







INFINITE POSSIBILITIES.

What if you could have the optimum drill, 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 drills we happen to have in stock and want to sell you. Instead, our mission is to provide you with solution-based drills, to give you the right drill, for the right job, at the right price.

Our high performance solid carbide drills can be designed specifically for your application and are available in virtually any size, diameter, flute length, overall length you require, in non-through-coolant and through-coolant; with a wide range of point geometry and flute variations.

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

Remember, just ask

we will make it for you

on your first job. That's Infinite Possibilities.®

End the compromise of standard drills. 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 2. Choose your neck spec 3. Choose your head spec • Length • Diameter • Tolerance · Length · Diameter • Diameter • Tolerance DIN or other shank standards • Flute length • Number as required of flutes . Point geometry • Corner radius • Chamfer corners . Point angle With or without through-coolant Coating • Flat bottom That's it. No catalogues to trawl though, no complicated product



PRECISION INVESTMENT CASTINGS

Quickgrind's ability to understand our quality standards and manufacturing process enables them to provide drills which achieve repeatable dimensional accuracy in difficult aerospacegrade stainless steels. Their drills are also highly productive compared with off-the-shelf offerings from other suppliers, with tool life increasing by over 75%.

Any drill for any job

Here at Quickgrind we know that choosing the right drill for the right job isn't always easy. We understand the importance of selecting the tool to match your workpiece material and the specification required, and the effect this has on your bottom line.

You may not realise that Quickgrind makes such a huge variety of high performance drill designs, but we have always produced drills for dedicated applications, just like we do for any other type of tool we make. That is what Infinite Possibilities® is all about.

We can make virtually any type of drill specifically for your job, whether it is a new design or one that is already running with another manufacturer. We will either design a new drill for you to help you achieve your goals, or we will match the drills you use and optimise the design.

So if you are happy with your current drills but want to improve your tool life and your cycle times, we can help. We have the expertise, the highest specification CAD/CAM and machines plus a highly motivated R&D Technical Centre, together with decades of know-how to enable us to be extremely competitive not just in the UK but worldwide.

Wherever possible our drill designs will be suitable for remanufacture. High specification solid carbide drills are expensive and to gain an effective ROI must be used more than once. QuickEdge is our world-beating remanufacturing process that is far more than an average regrind - there are many processes involved to bring a tool back to as good as new. QuickEdge is ideally suited to high-use products where the financial benefits of multi-use tooling will show huge cost Of course, if you want an off-the-shelf tool we can do that too, but in our experience the benefits of dedicated tools, optimised for your applications, provide you with far more stable and consistent production than simply making do with standard tools.

Finally, when it comes to management of your tools, we can provide standard tools or make your own unique tools and store them in your premises with QuickVend, our vending solutions division. Read on to find out more.

Talk to Quickgrind to discover our total engineering solutions, and start your journey to a better and more profitable world of production.





Versatility

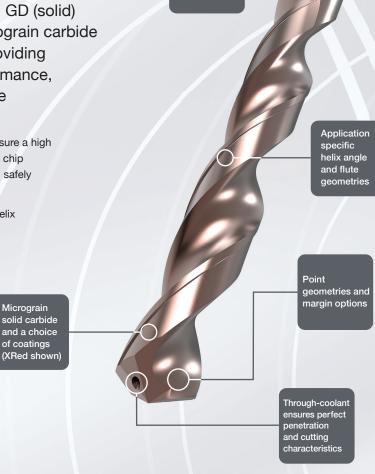
and cost-effectiveness

Our Lion GTC (through-coolant) and GD (solid) drills have our unique blend of micrograin carbide substrate and superior coatings, providing a recipe that guarantees high performance, cost-effective drilling in a wide range of materials.

Quickgrind's high quality manufacturing processes ensure a high quality surface finish and excellent coating for optimal chip evacuation. High process temperatures are dissipated safely and effectively.

Lion drills can be designed with application-specific helix angle and flute geometries. The flute form geometry, designed especially for long-chipping steels, ensures optimal chip generation characteristics even at low cutting speeds.

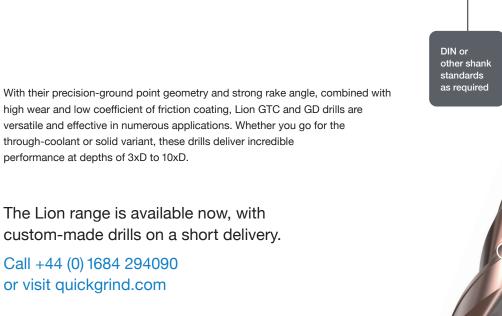
The GTC through-coolant version ensures perfect penetration and cutting characteristics when machining long-chipping steels. Cutting forces and temperatures are considerably reduced.



DIN or other shank standards

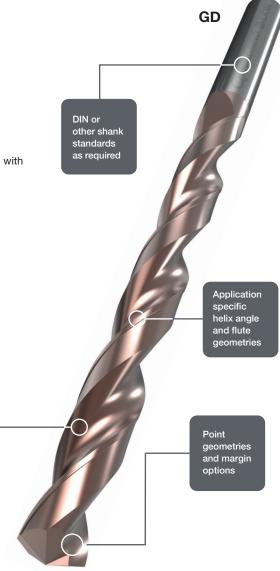
GTC





Micrograin solid carbide and a choice

(XRed shown)

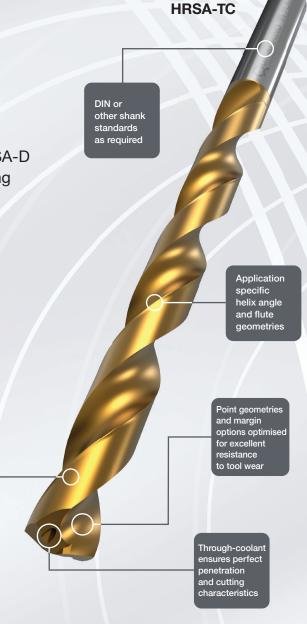


A tough drill for tough materials

The Puma HRSA-TC (through-coolant) and HRSA-D (solid) are the result of extensive work developing the ultimate carbide drills for the economic and secure drilling of tough and difficult materials such as titanium, stainless steels, Nimonic® and other super alloys.

Puma drills can be designed with application-specific helix angle and flute geometries. The flute form geometry, designed especially for long-chipping materials, ensures optimal chip generation characteristics even at low cutting speeds.

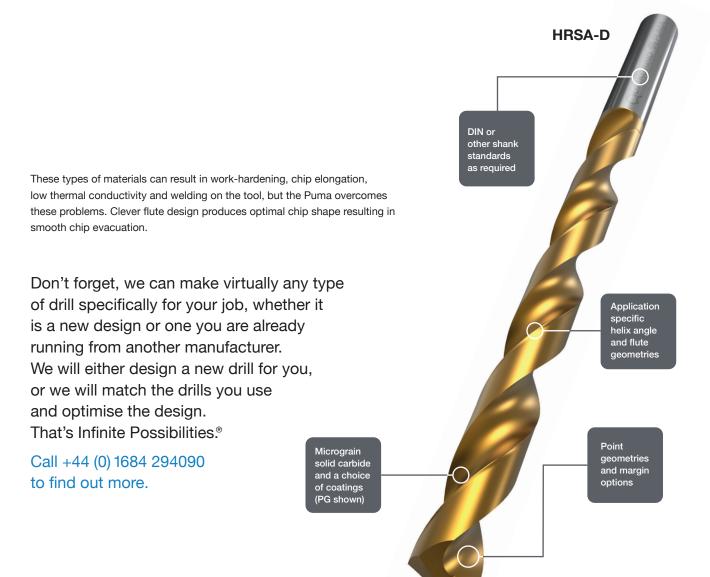
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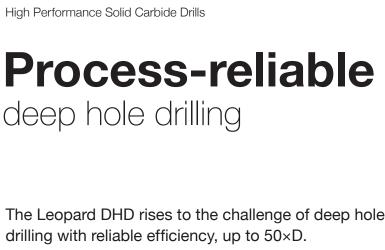
Micrograin solid carbide

and a choice of coatings (PG shown)





		Steels P	Stainless M				
Low carbon 1010/1018	Medium carbon 1035/1045	High carbon 1065	Alloy steels 4140/4340	Die steels 400	300	400	17-4 PH
Irons K	Non-ferrous N		High temp alloys S		Hardened materials H		
Cast iron	Aluminium 6061/7075	Die-cast aluminium	Inconel	Titanium 6A14V (30 HRC)	~35 HRC	● 35-45 HRC	● 45-50 HRC



Each tool is produced with perfect symmetry – geometries, tolerances and point angles are all optimised for the best possible performance.

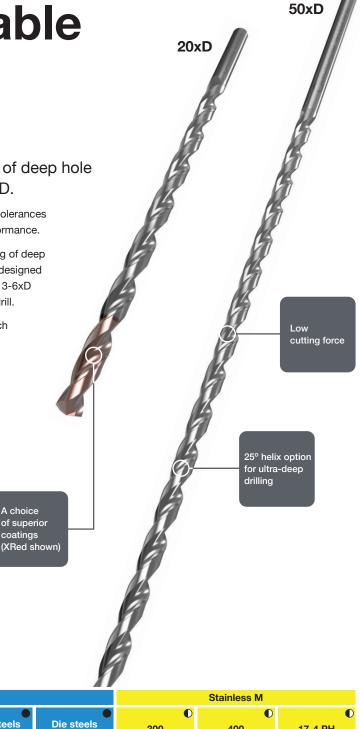
Correct procedures need to be adopted for successful drilling of deep

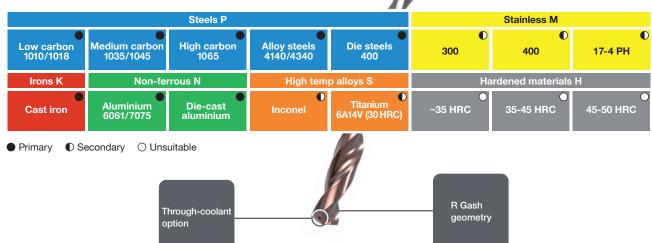
holes ≥20xD and above. Always use a Quickgrind pilot drill (designed +0.02-0.05mm larger than the long drill diameter) and drill to 3-6xD (depending on drill depth) in preparation for the long series drill.

The follow-on drill should enter without coolant and at a much reduced speed and feed, stopping short of the drilled depth. Run at selected higher speed and with coolant before proceeding.

Pecking is recommended on some applications and full retraction of the drill on horizontal operations must be considered. Once full depth is achieved reduce speed and feed on retraction.

As with all drilling applications there are many variables which is why we recommend discussing with our technical team who will help with drill selection and design.







Accuracy up cycle times down

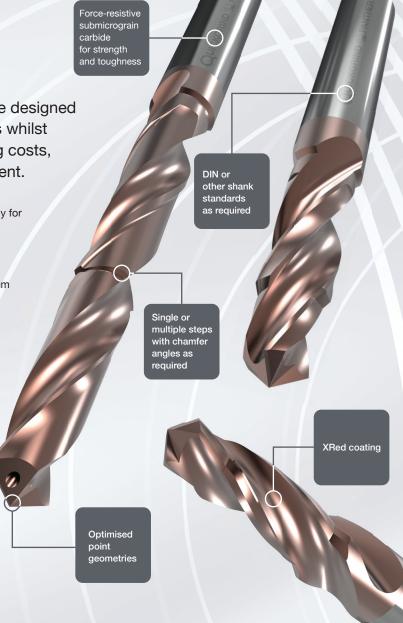
Highly accurate bores in one pass

Our Panther multi-diameter drills are designed to create multiple bores in one pass whilst reducing cycle times and machining costs, all with highly accurate bore alignment.

These application-specific drills are designed to your requirements and are used for pre-drilling bores, ready for follow-on tools such as machine taps and reamers, for example prior to threading in hydraulic ports, whether two, three or more diameters.

Available in various diameters from 3.00mm to 20.00mm and with flute and overall combinations to suit your feature, such as top chamfer, front counter-bore, single or multiple steps, with a taper, shoulder or radius.

Panther drills are suitable for machining a wide variety of materials including cast iron, steel, stainless steel, aluminium and plastics. We design the tools with relevant geometries, with or without coatings, to suit your specifications.







Call +44 (0) 1684 294090 for more information.

manufacturer.

		Steels P	Stainless M				
Low carbon 1010/1018	Medium carbon 1035/1045	High carbon 1065	Alloy steels 4140/4340	Die steels 400	300	400	17-4 PH
Irons K	Non-ferrous N		High temp alloys S		Hardened materials H		
Cast iron	Aluminium 6061/7075	Die-cast aluminium	Inconel	Titanium 6A14V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC

Available with or without through-coolant

A choice

(XRed shown)

High feed accurate holes

Cougar TF (three flute) drills are used on difficult steels, alloyed steel and non-ferrous materials and are designed for core drilling and opening out existing bores.

The three flutes allow direct penetration of hard, tough steels and other materials without the need of pre-centring.

Cougar drills are capable of achieving a reamer class finish with added support during the cutting process due to the extra flute.

With three flute drills, under the right circumstances, it is possible to achieve up to 50% higher feed rate per revolution.

The Cougar TF is available now, with bespoke drills on a quick turnaround.

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Straight to the point

The Tiger ATC (through-coolant) and AD (solid) straight flute drills are designed for highly productive holemaking in aluminium and cast iron automotive and aerospace components.

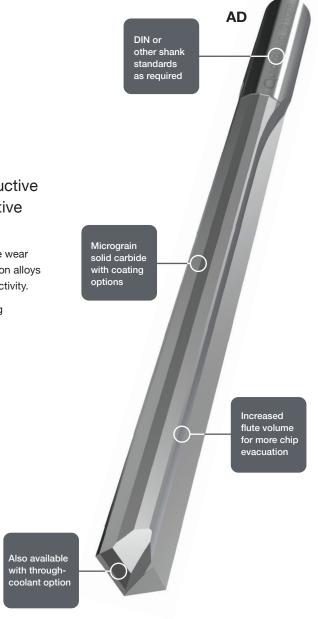
Their dedicated substrate and optional coatings withstand the abrasive wear resulting from high speeds and temperatures, typical in aluminium silicon alloys and cast iron machining. This helps extend tool life and improve productivity.

Typical applications are cylinder blocks, cylinder heads, cases, steering knuckles and brake cylinders in aluminium silicon alloys and all grades of cast iron including GCI, CGI and nodular.

These drills are also ideal for pre-tapping hole sizes, chamfer holes, radii and multi-step forms.

Tiger drills support complex, multi-step applications and are custom made to suit your precise component requirements. Features include step angles with chamfer and radii, point angle and up to 8xD capability. All of this adds up to high productivity and long tool life, providing you with a low cost per hole.

And like all our drills, Tiger ATC & AD are designed for multiple remanufactures, guaranteeing you new tool performance again and again.







Adding value to your tooling investment

Our solid carbide drills are suitable for remanufacture. Our unique QuickEdge process can give you up to nine times extra usage out of your tooling, and with material (and environmental) costs increasing, the benefits of remanufacture are clear.

- Drills controlled by size, number of reissues and remanufactures
- Extremely attractive price and performance over the life of the drill
- Reduces the need for virgin raw material, a limited resource

Remanufacture doesn't mean compromising on quality. It has always been our policy to produce drills of such high quality that they can be used more than once. Which means that even after up to nine remanufactures you will continue to enjoy new drill performance, and a clear conscience.











24/7 control

of your drills inventory

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

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

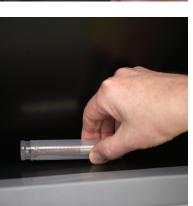
And because your inventory and usage levels are pre-determined, you regain complete control of your purchase administration time and costs, to as little as one purchase order and one invoice per month.

Save time and money. Take control of your drills 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 drills stock at the push of a button
- Suitable for new and remanufactured drills
- Stocks a wide range of drill types and sizes, and for high or low stock turnover
- Reduces purchase administration costs







QUICKGRIND® Technical Centre

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

in **f** @quickgrind



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