

New Tool Quality at a Regrind Price!



NAS follows their 4 Quality Management™ plan for overseeing all regrinds, resulting in a smoother regrind process from beginning to end.

- Customers can confirm order status on expected delivery dates, order quantity, non-regrindeable quantity, etc.
- Customers can also control stock and manage their order schedule for new tools.

- Each tool is carefully inspected by several precise inspection instruments.
- Only NAS can provide the quality control standards required for OSG & NAS products.
- NAS regrind quality is equal to that of new tool production due to their quality regrind equipment and precise inspection procedures.

Back order report

Quality control

Shipment management

Technical management

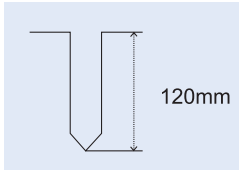
- NAS monitors the quality of their regrind process, as well as the quality of the shipping process up until the customer receives their tools back.
- All regrind tools are handled with care while at the NAS facility.
- To prevent damage during shipment, NAS will individually repackage the tools and ship them in our special regrind containers.

- NAS can estimate the regrind life-span for all regrind orders.
- NAS can provide a drawing from any tool company based on the measurement of the actual tools.
- Based on the OSG inspection manual and equal inspection instruments, we can supply regrinds with the same quality as new tools.




REGRIND EXAMPLES

Tool: FTO-GDXL $\phi 6$
Material: 1050 Carbon Steel
Cutting Speed:
 $V=90\text{m/min}$
 $f=0.2\text{mm/rev}$

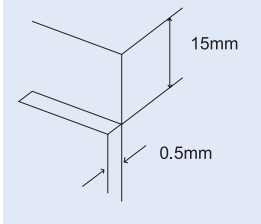


Tool Life

NEW	814 Holes
Regrind & Recoat	800 Holes




Tool: Carbide End Mill $\phi 10 \times 4$ Flutes
Material: 304 Stainless Steel
Cutting Speed:
 $V=100\text{m/min}$
 $f=0.05\text{mm/t}$

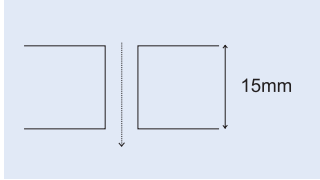


Tool Life

NEW	430m
Regrind & Recoat	400m




Tool: Carbide Drill $\phi 7$
Material: 1050 Carbon Steel
Cutting Speed:
 $V=150\text{m/min}$
 $f=0.21\text{mm/rev}$



Tool Life

NEW	2,638 Holes
Regrind & Recoat	2,600 Holes and possible to continue



SPECIAL CONTAINER

NAS provides each customer one of our special regrind containers. After individually repackaging each tool, we will reship the tools in this container in order to prevent damage during shipment.



DELIVERY

Carbide & HSS Tool Regrinding
 No coating = 2 weeks or less
 With coating = 4 weeks or less
 PCD re-tip & regrind = 3-4 weeks

SPECIAL TOOLS

NAS is the premier manufacturer of quality special tools. Tolerances can be kept to **within 1 μm** , and deliveries are as short as two weeks!



Safe Use of Cutting Tools

- Use safety cover, safety glasses and safety shoes during operation.
- Do not touch cutting edges with bare hands.
- Do not touch cutting chips with bare hands. Chips will be hot after cutting.
- Stop cutting when the tool becomes dull.
- Stop cutting operation immediately if you hear any strange cutting sounds.
- Do not modify tools.
- Please use correct tools for the operation. Check dimensions to ensure proper selection.



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