

**Qcut Qplus**

High Performance End Mills



Steel cutters  
**with an  
edge**



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.

Qcut and Qplus cutters 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](http://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

# High productivity

## in steels and cast iron

The Qcut and Qplus ranges are designed for high productivity machining of steels, cast iron and in some instances free machining stainless steel.

With its economical price Qplus is for general use with extended flute length as standard, while its big brother Qcut is setting new standards in high performance machining. Both still deliver high material removal due to their design recipe and superior coating, rewarding excellent stability and free, smooth chip evacuation.



### Applications & benefits

- High productivity machining of steels and cast iron
- Superior grinding techniques provide high material removal rates and excellent chip evacuation
- Suitable for HSM, slotting, roughing, finishing, trochoidal milling, profiling in mould and die, aerospace and other applications

| Steels P                    |                             |
|-----------------------------|-----------------------------|
| Low alloy<br>1000/1100/1300 | Medium alloy<br>200/252/300 |
| Tool steels<br>H13/P20/D2   | High strength<br>420/5120   |
| Cast iron K                 |                             |
| Grey<br>cast iron           | SG iron                     |





High Performance End Mills

# High MRR

with longer tool life

The Qcut range is designed for machining a wide range of steel materials including H13, P20 and D2 tool steels. It performs very well in high strength as well as low carbon and leaded steels, cast irons and in some cases free machining stainless steel. 5 flute and chip breaker options are available.

Combine this with trochoidal milling where 10% plus width of cut (ap) and full length of flute (ae) are possible. This cutter provides high MRR and excellent swarf evacuation resulting in considerably longer tool life. With the addition of chip breaker flute form the swarf management is excellent as swarf length is reduced dramatically. Variable helix maintains stability and eliminates resonation even when full depth of cut is engaged.



- Latest MX PVD coating developed specifically for aggressive machining conditions in steels & cast iron
- Maintains sharp edges & also suitable for remanufacture & recoating
- HV hardness 3300, 2-4 $\mu$  thickness, <0.6 coefficient of friction PVD AlTiN and micro hardness of >500Hv



Long flute  
long series



## Applications

- Roughing & finishing
- Slotting
- Profiling
- HSM strategic milling
- Trochoidal milling
- Ramping
- Bullnose versions for complex work
- Various edge options

## Benefits

- Higher feeds & speeds
- Higher wear resistance
- Vibration suppression
- Increased material removal rates
- Efficient chip removal
- Low cutting forces
- Excellent finish
- Can be remanufactured many times
- High rigidity



High Performance End Mills

# Extended reach

## reduced costs

Qplus is an invaluable tool for any machine shop. With its extended flute length as standard, tough submicrograin carbide and wear-resistant coating it is a very economic 'go-to' tool. Capable of machining a wide range of materials Qplus is particularly suited to steels.

Like most of our tools, Qcut and Qplus are available in any design you require to optimise your application and tool paths. This is the Infinite Possibilities® difference. Please contact us to discuss your requirements.

The Qcut and Qplus ranges are available to you now, with custom-made tools on a short delivery.

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or visit [quickgrind.com](http://quickgrind.com)



Extended flute options with or without chipbreakers

Optional number of flutes



MX coating for excellent wear

Unique recipe of base material & geometry

Long series tools available on short delivery

# Adding value to your tooling investment

Qcut and Qplus 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 Qcut/Qplus*



*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

