

The Steep Taper Measuring Unit includes 3 high resolution indicators, 1 standard indicator, and a wooden storage box. The unit verifies:

- Large taper diameter (d1)
- Small taper diameter (dk)
- Straightness of the taper (Ml)
- Relationship of the flange to the taper (a)
- Taper length (l1)

Note: A series 430.145 High Precision Gauge Master is required for setup of the Steep taper Measuring Unit.

The optional V-Flange Measuring Adapter includes two indicators. The adapter mounts to the Taper Measuring Unit and verifies the location and dimension accuracy of the V-Flange:

- V-Flange size (d5)
- Relationship to the taper (f1)

The optional Runout Test Adapter mounts to the Taper Measuring Unit includes a holder for a standard indicator (indicator not included). The adapter verifies runout between the ID bore of a tool holder and/or OD of a tool in the tool holder relative to the taper:

- OD Runout (A)
- Face Runout (B)
- ID Runout (C)



Item	Part Number
Steep Taper 30 (DIN) Measuring Unit	<b>430.140.830.000</b>
Steep Taper 30 (DIN) V-Flange Measuring Adapter	<b>430.140.830.001</b>
Steep Taper 40 (DIN) Measuring Unit	<b>430.140.840.000</b>
Steep Taper 40 (DIN) V-Flange Measuring Adapter	<b>430.140.840.001</b>
Steep Taper 50 (DIN) Measuring Unit	<b>430.140.850.000</b>
Steep Taper 50 (DIN) V-Flange Measuring Adapter	<b>430.140.850.001</b>



### **High Precision Steep Taper Gauge Masters (430.145)**

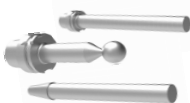
The High Precision Gauge Masters are made of a proprietary stabilized gauge material and are coated to resist corrosion. Actual dimensions are laser marked on the master. Included is a certificate with actual dimensions and a wooden storage case.

Taper	Part Number
Steep Taper (BT) 30	<b>430.145.730.000</b>
Steep Taper (BT) 40	<b>430.145.740.000</b>
Steep Taper (BT) 50	<b>430.145.750.000</b>
Steep Taper (DIN) 30	<b>430.145.830.000</b>
Steep Taper (DIN) 40	<b>430.145.840.000</b>
Steep Taper (DIN) 50	<b>430.145.850.000</b>

### **Preventive Maintenance Gauges**

Dimensional Gauges, Balancing Masters, Coolant Supply Gauges, Center Height/Master Setting, Tool Changer Alignment Gauges, Machine Set-up Gauges. Also ask us about custom gauges and personalized solutions for your machine or machine tool.

#### **Runout Test Arbors**



Available for all major machine tapers, including CAT/DIN/BT Steep Taper, HSK, Capto, KM, Morse, and others.

#### **Chuck Force Gauges**



Measure chuck jaw clamping force at high speeds. Also available for other chuck measuring applications.

#### **Drawbar Force Gauges**



Measure tool clamping force to protect spindles and ensure machining accuracy.

#### **Custom Machine Tool Gauges**

Any gauge for any machine or machine tool.

