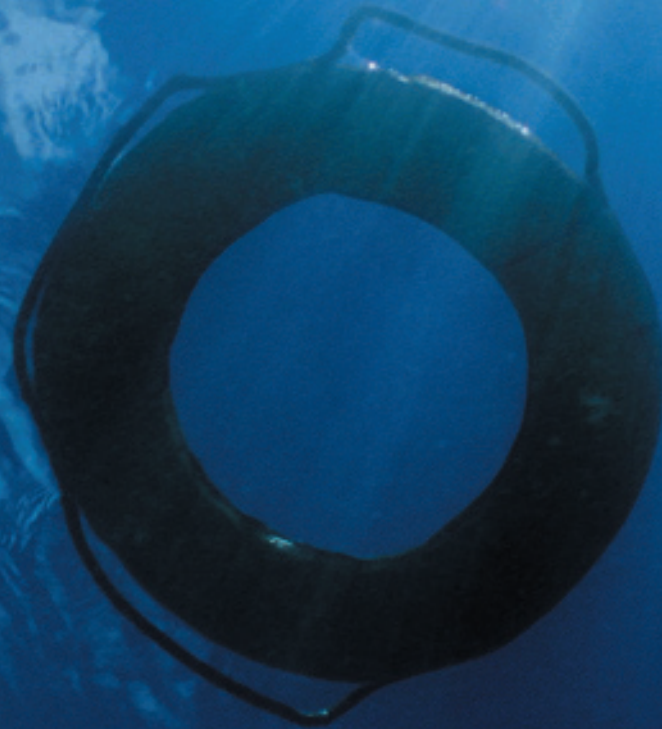




# Life Saving Service for Tools



- Tooling Reclamation & Work Holding
  - Regrind and Recoat
- New Tooling Manufacture

**NEW** Tooling capability

*Breathing new life into damaged tools*



## Precision Tooling Engineers

Developed over 28 years, tool reclamation company NTR provides many of Europe's leading automotive, aeronautical and high precision sub-contract manufacturers with substantial cost savings against the price of new tooling.

### NTR QUALITY

Registered to BS ISO 9001:2000, NTR is recognised for its high quality precision engineering capabilities, ensuring we continuously meet the exacting demands of our customers.



NTR's 'welding know-how', through the use of both Plasma and TIG technologies and combined with specialist welding rods, enables the company to deliver a weld deposit consistent to the parent metal.

Through the use of CNC technology NTR generate the dimensional accuracy for most makes of u-drills which they repair. The use of "Indexing Plates" and digital readouts for all manually repaired tooling guarantees pocket accuracy.

### INSPECTION

Our aim, to provide customers with the peace of mind knowing that their tools will perform as new after each successive repair.

Rotary tooling is repaired to 0.03mm - 0.08mm and comes with its own 'Inspection Certificate' confirming the maximum and minimum radial and axial run outs.

### SERVICE

From order confirmation, NTR offers a two-week turnaround as standard. This excludes transportation time.



# Breathing new life into damaged tools

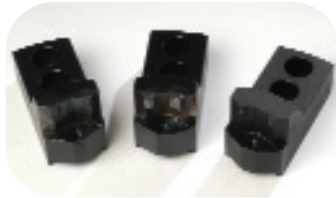
NTR has also extended into other service areas covering:

## WORKHOLDING

Another area of consumable spend where NTR can help manufacturers save money is in the reconditioning of Workholding.

By applying the same weld technologies as used in tooling reclamation, NTR can repair Chuck Jaws, Centres and Locators back to manufacturers original specification in addition to an array of other fixtures and wear parts, which become worn in the machining process.

Combining specialised welding materials and heat treatment processes guarantees that wear parts are returned to a critical hardness (60HRC) after they have been repaired by NTR.



*Refurbished Special Hard Chuck Jaws.*

## CNC REGRIND & RECOATING OF SOLID CARBIDE DRILLS AND END MILLS

NTR also offer a 7-axis CNC regrind and recoat facility for solid carbide drills and End Mills.

Operating licensed software to produce the original manufacturers cutting geometry, NTR can deliver retained and improved cutter efficiency through a choice of world class coating technologies.

The Company's adherence to BSI procedures in operating state of the art ANCA CNC machines ensures consistency of service and continuous improvement is assured.



*Examples of reground and recoated Solid Carbide Tooling.*



## NEW TOOLING TO DRAWING

Of increasing value and importance to customers is NTR's capability to manufacture new tooling to drawing.

One off Special Tools can be manufactured as readily as high volume batch runs, equally whether it be multi-pocketed tooling to simple cutting design NTR can manufacture a wide variety of tools to meet customers stringent cutting demands.

Using our expert knowledge in machining pocketed tooling and the latest software, guarantees cutting accuracy with pocket geometry being made to fit ISO or bespoke insert design.



*Examples of manufactured Special new tooling.*

## OTHER SERVICES

### Emergency Service

Customers are offered an emergency service providing a 24-hours-a-day, seven-days-a-week turnaround, dependent upon need. A 25% premium applies based on the speed of service required.

### Provision of spares

In most cases a wide range of spares from leading manufacturers can be provided for those customers wishing to use this additional service.

### Tooling Modification

NTR can also undertake a variety of modifications to suit different types of inserts, cutting diameters, heights and angles. Customers wishing to use this service should contact us in advance of work commencing.

Employing 43 people and occupying 12,000 square feet of manufacturing and office space, the company has experienced substantial growth as the need to renew and recycle becomes increasingly important in today's economy.

### WHAT OUR CUSTOMERS SAY

NTR regularly undertake customer satisfaction surveys to ensure we continue to meet the needs of our clients:

- 76% of customers say our quality is the single most important factor when using our services
- 88% of customers rate NTR's service as good to excellent
- 96% of customers rate NTR's quality as good to excellent.

### CLIENT CASE STUDY

**Problem facing client:** New tooling costs increasing with no clear system for repair.

**Solution:** NTR worked with the client to agree a formalised process for tooling repair in order to address the above issues.

**Process:**

- All tooling is reworked to drawing
- Spares identified and an order placed in advance before work commence
- Tooling goes through strip down, weld, grinding, milling and fitting process
- They are then inspected to the specified tolerance and issued with a certificate before being returned



*NTR's modern premises at Wetherby, serving Europe's leading manufacturers.*



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*To find out more about tooling reclamation visit our new website at:*  
**[www.ntrltd.com](http://www.ntrltd.com)**