

# RECONDITION



- High precision CNC regrinding with original geometry
- World leading coating technology
- Fast turn around
- Collect & delivery service

***sutton*tools**  
world class cutting tools

## Regrinding

One of the various services available at Sutton Tools Singapore is regrinding, with a service facility that includes the regrinding of carbide drills.

Thanks to Sutton's regrinding service, drills are returned to clients in 'as new' condition. Quality is guaranteed from the CNC grinding machines which are operated by highly experienced personnel, using advanced technology.

Why choose Sutton Tools Regrinding Services:

- Regrinding services returns tools 'as new' condition
- CNC grinding machines are operated by experienced personnel
- Helps reduce tooling costs over buying new tools

## Recoating

Another service offered by Sutton Tools Singapore is the Physical Vapour Deposition (PVD) coating service, and today is at the forefront of this technology.

Titanium Nitride was the first PVD wear resistant film coating introduced, at that time, the world's leading Low Voltage Electron Beam technology by Balzers of Switzerland. Now known as Oerlikon Balzers, they have remained a world leading company, and their latest technology is in use right across the complete range of Sutton Tools products. Oerlikon Balzers latest coating machine, called the INNOVA, is a new generation coating system and is 'the future of tool coating'.

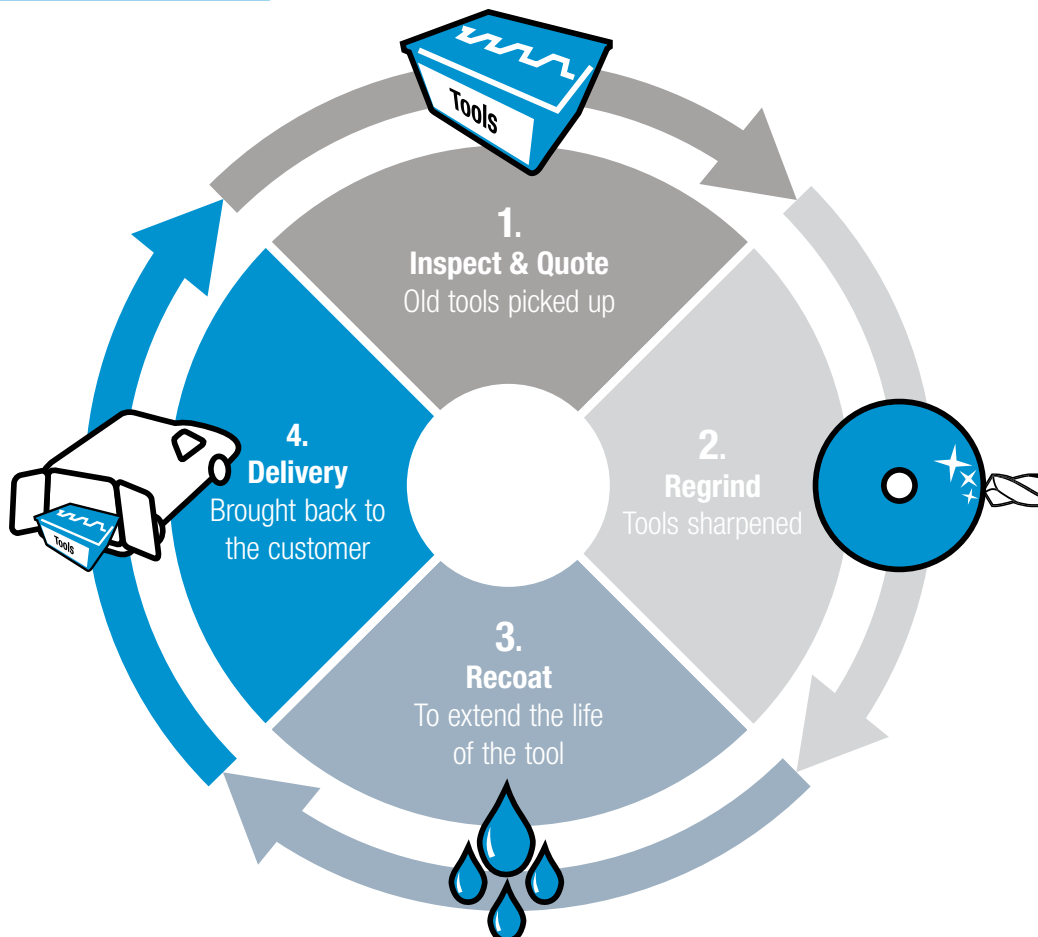
Go to our website to read more about our coatings.

[www.sutton.com.au](http://www.sutton.com.au)

## Free Pick Up & Delivery Service

Our highly skilled staff are dedicated to customer service to ensure delivery and quality commitments are fulfilled which includes a free pick up & delivery service for orders over \$100. For any orders less than \$100, a \$10 handling fee will apply each way.

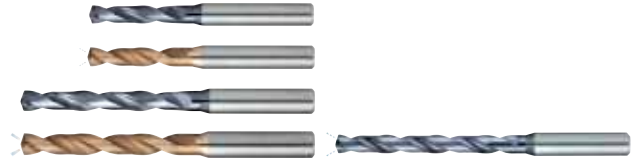
## Tool Regrinding Procedure



## Standard Regrinds



INNOVA PVD coating unit  
500kg capacity



Shank (mm)	3xD / 5xD AlCrN / Helica		8xD AlCrN / Helica	
	Item #	Price	Item #	Price
4.0	801040F28S	\$13	801040F28L	\$16
6.0	801060F28S	\$17	801060F28L	\$22
8.0	801080F28S	\$22	801080F28L	\$29
10.0	801100F28S	\$27	801100F28L	\$36
12.0	801120F28S	\$31	801120F28L	\$42
14.0	801140F28S	\$36	801140F28L	\$49
16.0	801160F28S	\$41	801160F28L	\$55
18.0	801180F28S	\$45	801180F28L	\$62
20.0	801200F28S	\$50	801200F28L	\$68

### Minimum Order Quantity

- 5 drills up to 12mm shank diameter.
- 3 drills over 12mm shank diameter.
- Minimum quantity must be of the same cutting diameter.

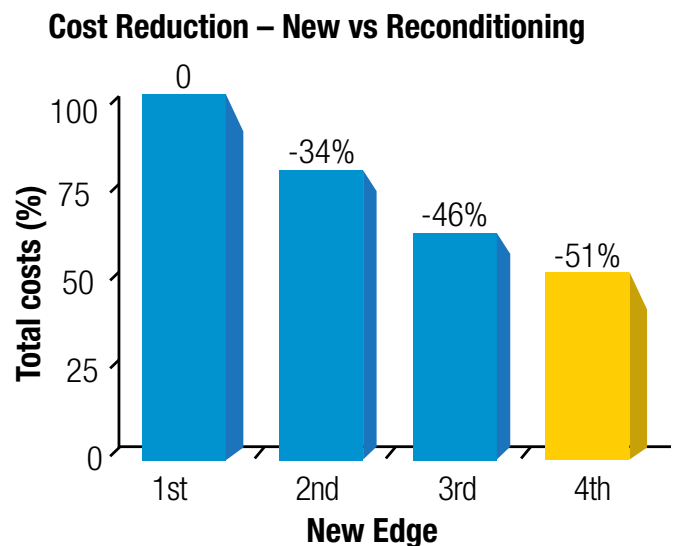
**Note:** Drills with more than 1mm chip-off or broken cannot be accepted for reconditioning.

Trade Name	Coating	Coating Structure	Micro-hardness	Coeff. of Friction vs Steel	Thermal Stability	Colour
<b>Alcrona (AlCrN)</b>	Aluminium Chromium Nitride	Mono Layer	3200 HV	0.35	up to 1,100°C	Blue – Grey
<b>Helica</b>	Alcrona based	Multi Layer	3000 HV	0.25	up to 1100°C	Copper

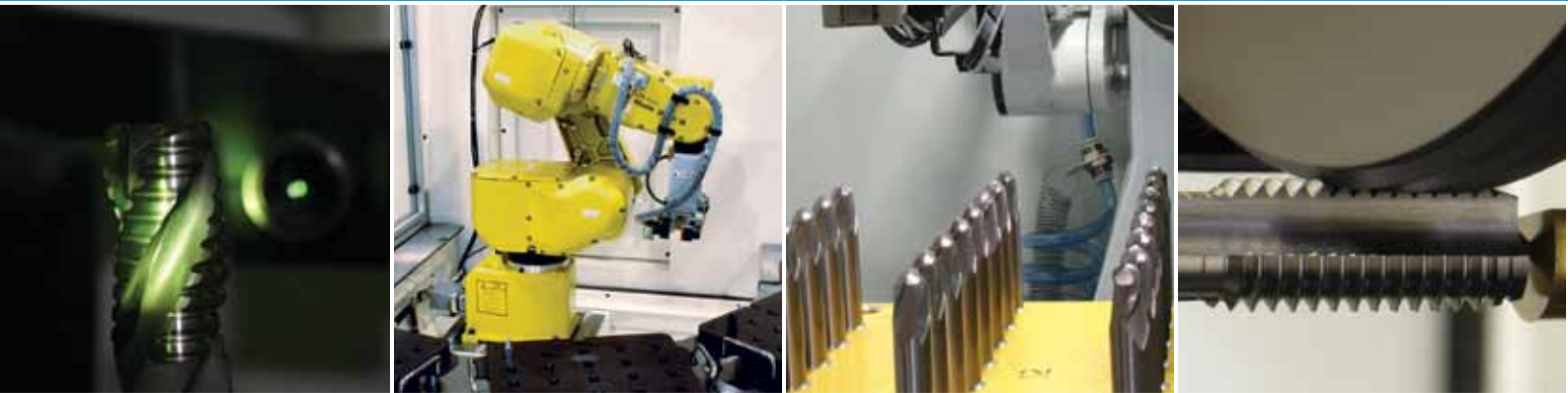
## Case Study – Cost benefits of reconditioning our drills

**Example:** D332 10mm 5xD IK R30N Carbide Drill, AlCrN coated.

No. of new edges	New Tool cost	Regrind / Recoat cost	Saving
1st	\$86	\$86	0%
2nd	\$86	\$27	-34%
3rd	\$86	\$27	-46%
4th	\$86	\$27	-51%
<b>Totals</b>	<b>\$344</b>	<b>\$167</b>	<b>-51%</b>



Prices exclude GST and are subject to change.



# WORLD CLASS CUTTING TOOLS

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