

**NIKKEN**



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# KHYAN-TW

# KHYAN TW - OVERVIEW

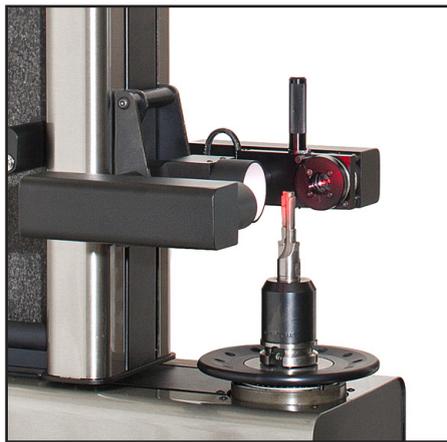
This tool presetting machine has been developed as a more cost effective equivalent to competitor tool inspection machines.

Designed completely free-standing on its own integral base; Khyan-TW features ground granite and stainless steel construction combined with a single high-definition screen, linked to two outstanding optical cameras with digital zoom capabilities. The system employs industrial PC architecture providing operational and functional simplicity that is simple to learn and even incorporates additional capabilities focussed specifically on tool geometry .

The precision spindle system is fully interchangeable and utilises a one piece cartridge - eliminating the need for adaptors and the errors associated with their use. Incorporated within the spindle is our innovative universal mechanical clamping system with electronic tool clamping confirmation.

Integrated within the innovative software package is a complete tool management system and network port. Working via your DNC system this can convert measured tool data into CNC code for direct loading into the machine controller and associated tool offset pages. Also included with the system as standard is full WI-FI connectivity.

Further capabilities, on both cameras, include the ability to import and export .dxf CAD profiles for detailed checking and comparison on the full high-definition 23" screen.



## 90 degree swivel secondary camera system (TW<sub>in</sub>)

- The innovative 90° swivel secondary camera system allows any cutting tools to be viewed from the top (tool end) and also from the side of the tool
- It is possible to measure the tool in the traditional manner with the traditional first camera and then to check / inspect the geometry of the tool at up to an incredible 70x zoom with the second swivel camera
- Using digital enhancements on both cameras it is possible to achieve digital zoom of 56x & 112x on the first camera plus 140x and 280x on the secondary swivel camera

## KHYAN TW QUICK FACTS

Free standing model

Natural granite base & column

### MEASURING RANGE

X Axis: Diameter of tool  $\varnothing 0 - \varnothing 320\text{mm}$

Z Axis: Length of tool 0 - 500mm

### TOOL MEASURE

CNC machine origin management

Built-in toolset management

### SPINDLES

Interchangeable mechanical clamp spindles

Spindles: ISO / BT / IT / HSK / Capto / VDI

### MIN. READING INCREMENT

X Axis: 0.001mm (radius / diameter)

Y Axis: 0.001mm

### OPERATING SYSTEM

Ubuntu Linux with printer support

Integrated WiFi & 10/100 Ethernet Card

Industrial PC with Celeron M® Processor

23" Full HD monitor, keyboard & mouse

### POWER

AC 100~230V

### VISION SYSTEMS

#### Camera One

- 28x optical magnification
- 1.3 Mega pixel CMOS-Sensor (10 x 10)

#### Camera Two (swivel)

- 70x optical magnification
- 1.3 Mega pixel CMOS-Sensor (4 x 4)
- 3.9  $\mu\text{m}$  / pixel

Both cameras have digital zoom (2x & 4x)

Multiple measure functions, cutting edge inspection & geometric scanning