



# NZ SERIES

Automatic Straight Knife Grinder



**ADVANCED TECHNOLOGY IN THE TOOLROOM**



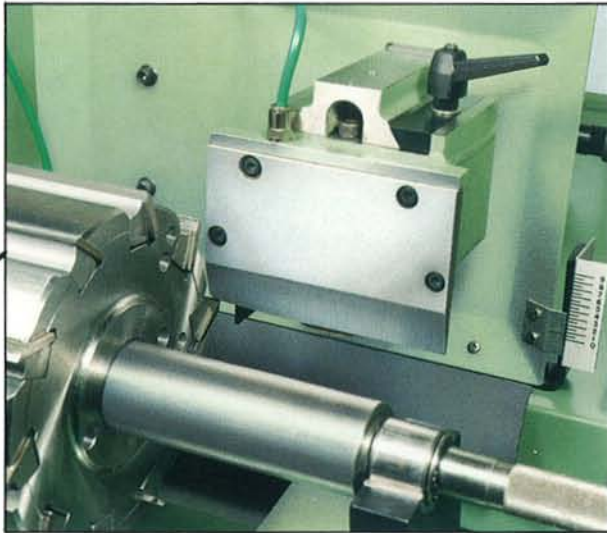
# NZ SERIES

The Wadkin Tooling NZ Series Grinder is a large capacity machine for grinding planerheads to a concentric accuracy better than 0.005mm. This precision guarantees frequent rejointing on high speed planer/moulder machines extending the cutter life and minimizing the need for cutter regrinding. The machine set-up parameters are aided by computer messages; the machine then maintains and monitors the grinding process automatically.

The tradition of Wadkin Tooling quality of design and construction, the simplicity of use, extensive working capacity and undeniable economy add further to the universal appeal of the machine. The standard benefits and innovations described briefly in this leaflet underline Wadkin Tooling's claim to be the foremost manufacturer of Grinding Machines and allied equipment.



# Designed and manufactured by Toolmakers f



## GRINDING WHEEL AND INFEEED

The Grinding Wheel increments forward automatically to take a predetermined cut off each blade. The machine can distinguish between the roughing and finishing cut and sparking out to ensure that only the required and minimal amount of material needs to be ground away. Importantly, the depth of cut is programmable to allow the maximum amount of material to be removed when rough grinding, and yet allowing minimal finishing and sparking out cuts to be set; this ensures a significant reduction in the cycle time coupled with consistent concentric accuracy and quality of grind.

## CONTROL PANEL

Control over the setting-up operation and the grinding parameters is exercised through straightforward push button controls. The menu-driven screen illuminates to either guide the operator through the setting procedure or shows the grinding operation in progress. The infinitely variable grinding speeds, up to an impressive 3m/min, allow a significant reduction in grinding time and increased productivity.



## ARBOR ASSEMBLY

The arbor assembly is designed for quick and easy loading/unloading and is attached to the index unit through a quick release coupling to eliminate the use of any screws, spanners or keys. Spring-loading the cutterhead against a tungsten carbide knife guide guarantees a high level of accuracy. The sealed, precision steel arbor bearings prevent wear on the indexing/arbor assembly through grinding debris promising long term grinding accuracy. As the indexing unit can be programmed for any number of knives, alterations can be carried out instantly and without the need for time-consuming mechanical adjustments to the machine.

## COOLANT SYSTEM

The coolant tank is mounted on a trolley and accessible from the front of the machine to allow the tank to be removed for untroubled cleaning and refilling. The position of the coolant tank gives the operator complete flexibility when determining the location of the machine in the toolroom and the coolant tray makes the removal of grinding waste both cleaner and easier.





### **NHP**

*Fully automatic CNC controlled straight knife grinder.*



### **NXU**

*The top of the range Universal grinding machine for profile, planerhead, solid profile, router cutter, jointing stone and template grinding.*



### **MINI-CASS**

*Computer Aided Setting System fully compatible with the whole range of WADKIN and WADKIN TOOLING machines.*



### **CUTTERHEADS**

*The most advanced and comprehensive range of cutterheads and related equipment on the market today.*

# or Toolmakers

## TECHNICAL DATA

Maximum cutter length . . . .	330mm
Maximum cutter diameter . . .	300mm
Minimum cutter diameter . . .	80mm
Wheel diameter . . . . .	100mm
Wheel bore . . . . .	20mm
Spindle speeds (synchronous/full load) . . . .	5000/4750rpm
Spindle motor . . . . .	0.9kW
Traverse speed of table . . . .	Variable up to 3m/min
Traverse motor of table . . . .	0.18kW
Indexing motor . . . . .	0.024kW
Indexing rate . . . . .	4rpm
Tank capacity . . . . .	40 litres
Pump motor . . . . .	0.06kW
Pump capacity . . . . .	20l/min

## MACHINE DIMENSIONS

Height . . . . .	1140mm
Length . . . . .	1730mm
Depth . . . . .	960mm
Weight . . . . .	800kg

## STANDARD EQUIPMENT

- Computer Control System
- 3/Phase Electrical specifications to requirement
- 100mm diameter borazon grinding wheel
- Arbor diameter to requirements complete with set of locking collars
- Knife guide for thin knives (3mm & 4mm)
- Set of spanners
- 1/2 litre soluble oil
- Interlocked safety guard
- Removable coolant tank
- Instruction manual

## OPTIONAL EQUIPMENT

- Knife guide for 6, 8, 9.5mm and 11mm knives
- Full range of arbors
- Full range of diamond and borazon grinding wheels



### UTW

The Ultrasonic Cleaning Tank is part of our comprehensive range of tool maintenance equipment.



### CASS

Computer Aided Setting System for accurate machine pre-setting from the toolroom.



### TENA-DISC

The truly flexible tenoning system guarantees in-house control which also makes prototype work and short runs a viable proposition.



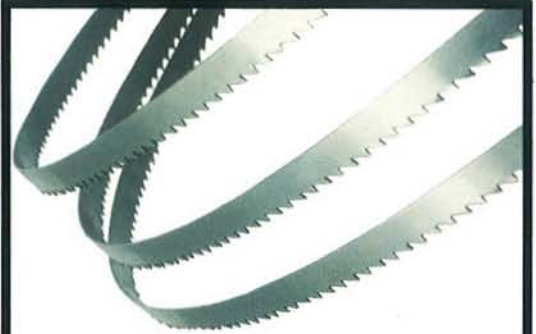
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**Wadkin Tooling**

Green Lane Road, Leicester LE5 4PF  
England

Telephone: 0533 769111  
Telex: 342576 (Wadtol G)  
Fax: 0533 742389

As our policy is to constantly improve design, the details provided in this leaflet are not to be regarded as binding.



### BANDSAWS

A comprehensive range of both wide and narrow saws and band resaws to suit all wood sawing applications in a variety of materials.



### CIRCULAR SAWS

Ripping, crosscutting as well as specialized applications, splitting on moulders or cut-offs on tenoner are catered for by the saws available from WADKIN TOOLING.



### ROUTER CUTTERS

HSS and TCT router cutters are supplemented with the diamond and stellite tipped range to satisfy most design requirements.



### HYDROFIX TONGUE AND GROOVE

The adjustable and regrindable Tongue and Groove system guarantees continuous upgraded accuracy for a multitude of applications.

WT NZ/E/4321

Printed in England