

# Large Diameter Measurement Gage Internal/External Diameters

**MIC 360 Wired**



**MIC 360  
Wired Diameter Gage  
Basic Package**



**Inspects Large Diameter  
Machined Parts**

## HOW TO ORDER

1. Select the MIC 360 Basic Package.
2. Select any optional equipment.

The MIC 360 is an in-process diameter gage that measures internal and external diameters of machined parts up to 100 feet, while they are rotating at speeds up to 360 SFM. Measurement accuracies, traceable to NIST, are  $\pm 0.0002$ " on diameters under 12",  $\pm 0.001$ " on diameters up to 240", and  $\pm 0.002$ " on diameters up to 360".

The gage head assembly of the unit contains a 3 3/4" diameter hardened steel precision gage wheel that rotates around a part and measures the diameter. The versatile gage head comes with either a standard 1 1/4" square shank or several optional quick-change tool shanks that allow it to mount on a variety of machine types such as, vertical or horizontal lathes, mills, and grinders. At the core of the gage head is a high-resolution rotary encoder that counts the revolutions of the gage wheel as it rotates around a work piece.

To keep track of the number of times the part rotates, the MIC 360 includes an optical target that is mounted on the machine's chuck and an optical light switch that is mounted on the machine's base. Each time the target passes the light switch, the light switch signals the gage head encoder when to start and stop measuring the work piece, based on the number of preset revolutions.

The gage head reports the measurement values to the MIC 360 CPU, which calculates and displays diameter readings on the digital readout. The CPU also includes the MIC 360 Diameter and Run out Measurement program. This program allows setting the parameters for the gage and monitoring diameter measurements as a part rotates. Run out measurements are an optional feature of the program.

## Features

- Measures external diameters 2" to 360" and internal diameters 4" to 360"
- Maintains accuracies traceable to NIST to  $\pm 0.0002$ "
- Measures multiple diameters
- Inspects tapers and grooves
- Inspects parts as they are machined
- Requires no setting masters

## MIC 360 Basic Package

The basic gage package provides everything to measure external or internal diameters of machined parts. Comes ready to install on any machine tool that accepts a 1 1/4" square tool holder.

Model No.	Description
M36W-BPKG	Internal/External Gage Head with 75 ft. Cable 3.75" Diameter Gage Wheel CPU Standard Optical Light Switch Standard Optical Reflector Target Optical Light Switch Mounting Bracket Light Switch Cable (20 ft.) Heavy Duty Storage and Shipping Case
	Installation/Training (per day, plus airfare and expenses)



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## MIC 360 Individual Components

Model No.	Description
WGH-100	Internal/External Gage Head with 75 ft. Cable
GWL-500-3.75	3.75" Diameter Gage Wheel
DSP-300	CPU
OPT-400	Standard Optical Light Switch
TGT-100	Standard Optical Reflector Target
OPT-401	Optical Light Switch Mounting Bracket (horizontal style)
OPT-402	Optical Light Switch Mounting Bracket (vertical style)
CBL-620	Light Switch Cable (20 ft.)

## MIC 360 Optional Equipment

Model No.	Description
CBL-6XX	Special Length Light Cable
GWL-500-X.X	Special Diameter Gage Wheel or Form
OPT-401	Optical Light Switch Mounting Bracket (horizontal style)
OPT-402	Optical Light Switch Mounting Bracket (vertical style)
PRN-100	Printer Option
OPT-500-HD	Heavy Duty Light Switch
TGT-100-HD	Heavy Duty Optical Reflector Target
TMP-360	Temperature Compensation Option, Includes Probe and Infrared Receiving Unit

## Specifications

Model No.	Dimensions	Weights
WLGH-100	10 in x 3 in Diameter (254 mm x 76.2 mm Diameter)	6 lb. (2.75 kg)
DSP-300	14 in x 8 in x 4 in (355.6 mm x 203.2 mm x 101.6 mm)	5 lb. (2.25 kg)
OPT-400	6 in x 2 in x 2 in (152.4 mm x 50.8 mm x 50.8 mm)	2 lb. (.9 kg)
TMP-360	6 in x 3 in x 2 in (152.4 mm x 76.2 mm x 50.8 mm)	1 lb. (.5 kg)

