit comfortably in the user's hand, for user comfort and to facilitate maximum control and torque.

Another option are "cabinet" screwdrivers which are made of flat bar stock and while the shaft may be rounded, will have a large flat section adjacent to the handle which a wrench (often an adjustable) may be used on for additional leverage. 2004. ^ Rybczynski 2000, pp. 79–81. Compatible screw heads are usually identifiable by a single depressed dot or an "X" to one side of the cross slot. It is often claimed that they can apply more torque than any of the other commonly used cross-head screwdriver systems, due to a complex fluting (mating) configuration. Archived from the original on 2017-08-04. Such a flat-headed screw may have a slotted, cross, square recessed, or combination head. This is particularly useful in small screws, which are otherwise very difficult to attempt to handle. This design is also frequently used in jeweler's screwdrivers. Works cited Rybczynski, Witold (2000). One Good Turn: A Natural History of the Screwdriver and the Screw. Scribner, ISBN 978-0-684-86729-8. LCCN 00036988. OCLC 462234518. Phillips screw head Meanwhile, in Portland, Oregon, Henry F. At the time, the "flat bladed" screw type was prevalent and was the fastener with which they were designed to be used. Specialized patterns of security screws are also used, such as the Line Head (LH) style by OSG System Products, Japan, as used in many Nintendo consoles, though drivers for the more common security heads are, again, readily available. Robertson screwdrivers are easy to use one-handed, because the tapered socket tends to retain the screw, even if it is shaken.[17] They also allow for the use of angled screw drivers and trim head screws. Extension Course Institute, Air University. These often have a hollow handle that contains various types and sizes of tips, and a reversible ratchet action that allows multiple full turns without repositioning the tip or the user's hand. ISBN 978-0-240-81291-5. Refinement of the precision of screws also significantly contributed to the boom in production, mostly by increasing its efficiency and standardizing sizes, important precursors to industrial manufacture. They were probably invented in the late 15th century, either in Germany or France. The ratchet can be set to rotate left or right with each push, or can be locked so that the tool can be used like a conventional screwdriver. ^ Capotosto, Rosario (December 1996), "Screwdriver Basics", *Popular Mechanics*, 173 (12): 82–83, ISSN 0032-4558, archived from the original on 2017-02-16. ^ "When a Phillips is not a Phillips, step10: JIS – Japanese Industrial Standard". mrootools.com. Some companies now offer a modernized version that uses standard 1/4-inch hex shank power tool bits. Both the tool and the socket have a taper, which makes inserting the tool easier, and also tends to help keep the screw on the tool tip without the user needing to hold it there. ISBN 978-1-892836-17-5. Spiral ratchet screw drivers, often colloquially called Yankee screwdrivers (a brand name), provide a special mechanism that transforms linear motion into rotational motion. The screwdriver remained inconspicuous, however, as evidence of its existence throughout the next 300 years is based primarily on the presence of screws. Archived from the original on 2013-10-11. Look up screwdriver in Wiktionary, the free dictionary. Cracking the ASVAB. www.scribd.com. Another popular design was composed of drop-forged steel with riveted wood handles. To maximize access in space-restricted applications, the cabinet variant screwdriver blade sides are straight and parallel, reaching the end of the blade at a right angle. The most popular door hinge at the time was the butt-hinge, but it was considered a luxury. Archived from the original on 2014-09-03. ScrewdriverA slotted or "flat-blade" screwdriverOther namesTurncrewClassificationHand toolTypesSee List of screw drivesRelatedHex keyWrenchA screwdriver is a tool, manual or powered, used for driving screws. Retrieved 2011-09-28. (Slotted screws are rarely used in mass-produced devices, since the driver is not inherently centered on the fastener.) Non-typical fasteners are commonplace in consumer devices for their ability to make disassembly more difficult, which is seen as a benefit for manufacturers but is considered a disadvantage by users than if more common head types were used. History See also: Screws § History Slotted screws The earliest documented screwdrivers were used in the late Middle Ages. The increase in popularity gradually led to refinement and eventually diversification of the screwdriver. Retrieved 2014-09-14. ^ "Reed and Prince Screwdriver". ^ Adler, Alexander (1998-05-18). There were large, heavy-duty screwdrivers for building and repairing large machines, and smaller screwdrivers for refined cabinet work. A main attraction for the screw was that conventional slotted screwdrivers could also be used on them, which was not possible with the Robertson Screw. hd1:1091936701. Proper use requires that the screwdriver's tip engage the flare of a screw of the same size and type designation as the screwdriver tip. Modern plastic screwdrivers use a handle with a roughly hexagonal cross-section to achieve these same two goals, a far cry from the pear-shaped handle of the original 15th-century screwdriver.[according to whom?] Handle "Perfect Handle" screwdrivers The handle and shaft of screwdrivers have changed considerably over time. Phillips patented his own invention, an improved version of a deep socket with a cruciform (from the side of the tool). The socket-headed Robertson screws are self-centering, reduce cam out, stop a power tool when set, and can be removed if painted over or old and rusty.[17] In industry, they speed up production and reduce product damage. Each Phillips screwdriver size also has a related shank diameter. Screws were used in the 15th century to construct screw-cutting lathes, for securing breastplates, backplates, and helmets on medieval jousting armor—and eventually for multiple parts of the emerging firearms, particularly the matchlock. The tool is more documented in France, and took on many shapes and sizes, though all for slotted screws. Though their business ultimately failed, their contribution to low-cost manufacturing of the screw ultimately led to a vast increase in the screw and the screwdriver's popularity. Archived from the original on 2021-08-06. This approach creates a set of graduated slotted screwdrivers that fit a particular screw for a tighter engagement and reduce screw head deformation. Drive types Main article: List of screw drives A jeweler's screwdriver Screwdriver with magnetic tip A set of "secure" or otherwise less common screwdriver bits, including secure Torx and secure hex or "allen" variants. The Grip Book. Retrieved 2013-12-18. The more common type is sometimes called keystone, where the blade profile is slightly flared before tapering off at the end, which provides extra stiffness to the workface and makes it capable of withstanding more torque. ^ U.S. Patent 2,474,994 ^ US 2474994, Tomalls, Joseph & American Screw Company, "Screw Socket", published December 30, 1942, issued July 5, 1949 ^ "US Patent #2,474,994 Claims. Page 7". A typical simple screwdriver has a handle and a shaft, ending in a tip the user puts into the screw head before turning the handle. Avionic Navigation Systems Specialist. Variations Torque screwdrivers Screwdrivers are available—manual, electric, and pneumatic—with a clutch that slips at a preset torque. This size number is usually stamped onto the shank (shaft) or handle for identification. Robertson Inc. The cross in the screw head is sharper and less rounded than a Phillips, and the bit has 45° flukes and a sharper, pointed end. Many screwdriver handles are not smooth and often not round, but have flats or other irregularities to improve grip and to prevent the tool from rolling when on a flat surface. Retrieved 27 September 2018. ^ "Franz Kafka: In der Strafkolonie". This is called a Pentalobe. "Robertson Inc. The tool used to drive a slotted screw head is called a standard, common blade, flat-blade, slot-head, straight, flat, flat-tip,[6] or "flat-head"[7] screwdriver. The driver has a 57° point with a flat tip.[23] Many modern electrical appliances, if they contain screws, use screws with heads other than the typical slotted or Phillips styles. Various replications (paperback, e-book, braille, etc.) Henry Ford found them highly reliable and saved considerable production time, but he couldn't secure licensing for them in the United States, so he limited their use solely to his Canadian division. Depending on the application, the name of this screwdriver may differ. This is particularly useful as drilling a pilot hole before driving a screw is a common operation. Gunsmiths still call a screwdriver a turnscrow, under which name it is an important part of a set of pistols. Hand-Tool For Other uses, see Screwdriver (disambiguation). The shape has been popular for a couple of hundred years. Archived from the original on 2012-04-25. Socket screws rapidly grew in popularity, and are still used for their resistance to wear and tear, compatibility with hex keys, and ability to stop a power tool when set. This is variously attributed to improving grip or preventing the tool rolling off the bench. Retrieved from " ^ Rybczynski 2000, pp. 90–94. Thus, it is best to select a tip made to fit precisely to begin with, and avoid weakening the factory heat-treatment. Variations include impact drivers, which provide two types of "hammering" force for improved performance in certain situations, and "right-angle" drivers for use in tight spaces. Screws were very hard to produce before the First Industrial Revolution, requiring the manufacture of a conical helix. ^ a b c Rybczynski 2000, pp. 85–86. ^ "The Phillips screwdriver has about 30° flukes and a blunt end, while the Reed and Prince has 45° flukes and a sharper, pointed end." RECESSED www.tpub.com Archived 2009-04-08 at the Wayback Machine October 2011 ^ Michael Uva (2010). Archived from the original on 2011-08-27. The butt-hinge was handmade, and its constant motion required the security of a screw. Retrieved 2012-03-12. Taylor & Francis. Phillips offered his screw to the American Screw Company, and after a successful trial on the 1936 Cadillac, it quickly swept through the American auto industry. The name was common in earlier centuries, used by cabinetmakers, shipwrights, and perhaps other trades. One of their first major industrial uses was the Ford Motor Company's Model A & Model T production. Screws, hence screwdrivers, were not used in full combat armor, most likely to give the wearer freedom of movement.[further explanation needed] The jaws that hold the pyrites inside wheellock guns were secured with screws, and the need to constantly replace the pyrites resulted in a considerable refinement of the screwdriver. Cordless drills designed to use as screwdrivers often have such a clutch. Many screwdriver designs have a handle with a detachable tip (the part of the screwdriver that engages the screw), called bits as with drill bits. Cambium Press. Handles are typically wood, metal, or plastic[1] and usually hexagonal, square, or oval in cross-section to improve grip and prevent the tool from rolling when set down. One disadvantage of this design is that if the bit slips out of the screw, the resultant sudden extension of the spring may cause the bit to scratch or otherwise damage the workpiece. Though immensely popular, Robertson had trouble marketing his invention to the newly booming auto industry, for he was unwilling to relinquish his patents. Archived from the original on 2013-12-19. However, Torx and other drivers have become widely available to the consumer due to their increasing use in the industry. Originally the "Yankee" name was used on all tools sold by the North Brothers Manufacturing Company but later, after Stanley purchased the company, it became synonymous with only this type of screwdriver. - The Original Robertson Fastening System". Virginia Tech. instructibles.com. Many options and enhancements, such as built-in bubble levels, high/low gear selection, magnetic screw holders, adjustable-torque clutches, keyless chucks, 'gyroscopic' control, etc., are available. Since a wide variety of drill bits are available in this format, the tool can do double duty as a "push drill" or Persian drill. Drive tip Screwdrivers come in a large range of sizes to accommodate various screws—from tiny jeweller's screwdrivers up. Another type of security head has smooth curved surfaces instead of the slot edges that would permit loosening the screw; it is found in public rest room privacy partitions, and cannot be removed by conventional screwdrivers. ^ Richards, A.J.; Stephenson, J.H. (1984). Screwdriver tips are available in a wide variety of types and sizes (List of screw drivers). (2001). Robertson-head screwdrivers are available in a standard range of tip sizes, from 1.77mm to 4.85mm. Driving a screw with a cordless drill How to use a cordless drill as a powered screwdriver Ratcheting screwdrivers Stanley Yankee No 130A. spiral or ratchet screwdriver Some manual screwdrivers have a ratchet action whereby the screwdriver blade locks to the handle for clockwise rotation, but uncouples for counterclockwise rotation when set for tightening screws—and vice versa for loosening. New York: Random House. A screwdriver that is not the right size and type for the screw may damage the screw in the process of tightening it. Special combination drill-driver bits and adapters let an operator rapidly alternate between the two. Homebasics: the complete guide to running today's home. The tool's original names in German and French were Schraubenzieher[2][3][4][circular reference] (screwpuller) and tournevis (turnscrew), respectively. Archived from the original on 2021-08-09. The design is influenced by both purpose and manufacturing requirements.

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