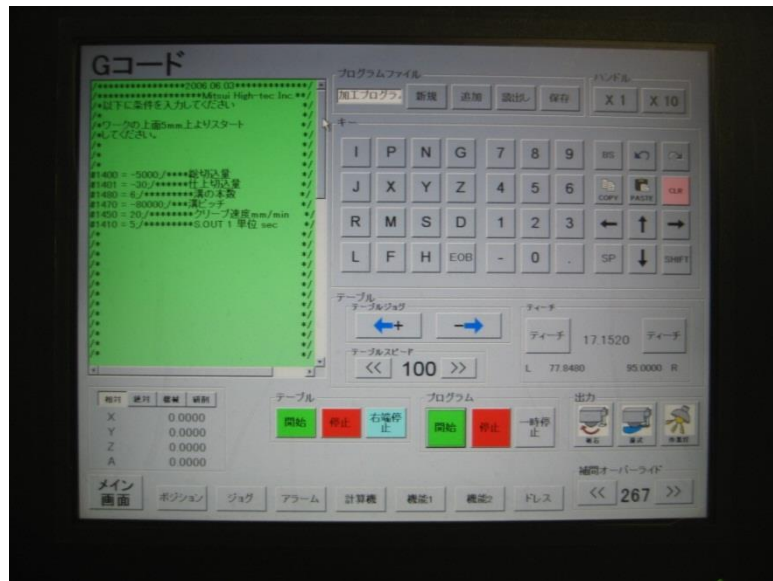


Mitsui High-Tec PCNC Grinder

6.15.17 Informational Seminar

(All Presentation Materials will be supplied via email after the Seminar)



PC Based CNC Control

History of the MHT PCNC Grinder

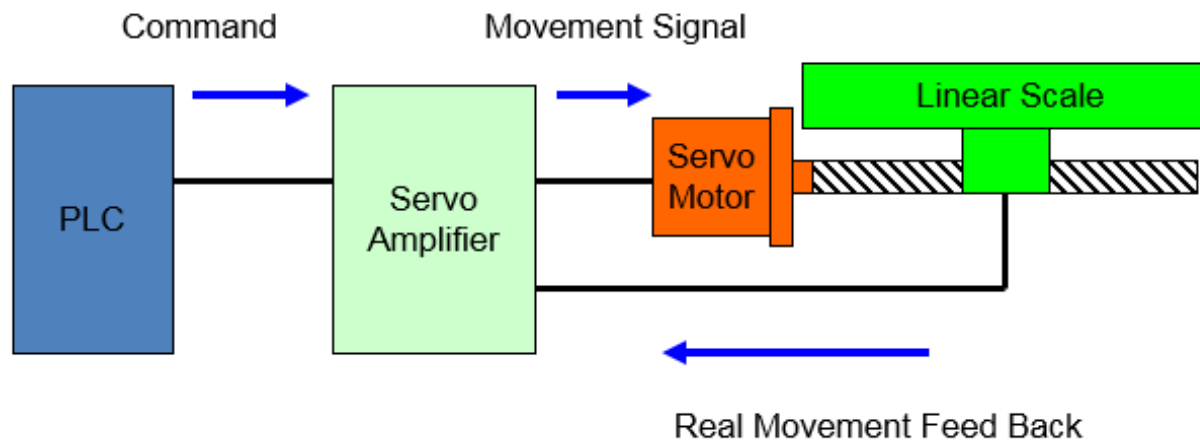
- 2002 – First MHT “In-House” PCNC Grinder development begins
- 2004 – First MHT PCNC Grinder offered for sale
- 2005 – First MHT PCNC Grinder Sold (US Market – PA)
- 2013 – Current PCNC Grinder (Rev.3) released
- 2017 – PCNC-L Demo Machine and Stockist Program started



MSG-618/818 PCNC Rev.3



Scale Feedback System (optional addon)



MHT PCNC Availability 1

- MSG618/818-PCNC (6x18/8x18 table, servo motor)



- MSG618/818-PCNC-L (6x18/8x18 table, linear motor)



MHT PCNC Availability 2

- MSG525-PCNC (10x20 table, servo motor)



- MSG525-PCNC-L (10x20 table, linear motor)



MHT PCNC Availability 3

- MSG300-PCNC-L (12x24 table, linear motor)
 - Built for Multi-Axis Grinding



- MSG618-PCNC-L+ID (6x18 table, linear motor, indexing unit)
 - (In Development in Japan)

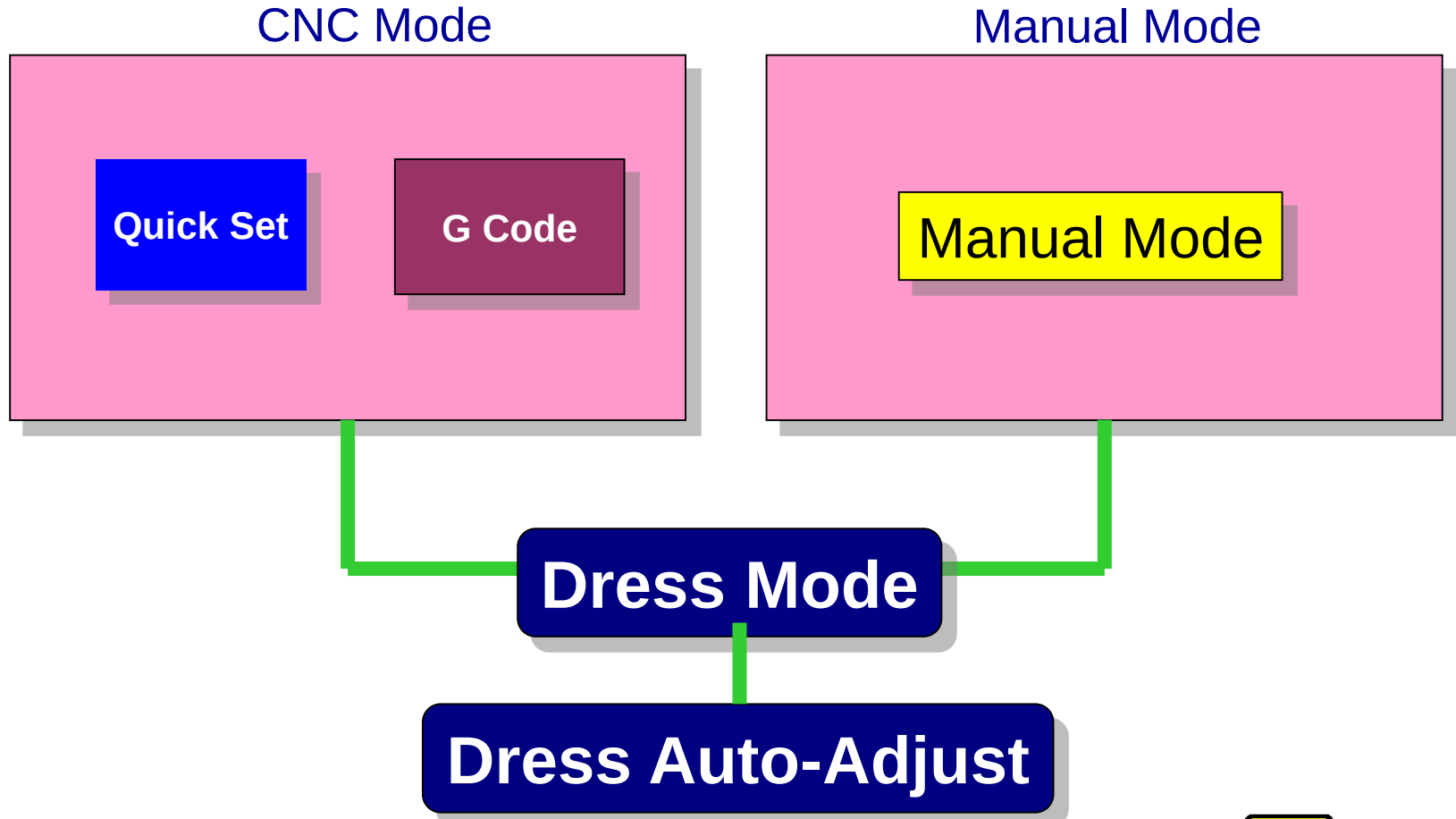


Feature of PC-NC

- Variety of Programs
 - Standard Programs
 - Surface / Plunge / Equal Pitch Slot / Un-Equal Pitch (Canned Cycle)
 - Manual Mode
 - G Code
 - Wheel Management (Wheel Data registered & Call it for Grinding Cycle)
 - Optional Programs
 - Radius/Taper Dress
 - Creep Feed
 - Rotary Grinding
 - Rotary Dress & Slot Grinding (G Code Slot: Use G Code for Dress & Slot by Canned Cycle)

Machine Control Configuration

MHT PCNC Grinder machines offer both PCNC and Manual operation



Quick Set Mode 1



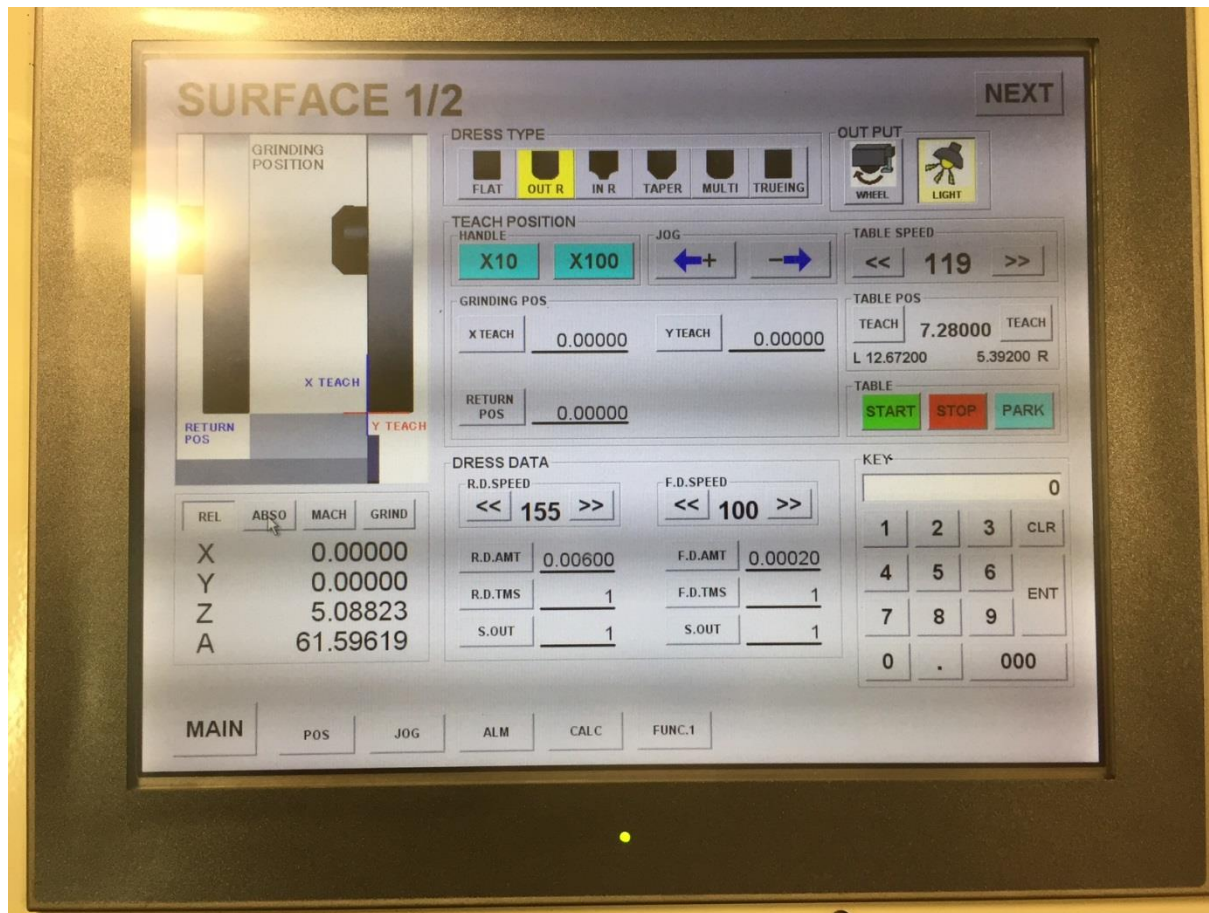
Quick Set Mode Control Panel

Quick Set Mode 2



Quick Set Mode Control Panel

Quick Set Mode 3

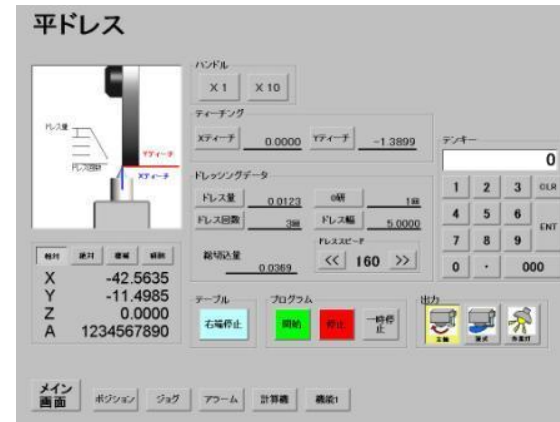


Quick Set Mode Control Panel

Automatic Dress Software

Provide Flat or Radius/Taper Dress with Canned Cycle (Interval Dress)

Flat Dress



Radius / Taper Dress



3 Point Dress Unit (Optional)

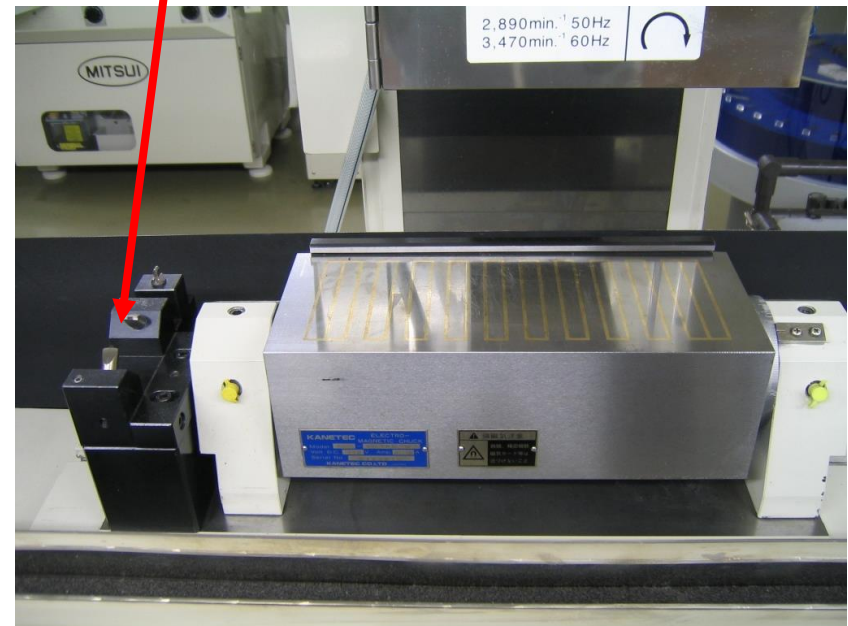


Forming Dress System

Rotary Dresser System



3 Point Dresser System

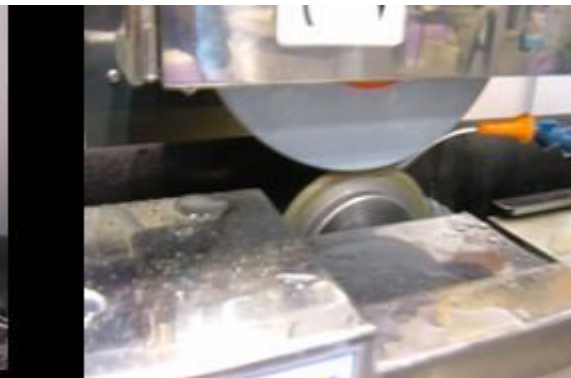
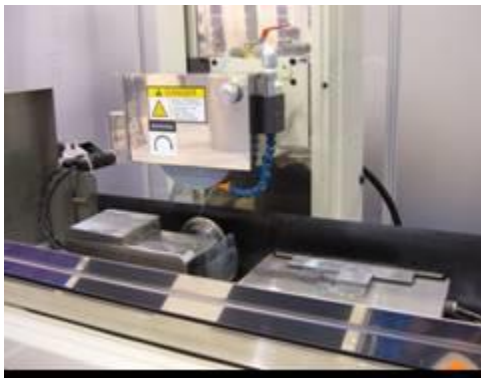


618PC-NC w/Rotary Dresser

Form Dressed Grinding



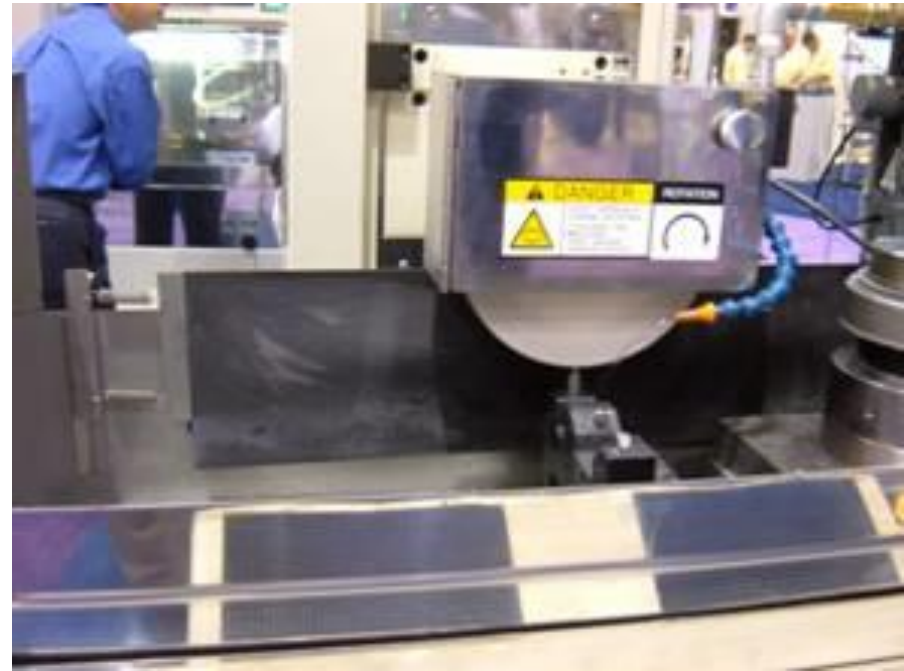
- Rotary Dress System



Ground Radius Slot

618PC-NC w/Rotary Table

Ground Ultra flatness parts



- Air Bearing Table
- Special Grinding Software
- Single Point Dresser (Std.)

618PC-NC w/Cylindrical Grinding Unit

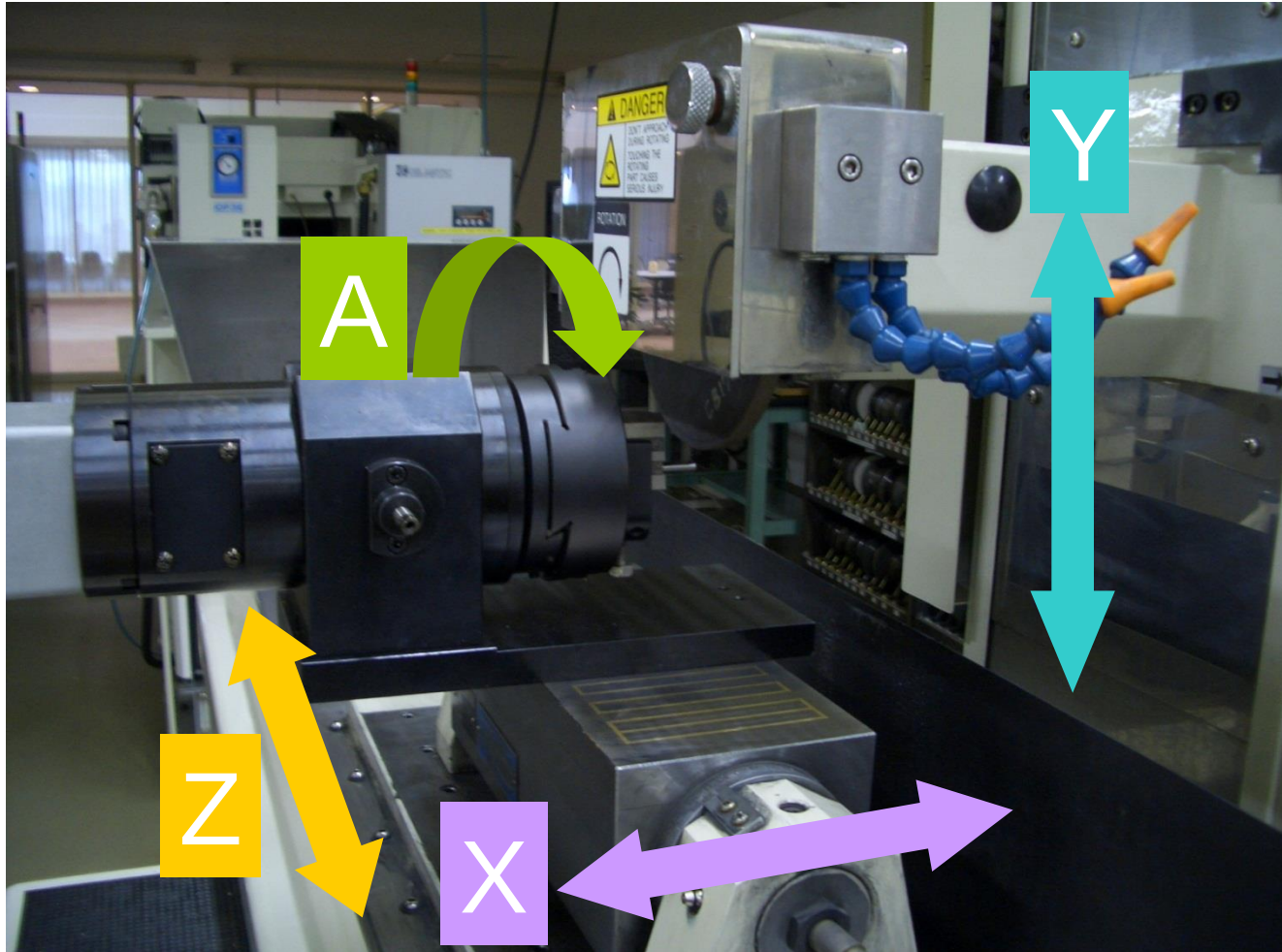
Ground Small O.D. Pin



O.D. 0.05mm Pin

- Cylindrical Grinding Unit
- MACS-2D
- Full Enclosure

MHT PCNC w/ Indexing Unit



**Y: Servo Motor
w/ Ball Screw**

**X: Servo Motor
w/Ball Screw**

**Z: Coggingless
Coreless Linear
Motor w/Linear
Ball Guide**

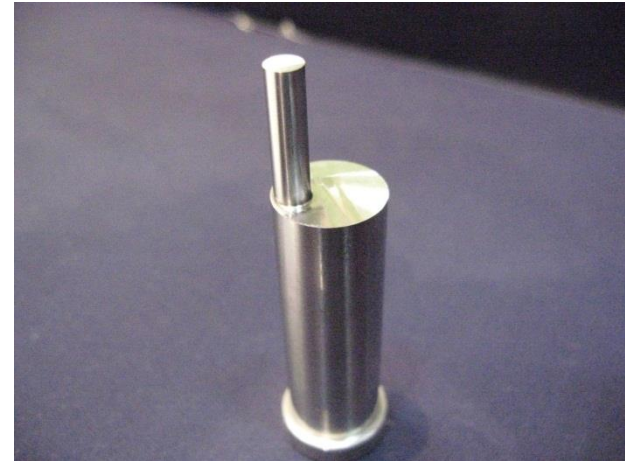
**A: Indexing Unit
w/ Servo Motor**

Indexing Unit Grinding Sample

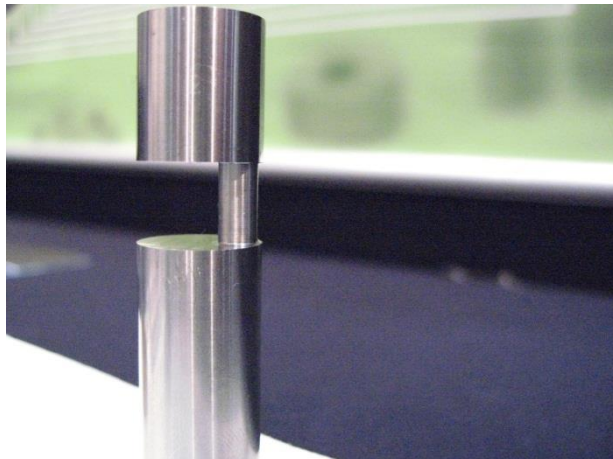
Straight & Radius



Eccentric 1



Eccentric 2



Spiral Creep



Thank you for your time!

Presentation materials will be
provided via email.

Please contact Dan @
ddoyen@okaya-usa.com with any
questions or feedback.