

Aluminium Profile Routing Cutters
& High Performance End Mills

Excellence in surface finishing

for aluminium & other
non-ferrous materials



INFINITE POSSIBILITIES.®

QUICKGRIND®
carbide tooling



INFINITE POSSIBILITIES.®

What if you could have the optimum 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.®

At Quickgrind we do not limit ourselves to standard ranges, and we do not limit you to tools we happen to have in stock and want to sell you. Instead, our mission is to provide you with solution-based tooling, to give you the right tool, for the right job, at the right price.

Our aluminium profile routing cutters and high performance end mills 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.

End the compromise of standard tooling. 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

Ordering is as easy as one, two, three

1. Choose your shank spec

- Length • Diameter
- Tolerance • Type HA/HB/HC
- Through-coolant
- Coolant grooves... and more

2. Choose your neck spec

- Length • Relieved
- Diameter
- Coolant grooves... and more

3. Choose your head spec

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



That's it. No catalogues to trawl through, no complicated product codes, no lengthy tables... just tell us what you need for your job and we will make it for you. Even specials can be designed, proved and delivered in days, at a cost you could recoup on your first job. That's Infinite Possibilities.®

**Remember, just ask
we will make it for you**

Accurate finishes and extended tool life

Our routing cutters are designed for rapid removal of material in extruded aluminium and other soft, non-ferrous materials. Ideal where long tool life and accurate, fine finishes are required, they are available in a wide variety of types designed to suit your applications.

Cutters are available in single or two flute versions, in stub length, medium and long series and with downward spiral if needed, to hold the material down while cutting thinner sheets. Where a coating is required our unique TX formulation is the favoured choice – its high resistance to abrasion and low co-efficient of friction provides long tool life and excellent surface finish. With a surface hardness of >500Hv and thickness of 0.5-2µm the TX coating helps to maintain the sharp edge of the tool.

Applications & benefits

- High productivity machining of aluminium, aluminium alloys, non-ferrous materials, composites and acrylics
- Superior grinding techniques provide high material removal rates and excellent chip evacuation
- Types available for routing, slotting, plunging, roughing, finishing and profiling



Non-ferrous N

Aluminium alloys 2024, 5052, 5086, 6061, 6063, 6082, 6073, 7075

Aluminium die-cast A-390, A-392, B-398

Copper alloys – aluminium bronze, brass, naval brass, red brass, Beryllium copper, C110, bronze alloys

Plastics – ABS, PVC, Polycarbonate, Polypropylene

**ALLIGATOR**

High Performance End Mills

High feed

with excellent finish

The Alligator range is designed for machining a wide range of non-ferrous materials such as aluminium alloys. Versions are available as standard in 2 flute, 3 flute and 2 flute long reach for those difficult to reach areas.

A well-proven, tried and tested design that has been used for many years on a wide range of components and materials.

- Optional TX coating for ultimate abrasion resistance and low co-efficient of friction
- Maintains sharp edges and also suitable for remanufacture and recoating
- Surface thickness of 0.5-2µm and micro hardness of >500Hv





High Performance End Mills

Added strength for thicker material

With its primary and secondary flute design Caiman gives added strength when cutting thicker section material. This enables the tools to be run at much higher speeds and feeds as the design removes chips with high efficiency.

This tool provides high MRR and excellent swarf evacuation resulting in longer tool life. The special flute form gives high strength and enables the tool to be run at high speeds and feed when producing slots in various thicknesses of extruded material. Balanced tools are also available on request as is our superior TX coating to give added machinability.

Our aluminium profile routing cutters and high performance end mills are available to you now, with custom-made tools on a short delivery.

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or visit quickgrind.com

Applications

- Roughing & finishing
- Slotting
- Routing
- Profiling
- Various edge options

Benefits

- Higher feeds & speeds
- Higher wear resistance
- Vibration suppression
- Increased material removal rates
- Efficient chip removal
- Low cutting forces
- Excellent finish



Adding value to your tooling investment

Our routing cutters and end mills are suitable for remanufacture. Our unique QuickEdge process can give you up to seven times extra usage out of your tooling, and with material costs continuing to increase you can't afford to ignore the benefits of remanufacture.

- Tools controlled by size, number of reissues and remanufactures
- Reduced logistics costs
- Extremely attractive price and performance over the life of the tool

Remanufacture doesn't mean compromising on quality. It has always been our policy to produce tools of such high quality that they can be used more than once. Which means that even after seven remanufactures you will continue to enjoy new tool performance.

Ask
about our
introductory
offer today



Tools shown not aluminium profile routing cutters



*To produce a precision made product is the norm
but to produce it consistently is precise*

24/7 control

of your tooling inventory

Is your tooling inventory reduced to a minimum? Is it secure?
Are your re-stocking orders generated automatically and on time?
Do you want to reduce your tool purchase administration costs?

Quickgrind's robust, proven tool vending solutions are the answer to all these issues and more. Once we have audited your tooling requirements and consumption levels, we will supply you with a fully stocked machine (our machines can hold from 300 to 1,680+ individual tools). Usage and stock levels are then automatically monitored and replacement tools sent before your stock runs out.

And because your tooling inventory and usage levels are pre-determined, you regain complete control of your purchase administration time, and costs – to as little as one purchase order and one invoice per month.

Save time, save money... take control of your tooling with a vending solution from Quickgrind.



Benefits

- 24/7 secure access
- Allows minimum stock holding
- Automatic re-ordering
- User-friendly operation
- Tailor access to specific users and times
- Easy access to stock information and statistics
- Audit your tooling stock at the push of a button
- Suitable for new and remanufactured tools
- Stocks a wide range of tools types and sizes, and for high or low stock turnover
- Reduces purchase administration costs



Improving your machining performance

Quickgrind's state-of-the-art Technical Centre offers a comfortable and technologically advanced environment to discuss all of your cutting tool requirements, challenges and ambitions.

Our experts will work with you to conduct trials whilst generating and running tool paths and machining strategies. Our investment in the centre enables us to demonstrate what is possible with our ground-breaking tooling and tool management solutions.

The centre is fully equipped with a seminar theatre and training room, meeting rooms and machining centres. Visitors can take a guided tour of our production facility, undergo technical training and discuss their specific requirements.



Call us
today to
arrange
your visit

