

Manufacturing Process of Key Components for Buraschi Sewing Machine

COMPANY PROFILE

Italian Engineering Excellence

For decades, Buraschi has been synonymous with strength, reliability, and precision in the industrial sewing machine sector. Every machine is designed and manufactured according to a clear philosophy: to deliver maximum durability, long-term performance and operational continuity for demanding industrial applications.

Unlike conventional production methods that rely on cast components, Buraschi adopts an advanced manufacturing approach based on CNC machining from solid drawn steel bars. This engineering choice ensures superior structural integrity, exceptional mechanical strength and outstanding long-term reliability.



Our commitment to quality is reflected in every stage of production – from material selection to machining, heat treatment, assembly and final inspection.

Today, Buraschi machines operate worldwide in industries where precision and durability are essential.

CNC MACHINING PROCESS

Precision Manufacturing Technology

Buraschi components are produced using advanced CNC machining technologies that ensure exceptional dimensional accuracy and repeatability.

Machining from solid drawn steel bars preserves the steel's natural grain structure and homogeneity, resulting in significantly stronger and more reliable components than traditional cast parts.

Advantages of CNC Machined Components

Superior Strength

The material maintains its original structural properties, providing enhanced resistance to stress, fatigue and deformation.

High Precision

CNC machining ensures tight tolerances and excellent consistency between components.

Reliability

Machined parts are not affected by the porosity, internal voids and blowholes typically associated with cast components.

Long-Term Performance

The combination of high-quality materials and precision machining ensures stable operation, even under continuous heavy-duty production cycles.



MATERIAL SELECTION

High-Quality Steel for Industrial Applications

Buraschi carefully selects high-grade alloy steels suitable for applications involving high mechanical stress.

Materials such as AISI 4317 provide:

- Excellent mechanical strength
- High toughness
- Superior wear resistance
- Structural stability
- Long operational life



HEAT TREATMENT TECHNOLOGY

Engineered Durability

To further improve wear resistance and component longevity, Buraschi applies selective heat treatments to the critical areas of each component.

Heat treatment processes are specifically designed according to the functional requirements of each part, optimising:

- Surface hardness
- Wear resistance
- Mechanical strength
- Fatigue resistance
- Operational durability

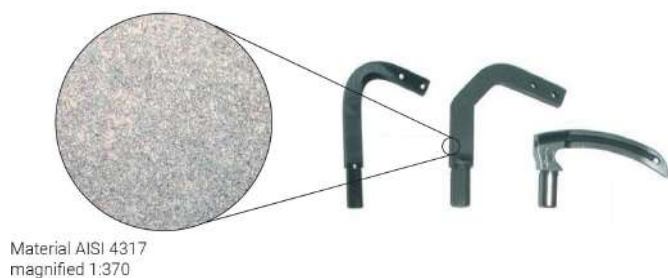
This advanced approach ensures high levels of reliability, even in demanding industrial environments.



CASTED COMPONENTS VS CNC MACHINED COMPONENTS

The Difference Lies Within the Material

CNC-Machined Components



Components machined from solid drawn steel bars feature a compact, homogeneous internal structure with no voids or structural defects.

Benefits include:

- Superior mechanical resistance
- Increased reliability
- Longer service life
- Reduced risk of failure

Conventional Casted Components



Traditional casted components may contain:

- Porosity
- Blowholes
- Internal voids
- Structural inconsistencies

These imperfections can reduce strength, durability and long-term reliability.

CUSTOMER BENEFITS

Designed for Continuous Industrial Production

Buraschi machines are engineered to deliver tangible operational advantages.

Reduced Downtime

High-quality components minimise unexpected failures and improve production continuity.

Lower Maintenance Costs

Superior mechanical integrity reduces wear and extends maintenance intervals.

Increased Productivity

Stable and precise machine performance ensures consistent sewing quality.

Long-Term Investment Value

Durable components and robust engineering ensure an extended machine lifespan.