I'm not robot!

Are you curious to know about the types of the milling cutters? Well, this article will give you the information about all milling cutters. So, what are you waiting for? Let's get started. Let us start first by knowing what is milling? Milling is a cutting process where we use a cutter to remove the material from the surface of a metal or work piece. This cutter which we use has multiple rotating cutters are of many sizes and shapes. Following are the types of milling cutters that we use in different milling machines: Roughing end mill Slab mill End mill cutter Hollow mill Ball mill cutter Involute gear cutter Face mill cutter Wood ruff cutter Some Cutter Some Cutter Some Cutter Some Cutter is used when you have to remove more amount of material from the work piece. By using roughing end mills, we obtain a rough surface finishing. Roughing end mills are also famous as "rippa" cutters. They are more beneficial commercially and are used in various industrial applications. 2. Slab Mill This type of cutter is used when you have to remove more amount of material from the work piece. By using roughing end mills, we obtain a rough surface finishing. Roughing end mills are also famous as "rippa" cutters. They are more beneficial commercially and are used in various industrial applications. 3. End mill more in the vertical milling processes. High speed steel or the cemented carbide are used to create end mills. High speed steel is also called as HS or HSS. The high speed steel doesn't loose its hardness when the temperature increases. Hence, due to better hardness the high speed steel is used to make end mills. The end mills are mostly used in plunging, tracer milling, face milling, etc. Torus cutters, etc. are the different cutters which are involved in the term end mill. 4. Hollow Mill They are also referred as hollow milling cutters. They look like a pipe having thicker walls. You will find the cutting teeth of the hollow milling cutters are used in the screw machines. 5. Ball Mill Cutters are also famous as ball nosed cutters. You can be easily identify as ball cutters as their end is hemispherical in shape. Ball cutters are used to decrease the stress concentration and are also known as ball end mills. Whenever there is a use of ball cutters to perfectly cut those three-dimensional shapes. Madhay University provide all types of Engineering Courses- - Mechanical Engineering - Civil Engineering - Computer Science & Engineering - Computer Applications - Electronics & Communication Engineering - Computer Science & Engineering you can download the whole article in PDF format. Milling cutter Types: The various type of Milling cutter Cylindrical Milling cu cutterHobbing cutterDovetail cutter and milling cutter is mostly used in the milling cutter is mostly used in the milling cutter should be selected which has the geometry and cutting-edge angle compatible with the job (workpiece) being machined so as to minimize side thrust, avoid tooth and shank breakage, minimize wear and maximize the material removal rate. 2. Periphery Milling Cutter: When the cutting teeth are present on the periphery of the circular disk then it is known as periphery mill cutter. Periphery Mill cutter can only be used for the Horizontal mill machine. 3. Side Milling Operations and face Milling operation. It is also used for cutting slots and milling deep and narrow slots. 4. Face Milling Cutter: Face mill Cutter consists of a large diameter cutter body with a number of mechanically fastened inserted tools. By making radially deep and axially narrow cuts a large volume of the material is removed. The diameter of the cutter body depends upon the length of the workpiece and the clearance available on either side of the workpiece. Face Mill cutters are used in the down Milling. Face Mill cutter is very rigid and the surface finish depends upon the feed rate and the number of teeth. 5. Gang Milling cutter: It is a type of cutter in which the peripheral milling cutters of the different sizes are cut together to remove the material simultaneously from the workpiece. 6. Staggered Mill Cutter: Staggered Mill Cutter is a type of formed cutter is a type of formed cutter is a type of formed cutter is designed to produce a specific shape on the workpiece. Concave Milling Cutter is a type of cutter which is shaped to mill a convex surface of circular contour equal to half a circle or less. 8. Cylindrical shape and has teeth on the circumferential surface only. 9. Hollow milling cutter: It looks like a pipe having thicker walls. The cutting teeth of the hollow mills on the inside surfaces. This cutter used in the screw machines. 10. Woodruff cutter: This tool used to cut the keyway for a woodruff key. It is slightly hollow-ground on the sides for relief and the teeth are not side cutting. The teeth come in both straight and staggered varieties. 11. Thread mill cutter: The thread is produced by doing a helical interpolation. The cutting process enables the production of threads from a nominal diameter of 1 mm (single profile), with multi-profile from M2. 12. Hobbing cutter: It is also is a cutting tool used to cut the teeth into the work piece. This is cylindrical in shape with helical cutting teeth. 13. Dovetail cutter: The dovetail cutter is an end mill whose form leaves behind a dovetail slot. 14. Ball cutter: It is also called as ball nosed cutters as their end are hemispherical in shape. It is used to decrease stress concentration. It is also used for cutting three-dimensional shapes. Milling Cutter Animated Video: Credit to SOUMEN SIR Brief Geometry of the Milling Cutter: The five important angles involved in the making of the millcutter are: Radial Rake Angel: The radial Rake angle of the milling cutter is equal to the Back Rack of the single point tool. Radial Relief. Axial Relief: If the radius of the cutter lies along the face of the mill cutter then it is said to have a zero Rake. Clearance Angle: A clearance Angle: A clearance angle is given to prevent the back of the tooth from rubbing against the workpiece. Generally, cutters having a diameter above 75mm will be given a clearance of 3 to 5 degrees. In the case of the small diameter cutters, a large clearance angle is given to eliminate the tendencies for teeth to rub against the job(workpiece). Clearance angle also depends upon the work material like for, Cast Iron (C.I): The clearance angle for the cast iron is 4 to 7 degrees. For soft Metal like Mg, Al, Brass the clearance angle is 10 degrees to 12 degrees. Milling Cutter Material: Material used for making up of the milling cutters are: High Carbon Steel is less used because the cutters made from it get dull quickly if high cutting speed and feed are used. Various grades of Highspeed steel are used extensively for the making of the cutter because they maintain a keen cutting edge even at high temperatures and thus can be easily used at high speed. Precautions should be followed when the use of Metal cutter in Milling Machine: The various precautions which should be followed while using a metal cutter are as follows: It should be stopped before setting up or removing the metal cutter or workpiece or any other accessories. In case if the cutting teeth are dull, then they should be sharpened using a cutter grinder. Bur should be removed from the mill cutter before using it for further milling process. All the chips should be removed from the cutter before using it for new milling process. The cutter when should be ensured that the teeth do not hit other cutters or metal parts. The workpiece and cutter should be kept as cool as possible and the cutter should be rotated in the right direction only. So Here we studied all the types and Material of Mill Cutter. Reference [External and Internal Links]: Related Articles: Milling Machine Cutter Definition Share on WhatsApp Share on Telegram Share on Facebook Share on Twitter link to Pneumatic System: Definition, Components, Working, Advantages [Notes & PDF] link to What is Pulley? Different Types of Pulley [Notes & PDF]

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