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Of metallic cutting cutting tool wear away to reach precautionarymeasures with damaged mechanism.

One, summarize metallic cutting cutting tool wear away and oneof main factors that damaged is influence machining quality, theindex such as quality of the exterior surface roughness that itaffects work directly, precision, surface and manufacturingefficiency. As the development of science and technology, tallerand taller to the performance demand of metallic cutting cuttingtool, if high-speed steel already replaced data of hard alloypredominate gradually; Knife of pottery and porcelain also gets applied extensively. Because how this improves the service life ofmetallic cutting cutting tool, already made one of tasks that solveurgently currently. Fall in normal working requirement (includenormal grinding), service life of common lathe tool is5000~8000h; Establish milling cutter service life to be 3000~4000H about; Broach life is 1000~2000 H; The normal life of reamer isrestricted to make an appointment with 500 H. The mean life ofknife of be open to traffic of our country general has 1500h to control only, the life that establishs milling cutter has 800h only,broach is 400h left and right sides only, reamer also has 300~400d only. The damage of main shaft bearing of major lathe ofvisible our country is serious, the time that its reason uses as aresult of main shaft bearing namely is too long cause.

2. Tatty reason:

- 1. The as acuteness as cutting blade generation attrition whencutting the attrition between bits and cutting blade to cut bits toenter grooving makes workpiece surface appears burr or thephenomenon that pull hair calls adhesive wear (Corollage).
- 2. The action of cutting force can make in the radial load of thegeneration when rough machining thetiny protruding stage ofworkpiece surface is excised to form channel mark to call cut(Scratch).
- 3. The formation of the tumour that accumulate bits because theform of the spare parts is complex and appearance is changefuland a few little protuberant thing can arise to say below theinfluence of the element such as six to one of each partdimension accumulate bits tumour " for " . These young protuberant other people are met block up the happening that thevibration that run normally and increased a machine tool of themachine tool reduced the performance characteristics of themachinetool to cause equipment trouble even thereby.

3. Prevent a method:

- 1. Type of logical choice razor blade chooses right bit stuff to reduce its wearability according to the hardness of different material in order to prolong its service life. (for example: Hard alloy can use the tool that makes all sorts of high accuracy bit.)
- 2. The exterior mass that the craft parameter with logical choice employs the craft parameter such as quantity of penetration of a cutting tool of reasonable feed, back and tool cutting edge angle to improve work makes efficiency with carrying a senior engineer. (the horn after the horn before using small feed to be helpful for reducing for example increases in order to decrease before rush and regressive distance)
- 3. Correct installation places cutting tool of type numerical control with use machine.
- 4. Strengthen job of daily care and maintenance.

Above these are small make up smallness relevant knowledge, the hope is helpful to you!