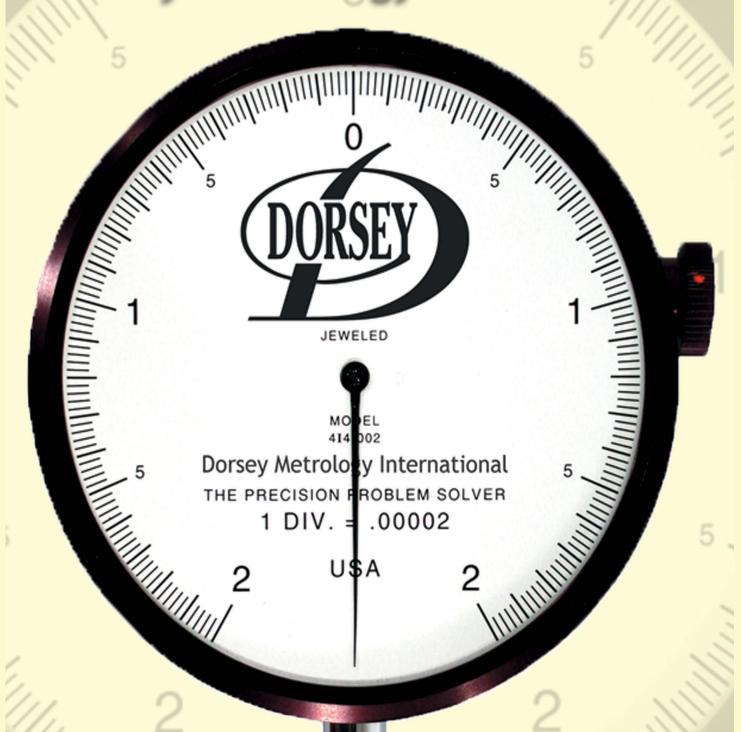
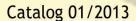
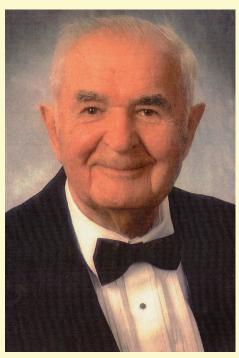
Dorsey Metrology International



Dimensional Measurement Instruments



HISTORY OF DORSEY



In 1955 Dorsey Gage Company was incorporated in New York State by its founders, Theodore F. Luty Sr. and his wife Helen Luty. The company began in Hyde Park, New York as a machine shop specializing in the manufacture of simple inspection gages and sub-contract machining. From the very beginning, the company aim was to provide precision craftsmanship and customer satisfaction. As the company grew, it began to design and build equipment, which addressed the specific needs of its customers. This exposure in turn provided the basis for the continuing development of Dorsey Gage Company's standard inspection products.

In 1975 Dorsey purchased the instrument division of the Hamilton Watch Company of Lancaster, Pennsylvania. This acquisition added the well-known and respected Hamilton / Datcon dial indicator instruments to the Company's products. The next year, 1976, Dorsey relocated to 253 Mansion Street in the Poughkeepsie, New York.

In 1986 Dorsey Gage acquired Pexit, an English company known throughout Europe and Asia for their precision optical comparators. The design and manufacture of Pexit comparators was relocated to Poughkeepsie, New York, where it became the Optical Metrology Division of Dorsey Gage. Since its inception, the Optical Metrology Division has adapted the Dorsey philosophy of providing a top quality inspection instrument that exactly matches the customers' requirements.

Theodore Francis Luty

Throughout the entire development of the Dorsey family of inspection products, the company also continued the sale of their craftsman services. These services included; instrumentation, contract machining, inspection, automation and the manufacture of special tooling and equipment. While catering to a variety of companies, their most prominent customer was IBM Corporation. It was through these efforts with IBM, that Dorsey Gage Company became involved in a project known as the electrostatic chuck program. This program was the basis for Dorsey's Semiconductor Division.

On March 1, 2001, Dorsey Gage Company and the E.S.C. Division were sold. Prior to the closing, the metrology division became a separate company, with Ted Luty Jr. as president. The new company, Dorsey Metrology International, consisted of the division's former management, employees and assets. The old Dorsey Gage Company, now with a new name, Dorsey Metrology, continues the manufacturing and distribution of gages, inspection instruments and optical comparators.

Following Brown & Sharpe's (Hexagon's) closure of the Standard Gage Company also in Poughkeepsie, N.Y. Dorsey Metrology announced their intension to manufacture and support many of

the products that were previously manufactured by Standard Gage Company. On April 18, 2002 Dorsey Metrology acquired much of Standard Gage Company's specialized tooling and machinery at auction and subsequently hired key Standard employees to continue manufacturing of the core products. These key products included the Standard style bore and snap gages that have long been an established industry standard. Dorsey continues to provide Standard's customers with high quality interchangeable parts, modifications, specials and new models to meet their current and future needs.

Dorsey Metrology is now in its third generation of Luty Family management. On December 19, 2012, Devon Luty (the former vice-president) was named president of the company. The company's corporate offices and current manufacturing are all located at 53 Oakley Street, Poughkeepsie.

Ted Luty Jr., C.E.O Devon Luty, President



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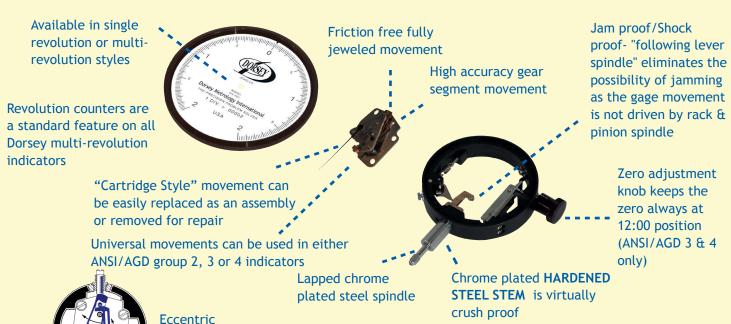




INDICATING DEVICES SECTION

HIGH AMPLIFICATION DIAL INDICATORS

Dorsey's high amplification dial indicators feature a shock proof "following" type jeweled movement utilizing the unique lever principle of amplification and lightweight low inertia segmented precision gears for unparalleled accuracy and repeatability.



The illustration to the left shows Dorsey's unique shock proof, high amplification indicator movement. Our indicators feature this lever principal and an adjustable eccentric cam to achieve unparalleled accuracy and repeatability.

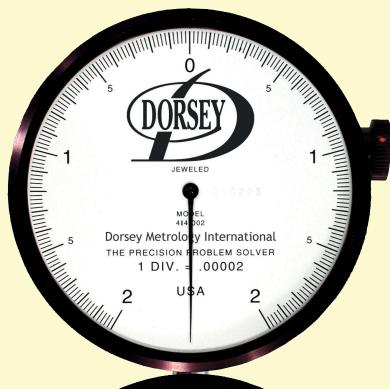
TRADITIONAL DIAL INDICATORS

cam

Dorsey's traditional rack and pinion dial indicators feature heavy duty forged bronze cases, massive gears & spindles and fully jeweled hardened stainless steal cartridge style movements.

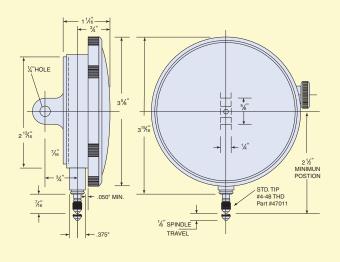


20 Millionths that you can actually read!



FEATURES:

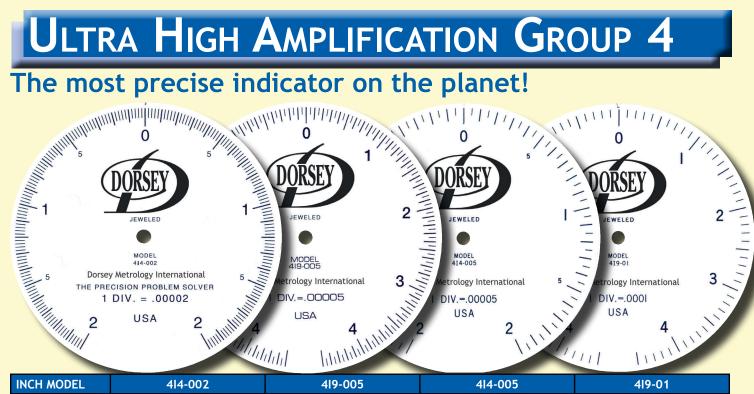
- High amplification movement permits:
 - Graduations as fine as 0.00002".
 - Improved readability and minimized judgement error.
 - Performance comparable to more expensive gaging methods.
 - Convenient portability no external connections required.
 - Interchangeability can be used in the same environment as any other mechanical dial indicator.
 - Simplified service complete movement is easily removed from the case for cleaning or direct replacement at low cost.
- Lever principle of amplification minimizes effect of spindle sideshake. Linearity and repeatability maintained through millions of cycles.
- 3-5/8" bezel conforms to ANSI/AGD standards.
- Adjustable gaging force easily adjustable from 2 to 5 oz. by externally accessible screw.
- External zero adjustment knob makes possible the advantage of adjusting indicator hand to zero rather than rotating bezel to 'zero' hand.
- Optional lifting lever or cable release. Use lifting lever only when indicator is back mounted. Cable release may be used when indicator is back or stem mounted and enhanced stability of gaging setup.



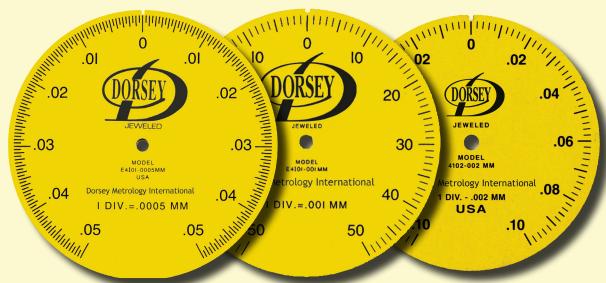
See page A-12 for dial face options, A-13 for accessories & contacts and A-4 for back options



The most precise indicator on the planet!



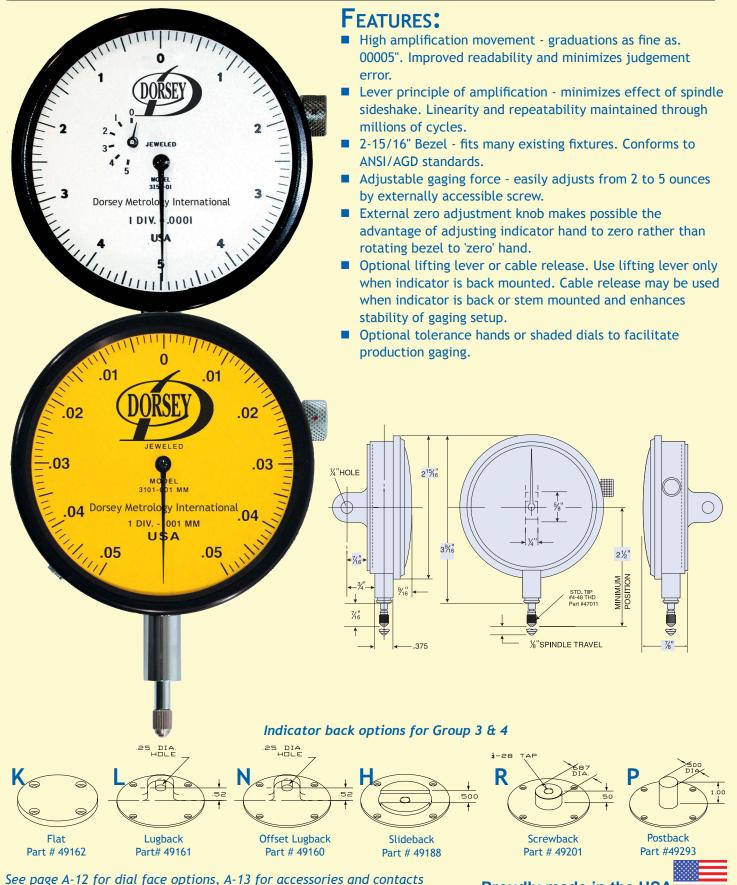
INCH MODEL	414-002	419-005	414-005	419-01
Graduation	.00002"	.00005"	.00005"	.0001"
Total Travel	.004"	.009"	.004"	.009"
Dial	.002"-0002"	.0045"-00045"	.002"-0002"	.0045"-00045"
Revolutions	1 Rev.	1 Rev.	1 Rev.	1 Rev.
Accuracy	less than +/00002"	less than +/00005"	less than +/00005"	less than +/0001"
Repeatability	+/- 10 millionths (.000010")	+/-10 millionths (.000010")	+/-10 millionths (.000010")	+/- 20 millionths (.00002")



METRIC MODEL	4l01-0005mm 4l01-001mm		*4I02-002mm
Graduation	uation 0.0005mm 0.001mm		0.002mm
Total Travel	l Travel 0.1mm 0.1mm		0.2mm
Dial	0.05-0-0.05mm 0.05-0-0.05mm		0.10-0-0.10mm
Revolutions	olutions 1 Rev. 1 Rev.		1 Rev.
Accuracy	less than +/- 0.0005mm	less than +/- 0.001mm	less than +/- 0.002mm
Repeatability	+/- 0.0001mm	+/- 0.0002mm	+/- 0.0004mm

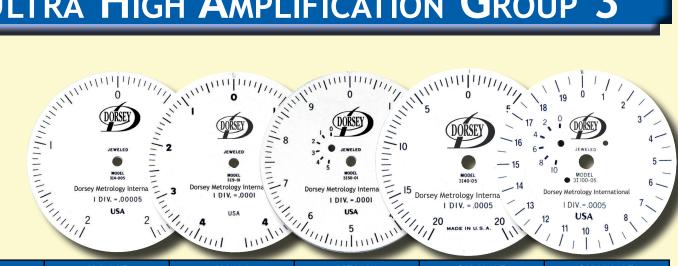
* Special order





A-4

Dorsey Metrology International Website: www.dorseymetrology.com

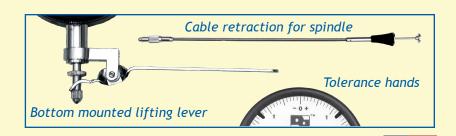


MODEL	314-005	319-01	3I50-01	*3140-05	*31100-05
Graduation	.00005"	.0001"	.0001"	.0005"	.0005"
Total Travel	.004"	.009"	.050"	.040"	.100"
Dial	.002"-0002"	.0045"-00045"	0005"-0	.02"-002"	0010"-0
Revolutions	1 Rev.	1 Rev.	5 Rev.	1 Rev.	5 Rev.
Accuracy	+/00005"	+/0001"	+/0001"	+/0005"	+/0005"
Repeatability	+/00002"	+/00002"	+/00002"	+/0001"	+/0001"



MODEL	3101-001mm	3102-002mm	*3I10-002mm	3I10-01mm	S3I25-005mm
Graduation	0.001mm	0.002mm	0.002mm	0.01mm	0.005mm
Total Travel	0.1mm	0.2mm	1.0mm	1.0mm	0.5mm
Dial	0.05-0-0.05mm	0.10-0-0.10mm	0.5-0-0.5mm	0.05-0-0.05mm	0-0.25mm-0
Revolutions	1 Rev.	1 Rev.	5 Rev.	1 Rev.	1 Rev.
Accuracy	+/- 0.001mm	+/- 0.002mm	+/- 0.002mm	+/- 0.01mm	+/- 0.005mm
Repeatability	+/- 0.0005mm	+/- 0.0005mm	+/- 0.0005mm	+/- 0.002mm	+/- 0.001mm

AGD/ANSI GROUP 3 & 4					
ACCESSORIES PART #					
Bottom Mounted Lifting Lever	49341				
Tolerance Hands	49156				
Cable Release	47935				
Special Shaded Dials	As Quoted				







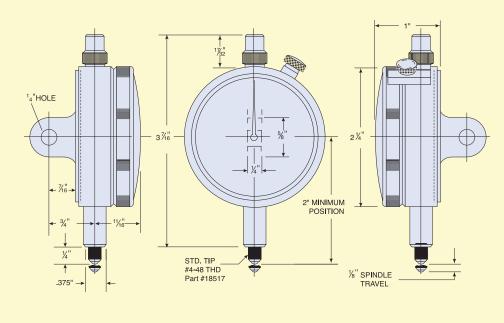
^{*} Special order

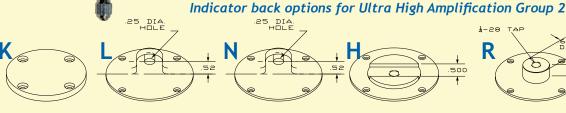
All Dorsey Ultra Amplification Indicators utilize the lever principle of motion. They do not rely on rack and pinion motion. This eliminates the inherent error between the meshing of racks and gears.



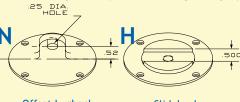
FEATURES:

- High amplification movement graduations as low as .00005". Improves readability and minimizes judgement error.
- Lever principle of amplification minimizes effect of spindle sideshake. Linearity and repeatability maintained through millions of cycles.
- 2.25" Bezel fits many existing fixtures. Conforms to ANSI/AGD standards.
- Low gaging force standard is 3 oz. Available at higher or lower values with factory adjustment.
- Chrome plated hardened steel stem is designed for clamping. It is virtually crush proof.
- Bezel zero adjustment insures positive lock.
- Straight through spindle permits installation of top mounted accessories and options.
- Optional lifting lever positions can be attached to top bushing or stem.
- Optional tolerance hands or shaded dials to facilitate production gaging.



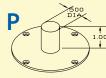


Lugback Part# 49261



Offset Lugback Slideback Part# 49260 Part# 49259 Screwback

Part# 49230



Postback Part# 49289

See page A-12 for dial face options, A-13 for accessories and contacts

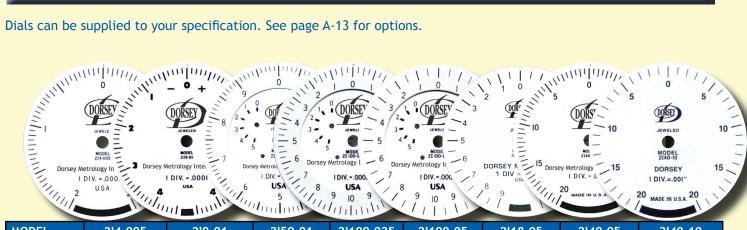
Proudly made in the USA



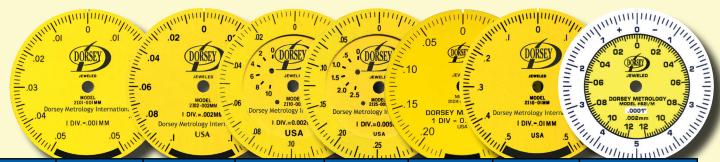
Part# 49262

A-6

Dials can be supplied to your specification. See page A-13 for options.



MODEL	214-005	219-01	2150-01	21100-025	21100-05	2 18-05	2140-05	2140-10
Graduation	.00005"	.0001"	.0001"	.00025"	.0005"	.0005"	.0005"	.001"
Total Travel	.004"	.009"	.050"	.100"	.100"	.018"	.040"	.040"
Dial	.002"-0002"	.0045"-00045"	0005"-0	010"-0	010"-0	.009"-0009"	.020"-0020"	.020"-0020"
Revolutions	1 Rev.	1 Rev.	5 Rev.	5 Rev.	5 Rev.	1 Rev.	1 Rev.	1 Rev.
Accuracy	+/00005"	+/0001"	+/0001"	+/00025"	+/0005"	+/0005"	+/0005"	+/0005"
Repeatability	+/00001"	+/00002"	+/00002"	+/00005"	+/0001"	+/0001"	+/0001"	+/0001"



_			THE HITTE				
MODEL	2101-001mm	2l02-002mm	2l10-002mm	2l25-005mm	2104-005mm	2l10-01mm	S2I/M
Graduation	0.001mm	0.002mm	0.002mm	0.005mm	0.005mm	0.01mm	.0001" (0.002mm)
Total Travel	0.1mm	0.2mm	1.0mm	2.5mm	0.4mm	1.0mm	.010" / 0.24mm
Dial	0.05-0-0.05mm	0.1-0-0.1mm	01mm-0	025mm-0	0.2-0-0.2mm	0.5-0-0.5mm	0005"-0
Revolutions	1 Rev.	1 Rev.	5 Rev.	5 Rev.	1 Rev.	1 Rev.	1 Rev.
Accuracy	+/- 0.001mm	+/- 0.002mm	+/- 0.002mm	+/- 0.005mm	+/- 0.005mm	+/- 0.01mm	+/0001" (0.002mm)
Repeatability	+/- 0.0002mm	+/- 0.0004mm	+/- 0.0004mm	+/- 0.001mm	+/- 0.001mm	+/- 0.002mm	+/00002" (.0005mm)



For perpendicular indicator add -90 as suffix.

Example: 2101-001mm-90

For extended indicator stem of 3 inches

add D4- as prefix. Example: D4-2I50-01



ACCESSORIES	AGD 2 PART #
Bottom Mounted Lifting Lever	49341
Top Mounted Lifting Lever	49340
Tolerance Hands	49255
Special Shaded Dials	As Quoted





GROUP 2 TRADITIONAL DIAL INDICATORS

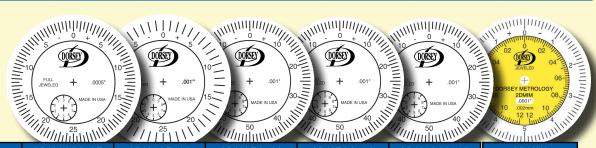
FEATURES:

- Precision rack and pinion design.
- Protective case opens from front to protect movement from contamination.
- Fully jeweled movement with rev. counter.
- Forged bronze, chrome plated case.
- Screwed-on, hardened steel chrome plated stem.
- Universal .375" diameter stem with #4-48 spindle thread.
- Balanced and continuous dial faces available.

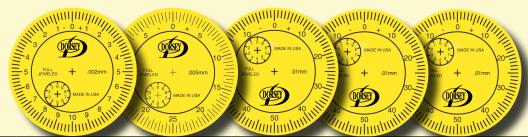




MODEL	2DM025-01	2DM100-01	2DM050-05	2DM075-05	2DM125-05	2DM250-05	2DM500-05
Graduation	.0001"	.0001"	.0005"	.0005"	.0005"	.0005"	.0005"
Total Travel	.025"	.100"	.050"	.075"	.125"	.250"	.500"
Revolutions	2.5 Rev.	10 Rev.	5 Rev.	2.5 Rev.	2.5 Rev.	5 Rev.	10 Rev.
Travel/Rev.	.010"	.010"	.020"	.030"	.050"	.050"	.050"



MODEL	2DM1000-05	2DM125-10	2DM250-10	2DM500-10	2DM1000-10	2DMIM
Graduation	.0005"	.001"	.001"	.001"	.001"	.0001"/0.002mm
Total Travel	1.00"	.125"	.250"	.500"	1.00"	.010"/0.24mm
Revolutions	20 Rev.	5 Rev.	2.5 Rev.	5 Rev.	10 Rev.	1 Rev.
Travel/Rev.	.050"	.050"	.100"	.100"	.100"	.010"/0.24mm



MODEL	2DM005-002mm	2DM012-005mm	2DM5-01mm	2DM10-01mm	2DM25-01mm
Graduation	0.002mm	0.005mm	0.01mm	0.01mm	0.01mm
Total Travel	.5mm	1.25mm	5mm	10mm	25mm
Revolutions	2.5 Rev.	2.5 Rev.	5 Rev.	10 Rev.	25 Rev.
Travel/Rev.	0.200mm	0.50mm	1.0mm	1.0mm	1.0mm







RADITIONAL DIAL INDICATORS

BACK OPTIONS FOR GROUP 2 Flat Adjustable Offset Lug Post Lug (Sheet metal) Part #C23

Part #C25

The letter designating the indicator back follows the letter designating the dial format.						
Example #1: 2I50-01B	Н	Example #2: 2DM100-01B	Н			

Part #C21

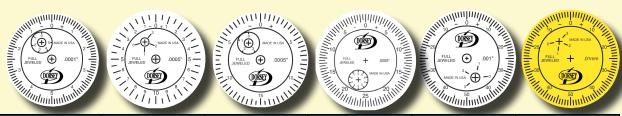
See page A-12 for dial face options, A-13 for accessories and contacts

Part #C24

Part #C22

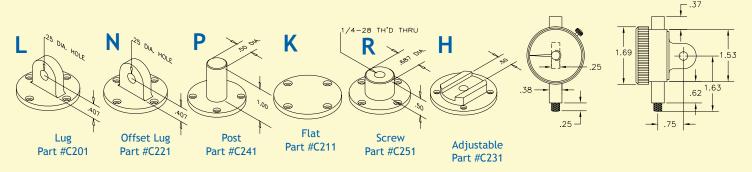
Part #C20

TRADITIONAL DIAL INDICATORS GROUP



MODEL	1DM025-01	1DM050-05	1DM075-05	1DM125-05	1DM250-10	1DM2-01mm
Graduation	.0001"	.0005"	.0005"	.0005"	.001"	0.01mm
Total Travel	.025"	.050"	.075"	.125"	.250"	2.5mm
Revolutions	2.5 Rev.					
Travel/Rev.	.010"	.020"	.030"	.050"	.100"	1.0mm

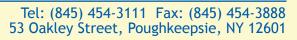
BACK OPTIONS FOR GROUP 1



A-9

The letter designating the indicator back follows the letter designating the dial format.						
Example #1: 2I50-01B	Н	Example #2: 2DM100-01B	Н			





Dorsey Standard Dial Indicating Unit

HIGH AMPLIFICATION FEATURES

- Shock proof fully jeweled Dorsey high amplification movement.
- Cartridge style movement assembly is easily replaced to limit gage downtime.
- Heavy duty aluminum housing.

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- Directly interchangeable with Standard Gage® Brown and Sharp bore gaging products.
- All resolutions feature .125" spindle travel.



For perpendicular indicator unit add -90 as suffix. Example: DS-2I40-05-90 High Amplification Series Only



Model	DS-214-005	DS-219-01	DS-2I50-01	DS-2I100-025	DS-2I100-05	DS-2I18-05	DS-2I40-05	DS-2I40-10
Graduation	.00005"	.0001"	.0001"	.00025"	.0005"	.0005"	.0005"	.001"
Total Travel	.004"	.009"	.050"	.100"	.100"	.018"	.040"	.002"
Dial	.002"-0002"	.0045"-00045"	0005"-0	010"-0	010"-0	.009"-0009"	.020"-0020"	.002"-0002"
Revolutions	1 Rev.	1 Rev.	3 Rev.	3 Rev.	3 Rev.	1 Rev.	1 Rev.	1 Rev.
Accuracy	+/- 0.00005"	+/- 0.0001"	+/- 0.0001"	+/- 0.00025"	+/- 0.0005"	+/0005"	+/- 0.0005"	+/- 0.001"
Repeatability	+/- 0.00001"	+/- 0.00002"	+/- 0.00002"	+/- 0.00005"	+/- 0.0001"	+/0001"	+/- 0.0001"	+/- 0.0005"



Model	DS-2I01-001mm	DS-2I02-002mm	DS-2I10-002mm	DS-2125-005mm	DS-2I04-005mm	DS-2I10-01mm	DS-S2I/M
Graduation	0.001mm	0.002mm	0.002mm	0.005mm	0.005mm	0.01mm	.0001" (0.002mm)
Total Travel	0.1mm	0.2mm	1.0mm	2.5mm	0.4mm	1.0mm	.010" / 2.5mm
Dial	0.05-0-0.05mm	0.10-0-0.10mm	010mm-0	025mm-0	0.2-0-0.2mm	0.5-0-0.5mm	0050"-0
Revolutions	1 Rev.	1 Rev.	3 Rev.	3 Rev.	1 Rev.	1 Rev.	1 Rev.
Accuracy	+/- 0.001mm	+/- 0.002mm	+/- 0.002mm	+/- 0.005mm	+/- 0.005mm	+/- 0.01mm	+/0001" (.002mm)
Repeatability	+/- 0.0002mm	+/- 0.0004mm	+/- 0.0004mm	+/- 0.001mm	+/- 0.001mm	+/- 0.002mm	+/00002" (.0005mm)

TRADITIONAL MOVEMENT (RACK & PINION MOVEMENT)



Model	DS-2DM025-01	DS-2DM100-01	2DM050-05	DS-2DMIM	2DM005-002mm	2DM012-005mm	DS-2DM5-01mm
Graduation	.0001"	.0001"	.0005"	.010"/0.25mm	0.002mm	0.005mm	0.01mm
Total Travel	.025"	.100"	.50"	.0001"/0.002mm	.5mm	1.25mm	5mm
Revolutions	2.5 Rev.	10 Rev.	5 Rev.	1 Rev.	2.5 Rev.	2.5 Rev.	5 Rev.
Travel/Rev.	.010"	.010"	.020"	.010"/0.25mm	0.200mm	0.50mm	1.0mm

Proudly made in the USA



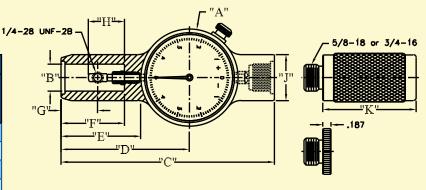
A-10

DORSEY STANDARD DIAL INDICATING UNIT

ECHNICAL SPECIFICATIONS

Dorsey offers an integrated indicator housing for just about any application.

	DIAL UNIT HOUSINGS									
DIM.	AGD 1	SMALL AGD2	STAN- DARD AGD 2	HEAVY DUTY AGD 2 HD	1" SHAFT AGD 3					
A	1.90"	2.25"	2.25"	2.25"	2.75"					
В	.38"	.50"	.62"	1.00"	1.00"					
С	3.50"	4.25"	5.25"	6.12"	6.5"					
D	2.42"	2.40"	3.16"	3.66"	3.81"					
E	1.50"	1.30"	1.90"	2.40"	2.45"					
F	1.00"	1.10"	1.50"	2.00"	2.00"					
G	.36"	.60"	.84"	1.13"	1.06"					
Н	.50"	.50"	.84"	.88"	1.19"					
J	.56"	.88"	1.06"	1.44"	1.44"					
K	.91"	2.00"	2.20"	3.00"	3.00"					



INDICATOR HOUSING OPTIONS











For .312" dia. shaft For .500" dia. shaft For .625" dia. shaft For .625" dia shaft Part # Example: DS-1DM025-01 Only available for

1DM indicators

Part # Example: DS-2I50-01-2

Part # Example: DS-2I50-01 Standard unit

A-11

Part # Example: DS-2DM025-01

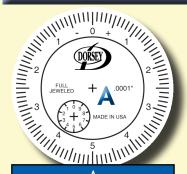
For 1" dia. shaft Part # Example: DS-2I50-01-6

independent dial indicator housing Pt # DX4-81035 for most digital indicators Pt # DX4-81040 for DM series digital indicators





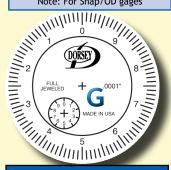
DIAL FACE FORMATS (AGD SIZE 2)



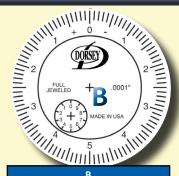
Balanced Numbering

(Plus on right. Minus on left.)

Note: For Snap/OD gages



Continuous Counter-Clockwise Numbering



Balanced Numbering

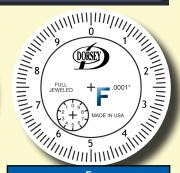
(Plus on left. Minus on right.)

Note: For bore/ID gages



Balanced Numbering

(Plus and minus omitted)

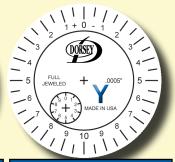


Continuous Clockwise Numbering



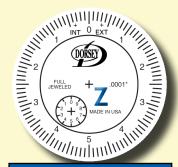
Preloaded

When the indicator contact is fully depressed, the Rev. counter shows "0" and the large hand is at 6 o'clock



Reversed Action

Indicator spindle is spring loaded up A.K.A. pushdown indicator



No Charge

Both internal and external on outer dial for ID/OD gages

SPECIAL SHADED DIALS

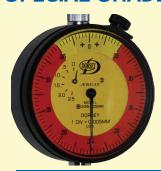
The letter designating the dial format follows the indicator part number.

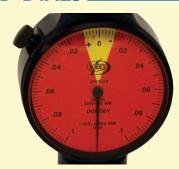
Example #1: 2I50-01B

Н

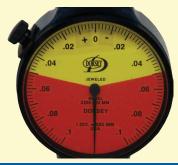
Example #2: 2DM100-01B

Н









RADITIONAL DIAL INDICATOR OPTIONS



Internal hole attachment 1.68" depth Part #C28

Internal hole attachment .81" depth Part #C29



attachment Part #C30



Top left lifting lever Part #C77 Part #C77R (Right)





INDICATOR TOOLS, ACCESSORIES, & CONTACTS

Part #TLDI-4003 Pinion centralizing face plate

Part #TLDI-4004M Metric calibration face plate set for ANSI/AGD -2

Part #TLDI-4004 **English** calibration face plate set for



Part #TLDI-4006 Hand installation punch tool

Part #TLDI-4013 Pinion spring press tool

5 C Part #TLDI-4005 Calibration adjustment wrench

> Part #TLDI-4008 .060 Screw driver

Part #TLDI-4007 Pinion tweezer



Part #TLD1-4002 Indicator hand removal tool



Part #TLDI-4001 **Holding Fixture**

ANSI/AG	iD -2	Mudunt 100	hundry hard	THE STATE OF THE S		P
CONTACTS	PART #	MATERIAL	L	W	DIA/ or RAD	١
Ball	18517	Steel	.235"		(#2 Std) .125" Ball	ı
	47011	Steel	.276"		(#3 & 4 Std) .125" Ball	1
	18518	Steel	.375"		.125" Ball	1
	18519	Ruby	.276"		.125" Ball	1
	18520	Carbide	.276"		.250" Radius	1
	47936	Ruby	.276"		.180" Radius	1
Blank (Soft)	47066	Steel	1.00"		.156" Dia.	
Extended Range	16631	Steel	.236"			
Extended Shovel	4082-ES	Carbide		Steel	.125" Dia.	
Extensions &	18531	Steel	.32"		.156" Dia.	1
Thread Adapters	47072	Steel	.500"		.156" Dia.	l
	47071	Steel	1.000"		.156" Dia.	1
	162	Steel	.30"		4-48 male to M 2.5	l
 	163	Steel	.30"		M 2.5 male to 4-48	1
	164	Steel	.37"		5-44 male to 4-48	
Flat	47937	Steel	.250"		.156" Dia.	
	47076	Steel	.500"		.156" Dia.	
	47079	Steel	.750"		.156" Dia.	
	47074	Steel	1.00"		.156" Dia.	
	18532	Carbide	.250"		.156" Dia.	
.156 _	18533	Carbide	.500"		.156" Dia.	
TYP.	18534	Carbide	.750"		.156" Dia.	
	18535	Carbide	1.00"		.156" Dia.	
Flat Pin	18524	Steel	.100"		.020" Dia.	
	18525	Steel	.100"		.040" Dia.	
	18526	Steel	.200"		.060" Dia.	
.47 D	18527	Steel	.500"		.080" Dia.	
Mushroom	297-S	Steel			.250" Dia.	
<u>, †</u>	297-C	Carbide			.250" Dia.	
□ DIA.	298-S	Steel			.500" Dia.	
<u>†</u>	110	Steel	.250"		.250" Dia.	
Needle .44	3655	Steel				

	PART#	MATERIAL	L	DIA/ or RAD
Offset — .25 —	2740	Steel		
.063 DIA.	2740-C	Carbide		
Radius	47075	Steel	.500"	.156" Dia., .25" Rad.
¹ 4"RAD.7	47080	Steel	.750"	.156" Dia., .25" Rad.
	47073	Steel	1.000"	.156" Dia., .25" Rad.
L	112	Steel	.250"	.187" Dia., .25 Rad.
Rail → L →	18528	Steel	.100"	
	18529	Steel	.150"	
└- -	18530	Steel	.200"	
Shovel	4082-SN	Steel		With lock nut
312	4085-CSN	Carbide		With lock nut
.31 -	4082-ESN	Carbide		Extended / nut
Taper Flat	18522	Carbide	.375"	.040" Dia.
	47077	Steel	1.00"	.060" Dia.
	47943	Carbide	1.00"	.060" Dia.
Taper Radius	302-S	Steel		
.44	302-C	Carbide		
Contact Spacer	175-1		.040" Thick	
	175-2		.060" Thick	
	175-3		.090" Thick	
Use between indicator and s	pindle to extend cor	ntact reach.		
Stem Bushing				
	125			
Used to adapt 8mm indicato	r stem to 3/8" hole.			
Helping Spring	120		.230" Dia. X	
			5"	
Used in conjunction with part #110 mushroom shoulder contact to increase spindle pressure.				





DIGITAL INDICATORS

Dorsey offers the most popular styles of digital indicators to complement our gages. Use the matrix below to select the proper indicator for your application. Please note that we offer many other digital indicators. Contact us if your requirements are not met by these selections.

	PART#	RANGE	RESOLUTION	ACCURACY	FEATURES/DESCRIPTION
190	MT543-692BDM	.500" / 12.7mm	.00005" / 0.001mm	< .0008"	ID-S series, SPC output, inch/metric select, rotating face, capacitive system, 20,000 hour battery life # SR44
	MT543-392BDM	.500" / 12.7mm	.00005" / .0001"/ .0005" Inch and 0.001mm / 0.01mm Metric Selectable	< .00012"	This ID-C series includes, large digital readout display, Inch/Metric switchable, go/ no-go feature by setting upper & lower limits and SPC data output, rotating face, 5,000 hour battery life.
MAX HOLD TO THE TOTAL THE	MT543-266BDM	.500" / 12.7mm	.00005" / 0.001mm	< .00012"	This ID-C series is designed for I.D/bore gage applications, digital readout and analog bar graph displays, Inch/Metric switchable, minimum value holding function, go/no-go feature and SPC data output, 2,000 hour battery life.
STYLE 1	MT543-287BDM	.500" / 12.7mm	.00001"05"/ 0.0002 - 1mm	< .00012"	Programmable model Inch/Metric 2:1 and 4:1 Digital Indicator Ordering MT543
1	DM-A2500-C	.250"	.0001" / 0.002mm	+/0001"	Numeric & analog visual display, inch/ metric selectable, floating zero, rotating
* 0000°	DM-A3500-C	.250"	.00005" / 0.001mm	+/00005"	bezel, incremental measuring mode, high/low tolerance settings, min/max hold reading, TIR, absolute/preset
WOLD WANT TO ASSTORE TO THE STATE OF THE STA	DM-A2600-C	.600"	.0001" / 0.002mm	+/00005"	measuring mode, max/min reading and display/freeze reading hold, program-
AULTO-OFF	DM-A2110-C	1.00"	.0001" / 0.002mm	+/00005"	mable lock combination, data output.
ı ii	DM-Q2500-C	.250"	.0001" / 0.002mm		Same as above except without analog
V =	DM-Q3500-C	.250"	.00005" / 0.001mm		visual display and with programmable presets and ratios used for three point
STYLE 2 Made in the USA	DM-Q2600-C	.600"	.0001" / 0.002mm		gages and countersink and chamfer gages.
DORSEY) - DOZ 115 Indian MOFF ZEROON	M2034101	+/040"/1.00mm	.00001"/ 0.0002mm .00002"/ 0.0005mm .00005"/ 0.001mm .0001"/ 0.002mm	+/020" = 0.25%	Digital readout and analog bar graph display, Inch/Metric and resolution switchable, deviation from zero or preset capabilities for actual size, auto power down, Go/No-go feature and data output.
STYLE 3 Made in the USA	M2034201	+/040"/1.00mm	.0002"/ 0.005mm .0005"/ 0.01mm .001"/ 0.02mm	+/040" = 0.50%	Utilizes the features above plus hold, min/max & TIR functions, multiplier func- tion for ratios and two point difference measurement.
2 3 -0086s	M2033101	+/040"/1.00mm	Digital Display .00002"/ 0.0005mm .00005"/ 0.001mm .0005"/ 0.001mm	+/- 0.50%	Inch/Metric, resolution switchable Digital readout and analog fan display, min/max TIR, hold and reset function without output
STYLE 4 Made in the USA	M2033111	+/040"/1.00mm	.0001"/ 0.002mm Analog Display .0005"/ 0.001mm .0001"/ 0.002mm .001" / 0.02mm	+/- 0.50%	Includes same features as above, but also includes RS232 output
9000	FV54520790	.50"	0000511 1 5 55		Sylvac Swiss electronic package, OPTO RS232 output, inch/metric switchable,
OOOO SET	FV54520777	1.00"	.00005" / 0.001mm	+/0001"	hold funtion, preset, single lithium bat- tery #CR2032 4500 hour life, face rotates 270 degrees
T T	FV54520875	.50"	.00005" / 0.001mm or	+/00008"	Inlcudes same features as Style 1 above, also includes Min/Max/TIR modes, toler-
STYLE 5	FV5420888	1.00"	.0005" / 0.01mm		ance signal lights, selectable resolution

Note: All indicator part #'s shown above include a standard flat back. Contact us for other optional backs & accessories.



MODULES AND REMOTE TRANSMITTERS

- All Dorsey dimensional measurement instruments that are used with digital indicators can be connected to wireless transmitters.
- The real time wireless data collection and recording system efficiently sends the measurement files to a base station, saving time and eliminating errors.
- The electronically collected measurement can be used for a variety of purposes:
 - To enter data directly into any stastical process control (SPC) or data acquisition (DAQ) software or take real-time data directly into Windows applications such as Excel, Minitab, SPC software, etc.
 - The dimensional readings taken in real time can be sent to interface with the CNC controllers of machine tools to automatically adjust the machine settings for part size variations and trends.





Dorsey Metrology and MicroRidge have come together to offer the MobileCollect Wireless on any Dorsey Instruments available with variety of manufacturer's digital indicators such as Mahr-Federal, Mitutoyo, Starrett and Sylvac-Fowler. The MobileCollect is a great alternative to their proprietary wireless data collections systems but both options are available.

MobileCollect Wireless on the move

MicroRidge Systems Inc. Tel: 541-593-1656 www.microridge.com





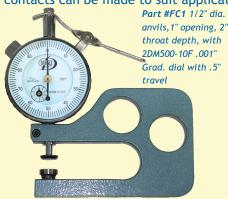
Proudly made in the USA



A-15

FAST CHECK THICKNESS GAGE

Recommended for quick thickness checks of flat sheet materials and wide variety of small parts. Supplied with hardened steel gaging contacts, lifting levers and clockwise continuous dial indicators. Special frames, throat depths & contacts can be made to suit application.



Part #FC1-01 Frame and contacts,

less indicator



Part #FC2-01 Frame and contact, less indicator



Part #FC3-01 Frame and contacts, less indicator

DEPTH GAGES



FEATURES:

- Ground & hardened steel base.
- Base is .75" wide x .62" high.
- Holes located 1" and then 2" from end.
- Includes 3/8" dia indicator collet.
- Available with dial or digital indicators.

BASES			
DESCRIPTION	PART #		
2" long, 1 central hole	C-512		
3" long, 1 central hole	C-513		
4" long, 2 holes	C-514		
6" long, 3 holes	C-516		
8" long, 3 holes	C-518		



CONTACT EXTENSIONS		
DESCRIPTION	PART #	
Contact	112	
1" Extension	47071	
2" Extension	47071-2	
3" Extension	47071-3	
4" Extension	47071-4	
5" Extension	47071-5	
Contact/extension set 6pc	DDGCS	

"V" BASE DIAL DEPTH GAGE

Used to measure depths of small holes, engraving, rivets or slots with extreme accuracy, Knife edge base with center cut permits unobstructed view of point for exact positioning

PART #	DESCRIPTION
DDG-125B	"V" Base dial depth gage with .0005" graduation, .125" range balanced dial (Mil. Spec.)
DDG-125C	"V" Base dial depth gage with .0005" graduation, .125" range continuous dial
2DM125-05AY	Replacement indicator, .0005" graduation, .125" range, balanced dial, push down series
2DM125-05GY	Replacement indicator, .0005" graduation, .125" range, continuous dial, push down series
DDG-125NI	"V" Base with contact, less indicator
DDG-CASE	Fitted Storage Box

FEATURES:

- .125" Range.
- .0005" Graduation dial indicator.
- Ground hardened steel base.
- Base is 2.5" x .5".
- Interchangeable hardened steel gaging contact.
- Also available with digital indicator.



Proudly made in the USA



Dorsey Metrology InternationalWebsite: www.dorseymetrology.com



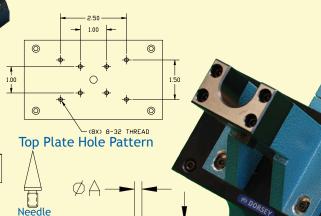
BG-DIRECT & BG-2 BENCH GAGE

BG Series bench gages are universal indicating depth or flush pin gages used to check depths, lengths, face concentricity or locations.

The BG Direct utilizes various models of a dial or digital indicators. The indicator is protected from damage as it is enclosed beneath the gage itself.

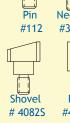
The rest plate is 3" x 5" hardened and ground steel which has a series of threaded holes. Special nesting rests or holding fixtures and clamps can be mounted to orient parts for measurement of specific dimensions.

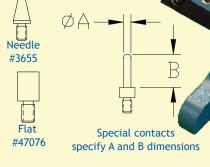
PART #	DESCRIPTION
BGD	Model BG Direct with Part #112 steel pin contact and (1" range, .001" graduation) dial indicator
BGD-NI	Model BG Direct with Part #112 steel pin contact less indicator
BGD-SET	Model BG Direct with set of steel contacts (shown below) (1" range, .001" graduation) dial indicator
BGD-SETNI	Model BG Direct with set of steel contacts less indicator
BGD-CASE	Fitted Storage Case













BG-2 Bench Gage

The BG-2 utilizes a right angle movement that offers substantial benefits. The indicator, in a protective housing, is mounted above the rest plate in a position that minimizes operator eye movement. The gaging mechanism is reversible, retractable, has a 3" range of measurement travel and .075" of gaging travel.

PART #	DESCRIPTION
BG2	Model BG with Part #112 steel pin contact and (.0005" graduation) dial indicator
BG2-NI	Model BG with Part #112 steel pin contact and less indicator
BG2-SET	Model BG with set of steel contacts (shown above) and (.0005" graduation) dial indicator
BG2-SETNI	Model BG with set of steel contacts less indicator
BGD-CASE	Fitted Storage Case





THE PRODUCTION COMPARATOR STAND

The Dorsey E-1 comparator stand is specially designed for use in production and shop areas. The comparator stand has a large base and 3" throat clearance to give the user maximum flexibility for measuring various size pieces. This product may be used with any of Dorsey's dial or digital indicators.



S2 COMPARATOR STAND (WITH FINE ADJUST)

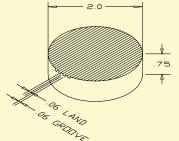
The S-2 precision comparator stand was designed for manufacturing areas requiring high accuracy such as grinding and inspection departments. It is recommended for use with all Dorsey high amplification dial and digital indicators, but will accommodate other gaging devices having a standard .375" or 8mm diameter mounting stem.

FEATURES:

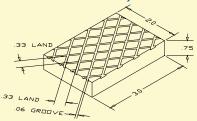
- Unique fine adjustment head Dorsey's frictionless reed spring design prevents backlash and drifting. Insures rapid, precise zero positioning of any dial indicator. Permits Dorsey high amplification dial indicators or other gaging instruments of equal sensitivity to perform to their full capability of measuring to millionths of an inch repetitively and accurately.
- Ground and chrome plated columns provide maximum wear and corrosion resistance.
- Precision machined and ground cast base insures perpendicularity of column to anvil.
- Anvils for the S2 and S2N are made from hardened and lapped high grade tool steel.

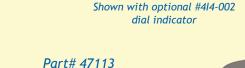
PART #	DESCRIPTION
47145	S2 STAND WITHOUT ANVIL
S2-HEAD	FINE ADJUSTMENT HEAD ONLY

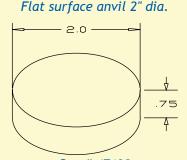
Part# 47141 Straight serrated surface anvil 2" dia.



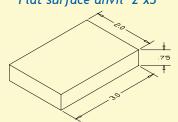
Part# 47139 Flat diamond serrated surface anvil 2"x3"

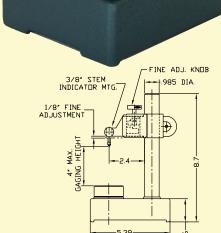






Part# 47138 Flat surface anvil 2"x3"



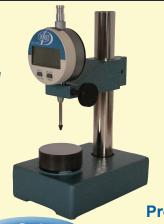


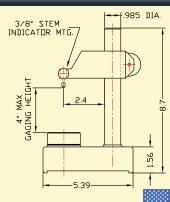
S2N COMPARATOR STAND (WITH STATIC HEAD)

The S2N production and shop area comparator stand is specifically designed without fine adjustment for use with digital indicators, long rang indicators and electronic probes with remote readouts. The S2N stand maximum gaging height is 4.0" inches and the throat clearance is 2.4".

PART #	DESCRIPTION	
47145N	S2N STAND WITHOUT ANVIL	
For Anvil options, please see above		

Shown with optional extended range digital indicator







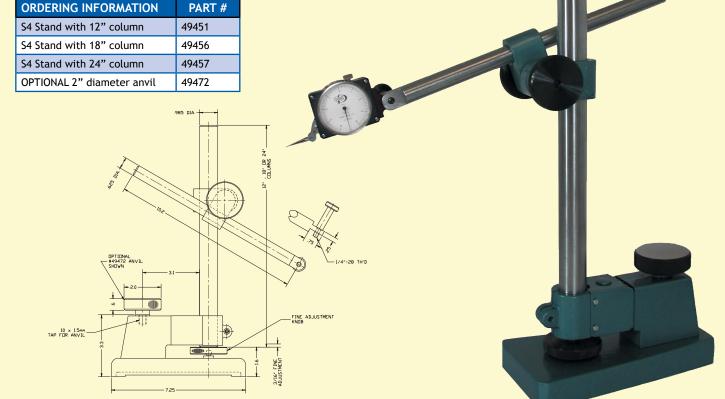


S4 COMPARATOR HEIGHT STAND

The Dorsey S4 height stand is designed for making comparative height measurements. It is designed primarily for transfer measurements on a surface plate but the optional anvil also permits its use as a conventional comparator stand. This stand will accommodate mechanical, electronic, digital or pneumatic probes with a standard mounting lug. The Model S4 stand can be adjusted vertically, horizontally and radially to adapt to any height gaging situation.

FEATURES:

- Fine adjustment base original frictionless reed spring mechanism assures "no tilt" vertical adjustment of the column.
- Wide fine adjustment range total .19" range permits more rapid gaging setup.
- Interchangeable columns sturdy chrome plated steel columns, 12", 18" and 24" are easily interchangeable in the field to meet various height measuring requirements.
- Triangular support three precision flats on base assure stability of gaging set up when transferring height measurements on surface plate.
- Positive clamping design split bushing clamping arrangement provides positive locking on cross arm assembly.
- Optional anvil provisions in base for field installation of optional hardened and lapped steel anvil increases versatility of the stand.



The Fine Adjustment Base

By rotating the adjustment wheel, the column is raised or lowered. Motion parallel to the longitudinal axis of the column is maintained by the reed-spring assembly. Downward pressure on the wheel is sustained by the coil spring preventing backlash and drift.



S3 COMPARATOR STAND

The S-3 precision comparator stand was designed for manufacturing areas requiring high accuracy, such as grinding and inspection departments. It is recommended for use with all Dorsey high amplification dial and digital indicators, but it will also accommodate other gaging devices having a standard .375" or 8mm diameter mounting stem.

The maximum gaging height is 8.5" as standard and the throat clearance is 3.13"

FEATURES:

Unique fine adjustment head - Dorsey's frictionless reed spring design prevents backlash and drifting. Insures rapid, precise zero positioning of any dial indicator. Permits Dorsey high amplification dial indicators or other gaging instruments of equal sensitivity to perform to their full capability of measuring to millionths of an inch repetitively and accurately.

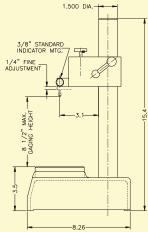
 Rugged construction - provides maximum gaging stability permitting measurements in millionths.

 Ground and chrome plated columns provide maximum wear and corrosion resistance.

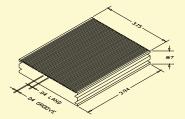
Precision machined cast base and anvil supports - insures perpendicularity of column to anvil.

Selection of hardened and lapped anvils - increases the capability of the stands to accommodate many part configurations.

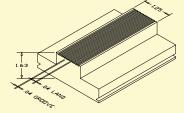
PART #	DESCRIPTION
47405	S3 STAND WITHOUT ANVIL
S3-HEAD	S3 FINE ADJUSTMENT HEAD ONLY



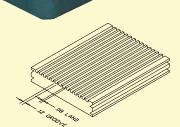
Hand Lapped Anvils:



Part# 47402
Thin serration and flat
reversible anvil



Part# 47403 Rail type anvil 1.25" x 3.88"



Shown with optional #414-002 indicator and cable release

Part# 47404 Wide serration and flat reversible anvil







BEARING RADIAL PLAY GAGE

The S-3 comparator stand anvil can be replaced with a radial play fixture and accessories to check the internal clearance of miniature bearings. Miniature bearing radial play fixture, part # 49388-3-01, capable of checking bearings ID range .040"-.870", OD range up to 1.0".

FEATURES:

- S-3 stand.
- Radial play attachment.
- Choice of standard anvil set which includes the carrier, anvil and clamp assembly.
- Special radial play contact.
- Variable pressure weight arm assembly adjustable from 6.5 to 16 oz., upward force.
- Dial indicator model # 414-002 (.00002 graduation) or #4101-0005mm (0.0005mm).

STANDARD ANVILS (CHOICE OF ONE WITH PURCHASE)			
Anvil Set No.	Bearing Bore Diameter		
49388-3-01	Gage with 1 Anvil		
493-SET	Gage with 9 Anvils		
49373	.0400"		
49374	.0469"		
49375	.0550"		
49376	.0781"		
49377	.0937"		
49378	.1250"		
49379	.1562"		
49380	.1875"		
49381	.2500"		
*INQUIRE ABOUT COMPLETE PACKAGE			

Additional arbor bearing sets are available for any size requirement. Please contact us for details.

INTERMEDIATE AND LARGE SIZE BEARINGS

Dorsey also offers fixtures to inspect radial play on large and intermediate sized bearings. Contact us for details.



COUNTERSINK & CHAMFER GAGES

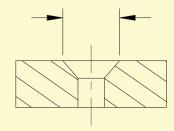


FEATURES:

- Hardened and ground steel plunger and rest plate.
- Masters on any flat surface, no special master required.
- The angle of the gage must be larger than the angle of the part to be inspected.
- Measures the top diameter directly on the dial indicator or digital indicator.
- 3 Blade contact insures accurate repeatable readings.
- .001"/0.02mm dial indicator, standard.
- Inch or metric dial or digital indicators available.
- Optional ring gage setting masters are available.

I.D COL	INTERSINK I	MODEL 0-90°		
RANGE	INCH PART#	RANGE	METRIC PART#	DIGITAL PART#
0-3/8"	DC-90-375	0-9.5MM	DC-90-375M	DC-90-375-E
0-1/2"	DC-90-500	0-12.7MM	DC-90-500M	DC-90-500-E
0-1"	DC-90-1000	0-25MM	DC-90-1000M	DC-90-1000-E
1-2"	DC-90-2000	25-50MM	DC-90-2000M	DC-90-2000-E
2-3"	DC-90-3000	50-75MM	DC-90-3000M	DC-90-3000-E
3-4"	DC-90-4000	75-100MM	DC-90-4000M	DC-90-4000-E
I.D COL	INTERSINK N	MODEL 90-12	7°	
I.D COL RANGE	INTERSINK <i>N</i> INCH PART#		7° METRIC PART#	DIGITAL PART#
				DIGITAL PART# DC-127-375-E
RANGE	INCH PART# DC-127-375	RANGE	METRIC PART#	- 1 - 1 - 1 - 1 - 1 - 1
RANGE 0-3/8"	INCH PART# DC-127-375 DC-127-500	RANGE 0-9.5MM	METRIC PART# DC-127-375M	DC-127-375-E
RANGE 0-3/8" 0-1/2"	INCH PART# DC-127-375 DC-127-500 DC-127-1000	RANGE 0-9.5MM 0-12.7MM	METRIC PART# DC-127-375M DC-127-500M	DC-127-375-E DC-127-500-E
RANGE 0-3/8" 0-1/2" 0-1"	INCH PART# DC-127-375 DC-127-500 DC-127-1000	RANGE 0-9.5MM 0-12.7MM 0-25MM	METRIC PART# DC-127-375M DC-127-500M DC-90-1000M	DC-127-375-E DC-127-500-E DC-127-1000E

I.D. gage measures this diameter



O.D. gage measures this diameter



O.D CHAMFER MODEL 0-90°					
RANGE	INCH PART#	RANGE	METRIC PART#	DIGITAL PART#	
1/8-1/2"	DO-90-500	3.2-12.7MM	DO-90-500M	DO-90-500-E	
3/16-1"	DO-90-1000	4.7-25MM	DO-90-1000M	DO-90-1000-E	
1-2"	DO-90-2000	25-50MM	DO-90-2000M	DO-90-2000-E	
O.DCHAMFER MODEL 90-127°					
RANGE	INCH PART#	RANGE	METRIC PART#	DIGITAL PART#	
1/8-1/2"	DO-127-500	3.2-12.7MM	DO-127-500M	DO-127-500-E	
3/16-1"	DO-127-1000	4.7-25MM	DO-127-1000M	DO-127-1000-E	
1-2"	DO-127-2000	25-50MM	DO-127-2000M	DO-127-2000-E	





SPECIAL APPLICATIONS



Dorsey Bore Gaging

Bore gages are comparative instruments designed to check hole diameter and condition. These bore gages use the principle of two point gaging and three point centralization. The gaging contacts are diametrically opposed which allows the most accurate reading of a bore. The reference contact is constructed to allow range extensions and adapters to be added to change the measuring size of the gage without loss of accuracy or balance.

During use, the gage is inserted on an angle for easy entry into the bore. The centralizer insures locating on the true diameter. The gage is "rocked" and the indicator is observed to find the lowest measurement to obtain a true diameter reading.

Dorsey offers a variety of reference masters from specific size master rings to Dorsey's corresponding family of adjustable bore gage setmasters.

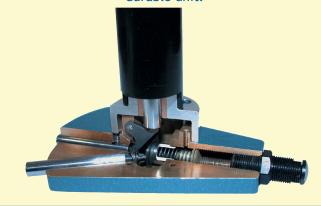
DBL Series Bore Gages

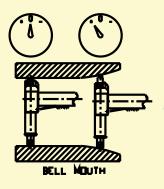
The independant dynamic centralizer secures two carbide balls on one easy to clean and compact unit.



Dorsey Standard Bore Gages

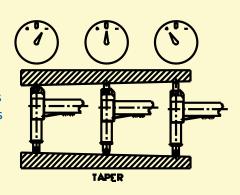
A single piece gaging head encloses both gaging pin centralizing pins in one rugged, compact and durable unit.

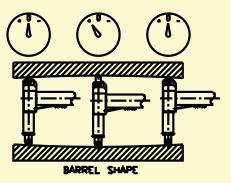


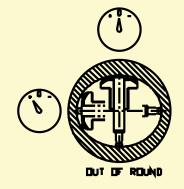


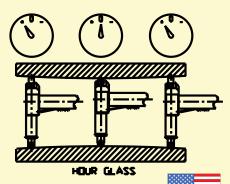
"Explore the Bore"

Illustrations on this page are typical of bore conditions that can be identified while using a two point bore gage with three point centralization. The exact dimensional variations of these and other objectionable part conditions are easily detected by the dial indicator reading. A .0001" movement of the gaging pin is instantly transferred to the dial appearing visually as approximately 1/16".









Proudly made in the USA



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DBL Series - Internal dial bore gages

DBL self centralizing bore gages are ideal for toolroom and production applications. Easy to use, easy to disassemble and easy to clean. Only 4 moving parts are used in this precision economical gage.



DBL Series - Internal dial bore gages

DBL bore gages are designed to be lightweight, versatile, accurate and are ideal for toolroom and production applications. The DBL series bore gages feature two point gaging and three point centralization. The gaging contacts are diametrically opposed providing the most accurate reading of the bore. The reference contact accepts various length range extensions and adapters to change the measuring size of the gage without the loss of accuracy or balance. The independent external centralizer with two fixed carbide ball locators align and self-center the gaging pin and reference contact during operation. The centralizer insures locating and reading the true diameter.



models and digital indicators.

DBL Series - internal dial bore gages

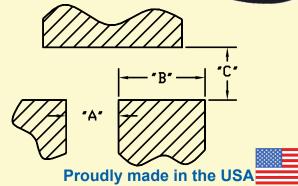
	RANGE	OVERALL LENGTH	"A" GAGING DEPTH	"G" DIMENSION		CONTACT VEL	
MODEL	(inches)	(inches)	(inches)	(inches)	STANDARD	OPTIONAL	DIAL /INDICATOR
DBL-248-S	.248501	6.31	2.25	.140	.010"	.016"	
DBL-248-C	.248501	6.31	2.25	.140	.010"	.016	
DBL-499-S	.499-1.001	9.75	3.00	.188	.016"	.022"	
DBL-499-C	.499-1.001	9.75	3.00	.188	.016"	.022"	OVERAL
DBL-998-S	.998-1.501	9.75	3.00	.188	0.25"	.050"	LENGTH
DBL-998-C	.998-1.501	9.75	3.00	.188	0.25"	.050"	1 ""
DBL-1499-S	1.499-3.00	10.75	4.00	.188	.025"	.050"	
DBL-1499-C	1.499-3.00	10.75	4.00	.188	.025"	.050"	
DBL-300-S	3.00-6.00	11.75	5.00	.250	.025"	.070"	
DBL-300-C	3.00-6.00	11.75	5.00	.250	.025"	.070"	GAGING
SPECIAL RANGE MODELS) CONTACT	
DBL-365-S	.365620	6.31	2.25	.140	.010"	.016"	F"G"
DBL-620-S	.620-1.001	9.75	3.00	.188	.016"	.022"	ADJUSTABLE
DBL-200-S	2.00-4.00	10.75	4.00	.188	.025"	.050"	RANGE CENTRALIZER EXTENSION ∕CONTACT
DBL-400-S	4.00-10.00	11.75	5.00	.250	.025"	.070	
Note: For optional gaging contact travel add -GC to part #. For gage less indicator, add -NI to part #. Special gaging depths available per application.					RANGE—		

DBL Offset Bore Gaging

This type of gaging is used during machining or jig grinding operations to avoid disturbing machine tool setup. Also used to avoid obstructions in measurement area. Price includes fitted storage case.



ORDERING INFORMATION					
		INCHES			
MODEL		DIAMETER "A"	"B"	"C"	
2-OS	DBL-499-OSS	.5"-1"	3"	1.56"	
	DBL-499-OSC	.5"-1"	3"	1.56"	
3-OS	DBL-998-OSS	1"-1.5"	5"	2.00"	
	DBL-998-OSC	1"-1.5"	5"	2.00"	
4-OS	DBL-1499-OSS	1.5"-3"	5"	2.00"	
	DBL-1499-OSC	1.5"-3"	5"	2.00"	



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-S - Steel, -C - Carbide

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Dorsey Standard Bore Gages

A TIME PROVEN DESIGN MADE BETTER BY DORSEY

This design of rugged production line bore gages has been an industry standard for more than 75 years. Dorsey offers precise replacement models built to the same exacting specifications but, with a choice of any of Dorsey's "High Amplification", "Traditional" or digital indicators. We continue to provide the original Standard Gage Company® customers with high quality interchangeable parts. We also build bore gages with modifications, special gages and new models to meet their current and future needs.



Dorsey Standard Bore Gages

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Dorsey Standard Large Bore Gages

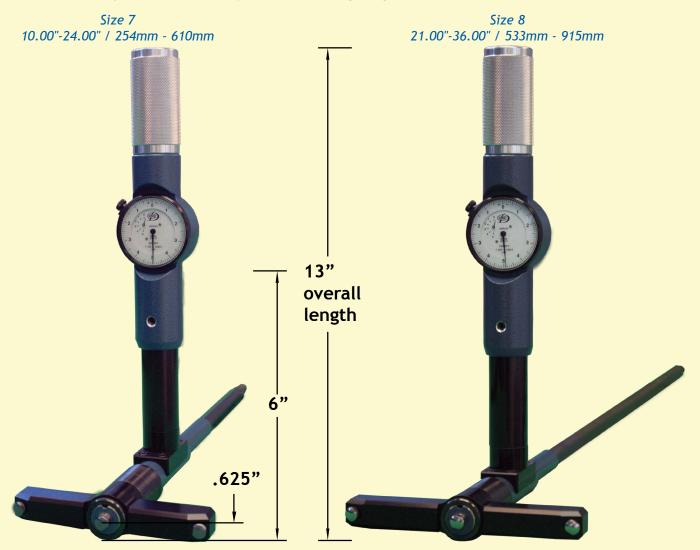
A TIME PROVEN DESIGN EXPANDED TO MEASURE LARGE BORE SIZES

Style 1- Both models utilize the same robust 1" heavy duty dial unit housing with a choice of various resolutions and spindle travel in both inch or metric readings (see catalog pages A-10 - A-11).

*Both the #7 and #8 bore gages measure .625" from the bottom of a blind bore.

*The standard gaging depth is 6" but can be supplied with depth extensions to 144".

*Besides these large bore gages, we also offer two companion bore gage setting masters that are set to size with gage block combinations. Setmaster # DBM-12000 (12"-24") and # DBM-24000 (20" to 36") are adjustable, more convenient to handle and less expensive than a library of traditional large rings.



OPTIONAL: BORE GAGE DEPTH EXTENSIONS

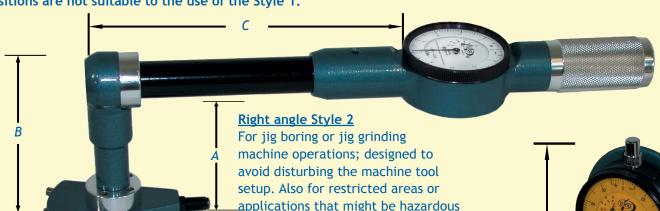
4" DEPTH EXTENSION	12" DEPTH EXTENSION	36" DEPTH EXTENSION
5" DEPTH EXTENSION	14" DEPTH EXTENSION	Other Lengths Available
6" DEPTH EXTENSION	16" DEPTH EXTENSION	37-72"
8" DEPTH EXTENSION	24" DEPTH EXTENSION	72-144"
10" DEPTH EXTENSION	30" DEPTH EXTENSION	





Dorsey Standard Bore Gages

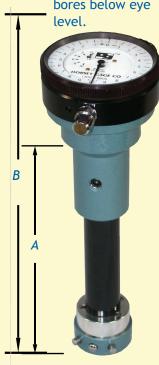
There are 5 optional styles that are designed especially for applications where space restrictions or gaging positions are not suitable to the use of the Style 1.



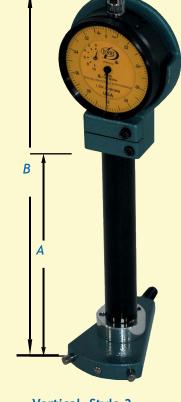
to the operators hand.

Perpendicular Style 4

For vertical axis bores below eye







Vertical, Style 3 For vertical axis bores at eye level; best choice for bench inspection applications.

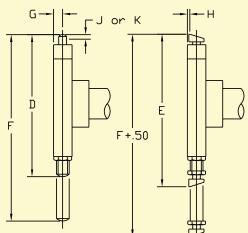




Dorsey Standard Bore Gages

		STAN	DARD ! 1	STYLE	RIGH	IT ANG	LE STYI	_E 2	VERT	ICAL S	TYLE		PENDICU STYLE 4		PISTOL GRIP STYLE 5			FLUSH STYLE 7
G	AGE	Į.	1	В	A	1	В	С	ı	A	В	ı	4	В	1	4	В	В
S	IZE	STD	MIN		STD	MIN			STD	MIN		STD	MIN		STD	MIN		
	2	5.00"	2.31"	8.12"	2.53"	2.35"	3.88"	6.25"	6.0"	2.31"	8.75"	6.0"	2.31"	8.13"	1.63"	1.63"	5.75"	-
	3	5.00"	2.63"	10.50"	2.53"	2.35"	3.88"	6.25"	6.0"	2.63"	9.0"	6.0"	2.63"	8.13"	1.63"	1.63"	5.75"	-
	4	5.00"	2.63"	10.50"	2.53"	2.35"	3.88"	6.25"	6.0"	2.63"	9.00"	6.0"	2.63"	8.13"	1.63"	1.63"	5.75"	-
	5	6.00"	2.63"	11.50"	2.53"	2.35"	3.83"	6.25"	6.0"	2.63"	9.00"	6.0"	2.63"	8.13"	1.63"	1.63"	5.75"	-
	6	6.00"	2.63"	12.00"	2.50"	2.50"	4.44"	6.69"	6.0"	5.50"	9.44"	6.0"	4.00"	8.13"	3.00"	3.00"	9.38"	1.50"

Note: Additional range ext. up to 20" available for #6



GAGE-HEAD DIMENSIONS (ALL STYLES)

		D		Ε	F	G	Н	٦	K	RANGE
SIZE	MIN	MAX	MIN	MAX						EXTENSION ADAPTER PART #
2	1.00"	1.53"	1.19"	1.69"	1.75"	.195"	.140"	.025"	.050"	DS-B0-85929
3	1.5"	2.16"	1.69"	2.56"	3.13"	.224"	.156"	.025"	.050"	DS-B0-85934
4	2.12"	3.13"	2.56"	3.56"	4.00"	.224"	.032"	.025"	.075"	DS-B0-85942
5	3.09"	6.13"	3.50"	6.44"	8.00"	.224"	.032"	.025"	.075"	DS-B0-85952
6	6.00"	12.13"	6.44"	12.63"	20"	.312"	.032"	.030"	.100"	DS-B0-85967

- D = Standard gaging range
- E = Gaging range with optional offset contacts
- F = Maximum gaging range with extension adapters
- G = Standard center line
- H = Offset center line modification add -H to part #
- J = Standard gaging plunger travel
- K = Optional extended plunger travel add -K to part #

Bore Gage Extension Housing #3, 4 & 5

EVTENCI						
EXTENSIO	ON HOUSING ASSEMBLY					
PART #	DESCRIPTION					
DX2-8100503	3" "A" LENGTH EXTENSION					
DX2-8100504	4" "A" LENGTH EXTENSION					
DX2-8100505	5" "A" LENGTH EXTENSION					
DX2-8100506	6" "A" LENGTH EXTENSION					
DX2-8100508	8" "A" LENGTH EXTENSION					
DX2-8100510	10" "A" LENGTH EXTENSION					
DX2-8100512	12" "A" LENGTH EXTENSION					
DX2-8100514	14" "A" LENGTH EXTENSION					
DX2-8100516	16" "A" LENGTH EXTENSION					
DX2-8100518	18" "A" LENGTH EXTENSION					
DX2-8100524	24" "A" LENGTH EXTENSION					
DX2-8100530	30" "A" LENGTH EXTENSION					
DX2-8100536	36" "A" LENGTH EXTENSION					
Othe	er Lengths Available					
	37-71"					
72-144"						

CONTACT MATERIALS

Steel (Standard), tungsten carbide, or diamond are supplied in the

following quantities unless otherwise specified

Size 2, 3, 4, or 5

1 gaging plunger

2 centralizing plungers (diamond not available)

1 interchangeable reference contact

Size 6

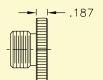
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4 interchangeable contacts

Note: Materials may be specified intermixed

BORE GAGE DUST CAP:

- Replaces standard handle.
- Minimize overall length ("B" dimension).



SIZE	REDUCES "B" DIM. BY	PART #
2-6	2.06"	DS-BO-84725
6 Heavy Duty	2.81"	DS-BO-84731

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Dorsey Metrology InternationalWebsite: www.dorseymetrology.com



DIAL BORE GAGE COMBINATION KIT

Models 2,3,4,5

FEATURES:

Industry's most popular dial bore gage now available in an easy-to-use combination kit.

Standard with jeweled shock proof indicator movement.

Available with a wide variety of indicators including .00005" or 0.001mm.

Replaces separate dial bore gages covering the same ranges as models # 2, 3, 4, and 5.

Considerable cost savings.

Convenient carrying case.

Ideal for small shops or short production runs.

Interchangeable gage heads and range extensions to cover diameters. from 1.000" to 8.000" or 25mm to 200mm.

PART #	DESCRIPTION
DS-B1-K2345	WITH .0001" GRAD DIAL INDICATOR
DS-B1-K2345M	WITH 0.002mm GRAD DIAL INDICATOR



EXTRA LENGTH BORE GAGE EXTENSIONS:

■ Bore gage extension housings with gaging depths up to 36" are normally manufactured from stainless steel tubing. See the price list for ordering data for each model.

Bore gages with extra length extensions beyond 36" are available in other material options. Most long bore gages are normally produced from stainless steel tubing up to 72" depths. Traditionally, beyond this length, the #4, #5 and #6 bore gages are constructed using segmented steel tubing. All extra length bore gage tubing may also be provided with carbon fiber extensions that are lighter weight, more thermally stable and structurally stronger.

Maximum Recommender Gaging Depths

GAGE SIZE	INCH DEPTH
SIZE #2	60" maximum
SIZE #3	72" maximum
SIZE #4	96" maximum

Dorsey Metrology International

Website: www.dorseymetrology.com

GAGE SIZE	INCH DEPTH
SIZE #5	144" maximum
SIZE #6	144" maximum

#6 Dorsey/Standard bore gage with 5' steel extension housing. The Weight is 7¾ lbs/3.52kg (less range extensions).



#6 Dorsey/Standard bore gage with 4' carbon fiber extension housing. The weight is 4 lbs/1.8kg (less range extensions).



#4 Dorsey/Standard bore gage with 4' carbon fiber extension housing. The weight is 2½ lbs/1.13kg (less range extensions).



Dorsey Standard Bore Gages

DS- B1- 1 2 1 0 4 -12
Style Indicator Contacts Indicator Gage Size A Length

			dicator Contacts		age Size A Length
	INDICATOR	HIGH AMPLIFICATION		TRADITIONAL	TRADITIONAL
GAGE SIZE	GRADUATION	INDICATOR	PART NUMBER	INDICATOR	PART NUMBER
	.00005"5	DS-2I4-005	DS-B1-10102		
	.0001" ^S	DS-219-01	DS-B1-11102		
	.0001"	DS-2I50-01	DS-B1-12102	DS-2DM025-01	DS-B2-12102
	.00025"	DS-2I1000-025	DS-B1-10112	D3 ZDMOZ3 01	D3 D2 12102
	.0005"5	DS-2140-05	DS-B1-13102		
1.00 - 1.53"	.0005"	DS-2I100-05	DS-B1-14102	DS-2DM050-05	DS-B2-14102
2	NONE	LESS INDICATING UNIT	DS-B1-15102	D3 2DM030 03	D3 D2 14102
	0.010mm ^s	DS-2I10-01mm	DS-B1-16102	DS-2DM5-01mm	DS-B2-16102
25.4 - 38.9mm	0.005mm	DS-2I25-005mm	DS-B1-17102	DS-2DM012-005mm	DS-B2-17102
	0.002mm	DS-2I10-002mm	DS-B1-18102	DS-2DM005-002mm	DS-B2-18102
	0.002mm ^s	DS-2102-002mm	DS-B1-19102	D3 ZDMO03 GGZIIIII	D3 D2 10102
	0.001mm ^s	DS-2I01-001mm	DS-B1-10122		
	.0001" / .002mm ^s	S21.M	DS-B1-12102M		
	.00005" / 0.001mm	DIGITAL	DS-B5-10102		
	.00005"5	DS-214-005	DS-B1-10103		
	.0001"5	DS-2I9-01	DS-B1-10103 DS-B1-11103		
	.0001"	DS-2I50-01	DS-B1-12103	DS-2DM025-01	DS-B2-12103
	.00025"	DS-2I1000-025	DS-B1-12103 DS-B1-10113	D3-2DM023-01	D3-B2-12103
	.00023	DS-2140-05	DS-B1-13103		
	.0005"	DS-2I100-05	DS-B1-14103	DS-2DM050-05	DS-B2-14103
1.50 - 2.16"	NONE	D3 21100 03	DS-B1-15103	D3 2DM030 03	D3 B2 14103
3	0.010mm ^s	DS-2I10-01mm	DS-B1-16103	DS-2DM5-01mm	DS-B2-16103
38.1 - 54.8mm	0.005mm	DS-2125-005mm	DS-B1-10103	DS-2DM012-005mm	DS-B2-17103
	0.002mm	DS-2I10-002mm	DS-B1-18103	DS-2DM005-002mm	DS-B2-18103
	0.002mm ^s	DS-2102-002mm	DS-B1-19103	D3-ZDM003-00ZIIIII	D3-B2-10103
	0.001mm ^s	DS-2I01-001mm	DS-B1-10123		
	.0001" / .002mm ^s	S21.M	DS-B1-12103M		
	.00005" / 0.001mm	DIGITAL	DS-B5-10103		
	.00005"5	DS-214-005	DS-B1-10104		
	.0001"5	DS-219-01	DS-B1-11104		
	.0001"	DS-2I50-01	DS-B1-12104	DS-2DM025-01	DS-B2-12104
	.00025"	DS-2I1000-025	DS-B1-10114	D3 ZDMOZ3 01	D3 B2 12104
	.0005"5	DS-2140-05	DS-B1-13104		
	.0005"	DS-2I100-05	DS-B1-14104	DS-2DM050-05	DS-B2-14104
2.12 - 3.13"	NONE	D3 21100 03	DS-B1-15104	D3 2DM030 03	D3 D2 14104
4	0.010mm ^s	DS-2I10-01mm	DS-B1-16104	DS-2DM5-01mm	DS-B2-16104
54.0 - 79.5mm	0.005mm	DS-2125-005mm	DS-B1-17104	DS-2DM012-005mm	DS-B2-17104
	0.002mm	DS-2I02-002mm	DS-B1-18104	DS-2DM005-002mm	DS-B2-18104
	0.002mm ^s	DS-2I02-002mm	DS-B1-19104	20 25/11000 002/11111	20 22 10101
	0.001mm ^s	DS-2I10-001mm	DS-B1-10124		
	.0001" / .002mms	S2I.M	DS-B1-12104M		
	.00005" / 0.001mm	DIGITAL	DS-B5-10104		
	.00005"5	DS-214-005	DS-B1-10105		
	.0001"5	DS-219-01	DS-B1-11105		
	.0001"	DS-2I50-01	DS-B1-12105	DS-2DM025-01	DS-B2-12105
	.00025"	DS-2 1000-025	DS-B1-10115		23 22 .2100
	.0005"5	DS-2140-05	DS-B1-13105		
2.02	.0005"	DS-2I100-05	DS-B1-14105	DS-2DM050-05	DS-B2-14105
3.09 - 6.13"	NONE		DS-B1-15105		
5	0.010mm ^s	DS-2I10-01mm	DS-B1-16105	DS-2DM5-01mm	DS-B2-16105
78.5- 156mm	0.005mm	DS-2I25-005mm	DS-B1-17105	DS-2DM012-005mm	DS-B2-17105
	0.002mm	DS-2102-002mm	DS-B1-18105	DS-2DM0005-002mm	DS-B2-18105
	0.002mm ^s	DS-2102-002mm	DS-B1-19105		25 22 10103
	0.001mm ^s	DS-2I10-001mm	DS-B1-10125		
	.0001" / .002mm ^s	S21.M	DS-B1-12105M		
	.0001" / 0.001mm	DIGITAL	DS-B5-10105		
			22 23 10103	Droudly	made in the US



Dorsey Standard Large Bore Gages

DS-	B1-	1	2	1	0	4	-12
		Style	Indicator	Contacts	Indicator	Gage Size	A Length

	INDICATOR	HIGH AMPLIFICATION		TRADITIONAL	TRADITIONAL
GAGE SIZE	GRADUATION	INDICATOR	PART NUMBER	INDICATOR	PART NUMBER
	.00005" ^S	DS-214-005	DS-B1-10106		
	.0001" ^S	DS-219-01	DS-B1-11106		
	.0001"	DS-2I50-01	DS-B1-12106	DS-2DM025-01	DS-B2-12106
	.00025"	DS-2I1000-025	DS-B1-10116		
	.0005" ^S	DS-2140-05	DS-B1-13106		
6.00 - 12.13"	.0005"	DS-2I100-05	DS-B1-14106	DS-2DM050-05	DS-B2-14106
6	NONE		DS-B1-15106		
_	0.010mm ^s	DS-2I10-01mm	DS-B1-16106	DS-2DM5-01mm	DS-B2-16106
152.5 - 308.0mm	0.005mm	DS-2I25-005mm	DS-B1-17106	DS-2DM012-005mm	DS-B2-17106
	0.002mm	DS-2I10-002mm	DS-B1-18106	DS-2DM0005-002mm	DS-B2-18106
	0.002mm ^s	DS-2I02-002mm	DS-B1-19106		
	0.001mm ^s	DS-2I01-001mm	DS-B1-10126		
	.0001" / .00005"5	S21.M	DS-B1-12106M		
	.00005" / 0.001mm	DIGITAL	DS-B5-10106		Т
	.00005"	DS-214-005	DS-B1-10107		
	.0001"	DS-219-01	DS-B1-11107		
	.0001"	DS-2I50-01	DS-B1-12107	DS-2DM025-01	DS-B2-12107
	.00025"	DS-2I1000-025	DS-B1-10117		
	.0005"	DS-2140-05	DS-B1-13107		
10.00 - 24.00"	.0005"	DS-2I100-05	DS-B1-14107	DS-2DM050-05	DS-B2-14107
7	NONE	LESS INDICATING UNIT	DS-B1-15107		
254 - 610mm	0.010mm	DS-2I10-01mm	DS-B1-16107	DS-2DM5-01mm	DS-B2-16107
254 - 610111111	0.005mm	DS-2I25-005mm	DS-B1-17107	DS-2DM012-005mm	DS-B2-17107
	0.002mm	DS-2I10-002mm	DS-B1-18107	DS-2DM005-002mm	DS-B2-18107
	0.002mm	DS-2I02-002mm	DS-B1-19107		
	0.001mm	DS-2I01-001mm	DS-B1-10127		
	.0001" / .002mm	S21.M	DS-B1-12107M		
	.00005" / 0.001mm	DIGITAL	DS-B5-10107		
	.00005"	DS-214-005	DS-B1-10108		
	.0001"	DS-2I9-01	DS-B1-11108		
	.0001"	DS-2I50-01	DS-B1-12108	DS-2DM025-01	DS-B2-12108
	.00025"	DS-2I1000-025	DS-B1-10118		
	.0005"	DS-2140-05	DS-B1-13108		
21.00 - 36.00"	.0005"	DS-2I100-05	DS-B1-14108	DS-2DM050-05	DS-B2-14108
8	NONE		DS-B1-15108		
_	0.010mm	DS-2I10-01mm	DS-B1-16108	DS-2DM5-01mm	DS-B2-16108
533 - 915mm	0.005mm	DS-2I25-005mm	DS-B1-17108	DS-2DM012-005mm	DS-B2-17108
	0.002mm	DS-2I10-002mm	DS-B1-18108	DS-2DM005-002mm	DS-B2-18108
	0.002mm	DS-2I02-002mm	DS-B1-19108		
	0.001mm	DS-2I01-001mm	DS-B1-10128		
	.0001" / .002mm	S2I.M	DS-B1-12108M		
	.00005" / 0.001mm	DIGITAL	DS-B5-10108		

WOOD STORAGE BOX



PART #	GAGE SIZE
DX2-89952	2
DX2-89953	3
DX2-89954	4
DX2-89955	5
DX2-89956	6
DX2-89927	COMBINATION KIT

DS Series bore gages are shipped in disposable shipping containers. To order a fitted wooden storage box see the chart.

FEATURES:

- Additional range ext up to 36".
 See Pricelist.
- All models come with steel contacts but carbide and diamond contacts are also available.

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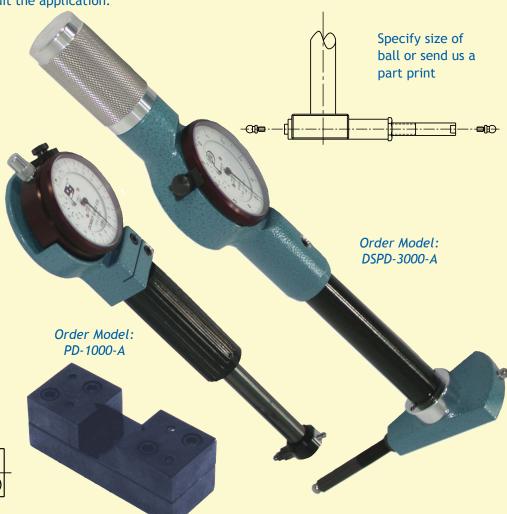
C- 12

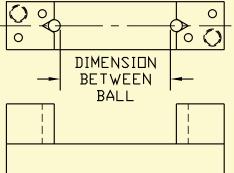
INTERNAL PITCH DIAMETER BORE GAGE

The Internal Pitch Diameter gage is ideally suited to check the internal pitch diameter of gears and splines. It can also be used to check any internal dimension where centralization is not necessary. Production models are available for a specific "best wire size" dimension. Models over 1.25" are supplied with interchangeable screw-in contacts. Special Fixed "V" masters are available to suit the application.

FEATURES:

- Carbide ball contacts (best wire size).
- Interchangeable screw in contacts.
- Can be used to check
 PD or major root diameter
 of gears and splines.
- Optional fitted storage case available.





"V" Style pitch diameter setmaster, built per application

	INTERCHANGEABLE CARBIDE CONTACTS			
PART #	DIAMETER			
.1250"	4081-125B			
.1875"	4082-187B			
.2500"	4082-250B			
SPECIALS QUOTED PER APPLICATION				

PART #	CONTACT TYPE	GAGING DEPTH (INCHES)	BOTTOM OF HEAD TO CENTERLINE OF CONTACT	FRAME STYLE	BETWEEN BALL/ROLL DIMENSION	STORAGE BOX PART #
PD-500	FIXED	3"	.188"	DBL-499	.50" - 1.25"	9000
DSPD-1000-A	INTERCHANGEABLE	5"	.224"	DS # 3	1.25" - 3.00"	DX2-89953
PD-1000-A	INTERCHANGEABLE	4"	.188"	DBL-998	1.25" - 3.00"	9000
DSPD-3000-A	INTERCHANGEABLE	6"	.224"	DS # 5	3.0" - 6.0"	DX2-89955
PD-3000-A	INTERCHANGEABLE	5"	.250"	DBL-300	3.0" - 6.0"	9005
DSPD-6000-A	INTERCHANGEABLE	6"	.312"	DS # 6	6.0" - 13.0"	DX2-89956

^{*} Indicator sold separately, see section A

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Dorsey Metrology InternationalWebsite: www.dorseymetrology.com

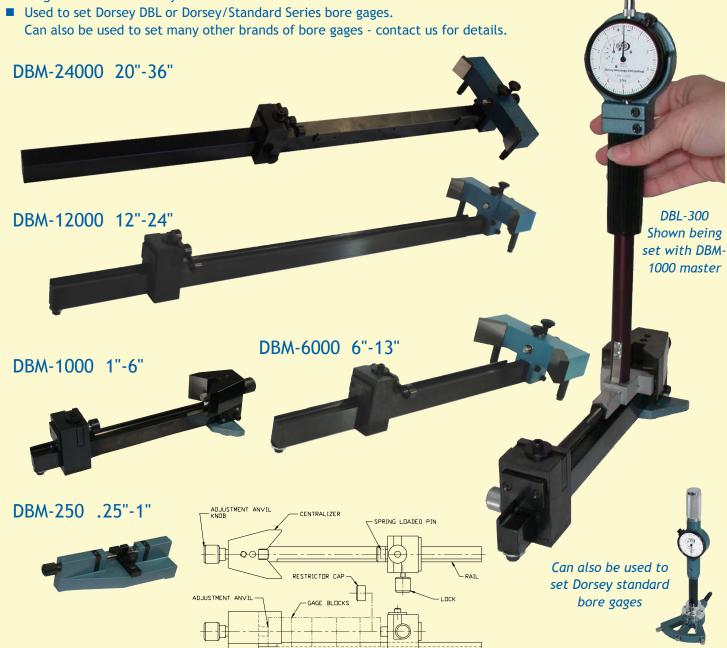


Adjustable Bore Gage Setmasters

Bore gages are comparative instruments. Used to compare parts being manufactured to known dimensions. "Setting" the bore gage to a known dimension requires the use of a reference master. The master ring is the most common type reference master used in industry and each ring is limited to one specific hole size. This means that a master ring inventory can reflect a large investment. Dorsey's adjustable bore gage setmasters maintain all the advantages of master rings, but provide the added feature of adjustability. Within the specified capacity of each Dorsey "Setmaster", any dimension can be set by easily adjusting the master to a preset combination of gage blocks.

FEATURES:

- Only five setmasters are required to cover a range between .25" and 36".
- Mastering cycle repeatability within .000050".
- Setting cycle repeatability within +/- .00010".
- Ring correlation accuracy within +/- .00010".



C- 14

I.D. INDICATING PLUG GAGE

Dorsey's indicating plug gages are used for repetitive bore measurement applications where extreme accuracy is important. These high accuracy gages often take the place of air or electronic bore gages.

FEATURES:

 Self centering plug head eliminates operator influence for extremely accurate applications.

Non tipping design offers fast / simple accurate results.

Carbide contacts are housed and protected by a dedicated hardened steel sleeve which is ground approximately .001" smaller than the lower limit of the bore being inspected.

 Single dial unit housing can be used with interchangeable plug heads.

Plug heads: choice of 3 "H" dimensions allows measurement of thru bores, blind holes or super blind holes.

HOW TO ORDER:

Part# DX4-81037 Digital indicator housing (indicator not included)

4) Select an indicating device (see pages A-10 A-14)

2) Determine if extension is required

1) Select measurement head size, specify check diameter and min/max bore sizes

3) **SUPER BLIND THRU BORES BORES PLUG HEAD DIAMETER** H=.400" **BLIND BORES** H=.039" **HEAD PART INCHES** мм HEAD **HEAD** H DIM # .098 - .117 2.5 - 2.9 N/A D240-035 1.5mm N/A .118 - .157 3.0 - 4.0 D240-400 D240-040 D240-500 1.5mm .158 - .236 4.1 - 6.0 D240-405 D240-050 1.8mm D240-505 .237 - .472 6.1 - 12.0 D240-410 D240-052 2.5mm D240-510 D240-055 D240-515 .473 - .787 12.1 - 20.0 D240-415 2.5mm .788 - 1.181 20.1 - 30.0 D240-420 D240-060 2.5mm D240-520 1.182 - 1.574 30.1 - 40.0 D240-425 D240-065 D240-525 3.5mm 1.575 - 2.362 40.1 - 60.0 D240-430 D240-070 3.5mm D240-530 2.363 - 3.150 60.1 - 80.0 D240-435 D240-075 4.0mm D240-535 80.1 - 100.0 D240-440 D240-080 D240-540 3.151 - 3.397 4.0mm 3.398 - 4.331 100.1 - 110.0 D240-445 D240-085 4.0mm D240-545 4.332 - 4.724 110.1 - 120.0 D240-450 D240-090 4.0mm D240-550 4.725 - 5.118 120.1 - 130.0 D240-455 D240-095 4.0mm D240-555 130.1 - 140.0 D240-100 D240-560 5.119 - 5.512 D240-460 4.0mm 140.1 - 150.0 D240-105 D240-565 5.513 - 5.906 D240-465 4.0mm 5.907 - 6.299 150.1 - 160.0 D240-470 D240-110 4.0mm D240-570 6.300 - 6.693 160.1 - 170.0 D240-475 D240-115 4.0mm D240-575 6.694 - 7.087 170.1 - 180.0 D240-480 D240-120 D240-580 4.0mm 7.088 - 7.480 180.1 - 190.0 D240-485 D240-125 D240-585 4.0mm 7.481 - 7.874 190.1 - 200.0 D240-490 D240-130 4.0mm D240-590

DEPTH STOP				
PART #		DESCRIPTION		
-DS3	FOR PLUG OD LESS THAN 3.151"/80mm			
-DS6	FOR PLUG OD LESS THAN 3.142 /80.1			
	TO 6.299"/160mm			
-DS9	FOR PLUG OD LESS THAN 6.300"/160.1 TO 9.00"/230mm			
WOODEN STORAGE BOX		D240B-3 up to 3" diameter		
		D240B-6 up to 6" diameter		

200.1 - 230.0

DEPTH EXTENSIONS FOR USE ON HEADS WITH DIAMETERS GREATER THAN .49" (12.5mm)			
PART #	DESCRIPTION		
D240-309	3.9" (100mm) X .47" (12mm) DIAMETER		
D240-310	9.8" (250mm) X .47" (12mm) DIAMETER		
D240-311	19.7" (500mm) X .47" (12mm) DIAMETER		
D240-312	29.5" (750mm) X .47" (12mm) DIAMETER		
D240-313	40" (1000mm) X .47" (12mm) DIAMETER		

N/A

Select adapter # for dial unit housing "h" DIM.

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PLUG HEAD LENGTH



7.875 - 9.000

PART# 1199

D240-315

C-15

D240-616

Plug head adapter, (to 5/8 dial unit housing)
Chrome plated plug head add -C to Par#
For Depth stop, add -DS to end of Part#

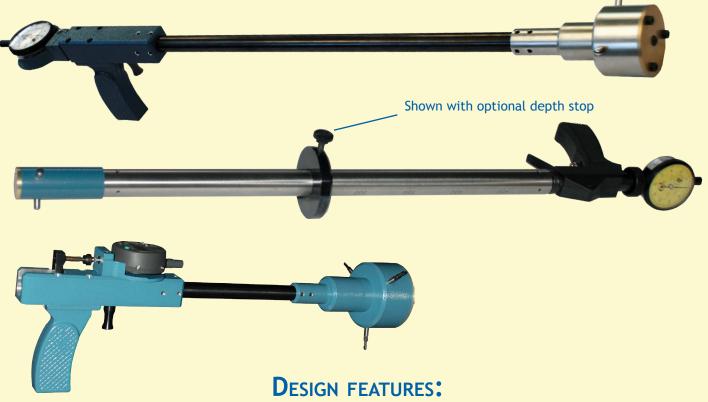
Right angle attachment w/.040" (1mm) Travel

D240-617

4.0mm

RLBG SERIES - RETRACTABLE BORE GAGE

The RLBG Series retractable bore gages are designed per application. They are primarily used to check deep holes where long retraction is required. Recess diameters and grooves can be checked for size, taper or out of roundness. Trigger action retracts and expands contacts. The gage has a fast, smooth and uniform gaging pressure over its entire range.



- Cast aluminum or lightweight composite pistol grip housing.
- Gage can be designed to retract into or away from the indicator.
- Fixed or interchangeable contacts.
- Depth stop or scale-on-shaft facilitates checking at a specific depth.
- Single piece or multiple screw together gaging shafts.
- 2 or 3 point measurement.

RETRACTABLE BORE GAGE APPLICATIONS

Groove measurement

Precise groove measurements can be made easily and accurately.



The RLBG can be configured to quickly and accurately check ball races and spherical grooves.





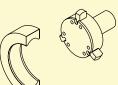


Spherical or irregular shape measurement

Spherical shaped contacts can be useful in deep bores where holding the bore gage straight in the bore is difficult. Depth stops are also very helpful in the alignment of bore gages.



Spline or gear measurement of pitch diameter or major diameter is available













INDICATING DISC GAGE

Indicating disc gages are used to measure I.D.s or O.D.s around shafts and other obstructions such as grooves, stepped areas or boss type obstacles in the shaft area or any other configuration that prevents the use of a standard snap, bore or straight frame shallow diameter gages. Indicating disc gages feature the principle of two point measurement and fixed centralizing locators. Most disc gages are made for a specific size or can be used with 1/4" adjustment contacts to span a variety of sizes.







FEATURES:

- Two point measurement.
- Fixed centralizing locators.
- .025" gaging contact travel.
- .250" of OD adjustment on adjustable models.
- Can be used with digital or dial indicator or LVDT probe.
- Available in right angle or perpendicular designs to clear obstructions see page C-8.
- Standard 2 point contact or optional 3 point contact.

PART #	WITHIN DIAMETER RANGE (INCHES)	PART #	WITHIN DIAMETER RANGE (INCHES)
IDG-25	025	IDG-475	4.50 -4.75
IDG-50	.2550	IDG-500	4.75 - 5.00
IDG-75	.5075	IDG-525	5.00 - 5.25
IDG-100	.75 - 1.00	IDG-550	5.25 - 5.50
IDG-125	1.00 - 1.25	IDG-575	5.50 - 5.75
IDG-150	1.25 - 1.50	IDG-600	5.75 - 6.00
IDG-175	1.50 - 1.75	IDG-625	6.00 - 6.25
IDG-200	1.75 - 2.00	IDG-650	6.25 - 6.50
IDG-225	2.00 - 2.25	IDG-675	6.50 - 6.75
IDG-250	2.25 - 2.50	IDG-700	6.75 - 7.00
IDG-275	2.50 - 2.75	IDG-725	7.00 - 7.25
IDG-300	2.75 - 3.00	IDG-750	7.25 - 7.50
IDG-325	3.00 - 3.25	IDG-775	7.50 - 7.75
IDG-350	3.25 - 3.50	IDG-800	7.75 - 8.00
IDG-375	3.50 - 3.75	IDG-825	8.00 - 8.25
IDG-400	3.75 - 4.00	IDG-850	8.25 - 8.50
IDG-425	4.00 - 4.25	IDG-875	8.50 - 8.75
IDG-450	4.25 - 4.50	FIDG-XXX	For fixed (special) model, add F as prefix
		IDG3-XXX	For 3 point contact of interupted

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Website: www.dorseymetrology.com

diameters

DYS GROOVE GAGE

Dorsey's Dynamike Model DYS groove gage combines a light weight, compact rigid cast frame and a patented ball bushing slide with a series of interchangeable gaging arms to suit virtually any application.

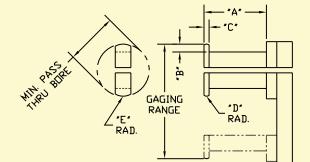
FEATURES:

- .25" (6mm) of gaging travel / retraction.
- .25" to .75"(6mm-19mm) diameter range.
- 1.25" (32mm) long precision ground adjustment rail.
- Can accomodate dial or digital indicator.
- Retraction pulls away from indicator.



Gage shown is DYS with special metric indicator, part# 2305 arms and part # 18967 bench stand





The DYS Groove Gage is supplied per model # below with DYS Groove Gage body, model # 1DM125-05 dial indicator, .0005" graduation and the appropriate contact arm set for the range noted below:

PART #	RANGE	MIN / BORE	ТҮРЕ	"A" Dim.	"B" Dim.	"C" Dim.	CONTACT ARM #
DYS-250-2	.250500	.187	2 Point	.50	.030	.030	# 2305-2
DYS-250-3	.250500	.187	3 Point	.50	.030	.030	# 2305-3
DYS-500-2	.500750	.350	2 Point	1.00	.075	.060	# 2306-2
DYS-500-3	.500750	.350	3 Point	1.00	.075	.060	#2306-3
DYS-Blank*	To Suit	.370	2 Point	.750	.097	.125	# DS-LO-73054*

PART #	DESCRIPTION
DYS-O	DYS Groove Gage body only less gaging arms and indicator
18967	For the Bench Stand used with the DYS gages
2335	Clamp nut used with part # 2305 & #2306 contact arms
DS-LO-2335	Clamp nut used with part # DS- LO-73054

*Note: Blank contacts can be used as supplied or modified to suit a specific application.

*Note #2: For pricing on special gaging arms to suit a specific application, submit the part print with your quotation. Arms can be ordered separately.

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DYN GROOVE GAGE

Dorsey's Dynamike Model DYN groove gage combines a patented ball bushing slide with a series of gaging arms to suit almost any application. Gaging contact retraction is accomplished by using a conveniently mounted thumb lever while gaging range adjustment is accomplished by sliding the static gaging arm along its precision ground rail.

FEATURES:

- .500" (13mm) of gaging travel/retraction.
- .75" to 4" (19mm 100mm) diameter range.
- 3" Long precision ground adjustment rail.
- Precision machined cast jig plate frame.
- Thermal isolation grips.
- an accomodate any Dorsey's "High Amplification", "Traditional" or digital indicators.
- Retraction pulls away from indicator.

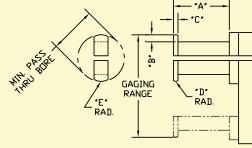
Indicator can be rotated 360 degrees to suit any application.



The DYN Goove Gage is supplied per model # below with DYN Groove Gage body, model # 2DM125-05 dial indicator, .0005" graduation and the appropriate contact arm set for the range noted below.

PART #	RANGE	MIN / BORE	ТҮРЕ	"A" Dim.	"B" Dim.	"C" Dim.	CONTACT ARM #
DYN-750-2	.750 - 2.00	.500	2 Point	1.50	.125	.125	# 2405-2
DYN-750-3	.750 - 2.00	.500	3 Point	1.50	.125	.125	# 2405-3
DYN-2000-2	2.00 - 4.00	2.00	2 Point	2.00	.190	.125	# 2465-2
DYN-2000-3	2.00 - 4.00	2.00	3 Point	2.00	.190	.125	#2465-3
DYN-Blank-S*	To Suit	.370	2 Point	.750	.097	.125	# DS-LO-73054*
DYN-Blank-L*	To Suit	.85	2 Point	1.44	.206	.190	# DS-LO-73055*





^{*}Note: Blank contacts can be used as supplied or modified to suit a specific application.

^{*}Note #2: For pricing on special gaging arms to suit a specific application, submit the part print with your quotation. Arms can be ordered separately.

PART #	DESCRIPTION
DYN-O	DYN Groove Gage body only less gaging arms and indicator
48502-S	For the Bench Stand used with the DYN gages
2335	Clamp nut used with part # 2405 & #2465 contact arms
DS-LO-2335	Clamp nut used with part # DS-LO-73054 AND # DS-LO-73055





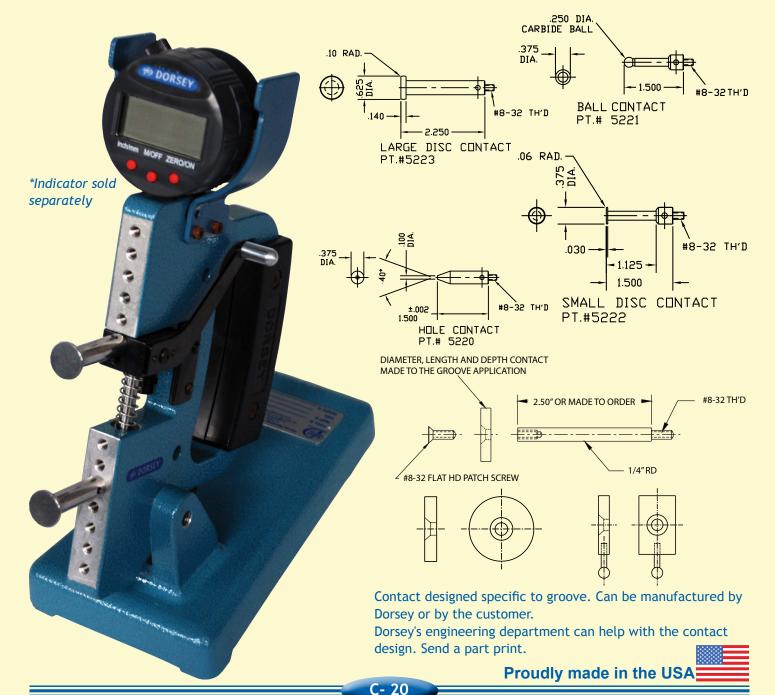
UNIVERSAL GAGE- ID/OD/LOCATION

Dorsey's universal measuring gage was designed to combine our proven patented precision linear movement with a frame that accommodates a wide variety of contacts. This gage can precisely measure various internal and external dimensions such as diameters, grooves, splines, tapers, wall thickness, counterbores and hole locations and even threads.

FEATURES:

- Patented linear slide with 1" (25 mm) of gaging travel / retraction.
- Indicator can be rotated 360 degrees to suit application.
- Measurement range up to 5" ID / 2/5" OD.
- Light weight precision machined jig plate frame.
- Can accomodate dial or digital indicators.

MODEL	DESCRIPTION
UG-1	Universal gage complete with standard disc contact (part #5211-2)
UG-KIT	Universal gage complete with standard disc contact (part #5211-2), ball contacts (part #5213), .25" disc contacts (part #5214), digital indicator (part #F15830) and fitted storage case
48502-S	Bench Stand for UG



EASY BORE SERIES (2 or 3 point retractable hole gages)

These retractable bore gages are ideal for inspection on the shop floor. They feature a series of 24 interchangeable heads and 2 handles to accommodate the complete range of diameters between .236" and 7.87".

F20314 - F20315

F20316

F20317

F20318 - 20335

F20348

F20349

F20338

F20337

F20336

EBGI

100mm

100mm

150mm

150mm

Adapter for Bowlers/Fowler head

OPTIONS DESCRIPTION

Stand for pistol grip bore gage

Ultra protective housing for pistol grip

3.937

3.937"

5.905"

5.905"

F20334

F203

180-190

190-200



HEAD	HEA	AD SIZE	LINE A	LINE B
PART #	MM	INCH	INCH	INCH
F20312	6-8	.236315	.109	2.36
F20313	8-10	.315394	.118	2.36
F20314	10-13	.394511	.157	2.36
F20315	13-16	.511630	.236	2.36
F20316	16-20	.630787	.295	2.36
F20317	20-26	.787-1.023	.433	2.36
F20318	26-32	1.023-1.260	.433	2.36
F20319	32-40	1.260-1.575	.433	2.75
F20320	40-50	1.575-1.968	.591	2.75
F20321	50-60	1.968-2.362	.591	2.75
F20322	60-70	2.362-2.756	.591	2.75
F20323	70-80	2.756-3.150	.591	2.75
F20324	80-90	3.150-3.543	.591	2.75
F20325	90-100	3.543-3.937	.591	2.75
F20326	100-110	3.937- 4.330	.767	2.75
F20327	110-120	4.330-4.724	.767	2.75
F20328	120-130	4.724-5.118	.767	2.75
F20329	130-140	5.118-5.512	.767	2.75
F20330	140-150	5.512-5.906	.767	2.75
F20331	150-160	5.906-6.299	.767	2.75
F20332	160-170	6.299-6.693	.866	2.75
F20333	170-180	6.693-7.087	.866	2.75

7.087-7.480

7.480-7.874

MASTER SETTINGS BILATERAL CLASS

INCH

.2912

.3437

.3475

.5025

.7187

.9062

1.0312 1.4062

1.75 2.1875

2.5625

2.9375

3.3437

3.75

4.125

4.5625

4.9062

5.3125

5.7187

6.1093

6.5

6.9062

7.2912

7.6875

PART #

F21162

F21164

F21167

F21172

F21177

F21185

F21191

F21450

F21452

F21453

F21454

F21455

F21456

F21457

F21458

F21459

F21460

F21462

F21464

2.75

2.75

.866

PART #	PISTOL GRIP & LEVER HANDLE DESCRIPTION
F20308	Pistol grip for .236"629" diameter
F20309	Pistol grip for .630"787" diameter
F20310	Lever grip for .236"629" diameter
F20311	Lever grip for .630"787" diameter
PART #	FITTED STORAGE CASE DESCRIPTION

PART #	FITTED STORAGE CASE DESCRIPTION
F80524	Pistol grip head and master 16-40mm
F80525	Pistol grip head and master 41-60mm
F80526	Pistol grip head and master 61-80mm
F80527	Pistol grip head and master 81-100mm

NDIVIDUAL GAGE SELECTION GUIDE 3) Select pistol grip or lever grip handle	4) Select an indicating device
1) Select easurement head size 2) Determine if extension is required F20310	
.236"394" HEAD F20312 - F20313	ELECTRONIC PROBE
.395" TO .629 HEAD F20314 - F20315	DIAL INDICATOR 1" TRAVEL
.630"787" HEAD F20316 F20317 F20347	
.787" - 1.023" HEAD F20317	DIGITAL INDICATOR 1" TRAVEL
1.023" - 7.874" HEAD F20318 - F20335	

Tel: (845) 454-3111 Fax: (845) 454-3888 53 Oakley Street, Poughkeepsie, NY 12601

BC Universal ID/OD BENCH COMPARATOR

ADJUSTABLE INSIDE / OUTSIDE DIAMETER FIXTURES

This comparator offers 2 or 3 point measurements for both ID and OD on one benchtop plate. Features include two or three point measurement, linear ball bushing movement and a wide range of adjustment. The fixture can be positioned at any angle from horizontal to vertical to duplicate the machining process angle eliminating deflection and deformation variation as potential sources of error. Hardened steel work surfaces insures years of accurate trouble free use.

FEATURES:

■ Gage is supplied with model 2DM025-01 .0001" graduation 1:1 dial indicator, 3 contact holders and BCC-GS25 contact set.

Reversing the top plate selects either I.D. or O.D.

 Base with carrying handle features 90 degrees of adjustment with angle locking mechanism.

■ .400" linear gaging or retraction range.

Patented precision linear ball bushing gaging mechanism.

■ Ground and plated work stage 5.25" x 6.75" on BC1 and 9.75" x 10.75" on BC2.

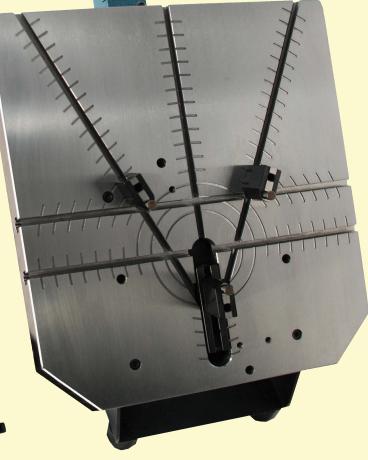
■ Witness lines aid with gage alignment.

Includes fitted wooden storage case.

■ 2 Hex adjustment wrenches.

Special contacts designed per requested application.





BC₂

Note: Special ratio 4:5 dial indicator or electronically compensated digital indicator is recommended for 3 point non-diametric contact arrangement. See page C-22 for optional indicators.

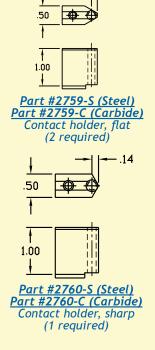
Proudly made in the USA

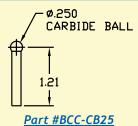


C-22

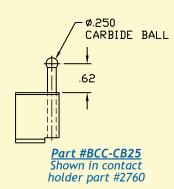
BC Universal ID/OD Bench

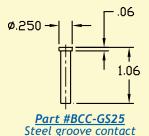
	ORDERING INFORMATION					
		"T" CONFIGURATION		"Y" CONFI	GURATION	
PART #	DESCRIPTION	I.D. RANGE	O.D. RANGE	I.D. RANGE	O.D. RANGE	
BC1	Gaging Fixture with 3 contacts, 3 holders and .0001" grad. indicator	.75" - 4.44"	.25" - 5.19"	.75" - 5.25"	.25" - 6.00"	
BC1-NI	Same as above, less indicator					
BC2	Gaging Fixture with 3 contacts, 3 holders and .0001" grad. indicator	2" - 8.44"	1.5" - 9.19"	2" - 10.00"	1.5" - 10.88"	
BC2-NI	Same as above, less indicator					

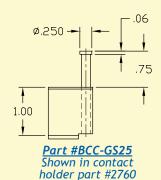




Carbide ball contact







4:5 RATIO INDICATORS FOR RECOMMENDED USE WITH 3 POINT "Y"CONFIGURATION

Example: .010 spindle travel is displayed as .008" on indicator











MODEL	2DMR025-017	2DMR125-05Z	2DMR005-002mmZ	2DMR5-01mmZ	MT543-287B
Total Travel	.02"	.100"	0.4mm	4.0mm	.5"/12mm
Graduation	.0001"	.0005"	0.002mm	0.01mm	Selectable
Revolutions	2.5 Rev.	2.5 Rev.	2.5 Rev.	5 Rev.	N/A
Travel/Rev.	.008"	.040"	0.16mm	0.8mm	N/A



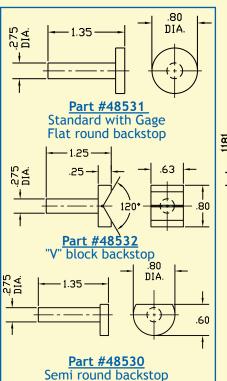
THE VERSATILE SNAP GAGE

FEATURES:

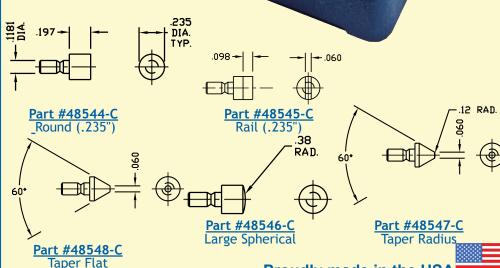
- Checks multiple shapes. A combination of contact points, backstops and accessories may be selected and custom assembled to meet the most exacting needs.
- Comparative measurements can be made of almost any shape: diameters, spheres, grooves, shafts, flats, etc.
- Specifically designed for Dorsey's high amplification dial indicators with graduations as fine as .00002" (0.0005mm).
- Two frame sizes are available.
- Hand held or mount on an optional bench stand.
- Utilizes dial and digital indicators as well as electronic transducers. Display on electronic columns or remote digital devices. SPC compatible.
- Tailstock fine adjustment of 1" maintains contact parallelism throughout the gaging range.
- Standard thumb actuated retraction of .100" makes part loading easy.
- Contacts suitable for most applications can be supplied from a wide variety in stock. All anvils utilize shank-lock design for maximum holding pressure.

 Several backstop designs are available to accommodate a variety of part configurations.

ORDERING INFORMATION				
PART #	DESCRIPTION			
48554	0 - 1" range versatile snap gage with choice of one set of contacts			
48555	1 - 2" range versatile snap gage with choice of one set of contacts			
48502-V	Bench Stand for versative snap gage			



Part #48544 shown with dial indicator (part #4I4-002), and bench stand (part #48502-V)



Dorsey Metro

I DIV.

y International

.00002

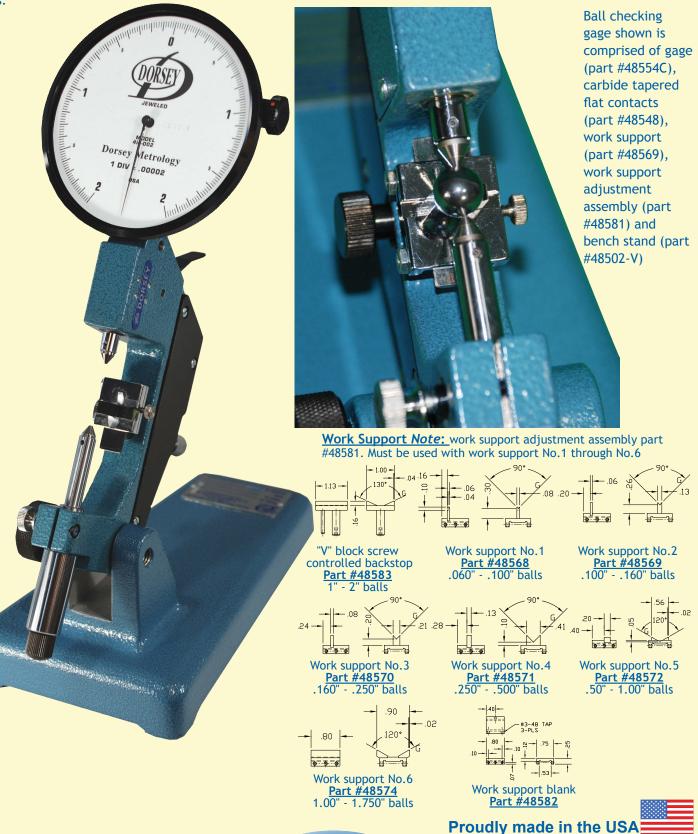


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SNAP GAGE ASSEMBLY FOR BALL MEASUREMENTS

Measuring balls and other spherical items is one of the most popular applications of the Versatile Snap Gage. Two snap gage frames, 0-1" (Part #48554) and 1"-2" (Part #48555) cover the range of ball diameters from the smallest manufactured up to 2" diameter. The "V" backstops have been specially designed to facilitate the measurement of





MODEL J2 HORIZONTAL JAW GAGE

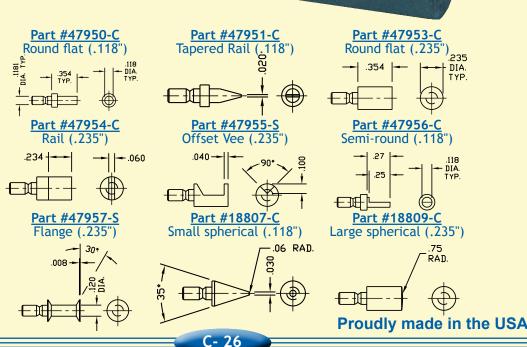
The model J2 jaw gage features Dorsey's proven precision lapped chrome/steel bushing in a rigid cast iron frame. A series of interchangeable contacts, and adjustable two axis rest stage along with a micrometer type adjustment tail stock combine to make the J2 jaw gage suitable for most high accuracy OD inspection tasks.

FEATURES:

- Check diameters, widths, lengths, and locations.
- Ideal for screw machine and small parts applications.
- Specifically designed for Dorsey's high amplification dial indicators with graduations as fine as .00002" (0.0005mm).
- Utilize dial and digital indicators, or electronic displays and is SPC compatible.
- Standard thumb actuated retraction of .100" makes part loading easy.
- Tailstock fine adjustment of 1" maintains contact parallelism throughout the gaging range.
- Interchangeable contact points are available for a variety of part configurations. Each set of contacts utilizes a shank-lock design for maximum holding pressure.

Backstop for locating the part may be adjusted both horizontally or vertically to suit





SSG STYLE SNAP GAGES

This design of rugged production line snap gages has been the industry standard for more than 75 years. Dorsey offers this easily adjusted gage built to the same exacting specifications and precision as the original Standard Gage® product. Interchangeable repair parts for Standard Gage® products are also available.

FEATURES:

■ .060" gaging travel is standard, optional with .100" or .500".

Adjustable gaging pressure.

Lower anvil features 1" travel micrometer style adjustment with rapid lock nut.

Well balanced precision machined aluminum jig plate frame with themal isolation grips.

Collet mounted indicator can be rotated to suit application.

Available with any Dorsey dial or digital indicators.

 5/8" square solid carbide lapped anvils with generous lead radius.

Anvils are flat & parallel within .00015" below 4", .0002" in 4"-8", .00025" in 8-12" and .0003" above 12".

Nylon backstop protects parts during loading.



* Shown with #2I10-002

indicator and optional #48502-S bench stand

			FLAT 5/8" SQ. ANVILS	
F	RANGE	2150-01	2l10-002mm	
INCH	METRIC	.0001" GRAD MULTI REV.	0.002mm MULTI REV.	WITHOUT INDICATOR
0 - 1"	0 - 25mm	DS-S2-12371	DS-S2-18371	DS-S2-15371
1 - 2"	25 - 51mm	DS-S2-12372	DS-S2-18372	DS-S2-15372
2 - 3"	51 - 76mm	DS-S2-12373	DS-S2-18373	DS-S2-15373
3 - 4"	76 - 102mm	DS-S2-12374	DS-S2-18374	DS-S2-15374
4 - 5"	102 - 127mm	DS-S2-12375	DS-S2-18375	DS-S2-15375
5 - 6"	127 - 152mm	DS-S2-12376	DS-S2-18376	DS-S2-15376
6 - 7"	152 - 178mm	DS-S2-12377	DS-S2-18377	DS-S2-15377
7 - 8"	178 - 203mm	DS-S2-12378	DS-S2-18378	DS-S2-15378
8 - 9"	203 - 229mm	DS-S2-12379	DS-S2-18379	DS-S2-15379
9 - 10"	229 - 254mm	DS-S2-12380	DS-S2-18380	DS-S2-15380
10 - 11" 254 - 279mm		DS-S2-12381	DS-S2-18381	DS-S2-15381
11 - 12" 279 - 305mm		DS-S2-12382	DS-S2-18382	DS-S2-15382
12 - 13"	12 - 13" 305 - 330mm		DS-S2-18383	DS-S2-15383
13 - 14"	330 - 356mm	DS-S2-12384	DS-S2-18384	DS-S2-15384
14 - 15"	356 - 381mm	DS-S2-12385	DS-S2-18385	DS-S2-15385
15 - 16"	381 - 406mm	DS-S2-12386	DS-S2-18386	DS-S2-15386
16 - 17"	406 - 432mm	DS-S2-12387	DS-S2-18387	DS-S2-15387
17 - 18"	432 - 458mm	DS-S2-12388	DS-S2-18388	DS-S2-15388
18 - 19"	458 - 483mm	DS-S2-12389	DS-S2-18389	DS-S2-15389
19 - 20"	483 - 508mm	DS-S2-12390	DS-S2-18390	DS-S2-15390
20 - 21"	508 - 533mm	DS-S2-12391	DS-S2-18391	DS-S2-15391
21 - 22"	533 - 559mm	DS-S2-12392	DS-S2-18392	DS-S2-15392
22 - 23"	559 - 584mm	DS-S2-12393	DS-S2-18393	DS-S2-15393
23 - 24"	584 - 610mm	DS-S2-12394	DS-S2-18394	DS-S2-15394
48502-S		BENCH STAND		



OPTIONAL CONTACT TRAVEL	OPTIONAL BLADE ANVILS	LIFTING LEVER	SIDE STOPS
To specify extended gaging contact	To specify blade anvils, add "-BXXX" to end of part number.	To specify a lifting lever, add "-L" to end	To specify side stops, add "SS"
travel, add "TXX" to end of part number.	-B40 = .040" Wide x .08 tall -B125 = .125" Wide x .31 tall	of part number.	to end of part number.
-T100 = .100" Travel	-B60 = .060" Wide x .12 tall -B156 = .156" Wide x .31 tall		Note: Side stops are made
-T500 = .500" Travel Standard with Lift-	-B80 = .080" Wide x .16 tall -B187 = .187" Wide x .31 tall		to order.
ing Lever (-L)	-B100 = .100" Wide x .20 tall		

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Part # sequence: Snap gage part #, Contact travel, Blade anvil, Lifting

lever, Side stops





SDN SERIES DIAL SNAP GAGE

This rugged snap gage features a precision box-way range adjustment channel to protect the anvil shafts and maximize frame clearance.

FEATURES:

■ 090" gaging travel is standard, optional with .500".

■ Precision box way slide allows 1" of range adjustment.

■ Rugged frame is machined from 5/8" thick aluminum jig plate.

■ 5/8" solid carbide lapped anvils with generous lead radius.

■ Anvils are flat and parallel within .00015" on frame sizes below 4", within .0002" on 4"-8" frames, .00025" on 8-12" frames and within .0003" above 12".

Heat insulating impact resistant handles.

Adjustable nylon backstop protects parts.

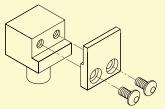
Collet mounted indicator can be rotated to suit application.

May be used with any Dorsey "High Amplification", "Traditional"

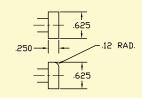
or digital indicators.

or digitat i		FLAT 5/8"	SQ. ANVILS
F	RANGE	2150-01	
INCH	METRIC	.0001" GRAD MULTI REV.	WITHOUT INDICATOR
0 - 1"	0 - 25mm	SDN-00	SDN-00NI
1 - 2"	25 - 51mm	SDN-100	SDN-100NI
2 - 3"	51 - 76mm	SDN-200	SDN-200NI
3 - 4"	76 - 102mm	SDN-300	SDN-300NI
4 - 5"	102 - 127mm	SDN-400	SDN-400NI
5 - 6"	127 - 152mm	SDN-500	SDN-500NI
6 - 7"	152 - 178mm	SDN-600	SDN-600NI
7 - 8"	178 - 203mm	SDN-700	SDN-700NI
8 - 9"	203 - 229mm	SDN-800	SDN-800NI
9 - 10"	229 - 254mm	SDN-900	SDN-900NI
10 - 11"	254 - 279mm	SDN-1000	SDN-1000NI
11 - 12"	279 - 305mm	SDN-1100	SDN-1100NI
12 - 13"	305 - 330mm	SDN-1200	SDN-1200NI
13 - 14"	330 - 356mm	SDN-1300	SDN-1300NI
14 - 15"	356 - 381mm	SDN-1400	SDN-1400NI
15 - 16"	381 - 406mm	SDN-1500	SDN-1500NI
16 - 17"	406 - 432mm	SDN-1600	SDN-1600NI
17 - 18"	432 - 458mm	SDN-1700	SDN-1700NI
18 - 19"	458 - 483mm	SDN-1800	SDN-1800NI
19 - 20"	483 - 508mm	SDN-1900	SDN-1900NI
20 - 21"	508 - 533mm	SDN-2000	SDN-2000NI
21 - 22"	533 - 559mm	SDN-2100	SDN-2100NI
22 - 23"	559 - 584mm	SDN-2200	SDN-2200NI
23 - 24"	584 - 610mm	SDN-2300	SDN-2300NI
48502-S	BENCH STAND		





Blade type anvil Special sizes available



Part #2029 Standard carbide anvil

I	OPTIONAL CONTACT TRAVEL	OPTIONAL BLADE ANVILS	LIFTING LEVER	SIDE STOPS
	To specify extended gaging contact travel, add "TXX"	To specify blade anvils, add "-BXXX" to end of part number. Blade sizes:	To specify a lifting lever, add "-L"	To specify side stops, add
	to end of part number.	-B40 = .040" Wide x .08 tall -B125 = .125" Wide x .31 tall	to end of part number.	"SS" to end of part number.
	-T100 = .100" Travel	-B60 = .060" Wide x .12 tall -B156 = .156" Wide x .31 tall		Note: Side stops are made
	-T500 = .500" Travel Standard with Lifting Lever (-L)	-B80 = .080" Wide x .16 tall -B187 = .187" Wide x .31 tall		to order.
1		-B100 = .100" Wide x .20 tall		

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Part # sequence: Snap gage part #, Contact travel, Blade anvil, Lifting

lever, Side stops





LONG RANGE SNAP GAGE OPTIONS

RANGE

0 - 1"

.5 - 2"

1.5 - 3"

2.5 - 4"

3.5 - 5"

4.5 - 6"

5.5 - 7"

6.5 - 8"

7.5 - 9"

8.5 - 10" 9.5 - 11"

10.5 - 12"

11.5 - 13"

12.5 - 14" 13.5 - 15"

14.5 - 16"

15.5 - 17"

16.5 - 18"

Dorsey's long range snap gages feature .50"/.12mm of gaging travel and are used to replace many fixed disc setmasters. This option can be fitted to either the SDN or SSG series frame.

SSG FRAME

PART #

LRS-15371

LRS-15372

LRS-15373

LRS-15374

LRS-15375 LRS-15376

LRS-15377

LRS-15378

LRS-15379

LRS-15380

LRS-15381

LRS-15382

LRS-15383 LRS-15384

LRS-15385

LRS-15386

LRS-15387

LRS-15388



LRS-15377

shown



*Indicator sold separately

SDN FRAME

PART #

LRS-00

LRS-100

LRS-200

LRS-300

LRS-400

LRS-500

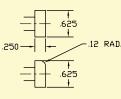
LRS-600

LRS-700

LRS-800

SDN STYLE

*Indicator sold separately



Part #2029 Standard carbide anvil



LRS Snap gage with bench stand #48502-S

NAP GAGE ANVIL OPTIONS

The following options can be specified on either the SSG, SDN or LRS series snap gages.

Fixed ball or roll

contacts

Can be used in

conjunction with side

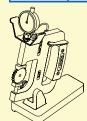
stops to check pitch

diameter of helical gears

floating rolls and thumb retraction



INTERCHANGABLE BLADE ANVILS PART # A DIM. B DIM. 2274-1 .040" (1mm) .08 2274-2 .060" (1.5mm) .12 2274-3 .080" (2mm) .16 2274-4 .20 .100" (2.5mm) 2274-5 .125" (3.2mm) .31 2274-6 .156" (4mm) .31 2274-7 .187" (4.7mm) .31



Self centralizing form anvils

Applications include measurement of major diameter



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2 wire or 3 wire self aligning floating rolls on interchangeable carriers Best suited for pitch diameter measurement on threads, screw forms, helical gears and splines



2 Wire or 3 wire floating carbide rolls on fixed carriers (plus special master) Best suited for heavy production inspection of pitch diameter on threads, screw forms, helical gears and splines

Proudly made in the USA



Dorsey Metrology International Website: www.dorseymetrology.com

Tel: (845) 454-3111 Fax: (845) 454-3888 53 Oakley Street, Poughkeepsie, NY 12601

ADJUSTABLE LIMIT SNAP GAGES

Adjustable limit snap gages are an economical choice for the go/no go measurement of outside diameters or thicknesses. They are also known as AGD snap gages. Frames are machines from stabilized cast iron and are manufactured to ANSI B47-1-1988.







CS STYLE ANVILS					
RAN	NGE				
INCH	METRIC	FRAME #	PART #		
* .00195	0 - 5	00	Y88-10150		
* .195385	5 - 9.8	00X	Y88-10151		
* .385570	9.8 - 14.5	0	Y88-10152		
* .570760	14.5 - 19.3	0X	Y88-10153		
.0025	0 - 6	1	Y86-10050		
.2550	6 - 12.7	2	Y86-10051		
.5075	12.7 - 19	2X	Y86-10052		
.75 - 1.00	19 - 25.4	3	Y86-10053		
1.00 - 1.25	25.4 - 31.8	3X	Y86-10054		
1.25 - 1.50	31.8 - 38.1	4	Y86-10055		
1.50 - 1.75	38.1 - 44.5	4X	Y86-10056		
1.75 - 2.00	44.5 - 50.8	5	Y86-10057		
2.00 - 2.25	50.8 - 57.2	5X	Y86-10058		
2.25 - 2.50	57.2 - 63.5	6	Y86-10059		
2.50 - 2.75	63.5 - 69.9	6X	Y86-10060		
2.75 - 3.06	69.9 - 77.7	7	Y86-10061		
3.06 - 3.44	77.7 - 87.4	7X	Y86-10062		
3.44 - 3.81	87.4 - 96.8	8	Y86-10063		
3.81 - 4.19	96.8 - 106.4	8X	Y86-10064		
4.19 - 4.56	106.4 - 115.8	9	Y86-10065		
4.56 - 4.94	115.8 - 125.5	9X	Y86-10066		
4.94 - 5.31	125.5 - 134.9	10	Y86-10067		
5.31 - 5.69	134.9 - 144.5	10X	Y86-10068		
5.69 - 6.12	144.5 - 155.4	11	Y86-10069		
6.12 - 6.62	155.4 - 168.1	11X	Y86-10070		
6.62 - 7.12	168.1 - 180.8	12	Y86-10071		
7.12 - 7.62	180.8 - 193.5	12X	Y86-10072		
7.62 - 8.12	193.5 - 206.2	13	Y86-10073		
8.12 - 8.62 206.2 - 218.9		13X	Y86-10074		

BLADE ANVILS					
RANGE					
INCH	METRIC	FRAME #	PART #		
* .00195	0 - 5	00	Y88-10200		
* .195385	5 - 9.8	00X	Y88-10201		
* .385570	9.8 - 14.5	0	Y88-10202		
* .570760	14.5 - 19.3	0X	Y88-10203		
N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A		
025	0 - 6	2X	Y87-10100		
.2550	6 - 12.7	3	Y87-10101		
.5075	12.7 - 19	3X	Y87-10102		
.75 - 1.00	19 - 25.4	4	Y87-10103		
1.00 - 1.25	25.4 - 31.8	4X	Y87-10104		
1.25 - 1.50	31.8 - 38.1	5	Y87-10105		
1.50 - 1.75	38.1 - 44.5	5X	Y87-10106		
1.75 - 2.00	44.5 - 50.8	6	Y87-10107		
2.00 - 2.25	50.8 - 57.2	6X	Y87-10108		
2.25 - 2.63	57.2 - 66.8	7	Y87-10109		
2.63 - 3.00	66.8 - 76.2	7X	Y87-10110		
3.00 - 3.38	76.2 - 85.7	8	Y87-10111		
3.38 - 3.75	85.7 - 95.3	8X	Y87-10112		
3.75 - 4.12	95.3 - 104.6	9	Y87-10113		
4.12 - 4.50	104.6 - 114.3	9X	Y87-10114		
4.50 - 4.88	114.3 - 124	10	Y87-10115		
4.88 - 5.25	124- 133.4	10X	Y87-10116		
5.25 - 5.75	133.4 - 146.1	11	Y87-10117		
5.75 - 6.25	146.1 - 158.8	11X	Y87-10118		
6.25 - 6.75	158.8 - 171.5	12	Y87-10119		
6.75 - 7.25	171.5 - 184.2	12X	Y87-10120		
7.25 - 7.75	184.2 - 196.9	13	Y87-10121		
7.75 - 8.25	196.9 - 210	13X	Y87-10122		

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Dorsey Metrology InternationalTel: (845) 454-3111 Fax: (845) 454-3888Website: www.dorseymetrology.com53 Oakley Street, Poughkeepsie, NY 12601

RING AND DISC MASTERS

All Dorsey masters are ground and lapped to size then polished. Non gaging surfaces are black oxide, and the faces are surface ground. Blanks meet requirements of B47.1-1988 and gages are manufactured in accordance with ANSI B89.1.6-1984.

PLUG GAGES/PIN GAGES:

Reversible wires, taper lock, tri-lock, whistle notch, go, no-go, reference, bilateral, or unilateral, with or without handles



THREAD GAGES:

I.D., O.D., taper lock, reversible, helical coil, UNC, UNF, UNEF, NPT, NPTF, ANPT, NPSF, titanium nitride coated, go, no-go, reference, bilateral, or unilateral, with or without handles



^{*} Special sizes and part simulating masters are available upon request.

RINGS: Hardened Steel, bilateral tolerance

DISCS: Hardened Steel, bilateral tolerance







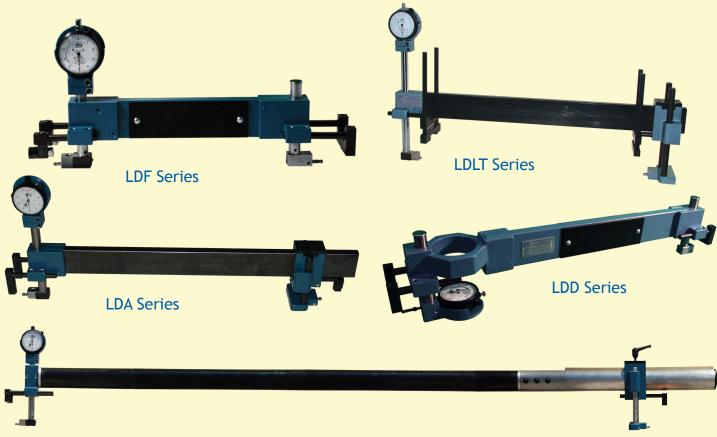


	SIZE RANGE	CLASS	TOLERANCE	RING PART #	DISC PART #
INCH METRIC	.150230" 3.81 - 5.84mm	XX X Y	.00002" .00004" .00007"	RXX-# .##### RX-# .##### RY-# .#####	DXX-# .##### DX-# .##### DY-# .#####
INCH METRIC	.2301365" 5.84 - 9.27mm	XX X Y	.00002" .00004" .00007"	RXX-# .##### RX-# .##### RY-# .#####	DXX-#.#### DX-#.#### DY-#.#####
INCH METRIC	.3651510" 9.27 - 12.95mm	XX X Y	.00002" .00004" .00007"	RXX-# .##### RX-# .##### RY-# .#####	DXX-#.#### DX-#.#### DY-#.#####
INCH METRIC	.5101825" 12.95 - 20.96 mm	XX X Y	.00002" .00004" .00007"	RXX-# .##### RX-# .##### RY-# .#####	DXX-#.#### DX-#.#### DY-#.####
INCH METRIC	.8251 - 1.135" 20.96 - 28.83mm	XX X Y	.00003" .00006" .00009"	RXX-#. <i>####</i> RX-#. <i>####</i> RY-#. <i>####</i> #	DXX-#.#### DX-#.#### DY-#.####
INCH METRIC	1.1351 - 1.510" 28.83 - 38.35mm	XX X Y	.00003" .00006" .00009"	RXX-#.#### RX-#.#### RY-#.#####	DXX-#.#### DX-#.#### DY-#.####
INCH METRIC	1.5101 - 2.010" 38.35 - 51.05mm	XX X Y	.00004" .00008" .00012"	RXX-#. <i>#####</i> RX-#. <i>#####</i> RY-#. <i>#####</i>	DXX-#.#### DX-#.#### DY-#.####
INCH METRIC	2.0101 - 2.510" 51.05 - 63.75mm	XX X Y	.00004" .00008" .00012"	RXX-# .##### RX-# .#### RY-# .#####	DXX-#.#### DX-#.#### DY-#.#####
INCH METRIC	2.5101 - 3.010" 63.75 - 76.45mm	XX X Y	.00005" .00010" .00015"	RXX-# .#### RX-# .#### RY-# .#####	DXX-#.##### DX-#.#### DY-#.#####
INCH METRIC	3.01 <mark>01 - 3.510"</mark> 76.45 - 89.15mm	XX X Y	.00005" .00010" .00015"	RXX-#.#### RX-#.#### RY-#.#####	DXX-#.#### DX-#.#### DY-#.#####
INCH METRIC	3.5101 - 4.010" 89.15 - 101.85mm	XX X Y	.00005" .00010" .00015"	RXX-# .#### RX-# .#### RY-# .#####	DXX-#.#### DX-#.#### DY-#.#####
INCH METRIC	4.0101 - 4.510" 101.85 - 114.55mm	XX X Y	.00005" .00010" .00015"	RXX-# .#### RX-# .#### RY-# .#####	DXX-#.#### DX-#.#### DY-#.#####
INCH METRIC	4.5101 - 5.010" 114.55 - 127.25mm	XX X Y	.000065" .00013" .00019"	RXX-# .##### RX-# .##### RY-# .#####	DXX-#.#### DX-#.#### DY-#.#####
INCH METRIC	5.0101 - 5.510" 127.25 - 139.95mm	XX X Y	.000065" .00013" .00019"	RXX-# .##### RX-# .##### RY-# .#####	DXX-#.#### DX-#.#### DY-#.#####
INCH METRIC	5.5101 - 6.010" 139.95 - 152.65mm	XX X Y	.000065" .00013" .00019"	RXX-# .##### RX-# .##### RY-# .#####	DXX-#.#### DX-#.#### DY-#.#####
INCH METRIC	6.0101 - 7.010" 152.65 - 178.05mm	T XX Y	.00008" .00016" .00024"	RXX-# .##### RX-# .#### RY-# .#####	DXX-#.#### DX-#.#### DY-#.#####
INCH METRIC	7.0101 - 8.010" 178.05 - 203.45mm	XX X Y	.00008" .00016" .00024"	RXX-#.#### RX-#.#### RY-#.#####	DXX-#.#### DX-#.#### DY-#.####





Dorsey Large Diameter Gages



Ultra Large diameter gage. Measurement range 120" - 132" Weight 10.5lbs/4.76kg

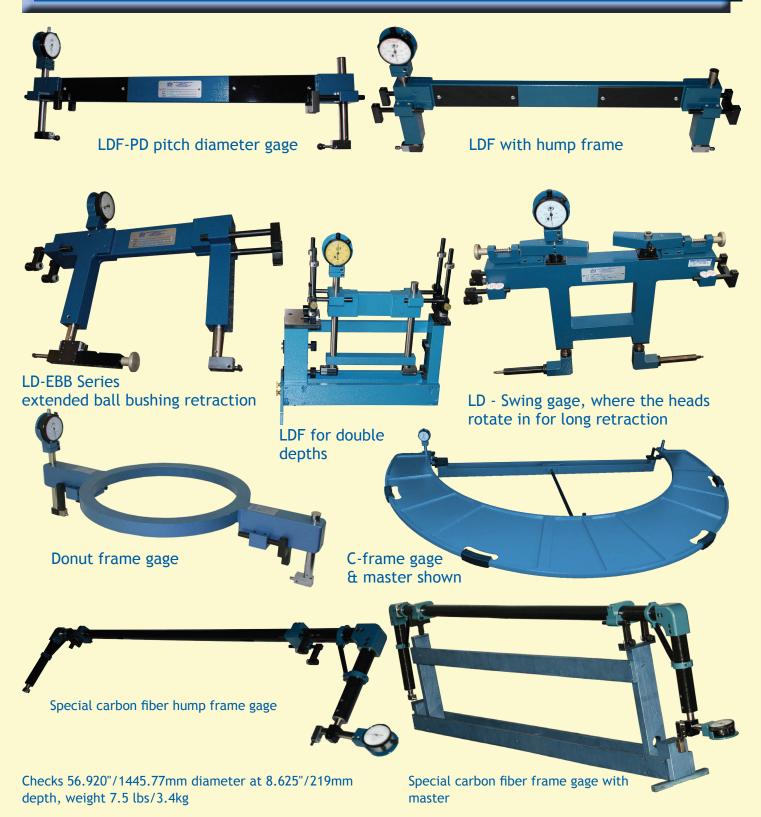
Carbon fiber diameter gages are lighter weight, more thermally stable and structurally stronger.



Dorsey Metrology has built a reputation as a leader in the field of large component dimensional measurement. Dorsey's expertise brings together the largest selection of precise linear measurement movements, frame configurations, sizes, materials, contact point shapes, rest designs and other accessories: all with the knowledge of how to apply them to any large part inspection requirement. With the Dorsey modular design system, it is possible to solve the inspection of almost any part configuration such as, inside / outside diameters, I.D. / O.D. grooves, bearing raceways, lengths, large gear pitch diameters, conical and angular shapes. Applications for these instruments include inspection of components used in aircraft engines and housings, generators, turbines, windmill parts, large bearings, gears, large shaft lengths and ship building apparatus.



Dorsey Large Diameter Gages



Large Diameter Gages require the expertise and experience that Dorsey Metrology provides in our custom approach in solving your specific measurement needs. Our ability to develop custom concepts and configurations, available in a range of frame material such as Aluminum, Steel and Carbon Fiber makes us a leader in this product category. Illustrated parts breakdown can be downloaded at www.dorseymetrology.com/parts-breakdown



DA SERIES- ID/OD ADJUSTABLE FRAME

Our most popular adjustable series of ID/OD gage uses rigid steel tubing, cast end blocks and a precision right angle transfer mechanism similar to our bore gages which gives accurate and sensitive readings.



- To order large diameter gages, use the following sequence to specify the desired configuration (there is no need to specify configuration for standard items).
 - Model Number Frame Size Contact Type Gaging Depth Other Options

.1875" dia.

- Standard gaging depth range is 0-2". Optional gaging depth of 3", 4" or 5" is available. Specify GD3, GD4 or GD5 to the part # (and use SMVA setmaster).
- Standard LDA frame clearance is 1.25". Contact us for a quotation if additional clearance is required.
- To order roller rests, add "-RR" to the part #. Extended shovel rests add "-ESR", straddle reference rest add "-SRR".
- Standard gaging contact travel is .100. Optional travel of .025, .050 or .075. Specify GC025, GC050 or GC075 to the part #.
- LDA gages are available with a choice of any of Dorsey's "High Amplification", "Traditional", digital indicator or less indicator.

.1875" dia. ball

	set	tmasters					 -
	INCH	METRIC (mm)	STEEL PIN	CARBIDE BALL	STEEL SHOVEL	CARBIDE SHOVEL	EXTENDED CARBIDE SHOVEL
PART #	RANGE	RANGE	SP	СВ	SS	CS	ES
LDA-12	6 to 12	150 to 300	LDA-12-SP	LDA-12-CB	LDA-12-SS	LDA-12-CS	LDA-12-ES
LDA-18	12 to 18	301 to 460	LDA-18-SP	LDA-18-CB	LDA-18-SS	LDA-18-CS	LDA-18-ES
LDA-24	18 to 24	461 to 610	LDA-24-SP	LDA-24-CB	LDA-24-SS	LDA-24-CS	LDA-24-ES
LDA-30	24 to 30	611 to 760	LDA-30-SP	LDA-30-CB	LDA-30-SS	LDA-30-CS	LDA-30-ES
LDA-36	30 to 36	761 to 915	LDA-36-SP	LDA-36-CB	LDA-36-SS	LDA-36-CS	LDA-36-ES
LDA-42	36 to 42	916 to 1070	LDA-42-SP	LDA-42-CB	LDA-42-SS	LDA-42-CS	LDA-42-ES
LDA-48	42 to 48	1071 to 1220	LDA-48-SP	LDA-48-CB	LDA-48-SS	LDA-48-CS	LDA-48-ES
LDA-54	48 to 54	1221 to 1370	LDA-54-SP	LDA-54-CB	LDA-54-SS	LDA-54-CS	LDA-54-ES
LDA-60	54 to 60	1371 to 1525	LDA-60-SP	LDA-60-CB	LDA-60-SS	LDA-60-CS	LDA-60-ES

For gage less indicator, add "-NI" to the end of the part #



.156" offset



.281" offset

See page D-14 for

SMA series companion

LDF SERIES - ID/OD FIXED FRAME

LDF series production gages utilize fixed frames which are more rigid, lighter and more compact than LDA series adjustable gages. LDF gages are normally used for tight tolerances and built to order based on application requirements.



■ To order large diameter gages, use the following sequence to specify the desired configuration (there is no need to specify configuration for standard items).

Model Number - Frame Size - Contact Type - Gaging Depth - Other Options

- Standard gaging depth range is 0-1". Optional gaging depth of 2" 5" is available. Specify GD2, GD3, GD4 or GD5 to the part # (and use SMVA setmaster).
- Rest options: to order roller rests, add "-RR" to the part #, extended shovel rests "-ESR", spring loaded rests "-SLR", double depth rests "-DDR", stradle rests "-SRR", sideway rests "-SWR".
- Standard gaging contact travel is .100". Optional travel of .025, .050 or .075. Specify GC025, GC050 or GC075.
- Choice of standard contacts below or honeycomb contacts "HCC", one way radius contacts "OWR".
- Standard LDF frame clearance is .75". Optional clearance of 1.25, 1.75 Specify FC125, FC175 to the part #.
- LDF gages are available with a choice of any of Dorsey's "High Amplification", "Traditional", digital indicators or less indicator.



PART #	INCH	METRIC (mm)	STEEL PIN	CARBIDE BALL	STEEL SHOVEL	CARBIDE SHOVEL	EXTENDED CARBIDE SHOVEL
	RANGE	RANGE	SP	СВ	SS	CS	ES
LDF-12	6 to 12	150 to 300	LDF-12-SP	LDF-12-CB	LDF-12-SS	LDF-12-CS	LDF-12-ES
LDF-18	12 to 18	301 to 460	LDF-18-SP	LDF-18-CB	LDF-18-SS	LDF-18-CS	LDF-18-ES
LDF-24	18 to 24	461 to 610	LDF-24-SP	LDF-24-CB	LDF-24-SS	LDF-24-CS	LDF-24-ES
LDF-30	24 to 30	611 to 760	LDF-30-SP	LDF-30-CB	LDF-30-SS	LDF-30-CS	LDF-30-ES
LDF-36	30 to 36	761 to 915	LDF-36-SP	LDF-36-CB	LDF-36-SS	LDF-36-CS	LDF-36-ES
LDF-42	36 to 42	916 to 1070	LDF-42-SP	LDF-42-CB	LDF-42-SS	LDF-42-CS	LDF-42-ES
LDF-48	42 to 48	1071 to 1220	LDF-48-SP	LDF-48-CB	LDF-48-SS	LDF-48-CS	LDF-48-ES
LDF-54	48 to 54	1221 to 1370	LDF-54-SP	LDF-54-CB	LDF-54-SS	LDF-54-CS	LDF-54-ES
LDF-60	54 to 60	1371 to 1525	LDF-60-SP	LDF-60-CB	LDF-60-SS	LDF-60-CS	LDF-60-ES

For gage less indicator, add "-NI" to the end of the part #



DVA - ID/OD ADJUSTABLE DIAMETER AND DEPTH

The LDVA is similar to the LDA series gage, except that it offers adjustment in the vertical axis to accommodate depths up to 5". Standard with part # 2DM125-05

■ To order large diameter gages, use the following sequence:

Model Number - Frame Size - Contact Type - Other Options.

LDVA gages are available with a choice of any of Dorsey's "High Amplification", "Traditional", digital indicators or less indicator.



.0005" graduation dial indicator

*Note: Gage pictured below is an LDVA-18-SP-025 with steel pin contacts and optional high amplification dial indicator part #2I100-025

> See page D-14 for SMVA series companion setmasters

> > .281" offset

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Optional perpendicular indicator unit

5" vertical adjustment on gage heads

.1875" dia.

.1875" dia. ball

.156" offset

INCH METRIC (mm) **STEEL PIN CARBIDE BALL STEEL SHOVEL CARBIDE SHOVEL EXTENDED CARBIDE** PART # **SHOVEL RANGE RANGE** SP CB SS CS ES LDVA-12 6 to 12 150 to 300 LDVA-12-SP LDVA-12-CB LDVA-12-SS LDVA-12-CS LDVA-12-ES LDVA-18-SP 12 to 18 301 to 460 LDVA-18-CB LDVA-18-SS LDVA-18-CS LDVA-18 LDVA-18-ES LDVA-24 18 to 24 461 to 610 LDVA-24-SP LDVA-24-CB LDVA-24-SS LDVA-24-CS LDVA-24-ES LDVA-30 24 to 30 611 to 760 LDVA-30-SP LDVA-30-CB LDVA-30-SS LDVA-30-CS LDVA-30-ES LDVA-36 30 to 36 761 to 915 LDVA-36-SP LDVA-36-CB LDVA-36-SS LDVA-36-CS LDVA-36-ES LDVA-42 36 to 42 916 to 1070 LDVA-42-SP LDVA-42-CB LDVA-42-SS LDVA-42-CS LDVA-42-ES LDVA-48 42 to 48 1071 to 1220 LDVA-48-SP LDVA-48-CB LDVA-48-SS LDVA-48-CS LDVA-48-ES LDVA-54 48 to 54 1221 to 1370 LDVA-54-SP LDVA-54-CB LDVA-54-SS LDVA-54-CS LDVA-54-ES LDVA-60 1371 to 1525 LDVA-60-SP LDVA-60-CB LDVA-60-SS LDVA-60-CS LDVA-60-ES 54 to 60

For gage less indicator, add "-NI" to the end of the part #

- ID/OD ADJUSTABLE RAIL FRAME

The LDRA gage uses twin parallel rails for a versatile and economical adjustable frame. End blocks and rests blocks act as reinforcing braces to the rail system once locked in appropriate gaging position.



twin rail frame SMA-12 is companion setmaster unless OD is less than 5", SMRA is companion setmaster for gaging depths of 1" or less with no restriction on OD. See page

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PART #	INCH	METRIC (mm)	STEEL PIN	CARBIDE BALL	STEEL SHOVEL	CARBIDE SHOVEL	EXTENDED CARBIDE SHOVEL
	RANGE	RANGE	SP	СВ	SS	CS	ES
LDRA-12	4 to 12	100 to 300	LDRA-SP	LDRA-CB	LDRA-SS	LDRA-CS	LDRA-ES

Proudly made in the USA

Sturdy .375" diameter



LDDA - DIRECT READING ID/OD ADJUSTABLE FRAME

These direct reading gages feature lightweight rigid steel tubing, cast end blocks to accommodate depths up to 5". The indicator contacts the part directly on this series of gage, therefore, retraction and gaging travel depend on indicator

lected. Standard gaging depth is 0-2"

Gaging units rotates 180 degrees for ID or OD measurement

*Note: Gage pictured below is an LDDA-24-CB-01 with carbide ball contacts and optional high amplification dial indicator part #2I50-01





See page D-14 for SMA series companion setmasters

.281" offset

Gaging travel is that of indicator selected

Standard with part #2DM125-05 .0005" graduation dial indicator

- To order this large diameter gages, use the following sequence:
 Model Number Frame Size Contact Type Gaging Depth Other Options
- Standard gaging depth range is 0-2". Optional gaging depth of 3", 4" or 5" is available. Specify GD3, GD4 or GD5 to the part # (and use SMVA setmaster).
- Standard LDDA frame clearance is 1.25". Contact us for a quotation if additional clearance is required.
- Rest options: to order roller rests, add "-RR" to the part #, extended shovel rests "-ESR", spring loaded rests "-SLR", double depth rests "-DDR", stradle rests "-SRR".
- LDDA gages are available with a choice of any of Dorsey's "High Amplification", "Traditional", digital indicators or less indicator.

 .1875" dia. .1875" dia. ball .156" offse

							#
DART #	INCH	METRIC (mm)	STEEL PIN	CARBIDE BALL	STEEL SHOVEL	CARBIDE SHOVEL	EXTENDED CARBIDE SHOVEL
PART #	RANGE	RANGE	SP	СВ	SS	CS	ES
LDDA-12	6 to 12	150 to 300	LDDA-12-SP	LDDA-12-CB	LDDA-12-SS	LDDA-12-CS	LDDA-12-ES
LDDA-18	12 to 18	301 to 460	LDDA-18-SP	LDDA-18-CB	LDDA-18-SS	LDDA-18-CS	LDDA-18-ES
LDDA-24	18 to 24	461 to 610	LDDA-24-SP	LDDA-24-CB	LDDA-24-SS	LDDA-24-CS	LDDA-24-ES
LDDA-30	24 to 30	611 to 760	LDDA-30-SP	LDDA-30-CB	LDDA-30-SS	LDDA-30-CS	LDDA-30-ES
LDDA-36	30 to 36	761 to 915	LDDA-36-SP	LDDA-36-CB	LDDA-36-SS	LDDA-36-CS	LDDA-36-ES
LDDA-42	36 to 42	916 to 1070	LDDA-42-SP	LDDA-42-CB	LDDA-42-SS	LDDA-42-CS	LDDA-42-ES
LDDA-48	42 to 48	1071 to 1220	LDDA-48-SP	LDDA-48-CB	LDDA-48-SS	LDDA-48-CS	LDDA-48-ES
LDDA-54	48 to 54	1221 to 1370	LDDA-54-SP	LDDA-54-CB	LDDA-54-SS	LDDA-54-CS	LDDA-54-ES
LDDA-60	54 to 60	1371 to 1525	LDDA-60-SP	LDDA-60-CB	LDDA-60-SS	LDDA-60-CS	LDDA-60-ES

For gage less indicator, add "-NI" to the end of the part #

LDDF SERIES- DIRECT READING FIXED FRAME

LDDF Series gages includes all the same features as the LDDA shown above except both cast end blocks are rigidly bolted and pinned in place. This makes the LDDF stronger and lighter.

*Note: Gage pictured is an



See page D-15 for SMF series companion setmasters

*Note: Gage pictured is an LDDF-18-CB-01 with carbide ball contacts and optional high amplification dial indicator part #219-01

See page D-11 for optional frame configurations used to clear obstructions

DADT #	INCH	METRIC (mm)	STEEL PIN	CARBIDE BALL	STEEL SHOVEL	CARBIDE SHOVEL	EXTENDED CARBIDE SHOVEL
PART #	RANGE	RANGE	SP	СВ	SS	CS	ES
LDDF-12	6 to 12	150 to 300	LDDF-12-SP	LDDF-12-CB	LDDF-12-SS	LDDF-12-CS	LDDF-12-ES
LDDF-18	12 to 18	301 to 460	LDDF-18-SP	LDDF-18-CB	LDDF-18-SS	LDDF-18-CS	LDDF-18-ES
LDDF-24	18 to 24	461 to 610	LDDF-24-SP	LDDF-24-CB	LDDF-24-SS	LDDF-24-CS	LDDF-24-ES
LDDF-30	24 to 30	611 to 760	LDDF-30-SP	LDDF-30-CB	LDDF-30-SS	LDDF-30-CS	LDDF-30-ES
LDDF-36	30 to 36	761 to 915	LDDF-36-SP	LDDF-36-CB	LDDF-36-SS	LDDF-36-CS	LDDF-36-ES
LDDF-42	36 to 42	916 to 1070	LDDF-42-SP	LDDF-42-CB	LDDF-42-SS	LDDF-42-CS	LDDF-42-ES
LDDF-48	42 to 48	1071 to 1220	LDDF-48-SP	LDDF-48-CB	LDDF-48-SS	LDDF-48-CS	LDDF-48-ES
LDDF-54	48 to 54	1221 to 1370	LDDF-54-SP	LDDF-54-CB	LDDF-54-SS	LDDF-54-CS	LDDF-54-ES
LDDF-60	54 to 60	1371 to 1525	LDDF-60-SP	LDDF-60-CB	LDDF-60-SS	LDDF-60-CS	LDDF-60-ES

Standard LDDF frame clearance is .75". Optional clearance of 1.25, 1.75 Specify FC125, FC175.

 LDDF gages are available with a choice of any of Dorsey's "High Amplification", "Traditional", digital indicators or less indicator.





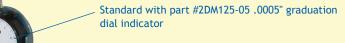
DLTA - ID/OD LEVER TRANSFER ADJUSTABLE FRAME

The LDLT series gage uses 1:1 ratio lever principle. This method of motion transfer is used in conditions of limited accessibility such as face grooves. This low friction transfer is also ideal for checking shallow angles at specified depths without incuring binding in the transfer.



Optional perpendicular indicator unit

Optional reverse action lever shown



For gage less indicator, add "-NI" to the end of the part #

*Note: Gage pictured below is an LDLTA-18-CB-RL-01 with carbide ball contacts and reverse action lever, optional high amplification dial indicator part #219-01



D. DT //		INCH	METRIC (mm)	CARBIDE BALL	CARBIDE HALF BALL
PART #	TYPE	RANGE	RANGE	СВ	НВ
LDLTA-12	Adjustable	6 to 12	150 to 300	LDLTA-12-CB	LDLTA-12-HB
LDLTF-12	Fixed	6 to 12	150 to 300	LDLTA-12-CB	LDLTA-12-HB
LDLTA-18	Adjustable	12 to 18	461 to 610	LDLTA-18-CB	LDLTA-18-HB
LDLTF-18	Fixed	12 to 18	461 to 610	LDLTA-18-CB	LDLTA-18-HB
LDLTA-24	Adjustable	18 to 24	461 to 610	LDLTA-24-CB	LDLTA-24-HB
LDLTF-24	Fixed	18 to 24	461 to 610	LDLTA-24-CB	LDLTA-24-HB
LDLTA-30	Adjustable	24 to 30	611 to 760	LDLTA-30-CB	LDLTA-30-HB
LDLTF-30	Fixed	24 to 30	611 to 760	LDLTA-30-CB	LDLTA-30-HB
LDLTA-36	Adjustable	30 to 36	761 to 915	LDLTA-36-CB	LDLTA-36-HB
LDLTF-36	Fixed	30 to 36	761 to 915	LDLTA-36-CB	LDLTA-36-HB
LDLTA-42	Adjustable	36 to 42	916 to 1070	LDLTA-42-CB	LDLTA-42-HB
LDLTF-42	Fixed	36 to 42	916 to 1070	LDLTF-42-CB	LDLTF-42-HB
LDLTA-48	Adjustable	42 to 48	1071 to 1220	LDLTA-48-CB	LDLTA-48-HB
LDLTF-48	Adjustable	42 to 48	1071 to 1220	LDLTA-48-CB	LDLTA-48-HB
LDLTA-54	Fixed	48 to 54	1221 to 1370	LDLTA-54-CB	LDLTA-54-HB
LDLTF-54	Adjustable	48 to 54	1221 to 1370	LDLTA-54-CB	LDLTA-54-HB
LDLTA-60	Fixed	54 to 60	1371 to 1525	LDLTA-60-CB	LDLTA-60-HB
LDLTF-60	Adjustable	54 to 60	1371 to 1525	LDLTA-60-CB	LDLTA-60-HB



- To order large diameter gages, specify Model Number - Frame Size - Contact Type - Gaging Depth - Other Options.
- Standard gaging depth range is 0-2". Optional gaging depth of 3", 4" or 5" is available. Specify GD3, GD4 or GD5 to the part # (and use SMVA) setmaster).
- Standard frame clearance is 1.25". Contact us for a quotation if additional clearance is required.
- Rest options: to order roller rests, add "-RR" to the part #, extended shovel rests "-ESR", spring loaded rests "-SLR", double depth rests "-DDR", stradle rests "-SRR".
- Reverse action lever, add "-RL" to part #.
- LDLTA and LDLTF gages are available with a choice of any of Dorsey's "High Amplification", "Traditional", digital indicators or less indicator.

TF SERIES - LEVER TRANSFER ADJUSTABLE

LDLTF Series gages includes all the same features as the LDLTA shown above except both cast end blocks are rigidly bolted and pinned in place. This makes the LDLTF Series more rigid for tighter tolerances and lighter weight than LDLTA.

*Note: Gage pictured below is an LDLTF-12-CB-HRL-01 with carbide ball contacts, optional heavy duty reverse reference head, and high amplification dial indicator part #2I50-01

frame configurations used to clear obstructions

To order the LDLTF Series follow the instructions listed above, but specify LDLTF instead of the LDLTA. Standard LDLTF frame clearance is .75". Optional clearance of 1.25, 1.75. Specify FC125, FC175 to the part #.

Heavy duty reverse reference head (for LDLTF only), add HRL to part #.



companion setmasters



LBBS SERIES- BALL BUSHING SLIDE MECHANISM

LBBS series gages use a precision ball bushing slide mechanism for applications where retraction is required beyond the range of the indicator. The movement is light, sensitive and accurate while free of any side play. Ideal for applications to bypass obstructions, inspect grooves, contours, recesses or retraction over the major diameter of a reverse taper. Models are available in fixed or adjustable frame designs.



	INCH	METRIC (mm)
PART #	RANGE	RANGE
LBBS-A-18/LBBS-F-18	Up to 18	301 to 460
LBBS-A-24/LBBS-F-24	18 to 24	461 to 610
LBBS-A-30/LBBS-F-30	24 to 30	611 to 760
LBBS-A-36/LBBS-F-36	30 to 36	761 to 915
LBBS-A-42/LBBS-F-42	36 to 42	916 to 1070
LBBS-A-48/LBBS-F-48	42 to 48	1071 to 1220
LBBS-A-54/LBBS-F-54	48 to 54	1221 to 1370
LBBS-A-60/LBBS-F-60	54 to 60	1371 to 1525
II. L. O. I.		



LBBS gages are available with a choice of any of Dorsey's "High Amplification", "Traditional", digital indicators or less indicator. For gage less indicator, add "-NI" to the end of the part #.

How to Order:

- #1- Select Frame Type: Fixed (LBBS-F) or Adjustable (LBBS-A)
- #2- Select Frame Size Range: (i.e.: Within 18-24 range = -24, or 30-36 range = -36
- #3- Select the Contact Required: -SP=Steel Pin, -CB=Carbide Ball, -SS=Steel Shovel and -CS=Carbide Shovel contacts, -HCC=Honeycomb contacts or -OWR=One way radius contacs
- #4- Select any Rest Configuration Option: -RR for Roller Rests, -ESR for Extended Shovel Rests, -SLR for Spring Loaded Rests, -DDR for Double Depth Rests, -SRR for Straddle Reference Rest
- #5- Select the Readout Required: -01 for .0001" graduation dial indicator, -05 for .0005" graduation dial indicator, -10 for .001" graduation dial indicator, -.002mm for 0.002mm graduation dial indicator, -.01mm for 0.01mm graduation dial indicator, -DI for Digital Indicator of -NI for No Dial Indicator or Readout
- #6- Specify any Frame Clearance Option: (If other than standard dimensions) Frame Clearance for LBBS-A, Adjustable Series = 1.25", Frame Clearance for LBBS-F, Fixed Series = .75" Specify any optional Frame Clearance as follows:
 -FC150 for 1.5" Clearance, -FC200 for 2" Frame Clearance, etc.
- #7- Specify any gaging depth option: (If other than standard dimensions) the standard gage depth for LBBS-A, Adjustable Series = 0-2", the standard gage depth for LBBS-F, Fixed Series = 0-1" Specify any optional gage depth as follows: GD3 = 3" gage depth, GH.5 = 1/2" gage height
- *An Example is: Model LBBS-F-18-CB-RR-01-FC100-GD2 specifies: A fixed model LBBS movement gage, to check up to 18" in diameter, roller rests, carbide ball contacts, .0001" graduation dial indicator, 1" frame clearance and 1-2" gaging depth.

 Proudly made in the USA

LDAR-6 - MIDGET REED

This economical, heavy duty production gage features a rigid steel plate frame and our bullet proof reed spring gaging transfer. The LDAR mechanism is impervious to coolants, dirt and contaminants and offers great repeatability.

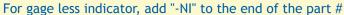


0 - .5 gag



*Note: Gage pictured is LDAR-8-NI with an optional .0001" graduation dial indicator part #2I50-01

PART #	INCH	METRIC (mm)	STEEL DISC	CARBIDE DISC	
	RANGE	RANGE	SD	CD	
LDAR-6	2" - 6"	50 - 150mm	LDAR-6-SD	LDAR-6-CD	
LDAR-8	2" - 8" 50 - 200mm		LDAR-8-SD	LDAR-8-CD	
7062	.437 Diameter Steel Conical Disc Contact				
7062C	.50	00 Diameter Carbido	e Conical Disc Cor	itact	



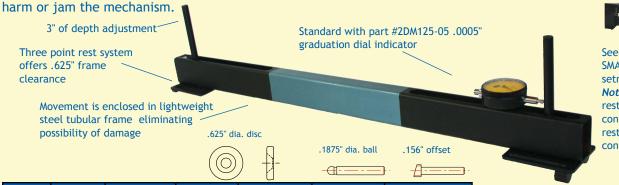


See page D-14 for SMRA series companion setmasters or ring/disc masters made to order Note: minimum OD setting on SMRA is 4", specify .50" wide restrictor.

Available with a choice of any of Dorsey's "High Amplification" or "Traditional" dial indicators.

LDAR SERIES

LDAR gages feature a lightweight tubular steel frame with a reed pantograph movement. The pantograph movement utilizes parallel springs to transfer motion and is well suited to production applications as dust, dirt or coolant cannot



See page D-14 for SMA series companion setmasters **Note:** specify .18" restrictor for CB or CS contacts, specify .62" restrictor for SD and CD contacts

	INCH	METRIC (mm)	STEEL DISC	CARBIDE DISC	CARBIDE BALL	CARBIDE SHOVEL
PART #	RANGE	RANGE	SD	CD	СВ	CS
LDAR-12	6 to 12	150 to 300	LDAR-12-SD	LDAR-12-CD	LDAR-12-SB	LDAR-12-CS
LDAR-18	12 to 18	301 to 460	LDAR-18-SD	LDAR-18-CD	LDAR-18-SB	LDAR-18-CS
LDAR-24	18 to 24	461 to 610	LDAR-24-SD	LDAR-24-CD	LDAR-24-SB	LDAR-24-CS
LDAR-30	24 to 30	611 to 760	LDAR-30-S	LDAR-30-CD	LDAR-30-SB	LDAR-30-CS
LDAR-36	30 to 36	761 to 915	LDAR-36-SD	LDAR-36-CD	LDAR-36-SB	LDAR-36-CS
LDAR-42	36 to 42	916 to 1070	LDAR-42-SD	LDAR-42-CD	LDAR-42-SB	LDAR-42-CS
LDAR-48	42 to 48	1071 to 1220	LDAR-48-SD	LDAR-48-CD	LDAR-48-SB	LDAR-48-CS
LDAR-54	48 to 54	1221 to 1370	LDAR-54-SD	LDAR-54-CD	LDAR-54-SB	LDAR-54-CS
LDAR-60	54 to 60	1371 to 1525	LDAR-60-SD	LDAR-60-CD	LDAR-60-SB	LDAR-60-CS

To order this large diameter gages, specify:

Model Number - Frame Size - Contact Type.

■ LDAR gages are available with a choice of any of Dorsey's "High Amplification", "Traditional", digital indicators or less indicator.

Note: Contact #7534B and #7534S require two perpendicular contact gaging shafts part #7011

For gage less indicator, add "-NI" to the end of the part #

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Dorsey Metrology InternationalWebsite: www.dorseymetrology.com

Tel: (845) 454-3111 Fax: (845) 454-3888 53 Oakley Street, Poughkeepsie, NY 12601

LDR SERIES- ULTRA LIGHT WEIGHT FRAME WITH REED MOVEMENT

The LDR Series gage uses a lightweight stainless steel tubular frame and a reed pantograph movement. This pantograph movement utilizes parallel reed springs to transfer motion and is well suited to production applications as dust, dirt or coolant cannot harm or jam the mechanism.

Frictionless reed pantograph motion transfer with +/-.050" gaging travel



*Note: Gage pictured below is an LDR-18-CB-01 with optional .0001" graduation dial indicator part #219-01

Carbide rest surfaces are offset 2" to resist tipping

Lightweight heat treated aerospace grade stainless steel tubing weighs only .817 lbs. per foot

Contacts feature 1" _____
vertical depth adjustment

Carbide ball contacts

	ID/OD INCH	ID/OD METRIC (mm)		
PART #	RANGE	RANGE		
LDR-12	4.5 to 12	115 to 305		
LDR-18	12 to 18	305 to 460		
LDR-24	18 to 24	460 to 610		
LDR-36	24 to 36	640 to 915		
LDR-48	36 to 48	915 to 1220		
LDR-60	48 to 60	1220 to 1525		
5557CB	.25" Dia. Carbide Ball Contacts (Each)			
5557HB	.25" Dia. Carbide Half Ball Contacts (Each)			

- Contact Choices: Carbide Ball (-CB) or Half Carbide Ball (-HCB).
- To order this large diameter gage, specify: Model Number - Frame Size - Contact Type example: LDR-12-CB-01.
- LDR gages are available with a choice of any of Dorsey's "High Amplification", "Traditional", digital indicators or less indicator.



See page D-14 for SMA series companion setmasters specify .25" wide restrictor

LDB SERIES- ULTRA LIGHTWEIGHT FRAME WITH BALL BUSHING

LDB series gages use a lightweight stainless steel tubular frame and a precision ball bushing slide mechanism. This gage can be switched from ID to OD and is designed to be used where a full inch of gaging travel, or retraction, is desired.

Standard with part #2DM1000-05
.0005" graduation dial indicator
Indicator housing
protects indicator
Carbide rest surfaces are
offset 2" to resist tipping
Full inch of gaging travel



Gaging shafts can be inverted to accomodate disc contacts or perpendicular style contacts

Carbide ball contacts

*Note: Gage pictured is LDB-14-CB-DI with an optional 1" travel digital indicator part #FV54520777

	וואכוו	ID/OD METRIC (IIIII)		
PART #	RANGE	RANGE		
LDB-14	6.5 to 14	165 to 355		
LDB-24	14 to 24	355 to 610		
LDB-36	24 to 36	640 to 915		
LDB-48	36 to 48	915 to 1220		
LDB-60	48 to 60	1220 to 1525		
7522	(3E" Dia Charl Dias Contact (Fach)			

 LDB-60
 48 to 60
 1220 to 1525

 7533
 .625" Dia. Steel Disc Contact (Each)

 7530
 .625" Dia. Carbide Disc Contact (Each)

 4082-B1875
 .1875" Dia. Carbide Ball Contacts (Each)

For gage less indicator, add -NI to the end of the part #

 Contact Choices: Steel Disc (-SD), Carbide Disc (-CD) or Carbide Ball (-CB).

■ LDB gages are available with a choice of any of Dorsey's "High Amplification", "Traditional", digital indicators or less indicator.

See page D-14 for SMA series companion setmasters *Note:* specify .18" restrictor for CB contacts, specify .62" restrictor for SD and CD contacts

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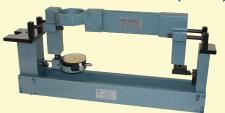




Special Frame Configurations

When using large diameter gages, the part configuration, tooling or fixturing can present obstacles that make part inspection impossible with standard frame gages. Below we have listed some typical frame configurations to help overcome these obstacles. Contact us for further details.

HUMP FRAME (-HF)



*Note: Gage pictured to the left is an LDDF-12-CB-HF-002MM $\,$ and the setmaster is SMF-12-GD6 $\,$

The gage shown here is a LDDF with a Hump frame design. This design can be used on the LDF, LDDF or the LDLTF to increase the rigidity of the vertical gaging shafts by extending the support castings up to 5.5" deeper. It is generally recommended to use this type of frame design if the gaging depth exceeds 6". Add "-HF" to the part # of the basic gage to select this option.

DONUT FRAME (-DF)



*Note: Gage pictured to the left is an LDF-24-DF-CB-01

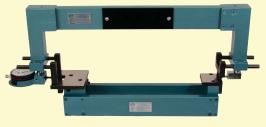
The gage shown here is a LDF with donut frame design. This design can be used on LDF, LDDF or LDLTF. The donut design permits the gage to completely encircle a large obstruction such as the part's hub, case, clamp or fixture setup. We offer standard castings with 7", 9" or 11" ID. Add "-DF7", "-DF9" or "-DF11" to the part # of the basic gage to select this option. Special size donut frames are also available. Prices are quoted upon request.

EXTENDED END BLOCK FRAME (-EEB)



Due to part configuration, it is sometimes necessary for the gage frame to rest internal or external to the check dimension. Holding fixtures used during the machining operations can introduce further restrictions that may require gages to rest on fixture pads located outside or inside the part.

BRIDGE FRAME (-BF)



*Note: Gage pictured to the left is an LDDF-18-BF-SP-01

The gage shown here is a LDDF with a bridge frame design. This design permits the gage frame to bridge over short center obstructions such as posts, clamps or raised contours. These castings extend and support gaging extension shafts in order to gain measuring rigidity. This raises the frame 2.75". Add "-BF" to the part # of the basic gage for this option.

"C" FRAME (-CF)



*Note: LDC Series gages are designed for a specific application. Contact us for specific details.

LDC series "C" frame gages are used for applications where the gage cannot be placed directly over the part. The frame is intended to partially encircle the part and is "side loaded" during use. The "C" frame can be made from contoured aluminum, a lightweight honeycomb composite or it can be a weldment depending on the requirements of the application. Cam style (LDF), lever style (LDLT) or direct read type (LDD) transfer mechanisms can be used on this frame. General measurements for standard configurations is as follows: 0-16" diameter, 16"-24" diameter, 24"-36" diameter. Contact the factory for details including pricing.

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DIAL PIN TYPE DIAL BORE

Pin type dial bore gages are an accurate, economical and versatile alternative to the ID micrometer. These gages do not reference or rest on a datum surface and are therefore ideally suited for applications such as ID splines, gears or threads.

How to order DS-B4 Pin gage assembly: select gage dial unit which includes gaging contacts, and then select spacer or adapter as required.

GAGE (INCLUDING DIAL UNIT AND GAGING CONTACTS)				
PART #	GRAD	RANGE		
DS-B4-2I9-01	.0001"	.009"		
DS-B4-2DM025-01	.0001"	.025"		
DS-B4-2I50-01	.0001"	.050"		
DS-B4-2I100-025	.00025"	.100"		
DS-B4-2I100-05	.005"	.100"		
DS-B4-2I40-05	.005"	.040"		
DS-B4-2I4-10	.001"	.040"		
DS-B4-S2I/M	.0001"/0.0025mm	.010"/.25mm		
DS-B4-2I02-002mm	0.002mm	0.2mm		
DS-B4-2I10-002mm	0.002mm	1.0mm		
DS-B4-2I25-005mm	0.005mm	2.5mm		
DS-B4-2I10-01mm	0.010mm	1.0mm		

DART #	CDA CED LENCTU	RANGE		E
PART #	SPACER LENGTH	INCHES	METRIC	
DS-B4-85140	Adapter	4.5 - 7	114 - 178	
DS-B4-81845	3"	7 - 10	178 - 254	
DS-B4-81849	6"	10 - 13	254 - 330	
DS-B4-81853	9"	13 - 16	330 -406	
DS-B4-81857	12"	16 - 19	406 - 483	
DS-B4-81861	15"	19 - 22	483 - 559	
DS-B4-81865	18"	22 - 25	559 - 635	
DS-B4-81869	21"	25 - 28	635 - 711	
DS-B4-81873	24"	28 - 31	711 - 787	
DS-B4-81877	27"	31 - 34	787 - 864	
DS-B4-81881	30"	34 - 37	864 - 940	
DS-B4-81885	33"	37 - 40	940 - 1016	
DS-B4-81886	Full Set	4.5 - 40	114 - 1016	

PMA Series adjustable setmaster

6" range and .50" fine adjustment



PIN GAGE MASTERS "PM SERIES"				
PART #	RANGE			
PARI#	INCHES	METRIC		
PM-6	6 - 12"	150 to 300		
PM-12	12 - 18"	300 to 450		
PM-18	18 - 24"	450 to 600		
PM-24	24 - 30"	600 to 750		
PM-30	30 - 36"	750 to 900		



*See page D-13 for further details of PR retractible pin gage.

RETRACTABLE PIN GAGE "PR SERIES"				
PR6	6 - 12"	150 to 300		
PR12	12 - 18"	300 to 450		
PR18	18 - 24"	450 to 600		
PR24	24 - 30"	600 to 750		
PR30	30 - 36"	750 to 900		

- Gage kits include .0005" graduation dial indicator.
- Ball contacts available to measure pitch diameters.
- Available as a complete set or as an individual gage with a 3" range of adjustment.
- DS-B4 series pin gages are available with a choice of any of Dorsey's #2 "High Amplification" dial indicator movements. See catalog page A-7 for dial selections.
- PR series pin gages are available with a choice of any of Dorsey's #2 "High Amplification" or "Traditional" dial indicators and digital indicators.

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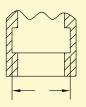
RETRACTABLE PIN GAGES

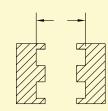
RETRACTABLE PIN GAGES

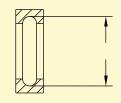
Adjustable inside diameter pin gages are used to check straight bores, grooves, spherical radiuses, and spline and gear pitch diameters. A variety of interchangeable threaded contacts allows the gage to be altered to suit the application. The gage utilizes the principle and portability of an inside micrometer with the accuracy, speed and total retraction of the dial indicator range. The displays can be balanced, continuous dial or digital indicators.

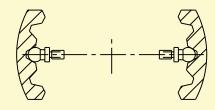


TYPICAL APPLICATIONS









Bore

Groove Diameter

Ball Race Radius Grooves

Pitch Diameter of Gears and Splines

SPECIAL RETRACTABLE PIN AND REST GAGES:

Retractable pin gages special designed to application for entry into hard to reach areas and for checking a variety measurement features. These gages require rests to locate on a datum face. In most cases, both the rest and movement require total retraction beyond the range of the readout to enter into recess areas such as; under flange faces, spool cavities or within deep grooves. These gages are used to check upper and lower "L" grooves, retaining grooves, and basic angular diameter from the datum surface, spherical radiuses and other configurations. Companion part simulating setting masters are also supplied upon request.



MA SERIES -ADJUSTABLE DIAMETER SETMASTER

SMA Series setmasters feature a precision ground steel rail as the rigid foundation for adjustability. These masters can be continuously reset for various dimensions or they can be set, sealed and pinned to a specific size.



To order setmasters, use:

Model Number - Rail Size - Gaging Depth - Restrictor Width - Other

For example: SMA-24-R25 is a setmaster with 18-24" of adjustment, with .25" wide restrictor.

Optional restrictors:

For .253" wide restrictor add R25 to part # (Used with LDR or other gages with .25" contacts).

For .628" wide restrictor add R62 to part # (Used with LDAR, LDB or other gages with .62" contacts).

- Reversible 2" long angular anvil and restrictor set for cone and inverted cone, specify "-AA" to part #.
- Roller rest guides for anvil rest plate, specify "-RR".
- Special anvil restrictor set for gage height, specify "-GH".
- Set and sealed to a specific size with NIST traceable certification, order part **#SETCERT.**
- Set and sealed to ISO 17025 compliant certification, order part #ISO17025. **NOTE:** Set and seal masters should be purchased with Fitted Storage Case.

Reference restrictor nests gage contact for setting alignment, .18" wide restrictor is standard

MODEL #	RANGE
SMA-12	6 to 12
SMA-18	12 to 18
SMA-24	18 to 24
SMA-30	24 to 30
SMA-36	30 to 36
SMA-42	36 to 42
SMA-48	42 to 48
SMA-54	48 to 54
SMA-60	54 to 60

SMRA SERIES SETMASTER



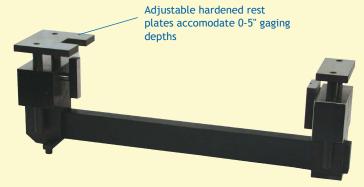
MODEL #	INCH	METRIC (mm)
	RANGE	RANGE
SMRA	4 to 12	100 to 300

This setmaster has the same features and capabilities as the SMA but accommodates 4-12" of overall diameter 0-1" depth adjustment to accommodate LDRA series gages.

MVA SERIES- ADJUSTABLE DIAMETER/DEPTH

SMVA setmasters offer the same features as the SMA Series setmasters except that they allow for vertical adjustment to accomodate various gaging depths.

D-14



*Note: Companion to LDVA or other adjustable gages with gaging depths between 0-5". Both SMA and SMVA Series are available with storage case. Add -CASE to part number.

MODEL#	RANGE
SMVA-12	6 to 12
SMVA-18	12 to 18
SMVA-24	18 to 24
SMVA-30	24 to 30
SMVA-36	30 to 36
SMVA-42	36 to 42
SMVA-48	42 to 48
SMVA-54	48 to 54
SMVA-60	54 to 60





SMF SERIES FIXED FRAME SETMASTERS

SMF Series setmasters are designed to be used in a production environment where a specific set size is required. These masters use solid steel rails with precision ground end blocks bolted and doweled in place. A hardened steel restrictor is fixed to one side, while the adjustable anvil features .50" of micrometer style fine adjustment. The anvil can be continuously reset within its .5" range for various dimensions or it can be set, sealed and pinned to a specific size.



MODEL #	RANGE
SMF-12	0 to 12
SMF-18	12 to 18
SMF-24	18 to 24
SMF-30	24 to 30
SMF-36	30 to 36
SMF-42	36 to 42
SMF-48	42 to 48
SMF-54	48 to 54
SMF-60	54 to 60

To order setmasters, use:

Model Number - Rail Size - Gaging Depth - Restrictor Width - Other Options For example: SMF-24-GD2-R25 is a setmaster with 18-24" of adjustment, 1-2"gaging depth, and .25" wide restrictor.

Optional restrictors:

For .253" wide restrictor add R25 to part # (Used with LDR or other gages with .25" contacts).

For .628" wide restrictor add R62 to part # (Used with LDAR, LDB or other gages with .62" contacts).

- Angular anvil and restrictor set, 1" long for cone or inverted cone, specify "-ARS".
- Intermediate rest surfaces, add "-IRS".
- Special anvil and restrictor for gage height more than .5", specify "-GH".
- Roller rest guides for anvil rest plate, specify "-RR".
- Set and sealed to a specific size with NIST traceable certification, order part #SETCERT
- Set and sealed to ISO 17025 compliant certification, order part #ISO17025.
- Set, sealed and pinned to size with ISO 17025 compliant certification, order part SETPINNED-ISO17025.

NOTE: Set and seal masters should be purchased with Fitted Storage Case.

SMF-CF SERIES SETMASTER



Outrigger assembly for SMF or SSM series masters, add "-C" to the part # (ex: SMF-12-CF)

VERTICAL SETMASTER STANDS

Recommended if gage is used in vertical position







Part# 4395-A (used on SMA) Part# 4395 (used on SSM) Up to 36"

SSM SERIES SOLID FRAME SETMASTER

Solid setmasters are ground to a specific fixed size and are not adjustable. This setmaster is recommended for close tolerances and dedicated gages. The base can be made from tubular or solid steel, cast iron or aluminum to better match the coefficient of thermal expansion of the part being machined. Anvils made from either hardened steel or carbide are available in a flat and parallel configuration or angular configuration.



Setting options:

- Set and sealed to a specific size with NIST traceable certification, order part #SETCERT.
- Set and sealed to ISO 17025 compliant certification, order part #ISO17025.

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ULTRA LARGE DIAMETER GAGES

Gaging used for solving your largest, accuracy measurement problems!

This "ultra large diameter gage and setting master series" was developed to measure part sizes beyond those of the Dorsey Metrology traditional large diameter gage family. The ultra large series measures large parts in the range from 60", 1500mm to 240", 6000mm. These instruments are designed to be accurate, rigid, stable, lightweight and durable.



Dorsey has built a reputation as a leader in the field of large component measurement. Our experience brings together the largest selection of precise linear measurement movements, frame configurations, materials, contact point shapes, rest designs and other accessories; all with the knowledge of how to apply them to any large part inspection requirement. With our modular design, it is possible to solve the inspection of almost any part configuration such as; inside/outside diameters, I.D./O.D. grooves, bearing raceways, conical and angular shapes. Applications for these instruments include inspection of large elements used in generators, turbines: aircraft engine housings, windmill parts, large bearings, large gears, large shaft lengths and ship building appartus.







Ultra Large Diameter Gages



ADJUSTABLE INSIDE/OUTSIDE PITCH DIAMETER GAGE



ADJUSTABLE ID/OD DIAMETER



INTERNAL BEARING RACEWAY GAGE

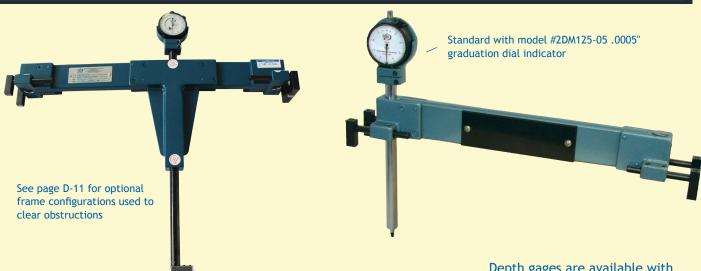


SETTING MASTER





DDG SERIES - DEPTH/HEIGHT GAGE



Dorsey DDG style Depth or Height gages are used to measure distances from one surface to another or from one surface to a machine/tool fixture. They are generally designed for a specific application. Depth units can be lever transfer type or direct reading. Gaging travel resolutions are per application requirements.

PART #	INCH	METRIC (mm)
	RANGE	RANGE
DDG-12	6 to 12	150 to 300
DDG-18	12 to 18	301 to 460
DDG-24	18 to 24	461 to 610
DDG-30	24 to 30	611 to 760
DDG-36	30 to 36	761 to 915
DDG-42	36 to 42	916 to 1070
DDG-48	42 to 48	1071 to 1220
DDG-54	48 to 54	1221 to 1370
DDG-60	54 to 60	1371 to 1525

Depth gages are available with a choice of any of Dorsey's "High Amplification", "Traditional" or digital indicators.



Optional perpendicular indicator unit

■ To order this large diameter gage, use:

Model Number - Frame Size - Contact Type - Gaging depth - Other Options
or supply part print for Dorsey quotation.

DDGM SETMASTER

DDGM setmasters is the companion to DDG series depth gages. They feature solid steel precision ground base, hardened rest plates and .25" of adjustment.



MODEL #	DIAMETER RANGE
DDGM-12	0 to 12
DDGM-18	12 to 18
DDGM-24	18 to 24
DDGM-30	24 to 30
DDGM-36	30 to 36
DDGM-42	36 to 42
DDGM-48	42 to 48
DDGM-54	48 to 54
DDGM-60	54 to 60



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MDG Series - Modular Depth Gages

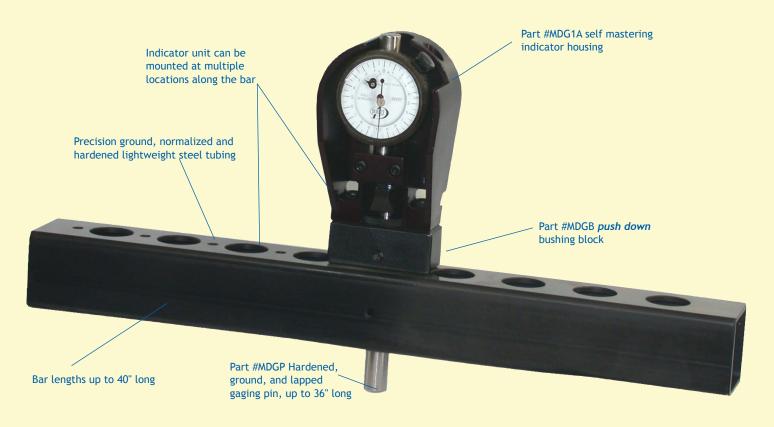
The MDG series of modular indicating depth gages are available as fixed or adjustable models. This versatile design allows the mixing and matching of components to build a gage which can suit any application. Designed to replace many dedicated flush pin gages, these gages feature a unique self mastering mechanism further eliminating the requirement for a setmaster. Offset contact can be used to check groove depths or locations.

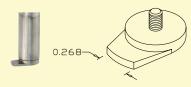
FEATURES

- Modular design offers maximum versatality.
- 2 frame styles suit any application.
- Light weight or heavy duty tube.
- Self mastering adjustable and fixed models.
- A single gage can replace many flush pin gages.
- Accomodates ANSI AGD #1, #2 dial or digital indicators.
- Precision ground stress relieved and hardened frames and pins.
- Indicator is sold separately.

To order MDG series depth gages:

- 1. Specify frame part # / bar length.
- 2. Specify pin length by solid pin part # or threaded pin part #.
- 3. Specify choice of indicator housing: #1 or #2 adjustable self-mastering housing pull down, #1 or #2 adjustable self-mastering housing pull up, #1 or #2 fixed series self-mastering housing.
- 4. Add desired options: extended rest sets, reversible thread-in contact, choice of any #2 "High Amplification", #1 or #2 "Traditional" dial indicators or digital indicator.





Part #5616 offset rest foot

Proudly made in the USA



OG Series -MODULAR DEPTH GAGE

1.5" x 1.5" Lightweight tube 2.1 lbs per ft.

MAX GAGING DEPTH

2"

4"

6"

10"

12'

16'

20"

24"

30"

36"



1.5" x 1.5" Heavy Duty tube 3.5 lbs per ft.



	LIGHTWEIGHT FRAME	HEAVY DUTY FRAME
BAR LENGTH	PART #	PART #
13.25"	MDGLT13	MDGHT13
15.75"	MDGLT15	MDGHT15
18.38"	MDGLT18	MDGHT18
21"	MDGLT21	MDGHT21
26.25"	MDGLT30	MDGHT30
31.50"	MDGLT40	MDGHT40
39.36"	MDGLT47	MDGHT47
47.23"	MDGLT49	MDGHT49





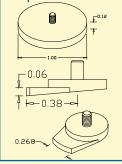
SOLID PIN PART # MDGP2 MDGP4 MDGP4 MDGP10 MDGP12 MDGP16 MDGP20 MDGP24 MDGP30

MDGP36

THREADED PIN PART #
MDGPT2
MDGPT4
MDGPT6
MDGPT10
MDGPT12
MDGPT16
MDGPT20
MDGPT24
MDGPT30
MDGPT36

REVERSIBLE THREAD IN CONTACT

Requires MGPT series threaded pin



PART #	DESCRIPTION	
5615	1" Disc Contact	
5616	.75" Reversible Contact	
See page A20 for additional contacts		

INDICATOR HOUSING ASSEMBLIES

PIN LENGTH

5.5"

7 5"

9.5"

13.5"

15.5"

19.5"

23.5"

27.5"

33.5"

39.5"

Adjustable self mastering indicator housing assembly push down (Indicator not included) AGD 1 Part #MDGPD1 AGD 2 Part #MDGPD2



Adjustable self mastering indicator housing asembly push up (Indicator not included) AGD 1 Part #MDGPU1



Fixed series self mastering indicator housing assembly for AGD # 1, #2 or digital indicators (Indicator not included) Part #MDGF







ROTO ROUND CONCENTRICITY FIXTURE

The rotoround is an adjustable fixture used to check concentricities, runout and/or TIR of one or more surfaces to a basic diameter. Three precision bearings set the primary datum plane and support the weight of the part while 2 roller bearings mounted on the angled base define the circular datum. Indicators then contact the part as it is being rotated to determine various parameters.



PART# CPF

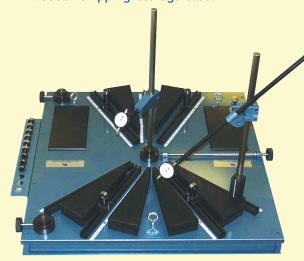
For parts 1-5" (25mm-130mm) in diameter. Fixture includes:

- .0001" grad. large format double dial test indicator.
- .00005" grad. large format double dial test indicator.
- Two sets of adjustable load bearings (3 each).
- Two sets of banking bearings (2 each) bearing number 9028 .25" OD x .12" thick bearing number 2426 .312" OD x .12" thick.
- 15 degree angled base plate.
- Tool set with holder .
- Wooden storage box.

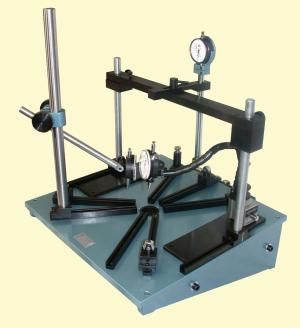
PART# CPF-1

For parts 3-12" (75mm-300mm) in diameter with maximum weight of 150 lbs. (70Kg.). Fixture includes:

- One .0005" grad. AGD group 2 dial indicator.
- Two .0001" grad. AGD group 2 dial indicator.
- One magnetic base stand.
- One indicating unit with right angle transfer.
- One adjustable height stand.
- Three sets of adjustable load bearings in .50" increments (3 each) bearing number 9020 .866 OD x .406" thick.
- One set of banking bearings (2 each) bearing number 9018 .75" OD x
 .281" thick.
- 15 degree angled base plate with adjustable bridge gantry.
- Tool set with holder.
- Wooden shipping/storage case.



Dorsey also manufactures a line of portable concentricity fixtures for use if your part cannot be placed on a CPF fixture. Contact us for details.



Part# CPF-2

For parts 10-30" (250mm-760mm) in diameter with maximum weight up to 1000 lbs. (450Kg.). Fixture includes:

- Two .0005" grad. AGD group 2 dial indicator.
- One magnetic base stand.
- One adjustable pole stand.
- Three sets of adjustable load bearings in .50" increments (3 each).
- One set of banking bearings (2 each) bearing number 9029 1.10"
 OD x .562" thick.
- 15 degree angled base plate.
- Tool set with holder.
- Wooden shipping/storage crate.

PART# P-CPF-33824

As described in Pratt & Whitney overhaul manual, similar to CPF-2 but features:

- Canted base.
- Rubber bumpers.
- Special bearing set.
- Additional post location.



Proudly made in the USA



ABBREVIATIONS FOR OPTIONS

DESCRIPTION				
AA	Angular Anvil, SMF or SSM			
ARS	Angular Anvil Reversable, SMA or SMVA			
BF	Bridge Frame, Gage			
СВ	Carbide Ball Contact, Gage			
CD	Carbide Disc .50" or .62 Dia., Gage			
CF	C Frame, Gage			
CF	C Frame Outrigger, Set Master			
CS	Carbide Shovel Contact, Gage			
DF-11	Donut Frame, 11" ID			
DF-7	Donut Frame, 7" ID			
DF-9	Donut Frame, 9" ID			
DFS	Donut Frame, Special			
ES	Extended Shovel, Carbide, Gage			
FC	Frame Clearance, Adjustable Gage			
FC125	Frame Clearance 1.25", Fixed Gage			
FC175	Frame Clearance 1.75", Fixed Gage			
GC025	Gaging Contact Travel .025"			
GC050	Gaging Contact Travel .050"			
DDR	Double Depth Rest			

DESCRIPTION				
GC075	Gaging Contact Travel .075"			
GD3	Gaging Depth 3", Gage			
GD4	Gaging Depth 4", Gage			
GD5	Gaging Depth 5", Gage			
GH	Gaging Height .5", Set Master			
GH5	Gaging Height .5", Set Master			
НСВ	Half Carbide Ball, Gage			
HF	Hump Frame, Gage			
HRL	Heavy Duty Reverse Reference Head, LDLTF			
IRS	Intermediate Rest Surfaces, Set Master			
NI	No Indicator, Gage			
R25	Restrictor Width .25", Set Master			
R62	Restrictor Width .62", Set Master			
RL	Reverse Action Lever			
RR	Roller Rests			
SD	Steel Disc .44" or .62" Dia.			
SP	Steel Pin Contact, Gage			

REPLACEMENT CONTACTS

CONTACTS	PART #	MATERIAL	CONTACTS	PART #	MATERIAL	CONTACTS	PART #	MATERIAL
Pin (Reference)	4060-P	Steel	.250" Dia. Ball (Gaging)			LDAR 6.50" Dia. Contact Disc	DX5-70943	Steel
	4060-PC	Carbide		4030-250-В	Carbide		7062-C	Carbide
Pin (Gaging)	4030-P	Steel	Shovel (Reference)	4060-S	Steel	LDAR .63" Dia. Disc	7533	Steel
	4030-PC	Carbide		4060-SC	Carbide		7534	Carbide
One Way Radius (Reference)	4060-OWR-S	Steel	Shovel (Gaging)	4030-S	Steel	LDAR Pin		
	4060-OWR-C	Carbide		4030-SC	Carbide		7534-P	Steel
One Way Radius (Gaging)	4030-OWR-S	Steel	Extended Shovel (Reference)			LDAR Shovel	7534-S	Steel
	4030-OWR-C	Carbide		4060-ES	Carbide		7534-SC	Carbide
.187" Dia. Ball (Reference)	4060-187-B	Carbide	Extended Shovel (Gaging)	4030-ES	Carbide	LDAR .187" Dia. Ball	7534-187B	Carbide
.187" Dia. Ball (Gaging)	4030-187-B	Carbide	Threaded (Reference)	4060-M	Steel	Thread in Ball Contact	4082-187B	Steel
.250" Dia. Ball (Reference)	4060-250-B	Carbide	Threaded (Gage)	4030-M	Steel			88888





DISCOVER THE DORSEY DIFFERENCE!



In the optical field, Dorsey is one of the few remaining domestically manufactured optical comparator product lines. Dorsey happily acknowledges that we have learned from our customers that quality and attention to detail does matter. Dorsey optical comparators are manufactured on the foundation of rigidity and accuracy. We manufacture both horizontal and vertical comparators from 14" up to 32" screen sizes with choices of table travel and weight capacity. Standard features include cast iron, nickel coated stages, linear cross roller bearings in all axis, helix adjustment, internal edge detection and a variety of readouts from simple X-Y to motorized and complete CNC format. While Dorsey is not currently the most well-known comparator brand, when customers compare our models, feature for feature, to the competition, most realize that our comparators are simply the best!



For the full Optical Division catalog, contact your Dorsey Representative, call 1-800-549-GAGE or visit

www.dorseymetrology.com



ABOUT OUR COMPANY

The precision gage making legacy of Dorsey Gage Company founded in 1955 by Theodore F. Luty Sr., continues in the third generation as Dorsey Metrology International. We are committed to excellence in every aspect of our organization from outstanding customer relations to the highest quality product, service and support. The privilege of allowing Dorsey to service your company and win your good will is our most effective advertisement and proudest

As further commitment to the quality of our products and services to our customers, Dorsey Metrology Calibration Laboratory was formed in 2010. The laboratory was accredited by A2LA on October 14, 2010 to ISO 17025 General Requirements for the Competence of Testing and Calibration. Having this accreditation has allowed Dorsey to remain highly competitive in the ever-changing manufacturing sector and encourages even further confidence in the quality of our products.

Dorsey management has planned a strategy for expansion. We have purchased additional space to increase our manufacturing capacity and allow the purchase of additional equipment. The key to this growth

will be achieved with a professional marketing plan and expanding our marketing presence by increasing our direct sales and distribution network globally. This expansion also includes, increasing our corporate efficiency, engineering, assembly capacity and product development.

Dorsey is proud of its diverse assortment of precision handheld and bench top dimensional measurement instruments. In addition to the Dorsey / Standard dial bore gages and snap gages that are the benchmark for gage inspection in America, all our products are designed with features that make them superior to the competition. Any of these instruments can be used with the Dorsey family of "High Amplification" and "Traditional" dial indicators or digital indicating devices.

Dorsey also continues to build its reputation as a leader in the field of large component dimensional measurement. Dorsey's expertise brings together the largest selection of measurement movements, frame configurations, sizes, materials, contact points, rests and accessories: all with the knowledge of how to apply them to any large part inspection requirement.

In the optical field, Dorsey is one of the few remaining domestically manufactured optical comparator product lines. Dorsey optical

comparators are manufactured on the foundation of rigidity and accuracy. Dorsey has tightened manufacturing tolerances to maintain uncompensated absolute inherent accuracy.

achievement.

As you review our catalogs, vou will see we address a wide range of measurement applications, many with alternative approaches to achieve the same purpose, as well as unique items not available elsewhere. As an organization we value our reputation as a problem solver. In addition to providing these

Dorsey Metrology International

be of service by suggesting gages for any application,

standard or special. To take advantage of our service, simply forward a part print with the dimensions that you wish to check, circled. We will return a quotation listing the gages we suggest for these applications.

As we look to the future, we will continuously improve and develop our products to help our company and our customers remain competitive and successful. "Let Dorsey be Your Precision Problem Solver".





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