# **HARDINGE®**



### THE MACHINE:

# KELLENBERGER K100

## **MACHINE SPECIFICATION**

- Universal Workhead
- Fanuc 3li
- 200mm (250mm option) centerline height
- 11.5 kW Oil-air lubrication spindle
- A2-5 w/MT5 Spindle
- Roundness Accuracy < 0.4 µm
- THE INDUSTRY:

## MACHINE TOOL BUILDING

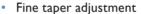
When building a machine tool, whether it's a turning, milling or grinding machine, the spindle is a major critical component for accuracy. Surface finish, roundness and tight diameter tolerances go hand in hand when making a precision spindle. Hardinge has been relying on Kellenberger grinders since the mid-1990's to make our Super Precision lathe spindles be world class!

FOR MORE INFO

- Thread Grinding Capable
- 1000 mm between centers
- · 200 mm centerline height
- Kel-Set Wheel measurement system











## THE APPLICATION: **MILL SPINDLE**

### **FEATURES BEING GROUND**

- · Straight OD's on head end
- Keys and Face
- ID taper

#### PART TOLERANCES

- Roundness < 0.4 µm
- Face flatness < I µm
- Taper + 0 0.025°

This solution is superior because it combines all of these features into one set-up. Opposed to multiple machines and set-ups, this method significantly reduces set-up times and ensures that the typical tight tolerance GD&T is being held easily. Our quick wheel change reduces cycle time and does it with superior accuracy, another "best in class" feature.

