

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 (MI)
- 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	Order Number
Steep Taper 30 (DIN) Measuring Unit	430.140.830.000
Steep Taper 30 (DIN) V-Flange Measuring Adapter	430.140.830.001
Steep Taper 40 (DIN) Measuring Unit	430.140.840.000
Steep Taper 40 (DIN) V-Flange Measuring Adapter	430.140.840.001
Steep Taper 50 (DIN) Measuring Unit	430.140.850.000
Steep Taper 50 (DIN) V-Flange Measuring Adapter	430.140.850.001



High Precision Gauge Masters (430.145)

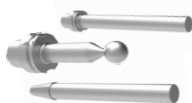
The High Precision Gauge Masters are made of a proprietary stabilized gauge material and are coated to resist corrosion. Actual dimensions are laser marked on the master. Included is a certificate with actual dimensions and a wooden storage case.

Taper	Order Number
Steep Taper (BT) 30	430.145.730.000
Steep Taper (BT) 40	430.145.740.000
Steep Taper (BT) 50	430.145.750.000
Steep Taper (DIN) 30	430.145.830.000
Steep Taper (DIN) 40	430.145.840.000
Steep Taper (DIN) 50	430.145.850.000

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.

