

Solid carbide dental tooling

The ultimate in  
**precision,  
innovation  
and excellence**



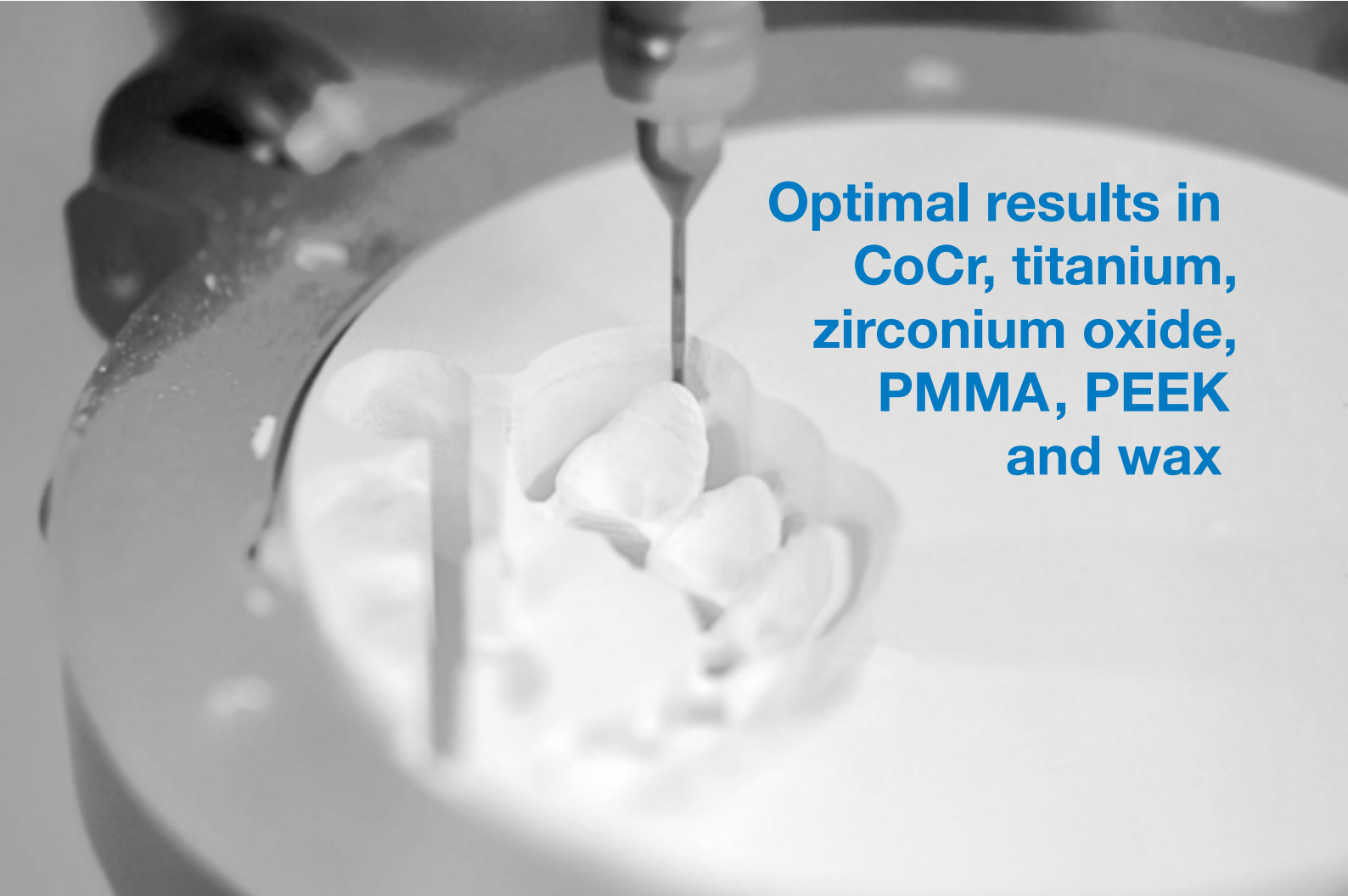
INFINITE POSSIBILITIES.®

**QUICKGRIND**®  
carbide tooling

# High-performance solid carbide tools for dental laboratories

Quickgrind is a global leader in high-precision tooling, renowned for its innovative solid carbide solutions. With decades of experience and cutting-edge technology, we deliver tools engineered for exceptional accuracy, durability and efficiency. Our commitment to the dental laboratory sector ensures tailored solutions that meet the exacting demands of modern dental applications, enabling professionals to achieve superior results with confidence and precision.

We offer an advanced range of tooling designed for optimal performance across all modern dental materials including cobalt-chromium, titanium, zirconium oxide, PMMA, PEEK and wax. Featuring innovative grind geometries and coatings for high-speed and high-performance milling, these tools streamline 2D and 3D operations. Available in various shank designs compatible with multiple systems, Quickgrind provides an unlimited number of precision-engineered end mills and drills, ensuring unmatched versatility and reliability in open or closed CAD/CAM workflows.



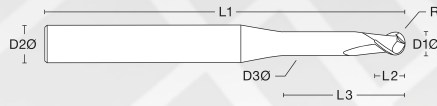
**Optimal results in  
CoCr, titanium,  
zirconium oxide,  
PMMA, PEEK  
and wax**



INFINITE POSSIBILITIES.®

## RIBCUTTER

2 flute rib-type ball nose end mills



**Our Ribcutter ball nose end mills are designed to overcome various production challenges where small-diameter tools with long reaches are required.**

As parts become smaller and more intricate, and the finest finishes are needed, these tools deliver exceptional performance every time.

Made from solid carbide and coated with our unique CXPlus coating, they are ideally suited for machining metallic dental materials such as titanium and cobalt chrome.

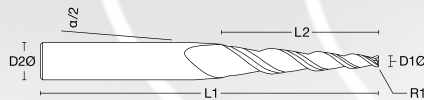
These tools can be used for both roughing and finishing strategies, providing excellent tool life.

Ribcutter is available ex-stock or with short delivery times. Other sizes are available as part of our Infinite Possibilities® range.



## TYPHOON

High performance solid carbide taper end mills



**Quickgrind is the UK's largest producer of taper tooling, offering high-performance, precision-tested taper end mills.**

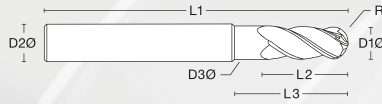
Typhoon taper tools, one of our best-selling ranges, are supplied worldwide. Often underutilised in dental CAM libraries, Typhoons excel at high material removal rates, making them ideal for rough machining angled features in dental restorations—far faster than 3D ball nose strategies.

Available in ball nose and square end designs, Typhoon tools follow our Infinite Possibilities® ethos, with virtually no size or taper limitations. Designed for all dental materials, from wax to cobalt chrome and titanium, they leverage our expertise in cutting tool materials, edge geometries, and coatings.





4 flute ball nose end mills



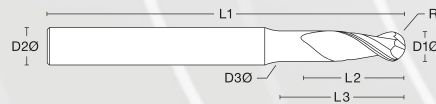
**Zodiac ball-nose tools feature four flutes for efficient swarf evacuation, enabling high-speed, high-feed machining with exceptional stability in cobalt chrome and titanium.**

Ideal for contour milling and 3D profiling, they excel in roughing, semi-finishing, finishing, and super-finishing of all dental metallic materials while extending tool life.

As part of our Infinite Possibilities® programme, we can design the optimal tool for your dental milling needs—whether stub length, long reach with short flutes, neck-relieved, or with custom flute configurations—ensuring maximum performance, repeatable quality, and reduced cycle times.



2 flute ball nose end mills



**Gladiator is a stable, precise two-flute ball-nose tool designed for high-speed machining of all dental metallic materials while extending tool life.**

Ideal for roughing, semi-finishing, finishing, and super-finishing cobalt chrome and titanium restorations, it excels in dental CAM contour and 3D milling strategies.

Through our Infinite Possibilities® programme, we collaborate with dental milling clients to understand their challenges and goals, developing optimised tools and cutting strategies for maximum efficiency.



# What our clients say

## A 40% improvement on tool life for Optadent Solutions



We were getting frustrated with cutting tool issues when milling titanium and chrome cobalt dental restorations. Typical issues were tool breakage, poor tool life and inadequate reach.

By partnering with Quickgrind we now have a cutting tool supplier whose products have helped us achieve a 40% improvement on tool life, a reduction in production costs and more stable milling processes.

By utilising Quickgrind's Infinite Possibilities® process we have been able to create our own suite of tooling for which we can tailor-make our milling strategies. This has reduced our cycle times significantly with no detrimental effect on quality.

Quickgrind have helped us optimise our CNC milling strategies using the latest cutting tool technologies to improve quality and cycle times and costs. This willingness to collaborate sets them apart from other cutting tool suppliers I have found in the dental market.

**Antony Wainwright, Company Owner**

[optadentsolutions.com](http://optadentsolutions.com)



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## A huge reduction in consumable costs for Element Digital Solutions



Quickgrind don't just want to sell us milling tools, they want to work with us to understand our machining requirements, workpiece materials and quality expectations, and to ensure their tools provide improved performance.

We have seen huge improvements in tool life and consumable costs by using their Zodiac, Gladiator and Ribcutter ranges across all materials from pre-sintered zirconia through to titanium and chrome cobalt.

We are now interested in applying Quickgrind's Infinite Possibilities® methodology of producing non-standard tooling to maximise the capabilities of our CAM systems and CNC milling machines, in order to reduce our cycle times and improve our overall efficiency.

**Dan Barber, Company Owner**

[elementdigital.co.uk](http://elementdigital.co.uk)



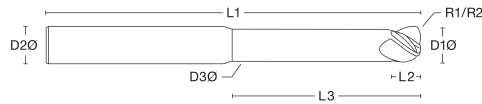
**Quickgrind. For the last word in solid carbide dental tooling.  
Call +44 (0) 1684 294090 to find out more.**



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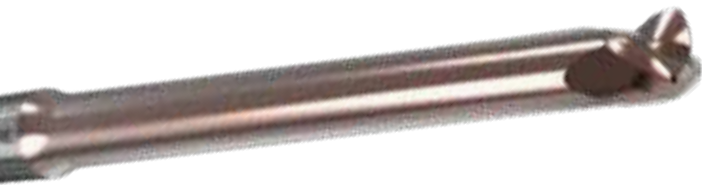
3 flute high feed end mills



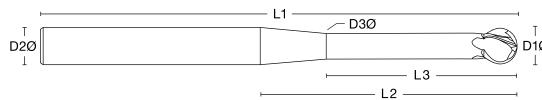
**Spectre is a solid carbide, coated high-feed tool originally developed with three flutes for milling small, deep features in difficult metallic alloys.**

Designed for high-feed roughing, its specialised grind geometry and micrograin carbide substrate ensure excellent stability at high feed rates.

By combining unique geometry with small depth-of-cut, high-feed dental milling strategies, clients achieve outstanding return on investment. Additionally, reduced cycle times enhance production throughput while minimising spindle load.



High technology lollipop cutters



**Lollipop tools are ideal for efficiently milling cavities in dental restorative components.**

Orbis sets new standards for high performance and surface finish, overcoming challenges such as overhanging undercut features.

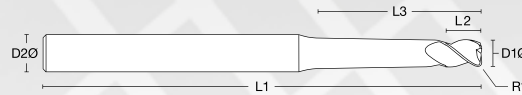
By leveraging often overlooked dental CAM strategies, Orbis excels in high-speed, 5-axis machining of complex dental restorations, utilising 270 degrees of cutting edge.

Through Quickgrind's Infinite Possibilities® programme, you can collaborate with us to design and manufacture the perfect Orbis lollipop tool for all dental materials—maximising the capabilities of your 5-axis machine and optimising CAM tool libraries.



## HYPERMILL

High performance solid carbide hypermills



**Quickgrind's Hypermill end mills are available with 2, 3, 4, or more flutes and come in square-end or corner-radius designs—perfect for milling dental restorative components in all materials.**

Flute lengths are typically 1.5 to 2.5 times the cutting diameter, while tapered shanks provide added rigidity for deep-feature milling, with fillet radii for extra strength.

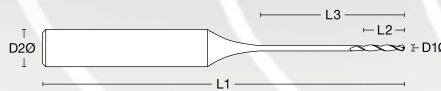
Grind geometry and coatings are tailored to your tool for optimal performance based on dental CAM strategies and materials. Ideal for milling cavities, 3D 5-axis milling, and helical milling strategies.

Through our Infinite Possibilities® programme, we collaborate with you to develop the perfect tool—helping you produce the highest quality, most precise dental components in the shortest cycle times while maximising the capabilities of your CNC machines.



## LYNX MICRO & MINI

High performance solid carbide drills



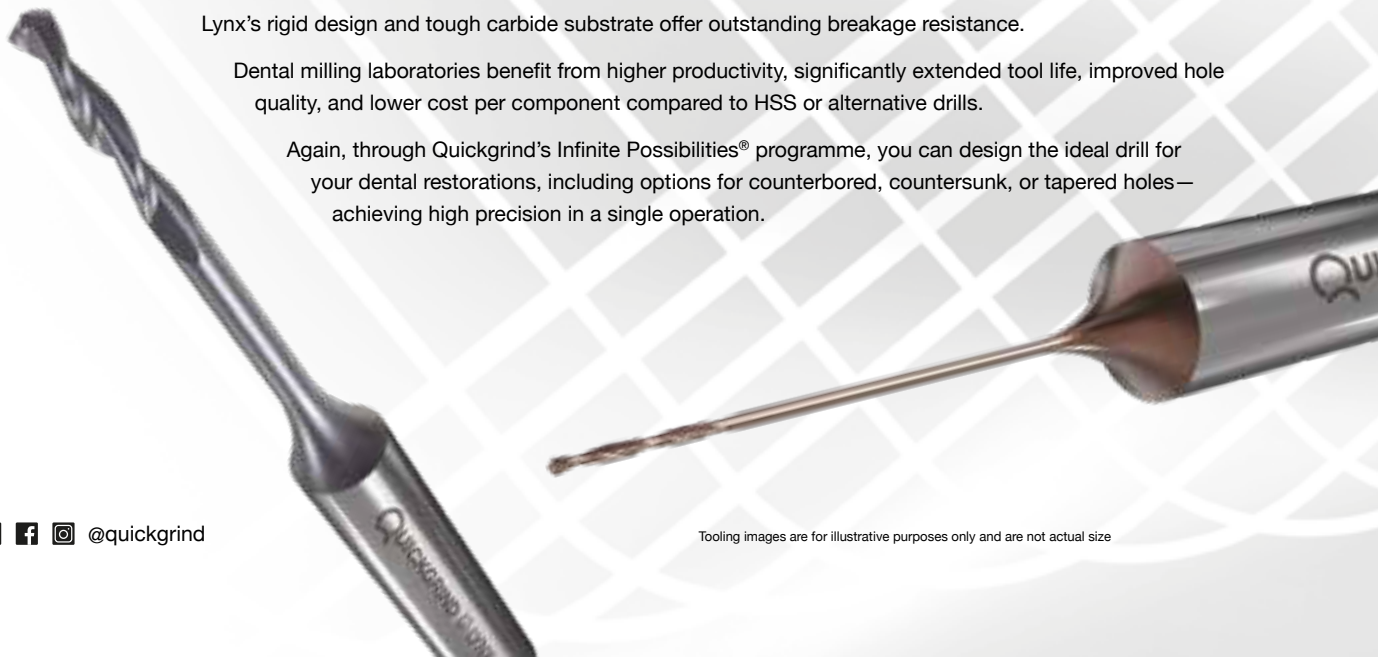
**Our Lynx drill is specifically designed for medical industry applications across all materials.**

Quickgrind's PVD coatings, specially formulated for these small-diameter drills, provide exceptional durability and longevity in dental metallic materials.

Lynx's rigid design and tough carbide substrate offer outstanding breakage resistance.

Dental milling laboratories benefit from higher productivity, significantly extended tool life, improved hole quality, and lower cost per component compared to HSS or alternative drills.

Again, through Quickgrind's Infinite Possibilities® programme, you can design the ideal drill for your dental restorations, including options for counterbored, countersunk, or tapered holes—achieving high precision in a single operation.





# INFINITE POSSIBILITIES.®

What if you could have the optimum dental tool, with the marginal cost increase more than covered by improved production throughput and efficiency? With Quickgrind, you can. Welcome to a world of Infinite Possibilities.®

Our mission is to provide you with solution-based tooling, to give you the right tool, for the right job, at the right price.

Many of our dental tools can be designed specifically for your application and are available in virtually any size, diameter, radius, neck relief, coating or reach. Through-coolant and other options are also available.

Contact our team today to discuss your applications, aims and requirements.

There are no limits, only Infinite Possibilities.®

Call +44 (0) 1684 294090  
or visit [quickgrind.com](http://quickgrind.com)

## Ordering is as easy as **one, two, three**

### 1. Choose your shank spec

- Length • Diameter • Tolerance
- DIN or other shank standards

### 2. Choose your neck spec

- Length • Diameter • Relief

### 3. Choose your head spec

- Length • Diameter
- Tolerance • Number of flutes
- Helix angle • Anti-vibration
- Radius • Chamfer
- Radial/axial through-coolant
- Ballnose • Coating
- Chip breakers



Our technical support engineers will work with you to identify your dental machining requirements. We will then design the perfect solid carbide tool to compliment your milling strategies, proved and delivered in days.

**That's Infinite Possibilities.®**

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