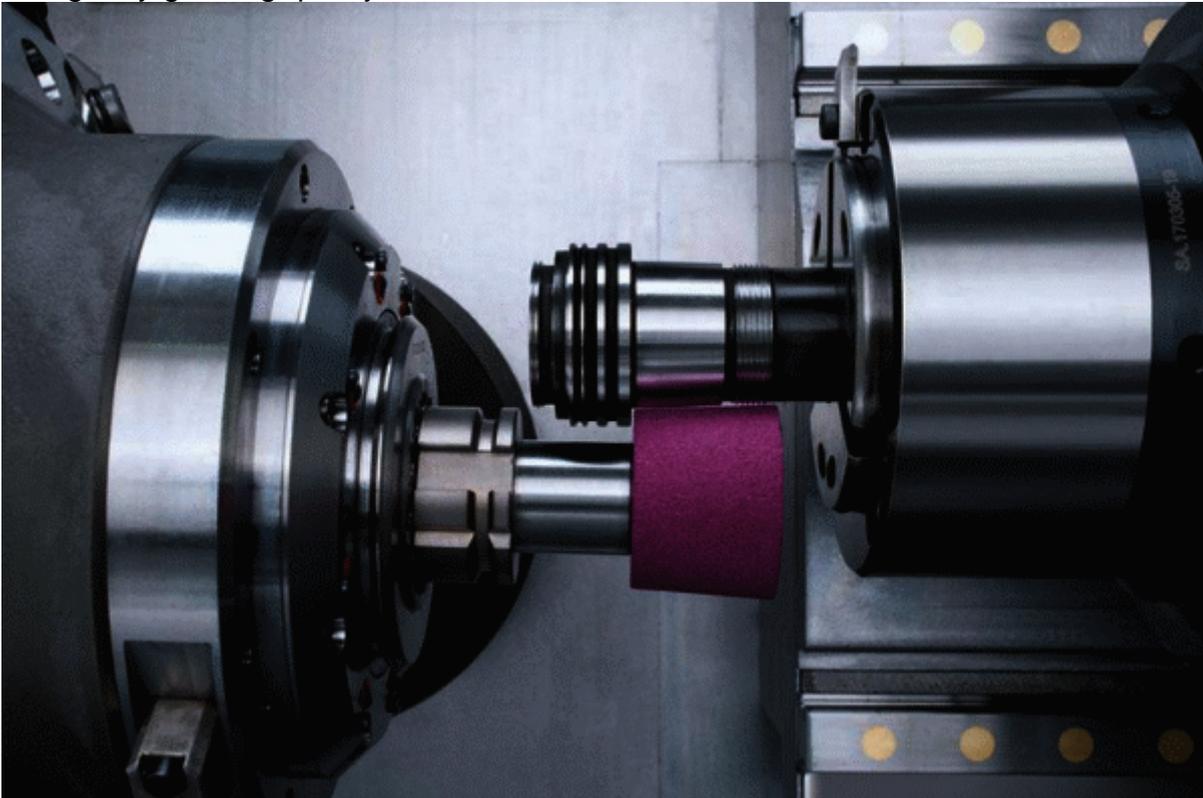


Grinding is An Important Mechanical Processing Method

Detail Introduction :

Grinding is an important mechanical processing method. It is widely used in many industrial production lines, such as abrasives, refractories, rubber, and other industries. The grinding mill is mainly composed of the main machine, an analyzer, a fan, a finished cyclone separator, and a pipe system. The mainframe has a horizontal cylinder, and the inner cylinder is equipped with a liner and a grinding body. The material enters the first warehouse of the mill through the hollow shaft of the feeding device. In this warehouse, there are ladder liners or corrugated liners that are made of different materials with different diameters of steel balls or cylpebs. When the cylinder rotates around the horizontal axis at a certain speed under the action of the transmission device, centrifugal force and friction force are generated between the grinding body and the lining plate in the bin. The material is impacted by grinding medium and ground into smaller particles, and then discharged from the outlet to enter another warehouse for regrinding. The powder is discharged from the discharge port through a spiral discharge line or a special discharge device to complete the milling process.

Grinding processing is an important means of finishing and an important method of efficient and powerful processing. With the development of grinding processing technology, grinding machines also occupy a large proportion of machining machines. Because of the advantages of high precision, high efficiency, the ability to process complex surfaces, and the ability to improve labor conditions and reduce labor intensity, CNC grinders are becoming more and more popular in the machining industry. In recent years, sufficient attention has been paid to the technical advantages and economic benefits brought by grinding quality.



The grinding process is completed continuously by thousands of grinding grains with tiny cutting edges together, however, it is very difficult to observe and analyze the grinding process experimentally due to a large number of grinding grains, irregular geometry, high grinding speed, and small and inconsistent grinding depth of cut of each grinding grain. With the widespread application of

CNC high-precision grinding technology, it is necessary to study its grinding.

With the widespread use of CNC high-precision grinding technology, it is necessary to study the error distribution pattern of its grinding parts, the causes and influencing factors of the error, and the degree of influence, in order to seek the grinding processing parameters that can improve the grinding accuracy to the best match under the grinding conditions allowed by the grinding process, so as to improve the grinding productivity, which is of great importance to systematically carry out and promote various advanced and practical grinding technologies.

To ensure and improve machining accuracy is actually to limit and reduce machining errors. The purpose of studying machining accuracy is to study how to control various errors within the specified tolerance range, to master the law of influence of various factors on 3 σ -v accuracy, to find measures to reduce machining errors and improve machining accuracy, to ensure the performance requirements of products, to reduce production costs, and to ensure the machining quality of parts.