



J.W. DONCHIN CO. • 4841-43 W. Chicago Ave • Chicago, IL 60651-3224  
 Ph: 773-261-2182 • Fax: 773-261-2867 • [sales@jwdonchin.com](mailto:sales@jwdonchin.com) • [www.jwdonchin.com](http://www.jwdonchin.com)

### Depth Micrometers

PG	DESCRIPTION	SERIES	RANGE
93	Introduction		
94	Electronic Micrometer Depth Gage (with output)	No. 749	0-12" (0-300mm)
95	Digital Micrometer Depth Gages	No. 446 Series	0-6"
95	Digital Micrometer Depth Gages	No. 446M Series	0-150mm
96	Micrometer Depth Gages with non-rotating blades	No. 449 Series	0-6"
96	Micrometer Depth Gages with non-rotating blades	No. 449M Series	0-150mm
97	Depth Micrometers	No. 440 Series	0-9 "
97	Depth Micrometers	No. 440M Series	0-225mm
97	Depth Micrometers	No. 445 Series	0-12"
97	Depth Micrometers	No. 445M Series	0-225mm
98	Micrometer Depth Gages with half base	No. 443 Series	0-9"



The following pages show our varied line of depth micrometers. These are available with base lengths from 2-1/2-6" (63.5-150mm) and can measure depths up to 9" (225mm). They are available in electronic, mechanical digital and regular readouts.

They are also available with rotating or non-rotating blades.

The purpose of these tools is to measure the depth of holes, slots, shoulders and projections quickly and easily to .001" or 0.01mm. All heads used in our depth micrometers are accurate to  $\pm 0.0001$ " or  $\pm 0.002$ mm.

Unless otherwise noted under the individual tools, they all have these features:

- ◆ A base shape design that will automatically position the fingers so that the base is easily held in place for measuring stability
- ◆ All precision screws are ground and lapped
- ◆ All bases and rods are hardened, ground, and lapped for permanent accuracy
- ◆ All reading surfaces have a satin chrome finish that resists rust and provides a no-glare background for the sharp lines and figures
- ◆ All measuring rods are adjustable
- ◆ Quick and easy adjustment
- ◆ Starrett workmanship





## Electronic Micrometer Depth Gage (with output)

### No. 749 0-12" (0-300mm)

The Starrett No. 749 electronic depth micrometer has a wide 0-6" (0-150mm) range for measuring the depth of most holes, slots, shoulders and projections. The 4" (100mm) base is hardened, ground, and lapped for long-lasting precision.

#### Readability Features

- ◆ Large, right-sized, high-contrast LCD digital readout
- ◆ Resolution – .0001" (0.001mm)
- ◆ Inch or millimeter graduations standard
- ◆ No-glare black wrinkle finish frame
- ◆ No-glare satin chrome finish on thimble and sleeve

#### Ease-of-Handling Features

- ◆ Ring-type knurled lock nut
- ◆ Combination ratchet and speeder

#### Accuracy and Long-Life Features

- ◆ Ground and lapped one-piece spindle
- ◆ Base length 4" (100mm); rod diameter 5/32" (4mm); all measuring rods are adjustable
- ◆ Starrett designed electronic microprocessor
- ◆ One 3-volt battery furnished with over one year's normal usage
- ◆ Automatic OFF after 30 minutes of nonuse
- ◆ Starrett workmanship

#### Full-Function Action Features

- ◆ Instant inch/millimeter conversion
- ◆ "ME" millimeter model will turn on in the millimeter mode after installation of a new battery
- ◆ Measurement HOLD button
- ◆ Ability to zero tool at any position
- ◆ Ability to retain and return to the true zero reading of the micrometer
- ◆ PRESET button to install any reading at any position
- ◆ Ability to install minimum and maximum limits
- ◆ Output data to Starrett SPC Plus® hardware and software and to PCs
- ◆ Works well with Starrett DataSure® Wireless Data Collection Systems

Furnished in a protective case. Packed one per box with instructions.



#### With Standard Inch Graduations on Shell and Thimble

Catalog No.	EDP No.	Description
749BZ-6RL	65063	0-6"/0-150mm Range, with Case
749BZ-12RL	68854	0-12"/0-300mm Range, with Case

#### With Standard Millimeter Graduations on Shell and Thimble

749MEBZ-150	66124	0-150mm/0-6" Range, with Case
749MEBZ-300	68855	0-300mm/0-12" Range, with Case

#### Rods Only

Inch	Part No.	EDP No.	Millimeter	Part No.	EDP No.
0-1"	PT99486	72493	0-25mm	PT99143	66331
1-2"	PT99487	72494	25-50mm	PT99183	66332
2-3"	PT99488	72495	50-75mm	PT99190	66333
3-4"	PT99489	72496	75-100mm	PT99266	66334
4-5"	PT99490	72497	100-125mm	PT99267	66335
5-6"	PT99491	72498	125-150mm	PT99268	66336
6-7"	PT99457	11626	150-175mm	PT99531	11632
7-8"	PT99458	11627	175-200mm	PT99532	11633
8-9"	PT99459	11628	200-225mm	PT99533	11634
9-10"	PT99460	11629	225-250mm	PT99534	11635
10-11"	PT99461	11630	250-275mm	PT99535	11636
11-12"	PT99462	11631	275-300mm	PT99536	11637

#### Cable Information

Part No.	EDP No.	Description
PT61963	66636	Computer Interface Cable Complete to PC (RS232C)
PT61768	66454	Adaptor from No. PT22938 Cable to PC (RS232C)
PT22938	64059	Shielded Cable to Nos. 761/772 Series Starrett Modules and No. PT61768 Adaptor
PT61120	65446	One 3-Volt Battery No. CR2450



### Digital Micrometer Depth Gages

**No. 446 Series 0-6"**

**No. 446M Series  
0-150mm**

These are the Starrett mechanical digital depth micrometers – simple to use even by the inexperienced. Besides those listed on the lead page of this section, this tool has these additional features:

- ◆ Clear, easily read white numbers on black background reduce errors
- ◆ No-glare black finish on the frame
- ◆ .001" or 0.01mm is read directly from the counter
- ◆ Ring-type knurled lock nut for quick and sure locking
- ◆ Combination ratchet and speeder for uniform pressure and quicker adjustment
- ◆ Hardened, ground, and lapped base is 3" (75mm) long
- ◆ Measuring rods are 5/32" (4mm) diameter and are adjustable



Micrometer, rods and wrenches in case.

#### Graduation – .001"

Range	No. Rods	Description	Catalog No.	EDP No.
0-3"	3	Ratchet Stop, Lock Nut, in Case	<b>446AZ-3RL</b>	56288
0-6"	6	Ratchet Stop, Lock Nut, in Case	<b>446AZ-6RL</b>	56289

#### Graduation – 0.01mm

0-75mm	3	Ratchet Stop, Lock Nut, in Case	<b>446MAZ-75RL</b>	56294
0-150mm	6	Ratchet Stop, Lock Nut, in Case	<b>446MAZ-150RL</b>	56295

#### Rods Only

For 446 Series (Inch)			For 446M Series (Millimeter)		
Size	Part No.	EDP No.	Size	Part No.	EDP No.
0-1"	<b>PT99381</b>	72211	0-25mm	<b>PT99391</b>	72217
1-2"	<b>PT99382</b>	72212	25-50mm	<b>PT99392</b>	72218
2-3"	<b>PT99383</b>	72213	50-75mm	<b>PT99393</b>	72219
3-4"	<b>PT99384</b>	72214	75-100mm	<b>PT99394</b>	72220
4-5"	<b>PT99385</b>	72215	100-125mm	<b>PT99395</b>	72221
5-6"	<b>PT99386</b>	72216	125-150mm	<b>PT99396</b>	72222

Furnished in an attractive, protective case.



**Micrometer Depth  
Gages with  
non-rotating blades**

**No. 449 Series 0-6"**

**No. 449M Series 0-150mm**

The 449 Series features non-rotating, blade-type rods approximately .045" thick x 1/8" wide (1.2 x 3.2mm).

By holding the base in one hand, the blade can be turned with the fingers and positioned at any angle relative to the base. In operation, the blade does not turn, but moves perpendicularly only, permitting depth measurement of narrow shoulders without the blade rolling off. This is also ideal for slots and recesses as narrow as .045" (1.2mm). Furnished with a 2-1/2" (63mm) or a 4" (100mm) base.

Also available with 3 rods for measuring 0-3" (0-75mm), or 6 rods for measuring 0-6" (0-150mm) in thousandths of an inch or 0.01mm.

This tool comes with the combination ratchet and speeder for uniform pressure and quicker adjustment.



**Graduation – .001"**

Range	Base Length	No. Rods	Rod Size	Catalog No.	EDP No.
0-3"	2-1/2"	3	.045 x 1/8"	<b>449AZ-3R</b>	52318
0-6"	2-1/2"	6		<b>449AZ-6R</b>	52320
0-3"	4"	3		<b>449BZ-3R</b>	52322
0-6"	4"	6		<b>449BZ-6R</b>	52324

**Graduation – 0.01mm**

Range	Base Length	No. Rods	Rod Size	Catalog No.	EDP No.
0-75mm	63.5mm	3	1.2 x 3.2mm	<b>449MAZ-75R</b>	56636
0-150mm	63.5mm	6		<b>449MAZ-150R</b>	56637
0-75mm	100mm	3		<b>449MBZ-75R</b>	56638
0-150mm	100mm	6		<b>449MBZ-150R</b>	56639

**Rods Only**

For 449 Series (Inch)			For 449M Series (Millimeter)		
Size	Part No.	EDP No.	Size	Part No.	EDP No.
0-1"	<b>PT99115</b>	71838	0-25mm	<b>PT99306</b>	72476
1-2"	<b>PT99116</b>	71839	25-50mm	<b>PT99307</b>	72477
2-3"	<b>PT99117</b>	71840	50-75mm	<b>PT99308</b>	72478
3-4"	<b>PT99118</b>	71841	75-100mm	<b>PT99309</b>	72479
4-5"	<b>PT99119</b>	71842	100-125mm	<b>PT99310</b>	72480
5-6"	<b>PT99120</b>	71843	125-150mm	<b>PT99311</b>	72481

Longer rods are available by special order.



Measuring depth of narrow slot with the No. 449A-3R.

Furnished in an attractive, protective case.



**No. 440 Series** 0-9"  
**No. 440M Series**  
0-225mm

**No. 445 Series** 0-12"  
**No. 445M Series**  
0-225mm

The depths of holes, slots, shoulders and projections can be measured to .001" or 0.01mm with these fine tools.

The No. 440 gages are furnished with a 2-1/2" (63.5mm) base and 1/8" (3.2mm) diameter measuring rods.\*

The No. 445 gages are furnished with choices of 3" (75mm), 4" (100mm), and 6" (150mm) bases and have 5/32" (4mm) diameter measuring rods.\*

Besides the features listed on the lead page of this section, there are these additional features:

- ◆ The combination ratchet and speeder for uniform pressure and quicker adjustment
- ◆ Ring-type lock nut for quick and sure locking



Measuring the depth of a shoulder with the No. 445AZ-3RL.

### Graduation – .001"

Range	Base	No. Rods*	Rod Dia.	Description	Catalog No.	EDP No.
0-3"	2-1/2"	3	1/8"	With Lock Nut, in Case	<b>440Z-3L</b>	52113
0-6"		6			<b>440Z-6L</b>	52117
0-9"		9			<b>440Z-9L</b>	52121
0-3"	2-1/2"	3	1/8"	With Ratchet Stop, Lock Nut, in Case	<b>440Z-3RL</b>	52115
0-6"		6			<b>440Z-6RL</b>	52119
0-9"		9			<b>440Z-9RL</b>	52123
0-3"	3"	3	5/32"		<b>445AZ-3RL</b>	52208
0-6"		6			<b>445AZ-6RL</b>	52212
0-9"		9			<b>445AZ-9RL</b>	52216
0-12"		12			<b>445AZ-12RL</b>	67117
0-3"	4"	3	5/32"	With Ratchet Stop, Lock Nut, in Case	<b>445BZ-3RL</b>	52220
0-6"		6			<b>445BZ-6RL</b>	52224
0-9"		9			<b>445BZ-9RL</b>	52228
0-12"		12			<b>445BZ-12RL</b>	67118
0-3"	6"	3	5/32"		<b>445DZ-3RL</b>	52244
0-6"		6			<b>445DZ-6RL</b>	52248
0-9"		9			<b>445DZ-9RL</b>	52252
0-12"		12			<b>445DZ-12RL</b>	67119

### Graduation – 0.01mm

0-75mm	63.5mm	3	3.2mm	With Ratchet Stop, Lock Nut, in Case	<b>440MZ-75RL</b>	52116
0-150mm		6			<b>440MZ-150RL</b>	52120
0-225mm		9			<b>440MZ-225RL</b>	52124
0-75mm	75mm	3	4mm		<b>445MAZ-75RL</b>	52209
0-150mm		6			<b>445MAZ-150RL</b>	52213
0-225mm		9			<b>445MAZ-225RL</b>	52217
0-75mm	100mm	3	4mm	With Ratchet Stop, Lock Nut, in Case	<b>445MBZ-75RL</b>	52221
0-150mm		6			<b>445MBZ-150RL</b>	52225
0-225mm		9			<b>445MBZ-225RL</b>	52229
0-75mm	150mm	3	4mm		<b>445MDZ-75RL</b>	52245
0-150mm		6			<b>445MDZ-150RL</b>	52249
0-225mm		9			<b>445MDZ-225RL</b>	52253

Furnished in an attractive, protective case.

\* For information on rods only, see next page.



## Micrometer Depth Gages with half base

### No. 443 Series 0-9"

This tool is exactly like the No. 445 Series except that it has a half base. The 2" (50mm) half base permits measuring depths of holes and slots close to shoulders and between obstructions. Rods have individual length adjustment and are 5/32" (4mm) in diameter.



Range	No. of Rods	Graduation	Description	Catalog No.	EDP No.
0-3"	3	.001"	Ratchet Stop, Lock Nut, in Case	<b>443Z-3RL</b>	52171
0-6"	6			<b>443Z-6RL</b>	52173
0-9"	9			<b>443Z-9RL</b>	52175

Furnished in an attractive, protective case.

### Rods Only for Nos. 440, 443 and 445 Series Micrometer Depth Gages

#### Inch Reading

Size	440 Series		443, 445 Series	
	Part No.	EDP No.	Part No.	EDP No.
0-1"	<b>PT99331</b>	71973	<b>PT99341</b>	71982
1-2"	<b>PT99332</b>	71974	<b>PT99342</b>	71983
2-3"	<b>PT99333</b>	71975	<b>PT99343</b>	71984
3-4"	<b>PT99334</b>	71976	<b>PT99344</b>	71985
4-5"	<b>PT99335</b>	71977	<b>PT99345</b>	71986
5-6"	<b>PT99336</b>	71978	<b>PT99346</b>	71987
6-7"	<b>PT99337</b>	71979	<b>PT99347</b>	71988
7-8"	<b>PT99338</b>	71980	<b>PT99348</b>	71989
8-9"	<b>PT99339</b>	71981	<b>PT99349</b>	71990
9-10"			<b>PT99358</b>	66673
10-11"			<b>PT99359</b>	66674
11-12"			<b>PT99360</b>	66675

#### Millimeter Reading

Size	440M Series		445M Series	
	Part No.	EDP	Part No.	EDP No.
0-25mm	<b>PT99361</b>	72193	<b>PT99371</b>	72202
25-50mm	<b>PT99362</b>	72194	<b>PT99372</b>	72203
50-75mm	<b>PT99363</b>	72195	<b>PT99373</b>	72204
75-100mm	<b>PT99364</b>	72196	<b>PT99374</b>	72205
100-125mm	<b>PT99365</b>	72197	<b>PT99375</b>	72206
125-150mm	<b>PT99366</b>	72198	<b>PT99376</b>	72207
150-175mm	<b>PT99367</b>	72199	<b>PT99377</b>	72208
175-200mm	<b>PT99368</b>	72200	<b>PT99378</b>	72209
200-225mm	<b>PT99369</b>	72201	<b>PT99379</b>	72210

Longer rods are available by special order.

Precision Measuring Equipment and Industrial Supplies since 1924.

4841 W. Chicago Ave. - Chicago, IL 60651 • Phone: 773-261-2182 • Fax: 773-261-2867 • [sales@jwdonchin.com](mailto:sales@jwdonchin.com)

J.W. Donchin Co. was established in 1924 and has been known world wide ever since. Customer Service is our Main Focus. We offer **Expert Product Knowledge, Large Stocking Inventory and Competitive Pricing** to assist you in locating and selecting the correct tool or product to fit your needs. (J.W. Donchin Co. is one of L.S. Starrett's largest stocking distributors.)

## Contact Information:

Phone: 773-261-2182

Fax: 773-261-2867

Email: [sales@jwdonchin.com](mailto:sales@jwdonchin.com)

## Direct Access Links

(View specific information, click on any of the following)

• Latest Website Updates:

• Website:

• Quotes:

• Latest Promos:

• Line Card (Product Lines & Mfg)

Catalog / Promo / Pricelist

• Starrett

• Mitutoyo

• Fowler

• Brown & Sharpe