



ForceCheckTM

Product Line Overview

The ForceCheck line of gauges is known industry-wide as the standard for reliable, easy to use, and accurate machine tool force gauges. In fact, most major machine tool manufacturers use ForceCheck in their service departments!



ForceCheck Drawbar Force Gauge

For over a decade, the ForceCheck drawbar force gauge has been an industry standard for verifying drawbar force. Globally, virtually all machine builders use ForceCheck. The gauge quickly and easily verifies drawbar tool retention force. This critical component to machine performance is often never measured after a machine is put into service. Regular verification allows problems to be detected early so maintenance and repairs can be scheduled. As a result, emergencies and unexpected downtime can be avoided. When troubleshooting, drawbar performance can quickly be verified. ForceCheck adapters are available for:

- Steep Taper
CAT/ANSI 30, 40, 45, 50, 60
DIN 30, 40, 45, 50, 60
BT 30, 35, 40, 45, 50, 55, 60
ISO 10, 20, 25
 - HSK sizes from 25-160
 - Capto C4-C8
 - KM63, 100, 125
 - Nikken NC5
- Contact us for other standards.



ForceCheck Wireless Drawbar Force Gauge

The ForceCheck wireless drawbar force gauge is based on the same technology as the industry-leading ForceCheck gauge. With the added convenience of wireless operation, larger machines and hard-to-reach spindles are easier to check. Where operator safety is a concern, the unit is also available with an integrated tool change flange, allowing the gauge to be loaded into the spindle via the tool changer.

Wireless gauges are available with a standard wireless display or a tablet-based display that can track measurement history for individual machines at a facility, graph results, alert the user if a machine falls below a predetermined force level, as well as other enhanced features.



ForceCheck Machine-Integrated Force Gauge

The machine-integrated drawbar force gauge automates drawbar force measurement. With a wireless force sensor stored in the tool changer, a machine can periodically automatically check the drawbar without stopping production. Drawbar force is returned to the machine control via a wireless receiver, automatically alerting the operator if insufficient force is detected.



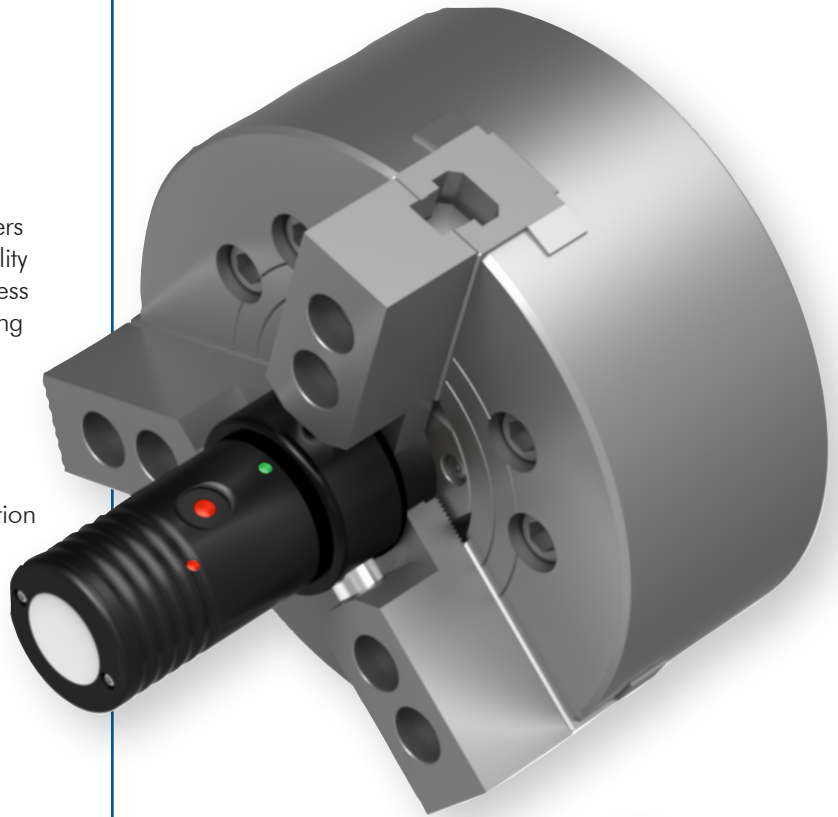
Bluetooth
(((WIRELESS)))



ForceCheck Wireless Chuck Force Gauge

The ForceCheck wireless chuck force gauge is designed to quickly and accurately measure holding force and speed of chucks. Because forces change considerably under dynamic

(rotating) conditions, verifying chuck holding force allows manufacturers to improve the repeatability of a manufacturing process by checking actual holding force – too much force can distort parts, while insufficient force can cause parts to come out during machining. In addition, regular verification of holding force is a critical preventive maintenance check.



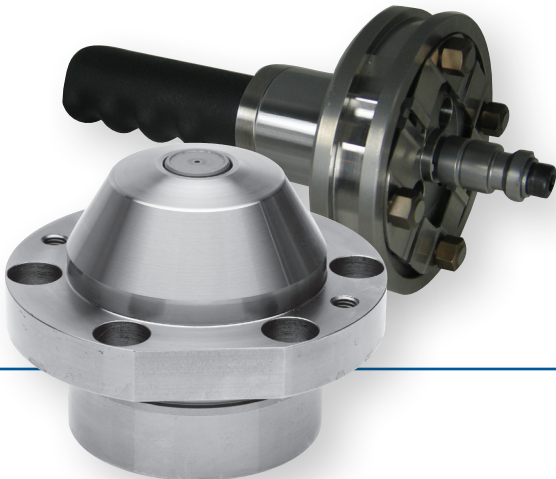
ForceCheck Collet Force Gauge

The ForceCheck collet force gauge allows tool holder and workholding collet holding force to be quickly and easily measured. Because it is problematic to measure, this critical holding force is typically not checked, even though it plays an important role in manufacturing repeatability. The collet force gauge is also available in a wireless version.



Pallet Holding Force Gauges

Verify that pallet holding force is correct with ForceCheck pallet clamping force gauges. Pallet force sensors are available for BERG Spanntechnik, OTT, Erowa, and other pallet systems.



Special Application Force Sensing

Have a clamping, workholding, or other application where you're concerned about clamping or holding force? Our expertise in the machining world and with force sensors allows us to offer custom-built application-specific units at a reasonable cost. We have produced adapters for various collets, proprietary tool holding systems, vises, as well as other systems – contact us with your application.

ForceCheck

www.Force-Check.com • 815 962-5600

ForceCheckTM

**The industry standard
in machine tool force
gauges.**



ForceCheck Gauges

- Drawbar Tool Clamping Force
- Chuck Holding Force
- Collet Holding Force
- Pallet Clamping Force