



ARNOLD

SINCE 1918



**GAGE and GRIND
at the SAME time**

www.arnoldgauge.com
877-942-4243

**IN-PROCESS
GRINDING GAGES**

Introducing the *ARNOLD* In-Process Grinding Gage

What is an *ARNOLD GAUGE*?

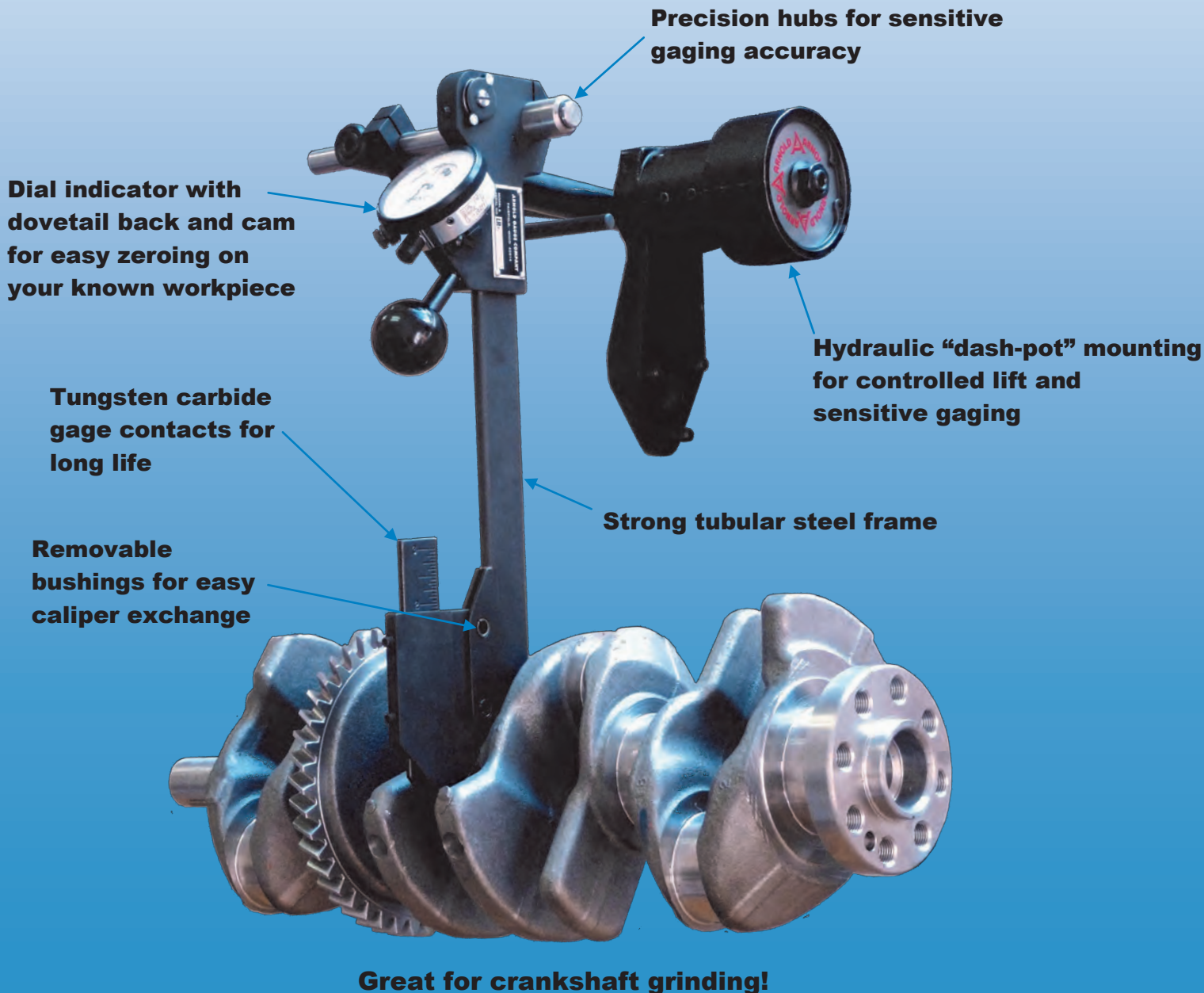
The *ARNOLD* In-Process Grinding Gage saves you time and money by measuring your workpiece at the same time it is being ground.

Now, there is no need to stop your grinder to measure a part. Simply grind until the indicator reads "zero". Higher productivity, and precision sizes every time.

A brief history of *ARNOLD GAUGE*

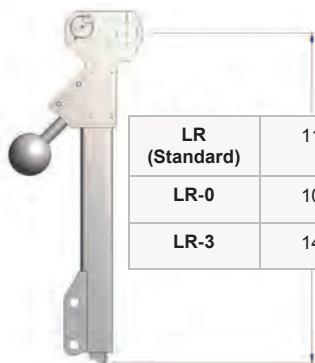
In 1918, Henry Ford asked one of his trusted quality engineers, Philip S. Arnold to improve the quality of his automotive parts. In the basement of his home, Philip invented and began building in-process grinding gages for Ford and other automotive companies. These gages became so popular that he founded the *ARNOLD GAUGE* Company in Flint, Michigan.

In 1973, the Bruns family brought *ARNOLD GAUGE* to Cincinnati, Ohio. With a tradition of nearly 100 years and over 75,000 *ARNOLD* gages, we proudly continue to provide the world's finest "in-process" grinding gage.



Customize your *ARNOLD GAUGE* System!

1. CHOOSE A GAGE FRAME...



LR (Standard)	11.75" (298mm)
LR-0	10.75" (273mm)
LR-3	14.75" (375mm)

Our standard "LR" **ARNOLD** Gauge frame (11.75" long) is perfect for most grinding jobs.

Use this table to select the proper Gauge frame for your application:

Frame #	LENGTH	Notes
LR (standard)	11.75" (298mm)	Most common
LR-0	10.75" (273mm)	Use if your grinding wheel is 12" (305mm) or smaller
LR-3	14.75" (375mm)	Use for large crankshaft grinding
Please contact us for other lengths		

2. CHOOSE AN INDICATOR...



ARNOLD dial indicators include a special dovetail back for secure mounting to the gage frame. The following models are available:

Indicator #	Resolution	Range	Features
194028	.0005"	.20"	Rev Counter
194002	.0001"	.025"	Rev Counter
194003	.0001"	.20"	Rev Counter
193703	.00005"	.015"	Rev Counter
194702	0.01mm	2.5mm	Rev Counter
194701	0.002mm	0.5mm	Rev Counter
Digital Indicator available upon request			

3. CHOOSE A CALIPER...



ADJUSTABLE CALIPER



LARGE CALIPER



SINGLE DIAMETER CALIPER



SPLINE CALIPER

ADJUSTABLE CALIPER

Adjustable calipers can be set to a new size with a hex wrench. Each has a graduated scale for easy setting. Round (disc) carbide contacts are standard. 1-3" and 3-5" calipers are available with flat contacts especially for crankshaft grinding. Flat contacts are available for other caliper sizes.

Size (inches)	Size (mm)	Notes
.1875-1.5"	6-40	
1-3"	25-75	Available with flat contacts for crankshaft grinding
3-5"	75-125	
5-8"	125-200	
8-12"	200-300	
12"+ Up to 24"	305+ Up to 610mm	Each has 1" (25mm) of range

SINGLE DIAMETER CALIPER

Great for extended production runs or repeating jobs. Each caliper is **custom made**, lapped to exact size, and marked. Available from .187"-20" (4.75mm-508mm).

SPLINE CALIPER

Custom made and lapped for gaging diameters with interruptions such as splines, keyways and flats. Available from .375"-8" (10-200mm)

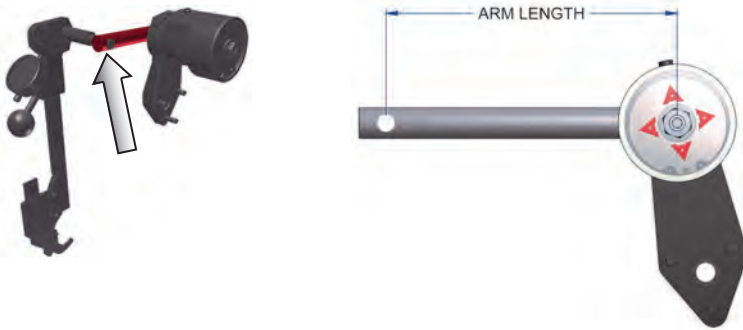


4. CHOOSE A GAGE HUB...



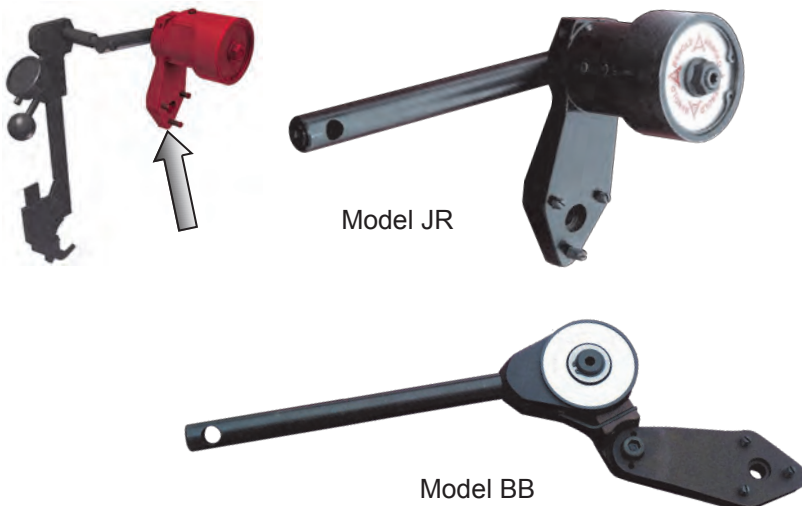
HUB STYLE	Description	When to use	
HR-1	Most common Laterally fixed	Most common	
HR-1-RB	Includes roller bearing	Sensitive diameter gaging	
HR-2	Includes floating ball bearing for lateral sensitivity	WF and LRWF Gages	
HR-3	Trunnion floating ball bearing for lateral sensitivity	WF, LRWF, TR-1	
HR-4	Short Trunnion Laterally fixed	TR-1 in limited space	
HR-5	Long Trunnion Laterally fixed	HR-3 and TR-1	
HR-7	Sliding Hub with extended lateral float	CRANKSHAFT and CAMSHAFT grinding	
TR-1	Trunnion Hook Rod	HR-3, HR-4, HR-5	
For ALL of these hubs, we recommend a DG-4 Dog Assembly to support your ARNOLD GAUGE when retracted			

5. CHOOSE A MOUNTING ARM...



Arm Length	Use if your caliper size is...	Notes
8"	Under 5"	Most common
10"	5-8"	
12"	8-12"	Use if required by mounting distance
14"		Use if required by mounting distance
16"		Use if required by mounting distance
Offset mounting arms available		

6. CHOOSE A MOUNTING



ARNOLD GAUGE mountings assure sensitive gage support while gaging, and lift the gage out of the way while swapping workpieces.

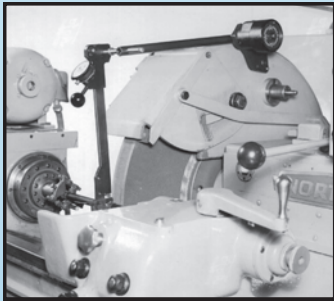
Model JR mountings include hydraulic motion control for smooth, shock-free operation.

Mounting Style	When to use
JR	Most common
JR: Heavy Duty	With a 14" or 16" mounting arm, or caliper larger than 12"
JR: Reverse	When mounting on the left side of grinder
BB	When using multiple gages in tight spaces

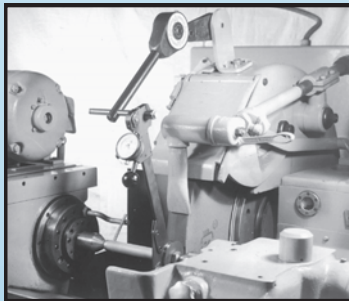
All mountings attach to your grinder (wheel guard, headstock, tailstock) with a single 1/2" Bolt. Three set screws allow you to accurately align the gage to your workpiece.

More Information...

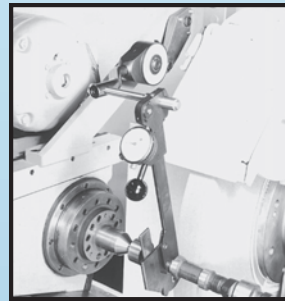
MOUNTING OPTIONS... An *ARNOLD GAUGE* can be mounted in a variety of ways...



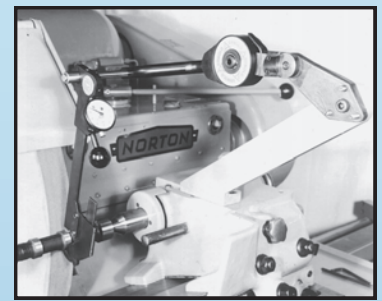
Mounted to Right Side
of Wheel Cover



Mounted to Top
of Wheel Cover
(uses a custom bracket)

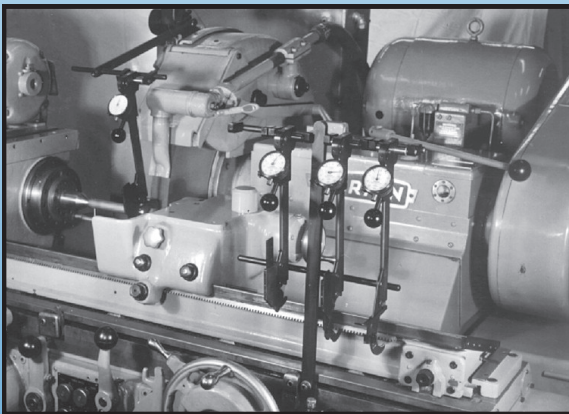


Mounted to Rear
of Headstock



Mounted to Front
of Headstock
(uses a custom bracket)

TRUNNION STORAGE RACK



TRUNNION STORAGE RACK

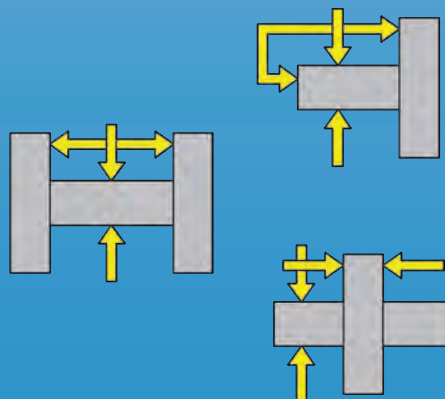
The model TRS Trunnion Storage Rack mounts near the operator and holds up to 4 grinding gages equipped with trunnion style hub assemblies (HR-3, HR-4, HR-5). The operator simply takes a gage and snaps it into place. This saves time when grinding parts with 2 or more diameters to gage.

MODEL LRWF (for diameters and widths)



The Arnold model LRWF provides a continuous reading of both width and diameter during the grinding cycle.

This flexible, modular system allows several different configurations:



SIMPLE

After setting the gage on a known size, production grinding is a breeze! Simply grind until the indicator returns to zero. There is no need to stop the machine to check size, and all guesswork is eliminated. Installation is also fast and easy.

RUGGED

The Arnold grinding gage stands up to any harsh grinding environment. Tungsten carbide contact points guarantee maximum wear resistance and longer life.

PRECISE

Each gage is hand fitted to insure accuracy and exceeding .0001" (.003mm).

PROVEN

Since 1918, over 75,000 satisfied customers have been saving time and money using Arnold gages.

COST EFFECTIVE

The Arnold grinding gage pays for itself in no time.

Time savings

+ eliminated scrap

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ARNOLD GAUGE

9823 Harwood Court

Fairfield, OH 45014

Phone: 877-942-4243

Fax: 877-942-2877

www.arnoldgauge.com

info@arnoldgauge.com

**Making grinding
better since 1918.**



ARNOLD GAUGES:
Standing the test of time.



**Order today, and
start gaging tomorrow.**

ARNOLD GAUGE