

CNC Lathe Mill Combo - Factors to Consider Before Purchasing

A lathe mill combo is nothing but a machine which performs all the functions of a CNC router, drill press, grinders and cutters. It essentially helps you to cut the raw materials into desired shape by utilizing special type of equipments. You place the desired material in question in the chuck, spin it around the CNC tools or blades and finally cut it down. This article explains about various types of these machines and their working.

A drill press, in the name itself defines the act of drilling with the use of a hand-operated drill or motor. In general, CNC lathe machines are also classified under drill presses and milling presses. A drill press normally consists of a table, work platform with spindle, motor and drill head.

A lathe mill combo machine is comprised of a table, work platform, spindle and drill head. The table is typically made of either plastic or metal and has some type of drawer or door arrangement. Spindle is the part of the machine that rotates and therefore is located on the work platform with its spindle mounted on the platform. Smithy lathe mill combo Drill head is the part of the tool that moves and is usually guided using a cam or solenoid system. It is generally powered by electricity or via a motor attached to the table.

CNC lathe machines offer infinite possibilities and are very useful for most of the tasks that need to be performed on the lathe. They offer accuracy along with speed for drilling, milling, planning, rebating and etc. A CNC lathe milling machine comes with a variety of built-in accessories that help perform all the above mentioned processes at a much faster rate than when manually controlled. CNC machining services providers offer CNC programming too for further enhancements to the tool and eliminate any possible errors while the process is being carried out.

Some CNC lathe mills combo machines include software that includes built in capability for material setting options that can control various cutting options like depth, width, height, and quantity of cut materials. Some machines include software that helps in accurate machining of profiles, walls and etc. CNC material mixing and cutting options help in making precise concentric circles and cut materials as per the client's requirements.



Before selecting the best lathe mill combo machine, it is important to take into consideration your business needs. A lathe that is suitable for your business will help increase your productivity as it enables you to produce accurate machining results within a short time. When you are deciding on purchasing a machine, always consider the kind of material you want to be cut and the types of cuts you are expecting to get. This will help you identify the best machine for your business. Some common materials that are used in CNC lathe operations are brass, aluminium, carbon fibre, chrome, carbon steel, titanium, steel, thermoplastic, and more.

In general, CNC machining machines are less expensive than other lathe machines. These machines not only save on labour costs but also make up for these savings with the precision, speed and consistency they provide. One should choose the machine based on the type of materials that are going to be cut. While there are many CNC machines available for most metals, brass remains the most popular due to its high resistance to corrosion and its overall value for money.

Another factor that has to be taken into consideration while purchasing a CNC lathe mill combo machine is the operating speed and RPM. The operating speed tells the user how fast the machine can run. The higher the operating speed, the faster the CNC machine can run. It's important to note that the higher the RPM, the drill will move at a higher velocity and hence produce a faster rotation.