

### Single Stroke Diamond Honing Reamer

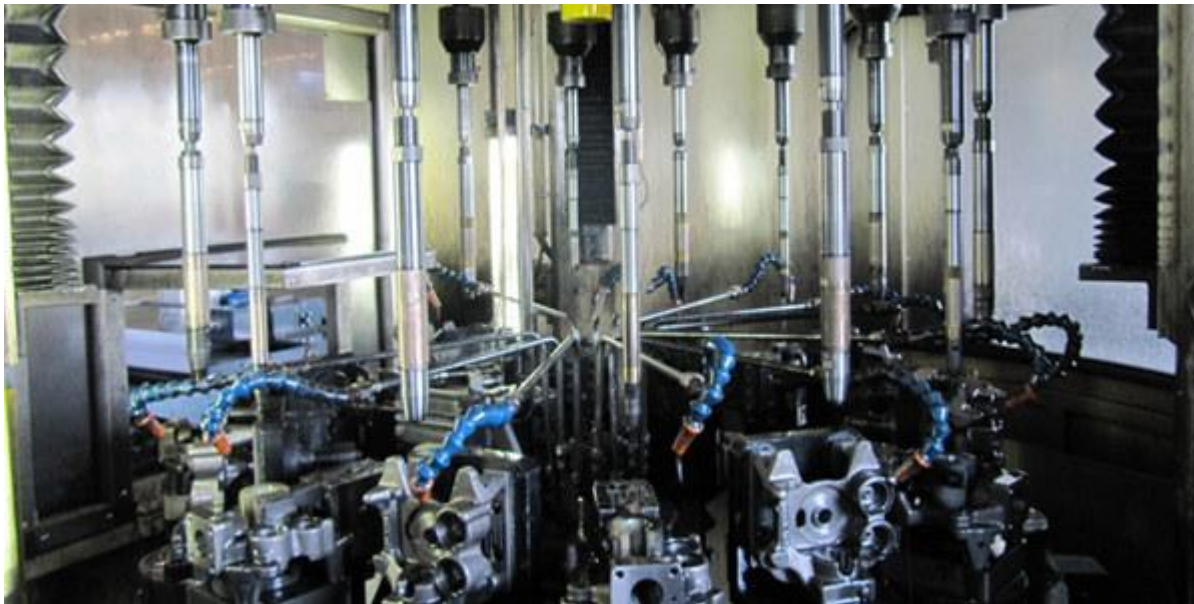


Application: Single Stroke Diamond Honing Reamer has been adopted in automobile, tractor, power machinery, construction machinery, refrigeration machinery and aerospace industry.<br>Hinge honing has the advantages of high efficiency, good surface quality and high dimensional consistency.

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Single stroke honing process means that the honing head slowly enters the hole of the workpiece under high speed rotation, and then slowly exits the hole at the same speed. Through the cycle of "one in", "one out", hole honing is completed. Since the cutting process is mainly completed by the honing head in a single stroke, the honing process is called single-stroke honing. The single stroke electroplated diamond honing tool ensures the geometric accuracy, dimensional accuracy and surface roughness of the honing hole. Each electroplated diamond tool hones the part only once, removing the preset margin, gradually increasing the aperture of the part until the last shaft, and the part is honed to the desired aperture, precision, and desired roughness.

### Application of Single Stroke Diamond Honing Reamer:



Single Stroke Diamond Honing Reamer is also called sequential honing or diamond hinge honing tool, it is a new process of micron precision machining, can process through hole, blind hole, keyway hole, step hole and other hole.

It is the engine injection pump, connecting rod, fork, hydraulic valve body, valve sleeve, air bearing, precision gear, die guide sleeve, air conditioner compressor main and auxiliary bearings, refrigerator compressor shaft hole (cylinder hole), piston, measurement ring gauge and other high-precision internal hole processing products commonly used technology. In recent years, single-stroke honing technology has been adopted in automobile, tractor, power machinery, construction machinery, refrigeration machinery and aerospace industry.

The circular surface of the honing reamer is coated with a layer of high grade diamond abrasive of equal particle size. The honing reamer cone sleeve and the blade are fitted with a small taper. By changing the matching position, the outside diameter of the reamer can be changed. The honing reamer can be adjusted in this way. The honing reamer can achieve micron level grinding, the finest honing reamer can go to a micron margin.

The honing reamer is equipped with reasonable joints, tools and machine tools, which can achieve the ultra-high precision of the inner hole: cylindricity: 1 micron. Roundness: within 1 micron. Roughness: within Ra0.1. Tolerance: within 1 micron. Honing reamer USES diamond grinding to process high hardness materials, such as hardened steel, hard alloy, ceramics.

#### **Advantage of Single Stroke Diamond Honing Reamer:**

After honing, inner hole size consistency is high, cylindricity is very good.

Hinge honing has the advantages of high efficiency, good surface quality and high dimensional consistency.

Stable quality, high precision, long service life

The use of single stroke tools is limited by the type and volume of the processed material. The honing amount cannot exceed the adjustment range of the diamond abrasive sleeve. Therefore, it is suitable for honing holes with small margin. Used to honing cast iron and steel.

The dimensional accuracy of one-way honing process can be generally up to 2, the geometric accuracy (roundness, cylindricity, straightness) can be stable within 3, and the surface roughness Ra value is 0.2-0.6 Single stroke tool, using imported abrasive, high cutting efficiency, fast processing and high precision, suitable for mass production.

The abrasive tools of single-stroke honing have a long service life and high efficiency in processing and production. They can be used in a variety of equipment, such as vertical drill, rotary drill, ordinary lathe, modular machine tool, press machine, vertical or horizontal honing machine tool, etc.

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