



PRIME



PRESETTER GUIDE

FEATURES

PRIME CONSTRUCTION

Thermally stable steel structure
Interchangeable tool sleeve with reference notch
Dimensions= 870mm L x 516mm D x 880mm H
Weight= 90Kg (198lbs.)

AXIS MOVEMENT

X Axis (Diameter) = 320mm / 12.6in
Z Axis = 400mm (15.7 in.)
Resolution X & Z Axis - 1 μ m
Mechanical axis lock
ISO 30/40/50 with additional spindles available

SPINDLE

Interchangeable tool sleeve
Manual tool sleeve rotation brake
Fine micrometric adjustments
Glass optical scales, SP class precision linear guides
Concentricity - 2 μ m
Maximum tool weight 40kg / 88 lbs.

OPERATING SYSTEM

Vertical 19" Monitor
CVS Smart, user friendly software
Windows Operating System with data back-up system
Storage of up to 50 machine origins and 5,000 tools
3 port USB hub
1 Network LAN port

CAPABILITIES

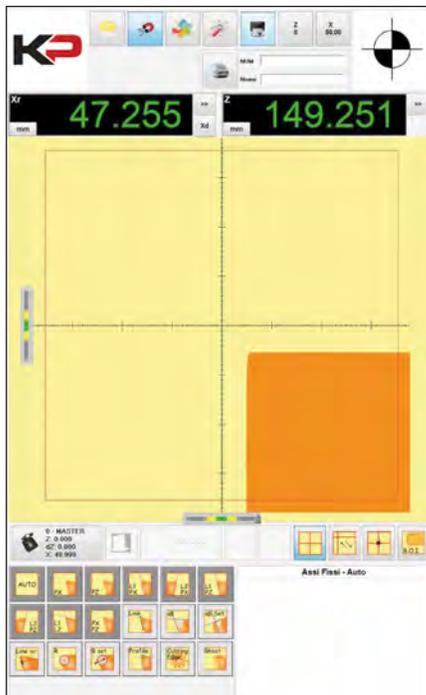
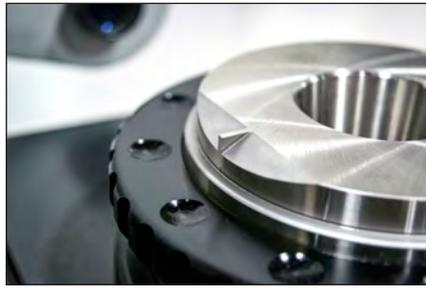
ID Image for each machine origin
Fixed/Mobile Axis
Automatic Radius & Angle Computing Cycle
X&Z Axis Focusing Control Bar
Full Screen Auto Targeting
Real-view tool inspection
Measure radial and axial runout

VISION SYSTEM

HD Camera with Telecentric Lenses
40x Magnification
5 x 5 field of view
LED Lighting System for Tool Inspection

OPTIONS

Label printer



USER-FRIENDLY INTERFACE

Entering the world of tool presetting is made easy with the Prime. Fully equipped and easy to use, the Prime offers a user-friendly intuitive interface, allowing for easy setting of tools and inspection. Easily check tool geometry using one of the auto-measuring functions.

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.

ERGONOMICALLY DESIGNED CONTROLS

With the operator in mind, the Prime 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 allows the presetter to be quickly switched to accommodate any type of tooling.

SOFTWARE

Simple and intuitive, the CVS Smart software is easy to use. All functions are easy to find and shown using simple, graphical icons. It has never been easier or faster to set your tooling. Create tool lists and generate tool offsets in minutes with the CVS Smart software.

VIEWING SYSTEM

Easy to use software combined with a full 19" 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.

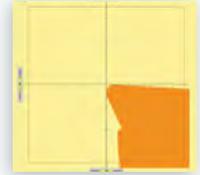
SLIDEWAYS / OPTICAL SCALES

The Prime is built with dual SP Precision guides and pre-loaded 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.

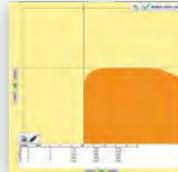
PRIME



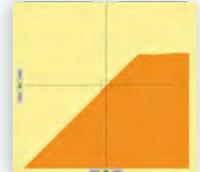
Real View. inspection of tool wear and tool conditions.



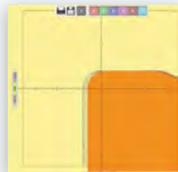
Fixed Axis. Aided acquisition of tool dimensions (radius/height).



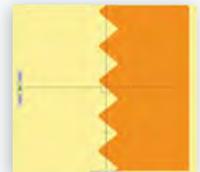
Mobile Axis. Automatic acquisition of tool dimensions (radius/height).



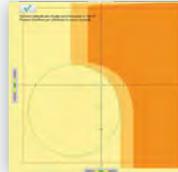
Quick counter sink measurement system.



Insert Profile. Profile visualization of multiprofile tools.



Measuring pitch threads.



Ghost. Profile visualization and measurement of rotating tool.

Control panel

Screen shot

Real View

Image of selected machine

X value (radius)

Z value (height)

Alignment arrows

Viewing field

Origin selection

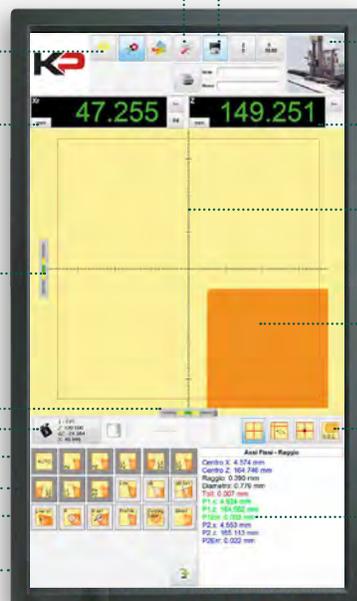
Tool Profile

Measurement tools icon

Measurement mode selection

Geometric tools icons

Tool geometry data





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