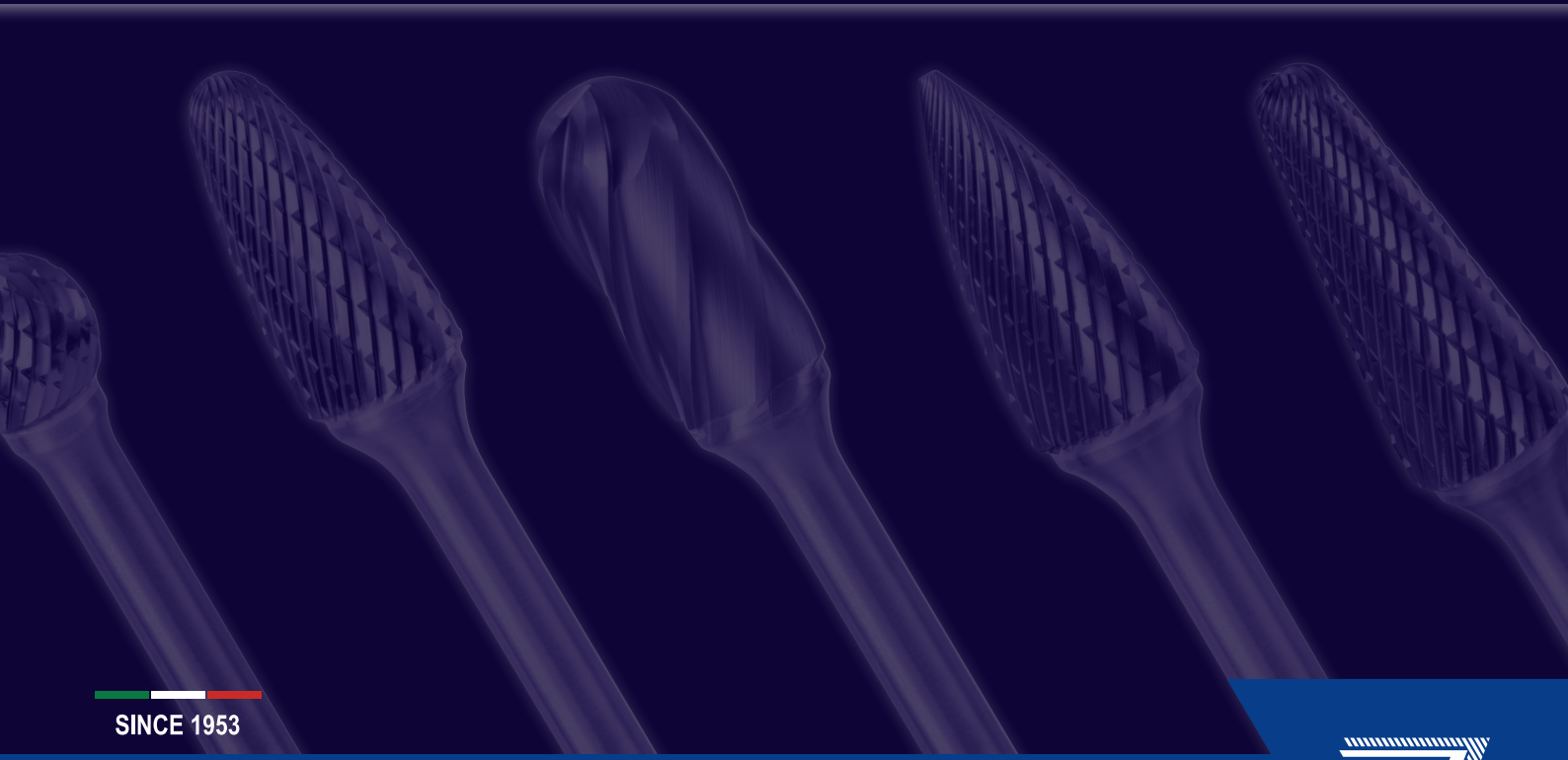
SOLUTION SPOTLIGHT

TUNGSTEN CARBIDE BURS

FOR PRECISION CORRECTION AND REFINEMENT



SINCE 1953

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Handy Little Tips...

Looking for a versatile way to correct slip-ups and tidy up hard-to-reach areas?
Meet your new best friends...

SAIT Abrasives is pleased to introduce you to its powerful range of tungsten carbide burs. These useful tools have a myriad of applications across a wide range of sectors and are highly resistant to heat and wear.

WHY USE BURS OVER TRADITIONAL ABRASIVES?

Unlike traditional abrasives, burs keep their shape and remain constant throughout their life.

Targeted correction and finishing capabilities avoid affecting surrounding areas.

Power concentrated through a small point results in quicker job progression.

Longer lasting, therefore downtime during jobs (due to collet changing etc) is minimised.

WHICH PRODUCTS ARE BURS AN ALTERNATIVE TO?

Burs are a high-performance alternative to the traditional options of cartridge rolls, conical sleeves and mounted points. Their superior stock removal capabilities, in addition to the points above, make them a highly appealing and effective addition to your industrial toolkit.

Three Keys to a Quality Solution

Already using burs but not achieving the results you need? When it comes to bur manufacture, details make the difference. Three key factors ensure that with SAIT as your supplier, you will always receive products that you can depend upon:

1. Composed of Virgin Materials

Our burs are formed from virgin materials, which undergo rigorous quality-control checks before passing into manufacture. The result is a tool that has a uniform texture throughout its body, which leads to consistently excellent performance across its life.

2. Controlled Percentage Recipe

A set recipe utilising defined percentages of virgin tungsten carbide and cobalt binder ensures that the customer gets the same high-quality product each time. Tungsten carbide is a very durable material (registering at around 9 on the Mohs scale of hardness) and can withstand high-speed use on most ferrous and non-ferrous metals.

3. CNC Machined

CNC machines are a significant investment, but the benefits are undeniable. CNC machining offers accuracy, repeatability and rapid production capabilities. Machines are programmed to exacting standards by specialist engineers and settings are locked in. This means that from batch to batch, the product you receive is always the same, allowing your processes to continue like clockwork.

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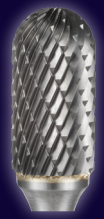
Our Core Range

A concise and focused collection, designed to incorporate the most popular versions of these small yet mighty tools.

CHOOSE YOUR CUT

SAIT currently offers two different styles of bur cut within its core range:



Double Cut

» More user friendly due to finer chip size.

» Ideal applications: Stainless steel, steel, copper, cast iron, nickel alloys.

Aluminium Cut

» Anti-clogging design.

» Ideal applications: Soft materials, inc. aluminium, brass, plastics etc.

N.B. Other bur shapes are also available; for requests outside of our core range listed above, please contact us.

Individual Burs

(Shape A) Cylinder w/o end cut

(Shape C) Ball nosed cylinder

(Shape D) Ball

(Shape F) Ball nosed tree

(Shape G) Tree

(Shape L) Ball nosed cone

MAJOR INDUSTRIES:

	Cut Style	Code	Head Dia. (mm)	Head Lgth. (mm)	Shank Dia. (mm)	Total Length (mm)	Brazed/ Solid
	double	075000	3	14	3	38	solid
	double	075003	6	18	6	50	solid
	double	075004	8	19	6	64	brazed
	double	075006	9.6	19	6	64	brazed
	double	075008	12.7	25	6	70	brazed
	double	075010	3	14	3	38	solid
	double	075013	6	18	6	50	solid
	double	075014	8	19	6	64	brazed
	double	075016	9.6	19	6	64	brazed
	aluminium	075017	12.7	25	6	70	brazed
	double	075018	12.7	25	6	70	brazed
	double	075024	6	4.7	6	50	solid
	double	075025	8	6	6	52	brazed
	double	075027	9.6	8	6	54	brazed
	double	075029	12.7	11	6	56	brazed
	double	075035	8	20	6	65	brazed
	double	075037	9.6	19	6	64	brazed
	aluminium	075038	12.7	25	6	70	brazed
	double	075039	12.7	25	6	70	brazed
	double	075041	3	14	3	38	solid
	double	075043	6	18	6	50	solid
	double	075044	8	19	6	64	brazed
	double	075045	9.6	19	6	64	brazed
	double	075046	12.7	25	6	70	brazed
	double	075051	8	25.4	6	70	brazed
	double	075053	9.6	30	6	76	brazed
	double	075055	12.7	32	6	77	brazed

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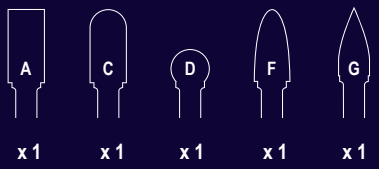
Bur Kits

Kit Description	Cut Style	Code	Head Dia. (mm)	Shank Dia. (mm)	Brazed/ Solid
9.6mm head x 6mm shanks	double	075057	9.6	6	brazed
12.7mm head x 6mm shanks	double	075058	12.7	6	brazed

EACH KIT CONTAINS:

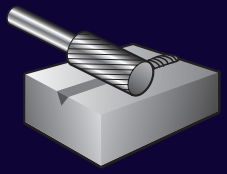


RPM Guide

Head Dia.	Max. RPM	Aluminium, Plastic Speed Range	Brass, Copper, Cast Iron, Bronze Speed Range	Unhardened Steel Speed Range	Hardened Steel, Stainless Steel, Nimonic Alloys Speed Range
3mm	100,000	60,000 - 80,000 *Start at:* 65,000	45,000 - 80,000 *Start at:* 65,000	60,000 - 80,000 *Start at:* 80,000	60,000 - 80,000 *Start at:* 80,000
6mm	65,000	15,000 - 60,000 *Start at:* 40,000	22,000 - 60,000 *Start at:* 45,000	45,000 - 60,000 *Start at:* 50,000	30,000 - 45,000 *Start at:* 40,000
8mm / 9.6mm	55,000	10,000 - 50,000 *Start at:* 25,000	15,000 - 40,000 *Start at:* 30,000	30,000 - 40,000 *Start at:* 30,000	19,000 - 30,000 *Start at:* 25,000
12.7mm	35,000	7,000 - 30,000 *Start at:* 20,000	11,000 - 30,000 *Start at:* 25,000	22,000 - 30,000 *Start at:* 25,000	15,000 - 22,000 *Start at:* 20,000

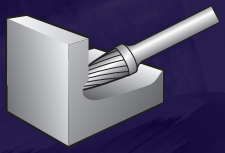
Bur Profiles

When it comes to choosing the most appropriate bur shape for your application, the weld or material profile will dictate the design you require.



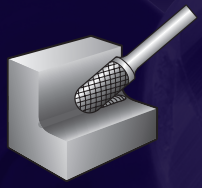
Shape A

- Square sided.
- Best suited to use across flat plates.



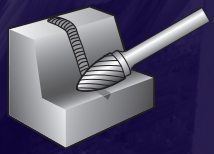
Shape F

- Has both a radius and radius tip.
- Best ‘all-round’ choice if looking to take on one multi-functional bur.



Shape C

- Biggest radius, but has a square side.
- Ideal for working across a plate to create a radius in the corner.



Shape G

- Finest tip.
- Preferred choice for accessing tight corners in complex structures (eg. for turbine repair in aerospace).

Shape D

- Completely spherical tip.
- Use to create concave cuts and enlarge holes.

Shape L

- Tight radius.
- Best suited to fillet welds (joins between two pieces of metal at 90° angles to each other).

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