

## **Jig-Grinding on a KERN Pyramid Nano Machining Centre**

### **Art. No. 200011634**

Basic coordinate jig grinding package for KERN Pyramid Nano for milling and/or grinding operation of work pieces in one clamping set up and in one NC program

Scope of supply:

- Removable and adjustable dressing spindle with ultrasonic sensor in the work area for the dressing of the grinding tool (activation via NC)
- Integrated ultra sonic sensor (up to 4 sensors can be fitted) for automated probing, automated dressing and automated control if the tool is in intervention
- Ethernet-Interface for visualisation of the ultrasonic by means of an external PC including
- Defined special cycles for:
  - **Drilling**
  - **Cylinder**
  - **Probing**
- Automatic switching from fast feed to operation feed during tool intervention (air grinding)

### **Art. No. 200011636**

Supplement ultrasonic fluid sensor for coordinate jig grinding package for KERN Pyramid Nano for the determination of the contact point tool - tool by a cooling lubricant stream

Scope of supply:

- Ultrasonic fluid sensor
- Supplementary cooling lubricant feed

### **Art. No. 200011637**

Supplement magnet sensor for coordinate jig grinding package for KERN Pyramid Nano for determining the contact point tool - tools by a sensor which can be positioned individually by magnet force

Scope of supply:

- Magnet sensor

### **Art. No. 200011635**

Supplement pendulum stroke for coordinate jig grinding package for KERN Pyramid Nano for independent pendulum motion of the Z axis

Scope of supply:

- Hydrostatic driven and guided Z axis for a wear less pendulum motion
- Water-cooled drive motor of the Z axis adapted to the exposure profile
- NC cycles for simplest programming of a Z motion independent of X-Y