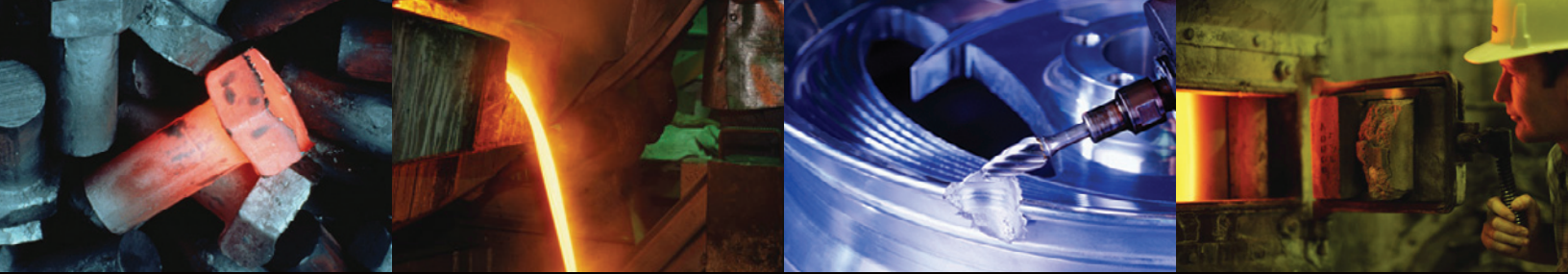


# Solid Carbide Burs

Durable Industry Performance





As one of the world's most technologically advanced bur manufacturing companies, SGS offers bur configurations for every imaginable ferrous or nonferrous application for efficient stock removal and excellent surface finish. With a state-of-the-art, climate controlled manufacturing facility, SGS burs are the most widely used burs in the world serving a variety of industries, materials and applications.

- Offering complete with miniature sizes
- Ideal for handheld or robotic applications
- Superior surface finishes
- Durable construction in demanding applications
- Extended length shanks available for long reach applications
- Full factory resharpener services available
- Custom design and build capabilities
- Available with Ti-Namite Coatings

**Mold & Die** industry requires deburring tools that can handle the complexity of workpiece configurations and deliver accuracy required for tight tolerance applications. SGS burs are precisely ground on multi-axis CNC grinding machines offering unparalleled performance meeting the demands of challenging materials, including carbon steels, hardened steels, tool steels, stainless steels, and aluminum.

- Chamfering, Creating a Radium, Weld Removal and Blending, Beveling, Repair

**Castings & Foundry** work requires safe, effective, and consistent performance when it comes to approaching high-strength and heat-resistant materials. SGS is an ISO Certified Company, utilizing rigorous quality control measures throughout the manufacturing process. Our quality burs are ideal for cast materials, including iron, steel, copper-based alloys, aluminum based alloys, exotic alloys, titanium alloys.

- Parting Line Removal, Fin Removal, Finishing of Casting Risers and Flash Removal

**Power Generation** requires tooling specifically developed for efficient and economical removal of difficult to machine materials. SGS burs maintain superior tool life and control achieved through engineered geometry and consistent braze. Bur construction is torque measured to ensure braze strength and durability.

- Turbine Manufacturing and Repair

**Automotive** machining means high production and cost control without sacrificing quality. The durability of SGS burs can be seen within automotive manufacturing or aftermarket service repair.

- Flash Removal, Chamfering, Weld Removal and Blending, Beveling, Aftermarket Repair







# OMEGA BURS

AGGRESSIVE DEEP  
DOUBLE CUT

Omega Burs from SGS are Aggressive Deep Double Cut Burs designed to handle your most challenging applications. With a deep, aggressive tooth pattern, Omega Burs allow for improved chip control and rapid stock removal in harder materials...with minimal chatter.

## FEATURES & BENEFITS:

- Enhanced geometry and deep flute configuration for increased tooth strength
- Available with long shank for hard to reach applications
- Longer tool life vs. conventional burs
- Maximum stock removal
- Improved productivity and cost savings

## APPLICATIONS INCLUDE:

- Mild steels
- Stainless steel
- Cast iron
- Other ferrous metals

## INDUSTRIES:

- Marine & shipbuilding
- Offshore MRO
- Foundries
- Automotive
- Metal fabrication





# FLEXBUR

The FLEXBUR is designed to remove material in difficult to reach external and internal component features that just cannot be addressed with a rigid standard or long shank bur.

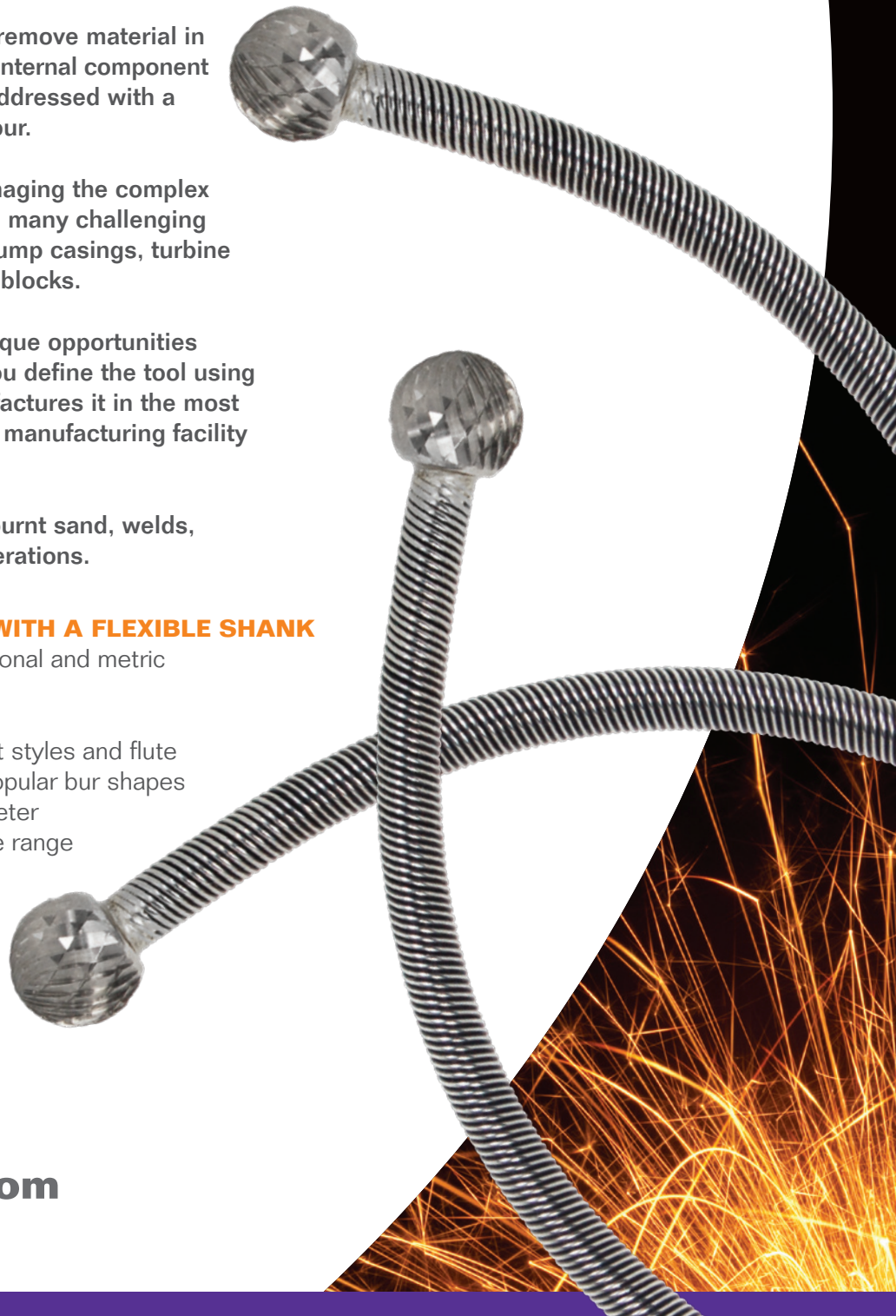
The FLEXBUR is ideal for managing the complex deburring operations found in many challenging castings such as impellers, pump casings, turbine blade assemblies and engine blocks.

Due to the wide variety of unique opportunities the FLEXBUR can address, you define the tool using this brochure and SGS manufactures it in the most technologically advanced bur manufacturing facility in the world.

Excellent for the cleaning of burnt sand, welds, fins, and various blending operations.

## **REACH AROUND BENDS WITH A FLEXIBLE SHANK**

- Available in a variety of fractional and metric shank diameters
- Shanks up to 6" in length
- Available with a variety of cut styles and flute configurations in the most popular bur shapes up to 1/2" or 12.7mm in diameter
- Able to accommodate a wide range of angles and can be used in conjunction with a rigid sleeve during operation
- Tools may be sent back for reconditioning





## 12 SHAPES



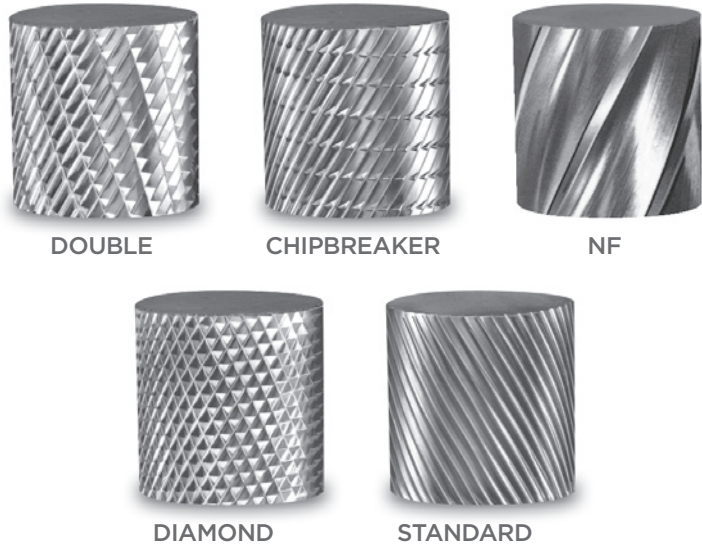
## 3 CUT STYLES

Not only must burs conform to various workpiece configurations, but they must also be able to perform in a variety of materials.



## 5 GEOMETRY STYLES

SGS offers 5 different styles to address various materials and control the burs' performance.





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