



**KOMA PRECISION**  
THE KEY TO PERFORMANCE  
[www.komaprecision.com](http://www.komaprecision.com)

# KOMA

## TOOL PRESETTER

### Selection Guide

2022



**WE FOCUS ON BEING THE BEST—**  
that's why leading companies choose Koma.

WE ARE THE EXCLUSIVE NORTH AMERICAN IMPORTER,  
NATIONAL DISTRIBUTOR, AND SERVICE CENTER  
FOR OUR OWN LINE OF ELITE TOOL PRESETTERS.

**PERFORMANCE**

## PERFORMANCE CONSTRUCTION

- Thermally stabilized steel structure
- Tempered steel, high precision sleeve with calibration spheres
- Integrated support bench
- Tempered steel interchangeable tool holders with a 2 $\mu$  maximum run-out.

## AXIS MOVEMENT

- X Axis (Diameter) = 400mm / 15.75in
- Z Axis = 44: 400mm (15.7 in.) / 45: 500mm (19.6 in.) / 46: 600mm (23.6 in.)
- Pneumatic axis locking
- Air - Max 8 bar

## SPINDLE

- Interchangeable ISO30, 40, or 50 for different tapers
- Tool sleeve rotation brake
- Fine micrometric adjustments
- Glass optical scales, SP-class precision linear guides
- Mechanical Pull Stud Clamping, automatic pull stud recognition

## OPERATING SYSTEM

- Vertical Full HD 24" Monitor
- CVS, user friendly software
- Windows Operating System with data back-up system
- Storage of up to 200 machine origins and 40,000 tools
- 7 port USB hub
- 1 Network LAN port
- Keyboard, mouse and label printer included with adjustable support tray
- CVS Software includes 40 post-processing templates
- Ability to create work groups with dedicated tools for specific machining processes

## CAPABILITIES

- ID Image for each machine origin
- Fixed/Mobile Axis
- Automatic Radius & Angle Computing Cycle
- X&Z Axis Focusing Control Bar
- Full Screen Auto Targeting
- Real-view tool inspection
- Geometric measurement functions
- Multicutter measurement
- Ghost function, max profile of tool is measured when rotated
- Measure - Radius/Diameter, MM/Inches, Absolute/Incremental Modes
- DXF Tool Profile Creation

## VISION SYSTEM

- HD C-Mos sensor camera with telecentric lenses
- 40x Magnification
- 7 x 7 field of view
- Cool light LED ring illuminator with light intensity regulation

## DIMENSIONS

Model		44	45	46	65	66	68
Max $\varnothing$	mm	400	400	400	600	600	600
Height	mm	400	500	600	500	600	800
Dimensions (w,d,h)	mm	1167x600x1757	1167x600x1857	1167x600x1957	1267x600x1857	1267x600x1957	1267x600x1957
Net Weight	kg(lb.)	260 (573)	265 (584)	270 (595)	295 (650)	300 (661)	310 (683)

## FEATURES



## HIGH PERFORMANCE

Powerful and easy to use, the Performance presetter is a sophisticated measuring machine for tool analysis. With many advanced features and the ability to manage your tooling library, the Performance presetter is the ultimate in tool presetting.

## CONSTANT GEOMETRY TECHNOLOGY

Material choice is at the heart of constant geometry technology. Using only like materials with identical thermal expansion coefficients, we can guarantee constant presetter geometry in all working conditions.

## ERGONOMICALLY DESIGNED CONTROLS

With the operator in mind, the Performance presetter was designed with an ergonomic micrometric hand wheel allowing for easy fine adjustment of the presetter's optics. A "zero gravity" support column allows smooth, effortless movement of the camera optics in both X and Z. Easy to use interchangeable tool pots allow the presetter to be quickly switched to accommodate any type of tooling. The full keyboard and mouse rest on an adjustable tray allowing any operator to quickly adjust for height.

## SOFTWARE

Simple and intuitive, the CVS software is easy to use. All functions are easy to find and shown using simple, graphical icons. It's never been easier or faster to set your tooling; create tool lists and tool offset files in minutes. The Performance allows up to 200 machine origins and tool lists up to 200 tools. The new DXF function allows the operator to quickly compare tool profiles or create and export a tool profile. The easy to use post processing system allows the presetter to communicate with over 40 CNC control types.

## VIEWING SYSTEM

Easy to use software combined with a full 24" HD monitor provides the operator with full control. Easily select any of the presetters measuring options with one click, while still viewing the edge of the cutting tool. The telecentric lenses on the HD cameras provide a full field of vision.

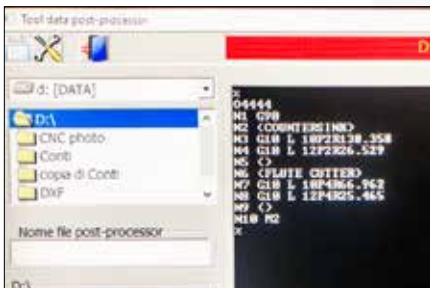
## SLIDEWAYS / OPTICAL SCALES

The Performance is built with dual SP Precision guides and preloaded recirculating bearings mounted to a stabilized steel base, ground to 2 microns of planarity. 1-micron glass optical scales are used to ensure the highest accuracy of tool measurements.

## SPINDLES

High precision, interchangeable spindle pots allow a guaranteed maximum of  $\pm 2$  microns of run-out. A built-in calibration sphere eliminates the need for an extra calibration gauge, and allows for fast and precise setup.

# PERFORMANCE



## USER FRIENDLY INTERFACE

Simple and intuitive, the CVS software is easy to use. All functions are easy to find and shown using simple, graphical icons. It's never been easier or faster to set your tooling; create tool lists and tool offset files in minutes.

## VIEWING SYSTEM

Easy to use software combined with a full 24" HD monitor provides the operator with full control. Easily select any of the presetters measuring options with one click, while still viewing the edge of the cutting tool. The telecentric lenses on the HD cameras provide a full field of vision.

## POWERFUL COMPUTING SYSTEM TOOL DATA MANAGEMENT

This powerful new operating system utilizing Windows, features state-of-the-art tool measuring, inspection and data management solutions. Koma presetters increase efficiency, reduce down time and are supported by extensive applications, technical support, and a global service network.

# UNLOCK YOUR POTENTIAL TODAY!

For Over 40 years Koma Precision Inc. has partnered with Tsudakoma and Alberti, to become the North American leader in machine tool accessories. Both Tsudakoma and Alberti machine tool accessories are built to the highest standards and set the bar for excellence, quality, and performance.

Koma Precision has an installation base of over 30,000 Tsudakoma rotary tables and 25,000 Alberti angle heads and live tools, leading the way with knowledge and experience.

## Knowledge and Experience Matter.

Our three facilities totaling 40,000 sq/ft, feature a full machine shop, state-of-the-art inspection and test equipment, and product demonstration showroom. Our Connecticut based headquarters also houses our multi-million-dollar inventory of new products and spare parts.



20 Thompson Road  
East Windsor, CT 06088

Tel: 1.800.249.5662  
Fax: 860.623.4132  
info@komaprecision.com



**KOMA PRECISION**  
[www.komaprecision.com](http://www.komaprecision.com)

