

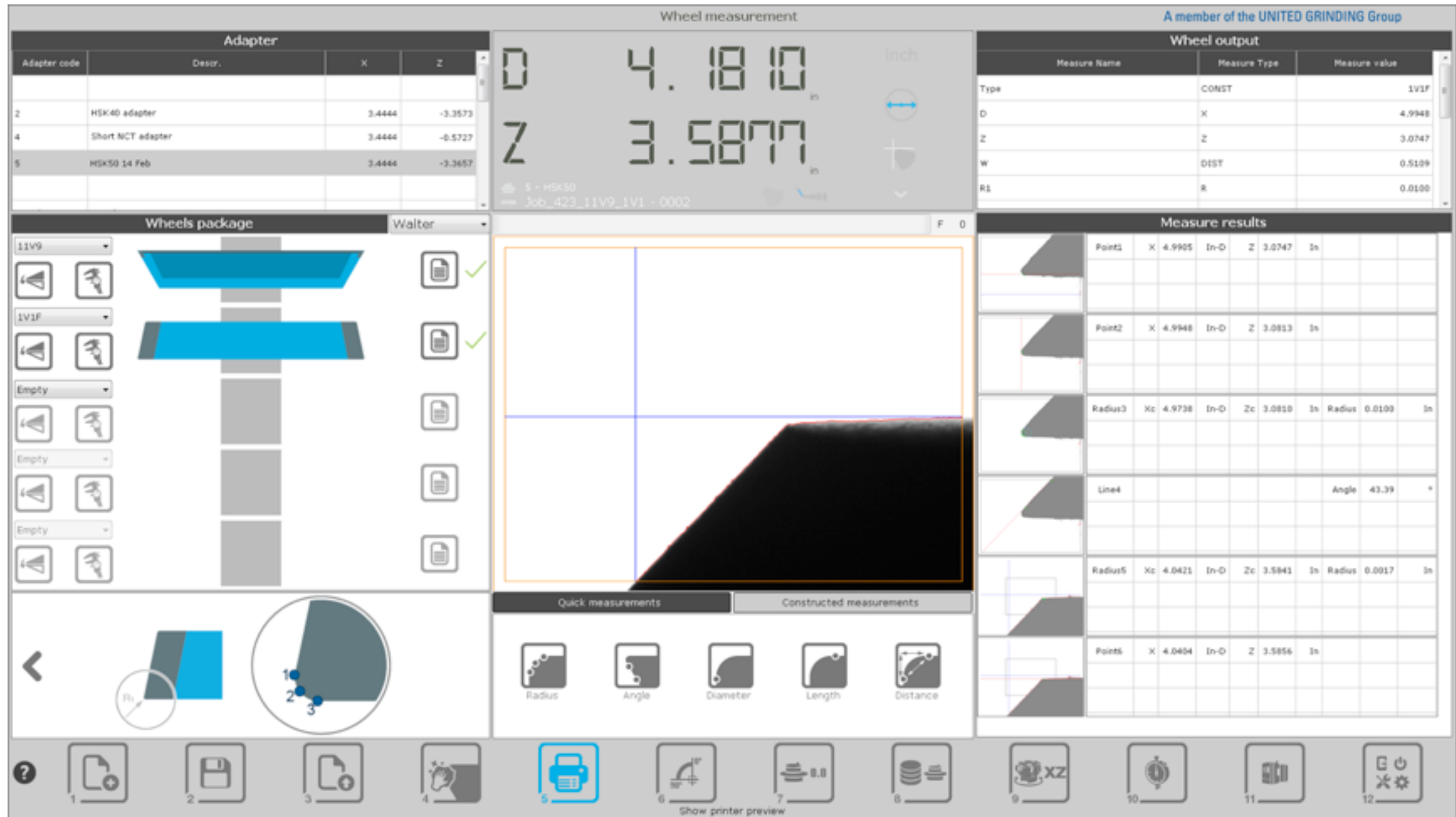
For measuring wheels we've partnered  
with **WALTER** to offer the Heliset



**The Heliset is extremely easy to use,  
accurate within 2 microns, & economical**



# Everything at your fingertips



# Everything at your fingertips

Wheel measurement

A member of the UNITED GRINDING Group

**Adapter**

| Adapter code | Descr.            | X      | Z       |
|--------------|-------------------|--------|---------|
| 2            | HSK40 adapter     | 3.4444 | -3.3573 |
| 4            | Short MCT adapter | 3.4444 |         |
| 5            | HSK50 14 Feb      | 3.4444 | -3.3657 |

**Wheels package** Walter

11V9  
1V1F  
Empty  
Empty  
Empty

**Wheel output**

| Measure Name | Measure Type | Measure value |
|--------------|--------------|---------------|
| CONST        |              | 1V1F          |
| X            |              | 4.9948        |
| Z            |              | 3.0747        |
| DIST         |              | 0.5109        |
| R            |              | 0.0100        |

**Measure results**

| Point1  | X         | In-D | Z         | In                  |
|---------|-----------|------|-----------|---------------------|
| Point1  | 4.9905    | In-D | 3.0747    | In                  |
| Point2  | 4.9948    | In-D | 3.0813    | In                  |
| Radius3 | Xc 4.9738 | In-D | Zc 3.0810 | In Radius 0.0100 In |
| Line4   |           |      | Angle     | 43.39 °             |
| Radius5 | Xc 4.0421 | In-D | Zc 3.5841 | In Radius 0.0017 In |
| Point6  | X 4.0404  | In-D | Z 3.5856  | In                  |

**Quick measurements** **Constructed measurements**

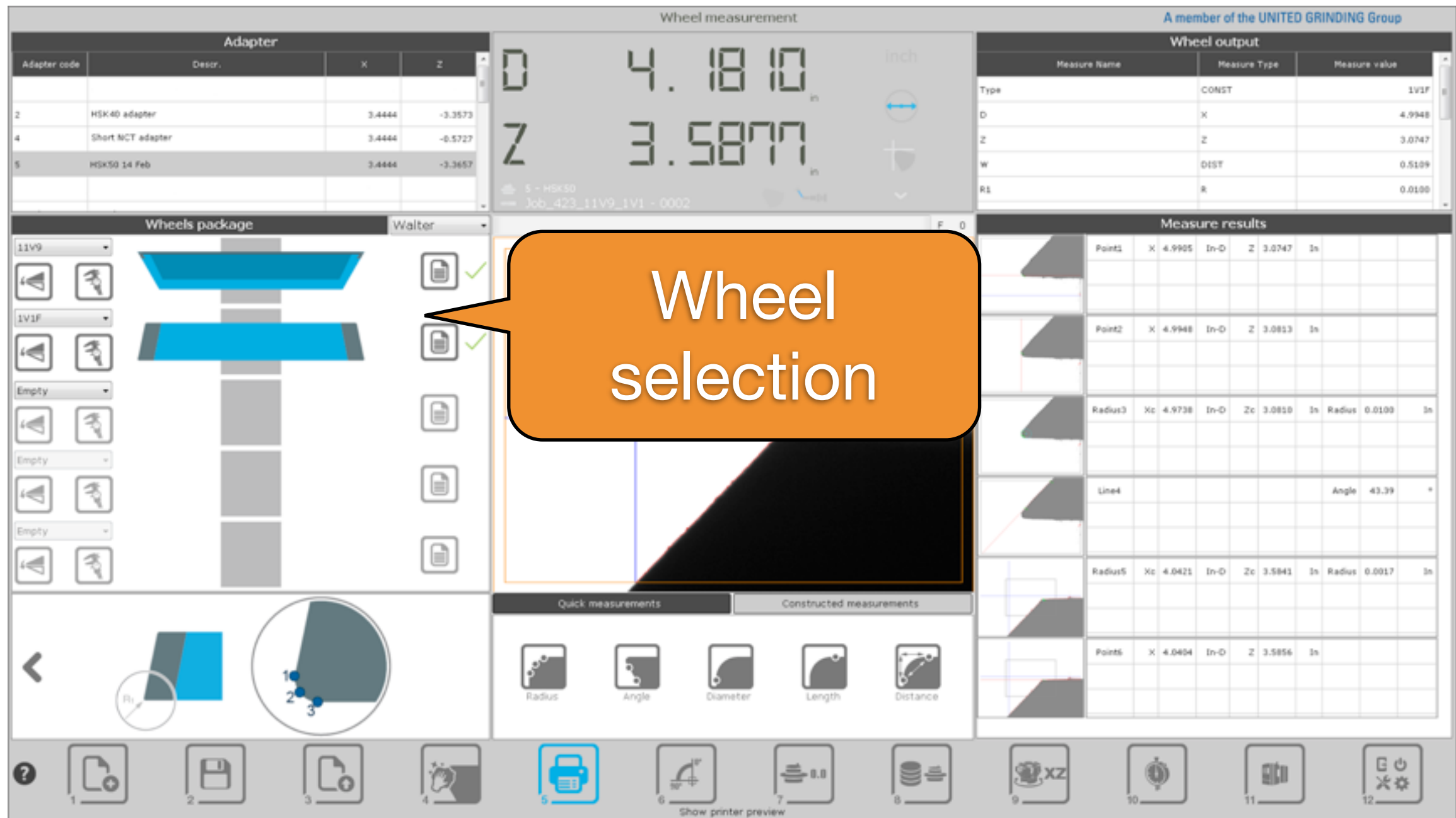
Radius Angle Diameter Length Distance

Adapter management

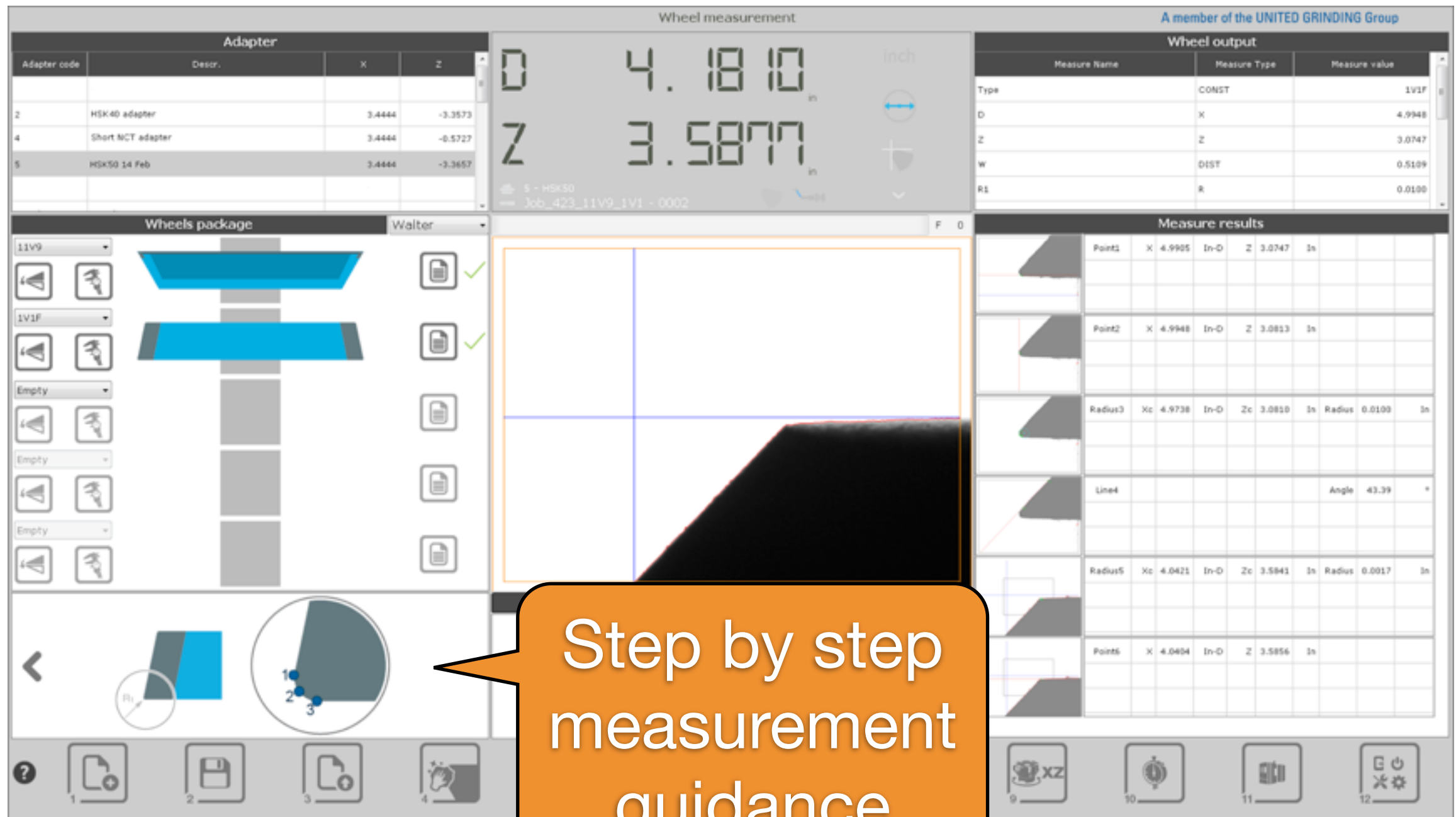
1 2 3 4 5 6 7 8 9 10 11 12

Show printer preview

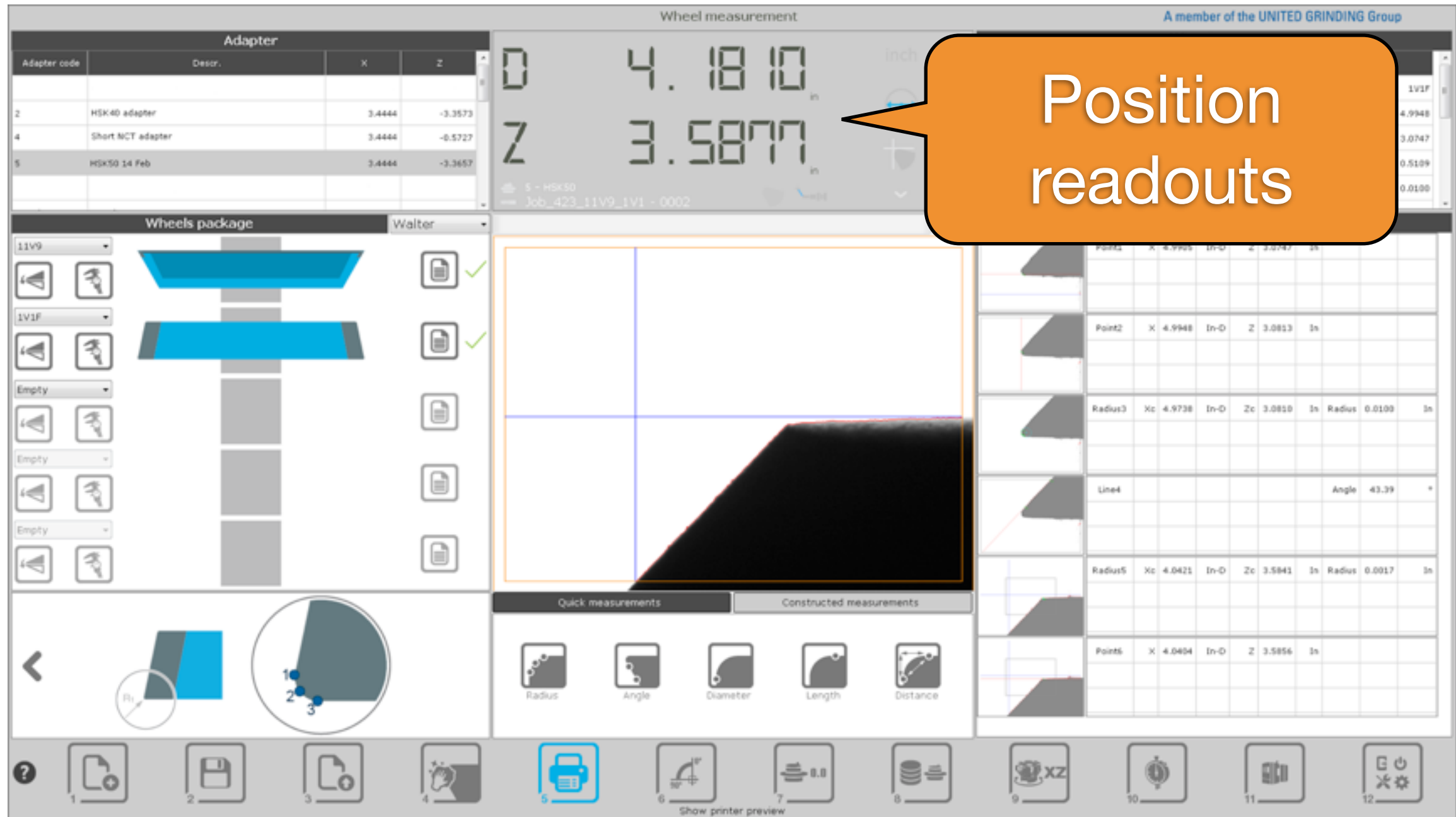
# Everything at your fingertips



# Everything at your fingertips

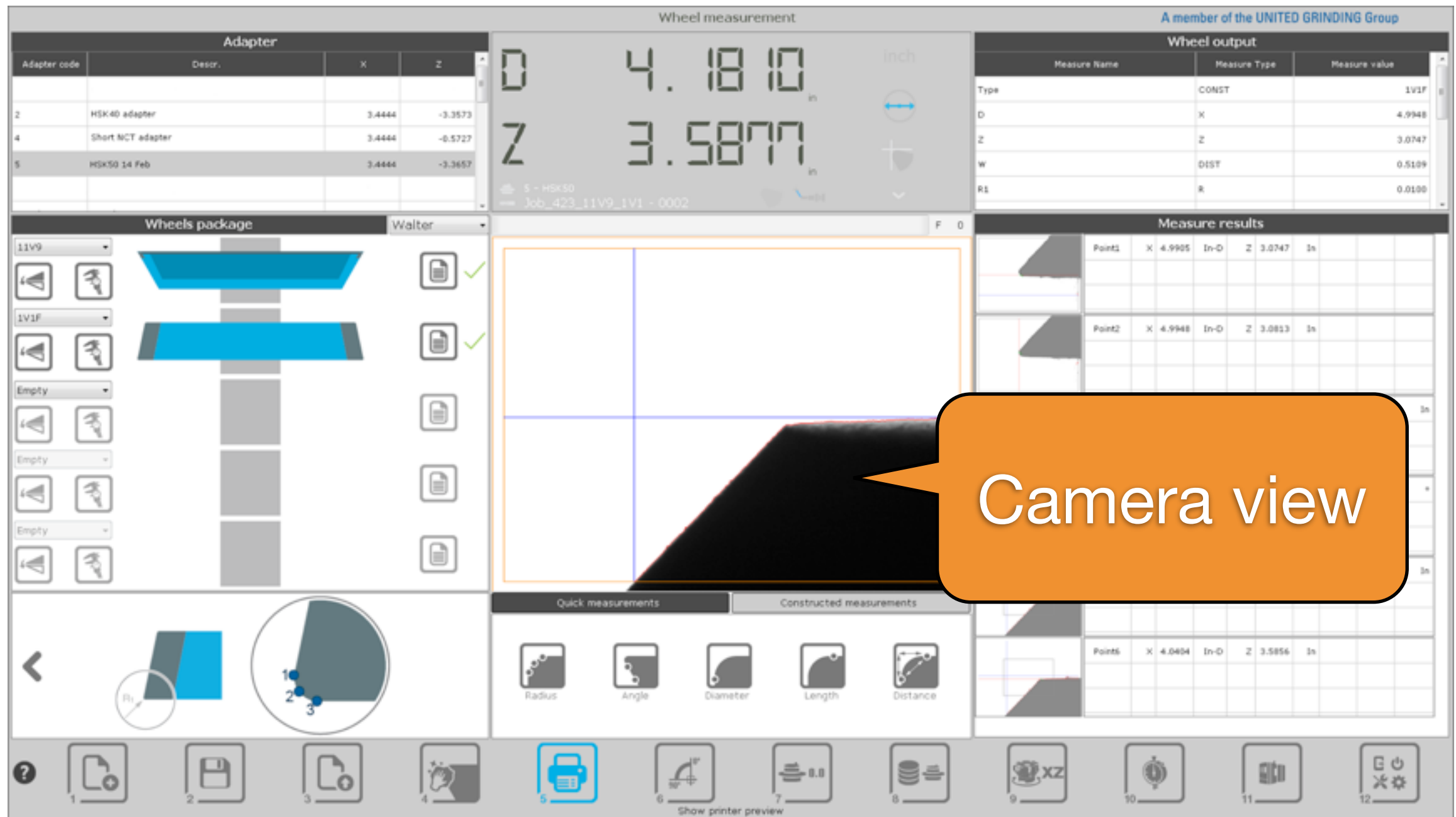


# Everything at your fingertips

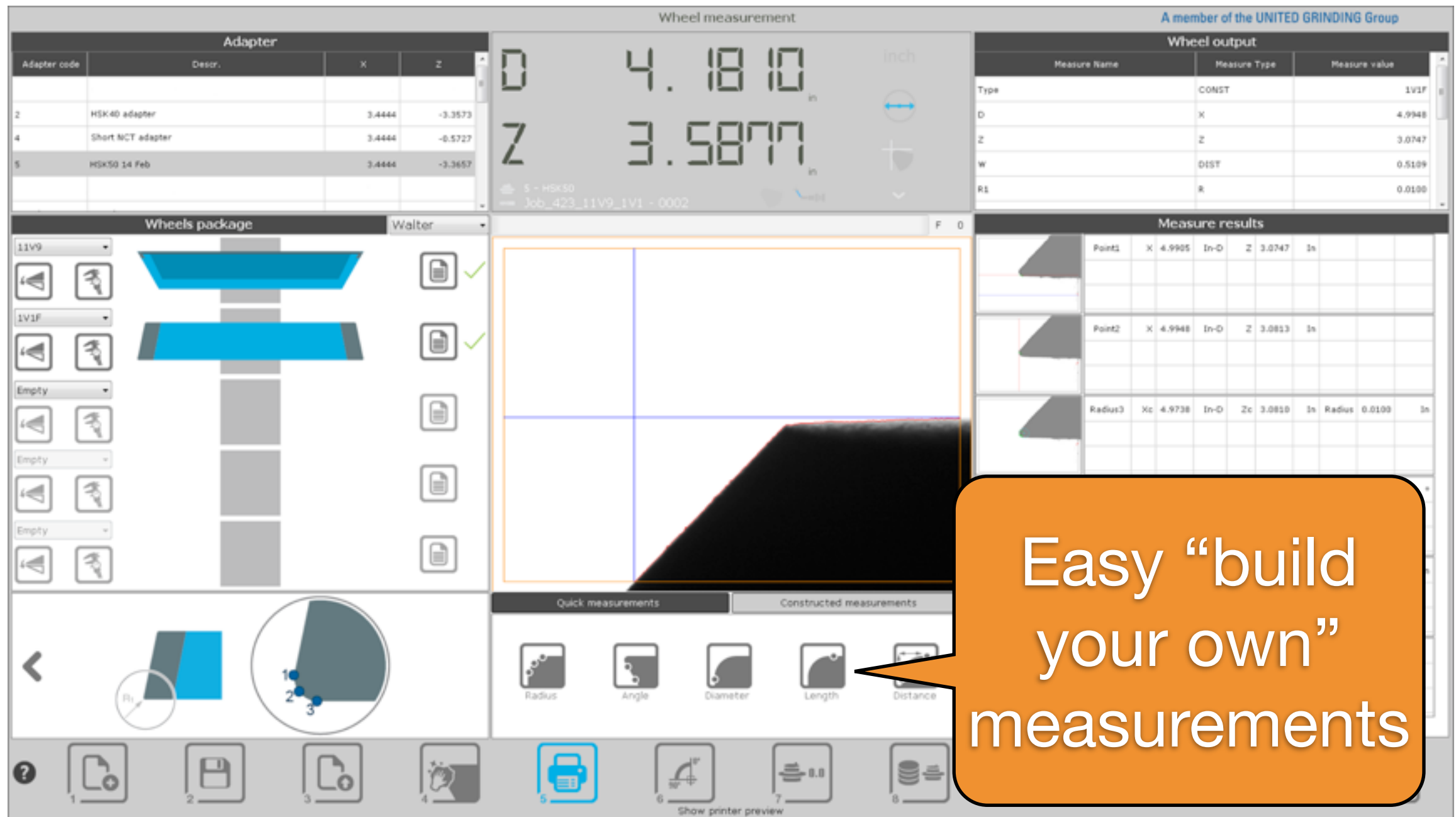


Position readouts

# Everything at your fingertips



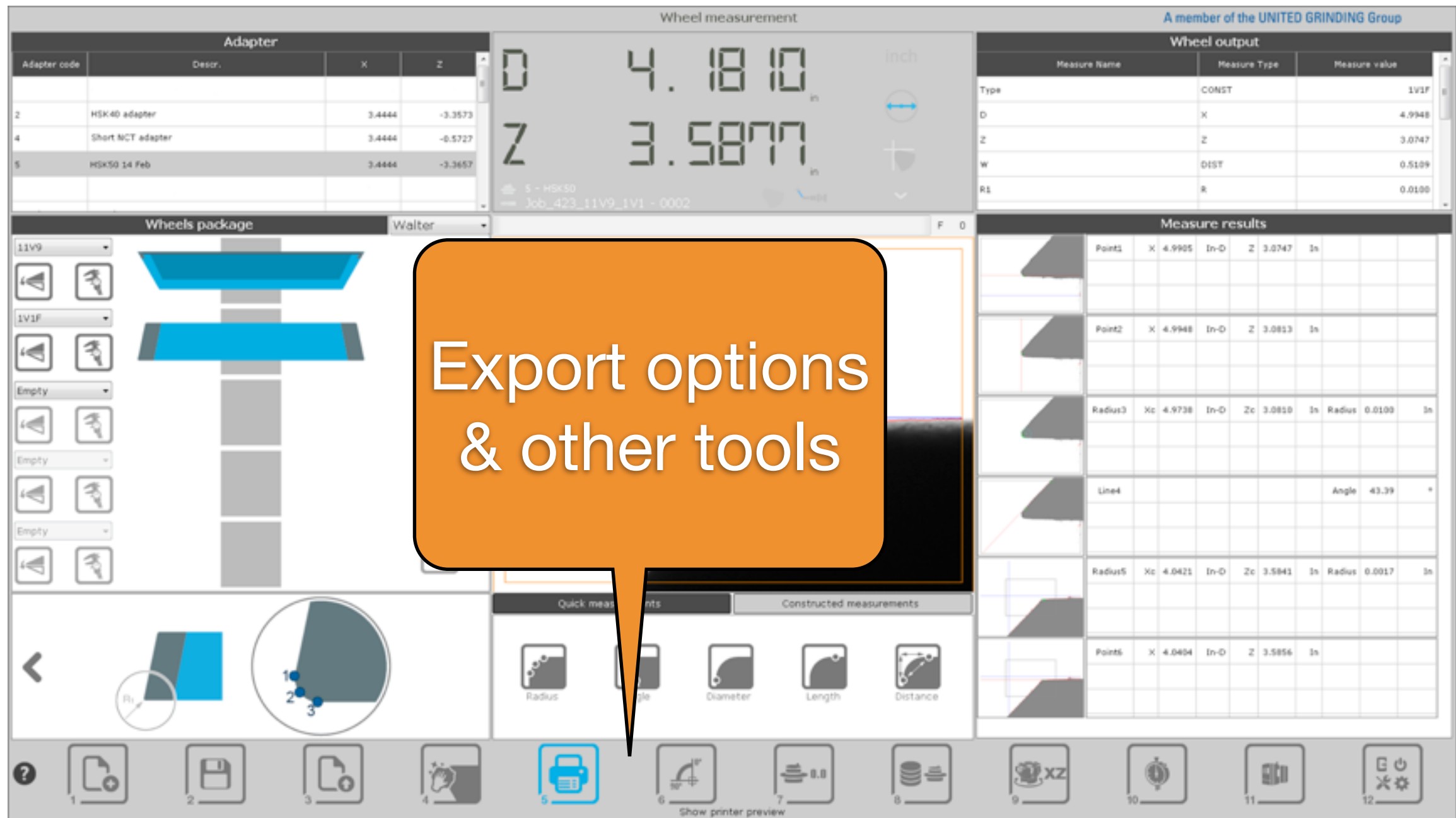
# Everything at your fingertips



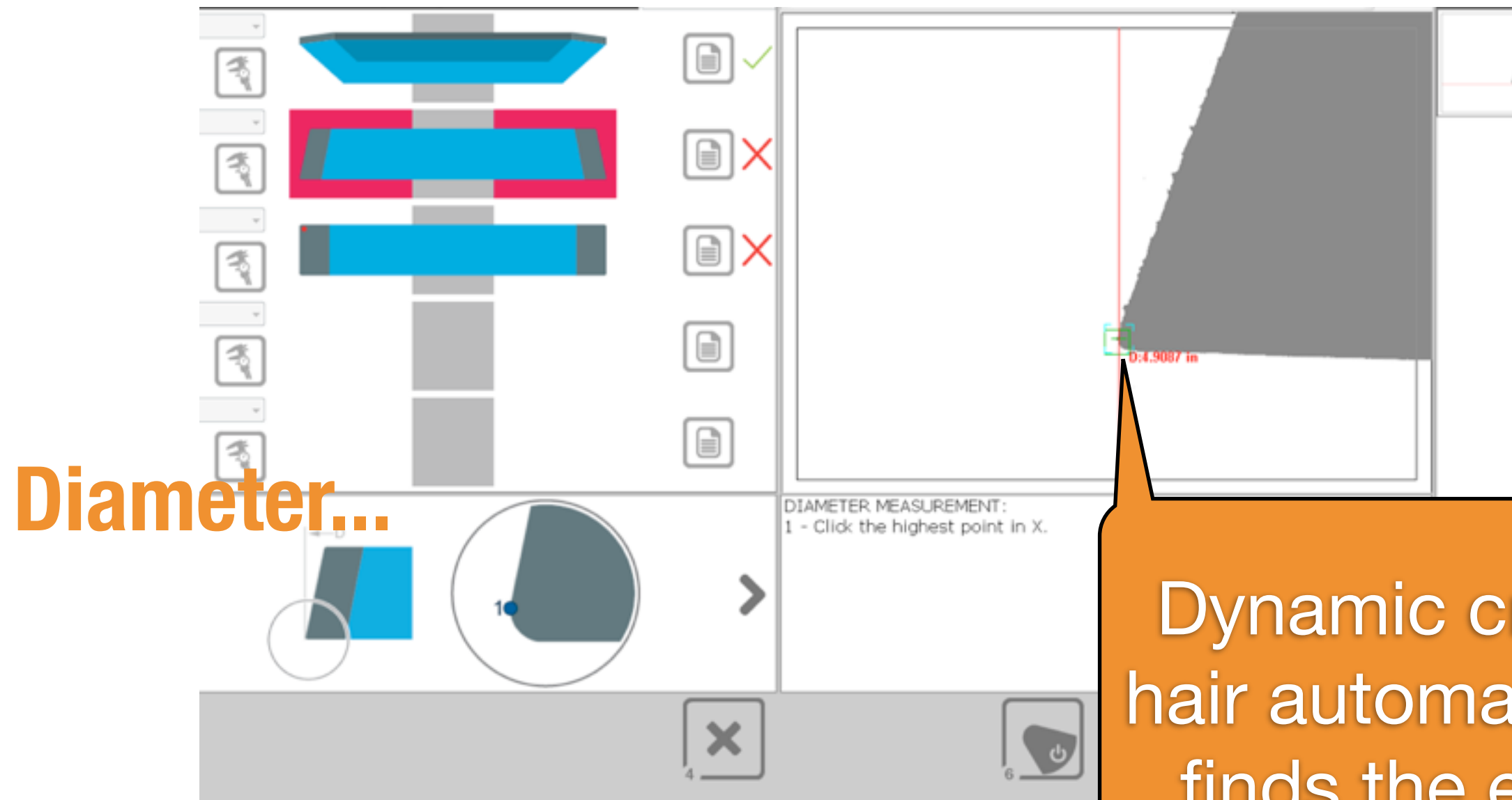
# Everything at your fingertips



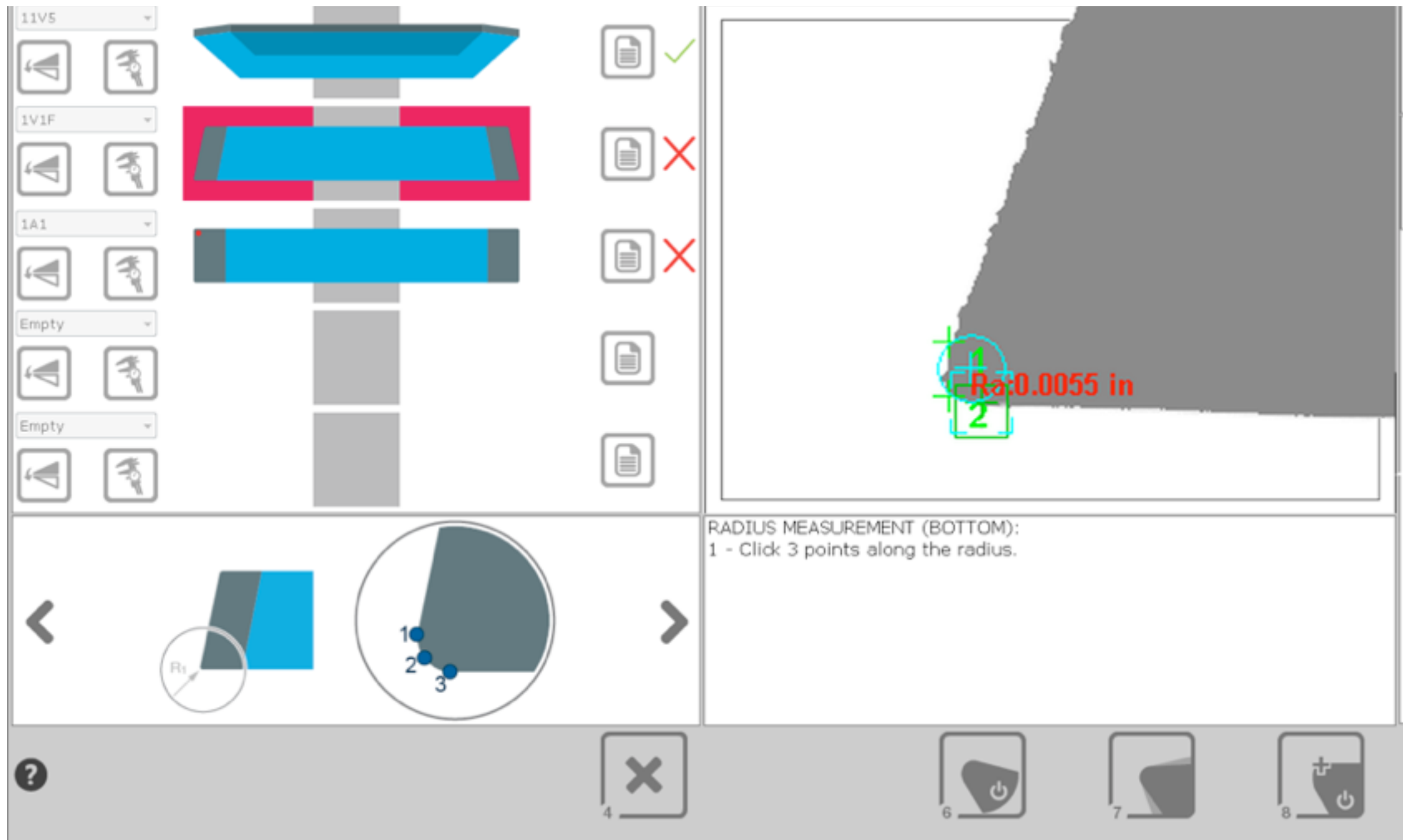
# Everything at your fingertips



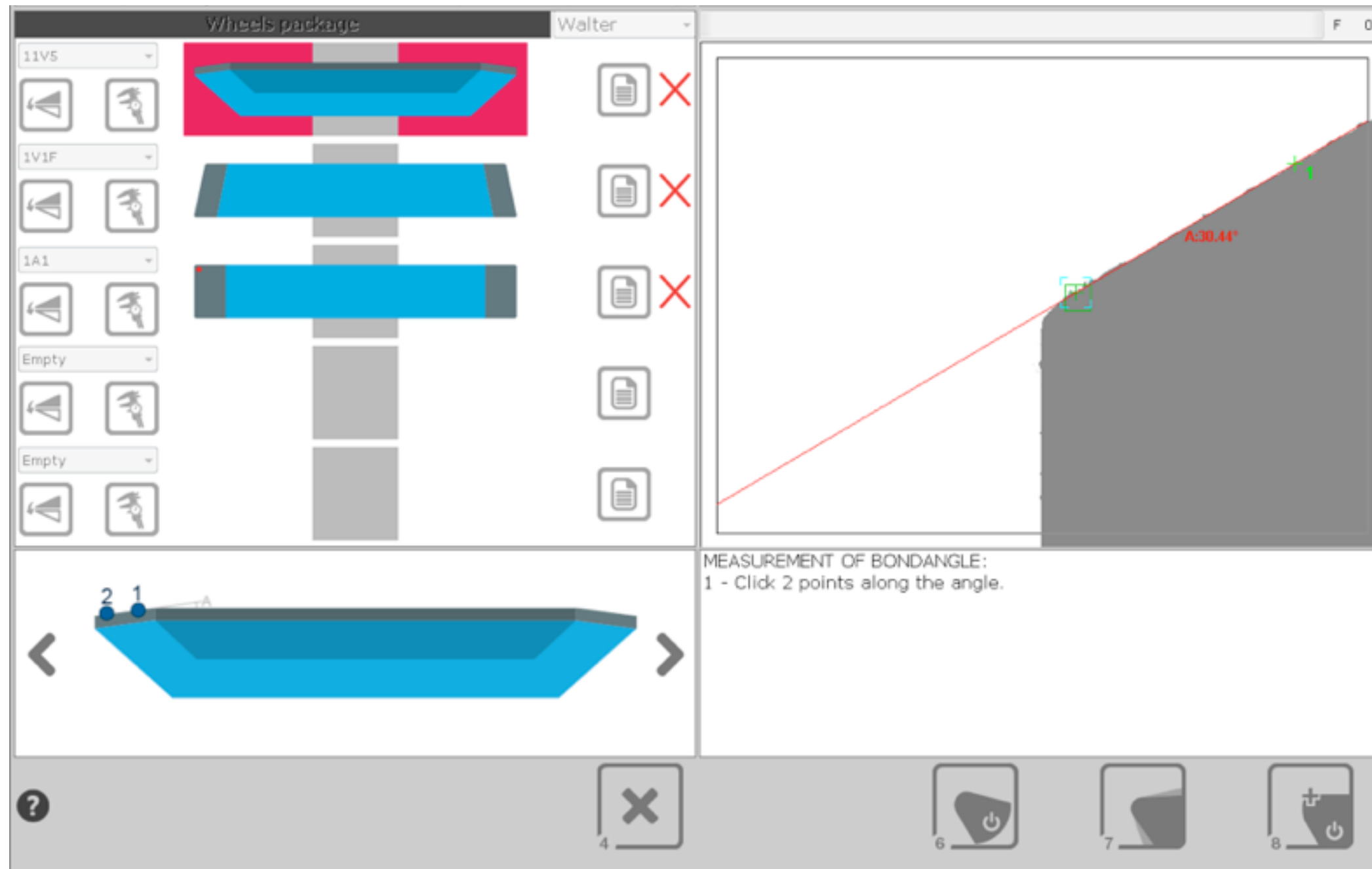
The software visually guides through each measurement; no programming needed



# Here showing how to capture a radius...



# And here an angle...



# Easily create a custom measurement

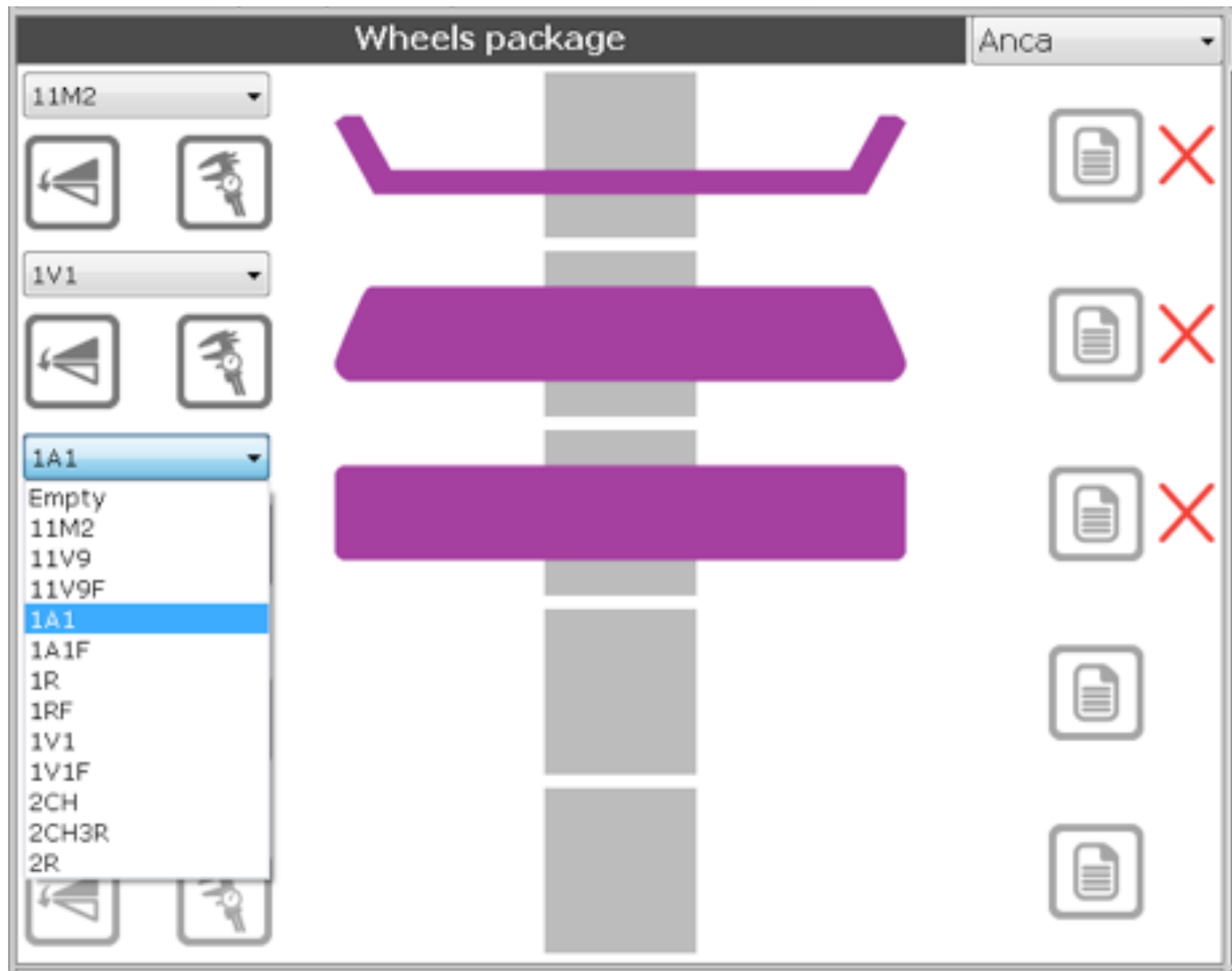
The screenshot displays the 'Wheels package' window in the Toolroom Solutions software. The interface is divided into several sections:

- Top Left:** A list of measurement types with 'Custom\_cup\_wt' selected. Below it are five rows, each with an 'Empty' dropdown and a set of icons for different measurement functions.
- Top Right:** A preview window showing a 3D model of a wheel with a blue measurement line and a red dashed line indicating the measurement path.
- Bottom Left:** A diagram showing the sequence of points (1-8) and lines (1-4) used for the measurement. The points are marked with green crosses, and the lines are red. A yellow line connects points 1 and 5.
- Bottom Right:** A text box titled 'DISTANCE INTERSECTION-INTERSECTION:' providing instructions for the measurement process.

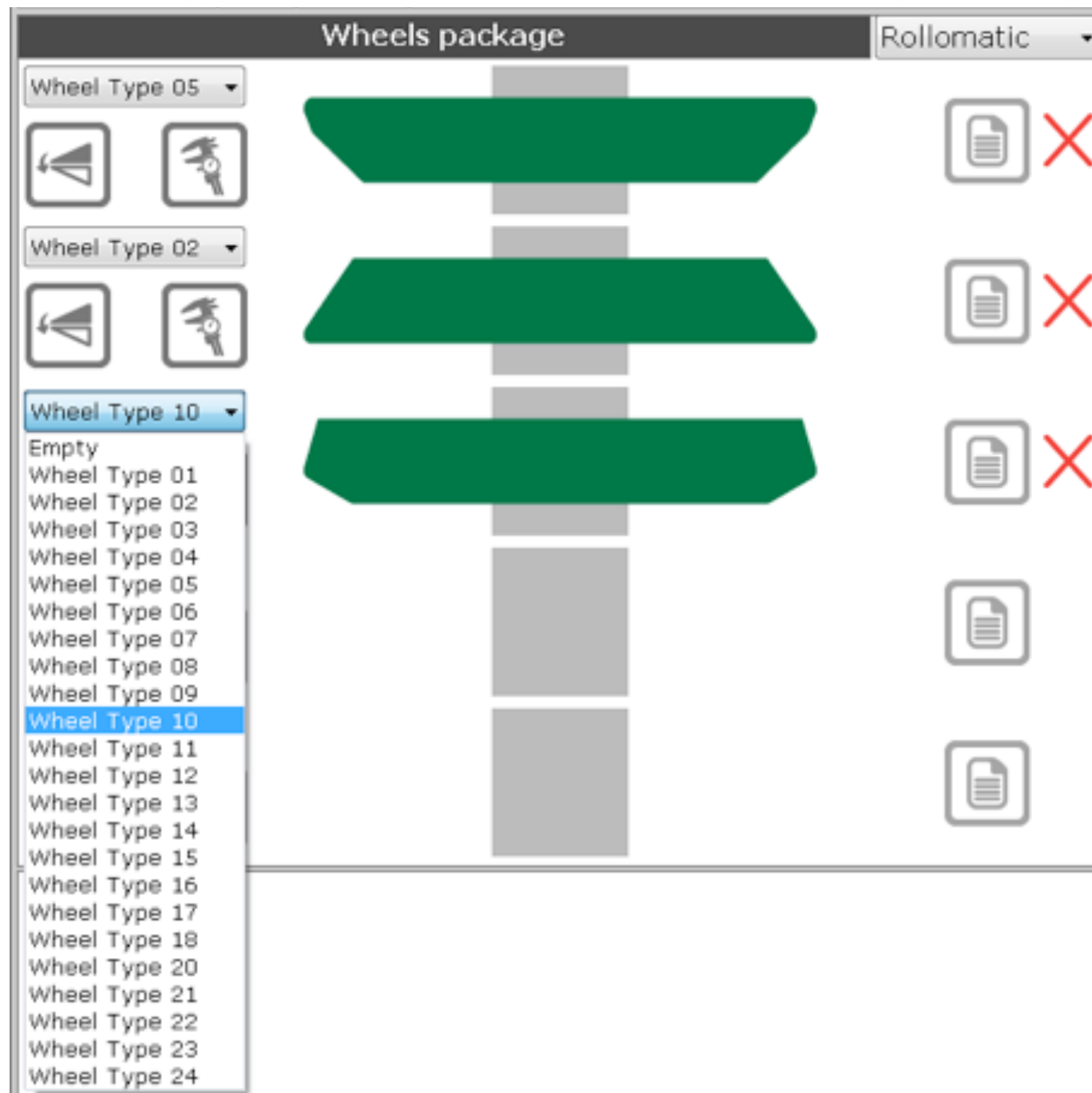
**DISTANCE INTERSECTION-INTERSECTION:**  
1 - Acquire the first LINE with 2 points.  
2 - Acquire the second LINE with 2 points.  
3 - Acquire the LINE with 2 points.  
4 - Acquire the LINE with 2 points.  
Holding down the 'CTRL' key the point acquisition is carried out with SNAP function on the SVS center line or on the nearest entity.

The bottom of the interface features a toolbar with icons for help (?), close (X), and three measurement modes (6, 7, 8).

# Build & measure wheel packs per the Walter specs, the ANCA specs...



# And as Rollomatic defines them...



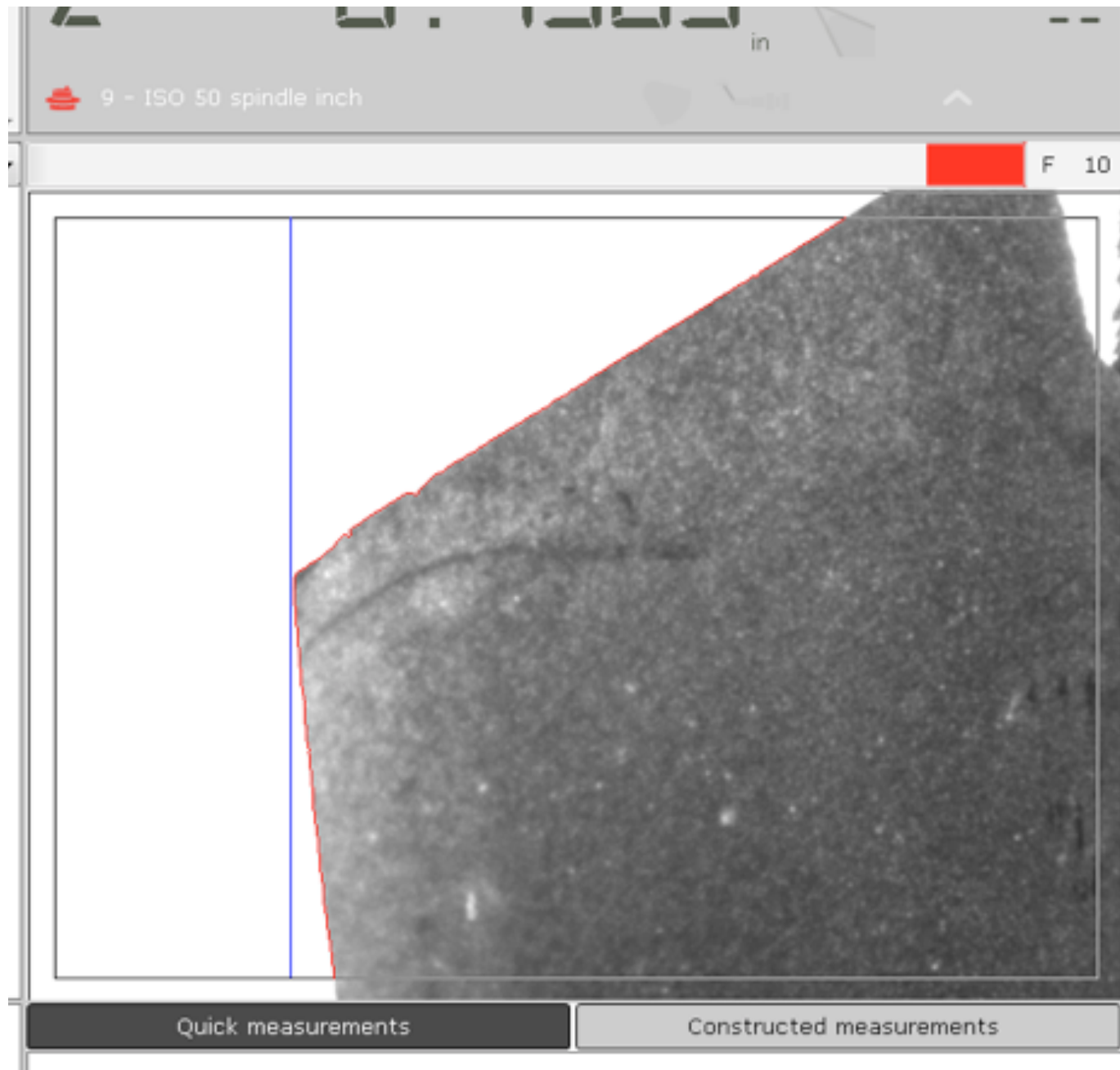
# Export wheel data into...



**The Heliset also enables cutting edge inspection...**



# Cutting edge view with incident light at 45x magnification



# Adjustable light intensity for edge inspection



# Comes with a convenient storage cabinet



**Accurate within 2 microns and built to  
stay that way**



# Stable grey cast iron construction

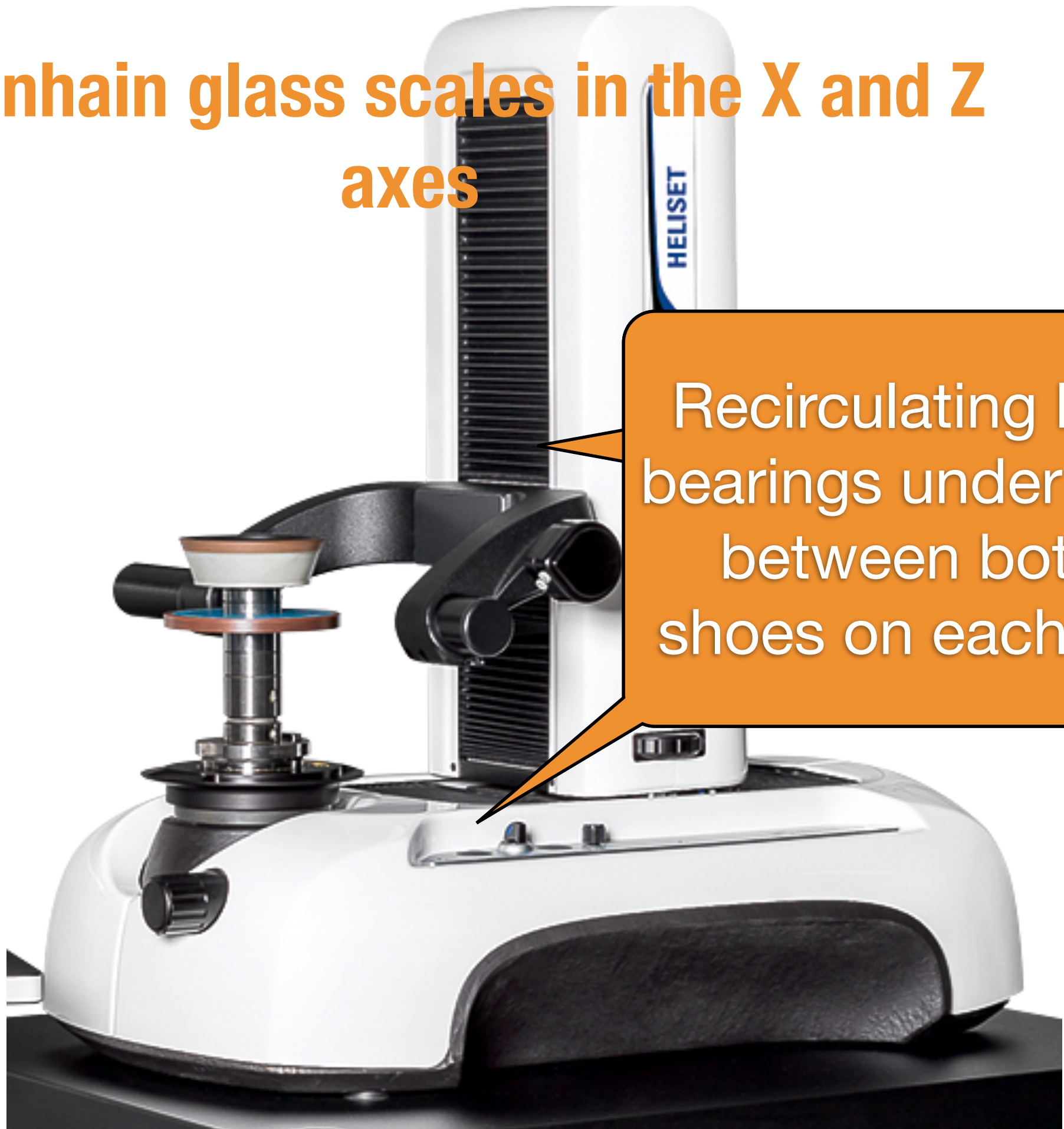
80 lb tower  
secured on 3  
ground  
surfaces

470 lb base



# Heidenhain glass scales in the X and Z axes

Recirculating ball bearings under and between both shoes on each rail



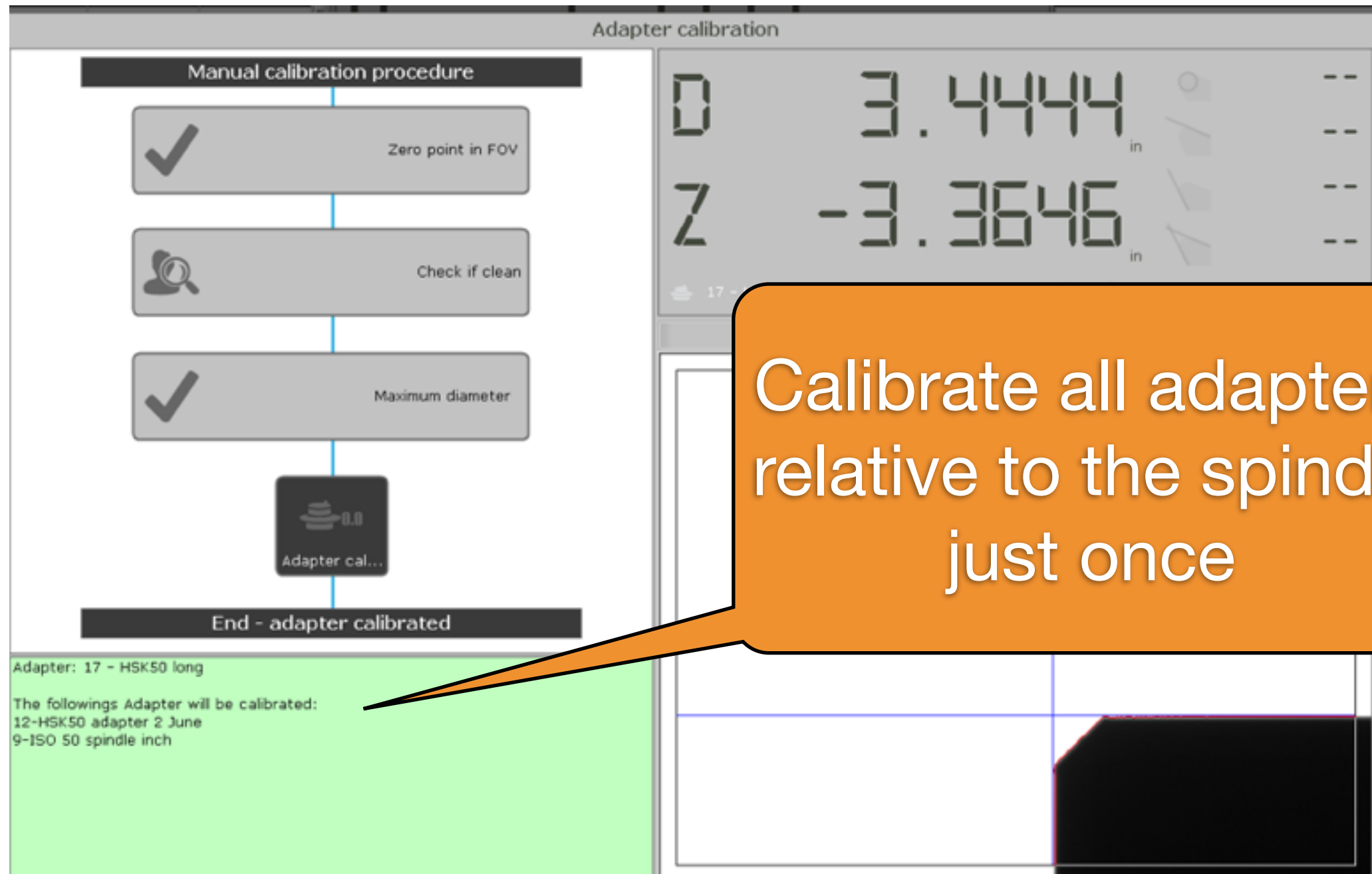
# High precision SK50 spindle

Runout  
accuracy 2  $\mu\text{m}$   
(0.00008")

Integrated  
calibration  
edge



# Automatic calibration routine



# Fine adjustment of the X and Z axes

Adjust within 1  $\mu\text{m}$  increments



# Progressive scan camera (60 fps) with telecentric objective

Magnification  
~45x with 1  
 $\mu\text{m}$  (0.00004")  
resolution

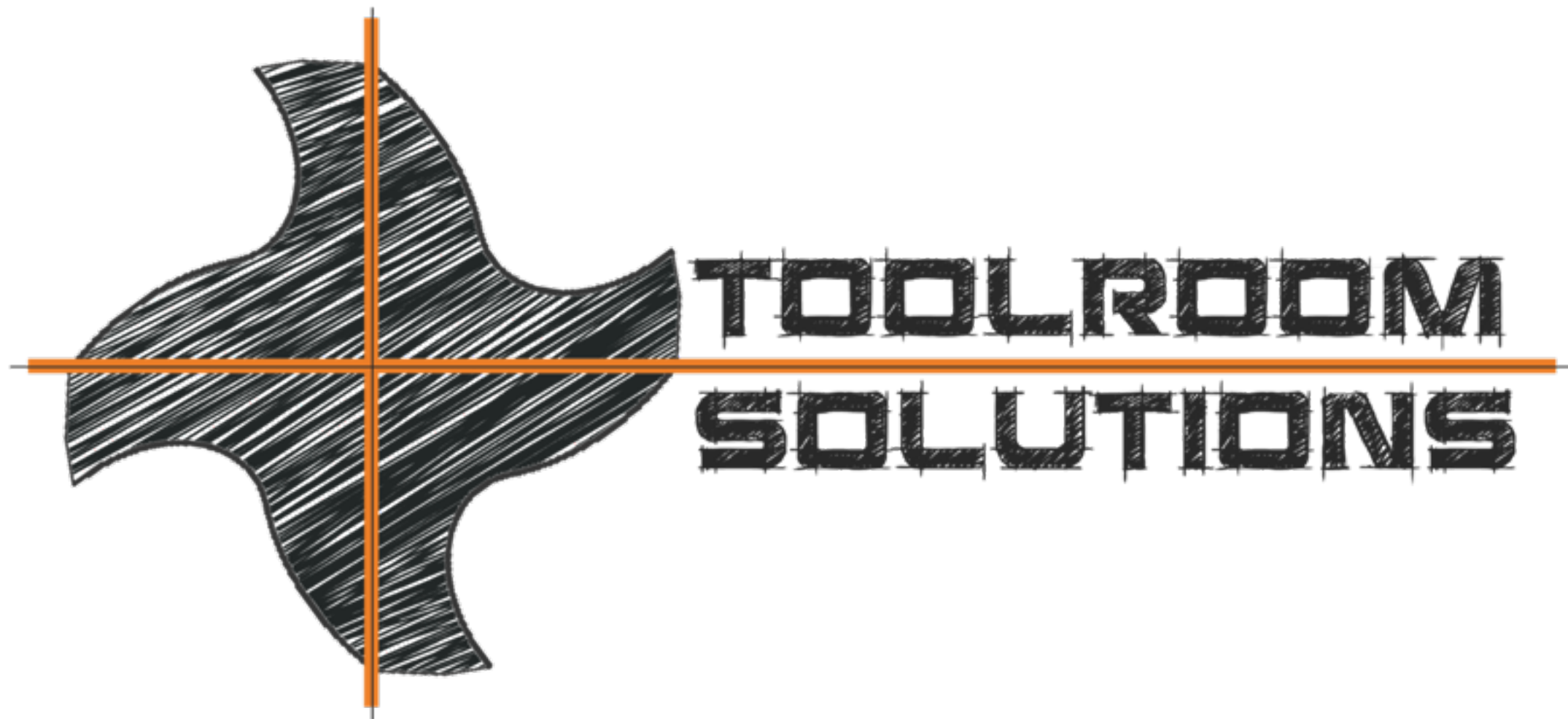
Digital zoom  
90x and 120x

# The WALTER Heliset offers everything you need in wheel measuring



- Easy to use interface
- Repeatable accuracy within 2  $\mu\text{m}$  (0.00008")
- Easy data export to WALTER, ANCA, & Rollomatic software
- Cutting edge and tool profile measuring capability
- Shop floor durability with a two year warranty
- Economical investment





**+1 (540) 940-5977**  
**toolroom.solutions**

---