

# Manufacturing process of key components of a Buraschi sewing machine

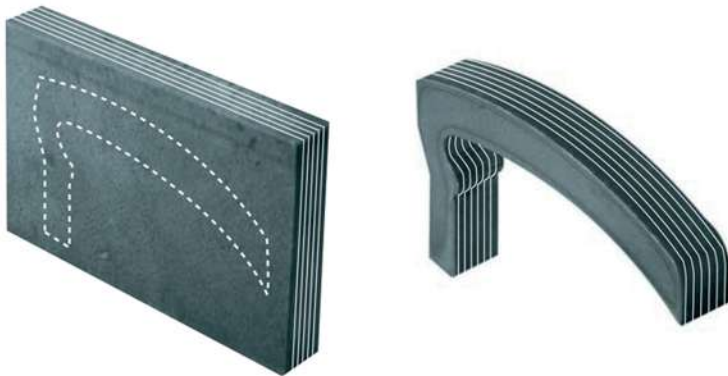
## Machining from a plate

Contrary to casted parts used on standard sewing machines, our key components are made by machining from a drawn bar. Following is an example regarding the machining routing.



## Strength, reliability, durability

With this method, the structure strength is not affected so it will stand against stroke and it will be reliable and long lasting.



## Heat treatment

An other peculiar characteristic of Buraschi parts is the heat treatment which is applied differently to the critical area. This makes the structure of the component very robust but at the same time resistant to wear.



As shown in the following pictures, materials and heat treatments are based on the functionality of every components. Buraschi key components are manufactured by machining of drawn bar of the most proper material. This method makes the components reliable and long lasting versus parts made by casting or forging.



### Production by machining of our key components

Following is the micro structure picture of a drawn bar made with material AISI 4317 magnified 1:370. As you can see, the cross section is very homogeneous and free of porosity. This kind of structure makes the part strong, reliable and long lasting.



Material AISI 4317  
magnified 1:370

### Production of casted components

Following is the micro structure picture of a casted component made with material AISI 4317 magnified 1:370. This manufacturing method make the parts cheaper because production is only affected by the cost of the mold. As you can see the cross section is not homogeneous and shows blowholes and void which make the component wick and unreliable.



Material AISI 4317  
magnified 1:370