



# OUTSIDE MICROMETERS



## Interchangeable Anvil Micrometers

**No. 224 Series 0-24"**

**No. 224M Series 0-600mm**

Unusual flexibility, plus a wide range of measurement makes the Starrett No. 224 series satin-chrome micrometers very popular in machine or automotive repair shops and for all applications requiring a versatile micrometer.

Each micrometer is equipped with a series of easily interchangeable anvils, thus providing the full range in steps of 1" or 25mm with a single micrometer. Suitable wrenches are furnished to make necessary adjustments.

These larger sizes have .300" (7.6mm) anvil and spindle diameters for ease of use on larger work.

### Readability features

- ◆ Starrett satin chrome finish – no glare – resists rust
- ◆ Advanced sleeve design with staggered lines and distinct figures for precise and easy readability
- ◆ Large thimble diameter with distinct figures

### Ease-of-Handling Features

- ◆ Balanced frame and thimble design insure easy handling and better readability
- ◆ Ring-type knurled lock nut for quick and sure locking
- ◆ Combination ratchet and speeder for uniform pressure and quicker adjustment

### Accuracy and Long-Life Features

- ◆ Rigid and stable special cast iron frame with appropriate perforations for lightness and ribbed for strength and stability
- ◆ Extremely hard and stable one-piece spindle (the heart of our accuracy)
- ◆ Interchangeable anvils
- ◆ Micro-lapped measuring faces
- ◆ Quick and easy sleeve adjustment
- ◆ Starrett workmanship



Starrett wide range, perforated frame micrometers are available in inch and millimeter models. Shown above is the No. 224CRLZ 9-12" model with standards and interchangeable anvils.

### 0-24" range

Range	Graduation	With Ratchet Stop, Lock Nut, In Case		No. 234 Standards Furnished
		Catalog No.	EDP No.	
0-4"	.001"	224AARLZ	50770	1", 2", 3"
2-6"		224ARLZ	50772	2", 3", 4", 5"
6-9"		224BRLZ	50774	6", 7", 8"
6-12"		224GRLZ	50776	6", 7", 8", 9", 10", 11"
9-12"		224CRLZ	50778	9", 10", 11"
12-16"		224DRLZ	50780	12", 13", 14", 15"
16-20"		224ERLZ	50782	16", 17", 18", 19"
20-24"		224JRLZ	50784	20", 21", 22", 23"

### 0-600mm range

0-100mm	0.01mm	224MAARLZ	50771	25, 50, 75mm
50-150mm		224MARLZ	50773	50, 75, 100, 125mm
150-300mm		224MGRLZ	50777	150, 175, 200, 225, 250, 275mm
300-400mm		224MDRLZ	50781	300, 325, 350, 375mm
400-500mm		224MERLZ	50783	400, 425, 450, 475mm
500-600mm		224MJRLZ	50785	500, 525, 550, 575mm

Furnished with No. 234 Standards in protective case. Packed one in a box.



**Electronic  
Interchangeable Anvil  
Micrometers (with output)**

**No. 714 Series  
0-24" (0-600mm)**

This micrometer is the same as our No. 224 Series except that it has an electronic readout and the following extra features and benefits:

**Readability Features**

- ◆ Large, right-sized, high-contrast LCD digital readout is easy to read and reduces errors
- ◆ Resolution – .00005" and 0.001mm
- ◆ Conventional inch or millimeter graduations standard
- ◆ Attractive no-glare black wrinkle finish on the frame
- ◆ Starrett no-glare satin chrome finish on thimble and sleeve

**Accuracy and Long-Life Features**

- ◆ Starrett designed electronic microprocessor
- ◆ One 3-volt battery furnished for dependable power and 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 models 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



No. 714AFZ Micrometer with No. 234 Standards.

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

Range		Resolution		Catalog No.	EDP No.
Inch	Approx. mm	Inch	mm		
0 - 4"	0 - 101mm	.00005"	0.001mm	<b>714AAFLZ</b>	64427
2 - 6"	51 - 152mm			<b>714AFLZ</b>	64428
6 - 9"	152 - 228mm			<b>714BFLZ</b>	64429
6 - 12"	152 - 305mm			<b>714GFLZ</b>	64430
9 - 12"	228 - 305mm	.0001"	0.001mm	<b>714CFLZ</b>	64431
12 - 16"	305 - 406mm			<b>714DFLZ</b>	64432
16 - 20"	406 - 508mm			<b>714EFLZ</b>	64433
20 - 24"	508 - 609mm			<b>714JFLZ</b>	64434

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

Range		Resolution		Catalog No.	EDP No.
mm	Approx. Inch	mm	Inch		
0 - 100mm	0 - 3.930"	0.001mm	.00005"	<b>714MEAFLZ</b>	66108
50 - 150mm	1.968 - 5.900"			<b>714MEAFZ</b>	66109
150 - 300mm	5.900 - 11.810"		.0001"	<b>714MEGFLZ</b>	66111
300 - 400mm	11.810 - 15.740"			<b>714MEDFLZ</b>	66112
400 - 500mm	15.740 - 19.680"			<b>714MEEFLZ</b>	66113
500 - 600mm	19.680 - 23.620"			<b>714MEJFLZ</b>	66110

**Cable Information**

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

Micrometer furnished in protective case with No. 234 Standards. Packed one in a box with instructions.



### Tubular Bow Type Micrometers with interchangeable anvils

**No. 724 Series** 12-60"

**No. 724M Series**  
300 -1500mm

These micrometers are made for better precision measurement of **LARGE** outside dimensions. They provide perfect balance, sensitive feel, ease of handling, and less measuring effort due to their advanced tubular design. Frames are built of special steel formed to exacting tubular design specifications and welded by a carefully controlled process. This produces a hollow tubular frame of the lightest weight, extreme rigidity, and standard coefficient of expansion.

Because of the interchangeable anvils, the No. 724 Series is well suited for diversified gaging and provides a wide range of measurement in steps of 1 inch or 25mm.

The micrometer head is large and well balanced with .300" (7.6mm) diameter anvil and spindle and with larger bearing surfaces on the threads.

#### Readability Features

- ◆ Starrett satin chrome finish – no glare – resists rust
- ◆ Advanced sleeve design with staggered lines and distinct figures for precise and easy readability
- ◆ Large thimble diameter with distinct figures

#### Ease-of-Handling Features

- ◆ Balanced frame and thimble design for easy handling and better readability
- ◆ Ring-type knurled lock nut for quick and sure locking

#### Accuracy and Long-Life Features

- ◆ Hollow tubular frame design combining lightest possible weight with rigidity
- ◆ Extremely hard and stable one-piece spindle (the heart of our accuracy)
- ◆ Interchangeable anvils for diversified gaging
- ◆ Standards with insulated grips
- ◆ Micro-lapped measuring faces
- ◆ Quick and easy sleeve adjustment
- ◆ Starrett workmanship

Furnished with No. 234 Standards in attractive, protective case. Packed one in a box.



#### No. 724LZ-18 12-18" model with interchangeable anvils and standards.

It is recommended that these micrometers be checked with standards in the approximate position (vertical or horizontal) that they will be used.

We do not recommend .0001" or 0.001mm readings on these micrometers.

- ◆ Larger sizes, carbide faces and ratchet stop are available on special order.

Range Inch	Graduation	With Lock Nut, In Case		No. 234 Standards Furnished
		Catalog No.	EDP No.	
12-18"	.001"	<b>724LZ-18</b>	52994	12", 13", 14", 15", 16", 17"
18-24"		<b>724LZ-24</b>	52995	18", 19", 20", 21", 22", 23"
24-30"		<b>724LZ-30</b>	52996	25", 27", 29"
30-36"		<b>724LZ-36</b>	52997	31", 33", 35"
36-42"		<b>724LZ-42</b>	52998	37", 39", 41"
42-48"		<b>724LZ-48</b>	52999	43", 45", 47"
48-54"		<b>724LZ-54</b>	53000	49", 51", 53"
54-60"		<b>724LZ-60</b>	53001	55", 57", 59"

Range mm				
300-450mm	0.01mm	<b>724MLZ-450</b>	64318	300, 325, 350, 375, 400, 425mm
450-600mm		<b>724MLZ-600</b>	64319	450, 475, 500, 525, 550, 575mm
600-750mm		<b>724MLZ-750</b>	64320	625, 675, 725mm
750-900mm		<b>724MLZ-900</b>	64321	775, 825, 875mm
900-1050mm		<b>724MLZ-1050</b>	64322	925, 975, 1025mm
1050-1200mm		<b>724MLZ-1200</b>	64323	1075, 1125, 1175mm
1200-1350mm		<b>724MLZ-1350</b>	64324	1225, 1275, 1325mm
1350-1500mm		<b>724MLZ-1500</b>	64325	1375, 1425, 1475mm

Adjusting wrenches furnished with each tool.



## Tubular Bow Type Micrometers with fixed anvil

**No. 736 Series** 12-30"

**No. 736M Series**

**300-750mm**

This micrometer, available on special order, is similar to the No. 724 Series. All features are identical to the No. 724, except that it has a fixed anvil, and is furnished in one inch increments from 12-30" and 25mm increments from 300-750mm.

### Readability Features

- ◆ Starrett satin chrome finish – no glare – resists rust
- ◆ Advanced sleeve design with staggered lines and distinct figures for precise and easy readability
- ◆ Large thimble diameter with distinct figures

### Ease-of-Handling Features

- ◆ Balanced frame and thimble design insure easy handling and better readability
- ◆ Ring-type knurled lock nut for quick and sure locking

### Accuracy and Long-Life Features

- ◆ Hollow tubular frame design combining lightest possible weight with rigidity
- ◆ Extremely hard and stable one-piece spindle (the heart of our accuracy)
- ◆ Micro-lapped measuring faces
- ◆ Quick and easy sleeve adjustment
- ◆ No. 234 Standards furnished with micrometers
- ◆ Starrett workmanship



**No. 736 Tubular Bow Fixed Anvil Micrometers are available in inch and millimeter sizes from 12-30" or 300-750mm by special order, priced on application. Shown above is a micrometer with standard.**



## Ultralight "C" Frame Gages

Rigid honeycomb aluminum diameter gage weighs five times less than solid frame gages. Unit shown has interchangeable anvils for 36-42" range. The gage is used as a dial indicator snap gage set to produce nominal dimension, or as an indicating micrometer. The micrometer head with .0001" graduations and the .0005" dial indicator insure quick, accurate readings.

Ultralights are available from 24-72" (600-1800mm) I.D. or O.D. and can be designed for up to 72" (1800mm) throat depth for thickness measurement.

Order by catalog number and range through our Special Order Department. Example:  
No. 736LZ-28 (this orders a micrometer with a 27-28" range with lock nut and standard, in an attractive, protective case.)