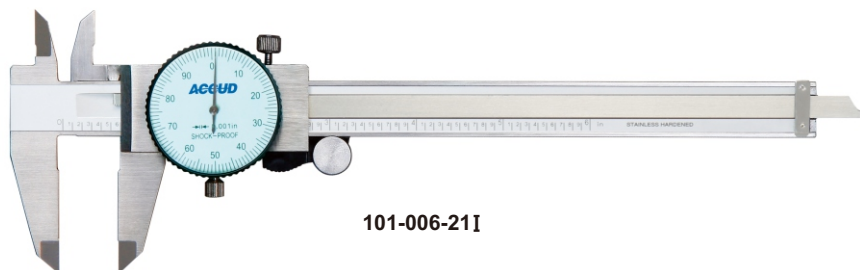
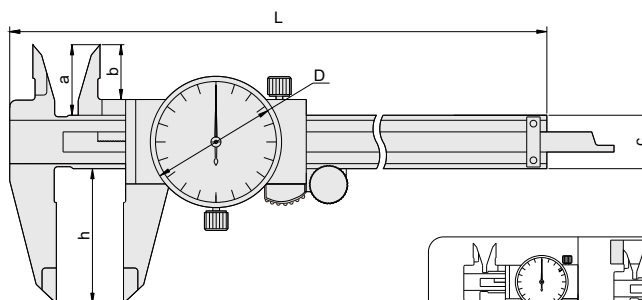


## SERIES 101

## INCH DIAL CALIPER

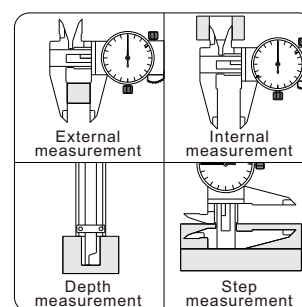


101-006-21I



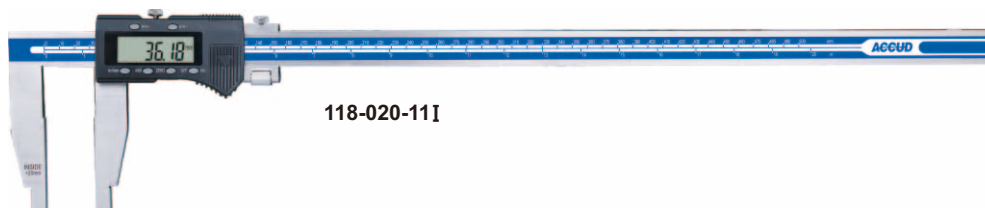
- ◆ Shockproof dial indicator
- ◆ Made of stainless steel

Code	Range	Graduation	Accuracy	a	b	c	h	D (DIA)	L
101-006-21I	0-6"	.001"	±.0015"	.827"	.650"	.630"	1.575"	1.535"	9.252"
101-008-21I	0-8"	.001"	±.0020"	.945"	.748"	.630"	1.890"	1.535"	11.339"
101-012-21I	0-12"	.001"	±.0020"	1.102"	.866"	.787"	2.441"	1.752"	16.142"



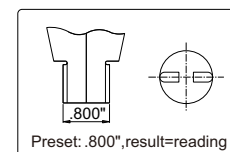
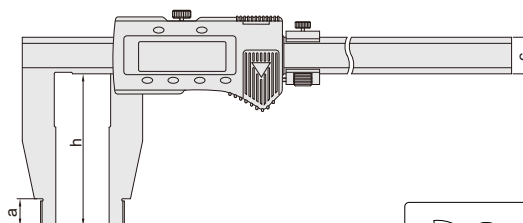
## SERIES 118

## DIGITAL CALIPER

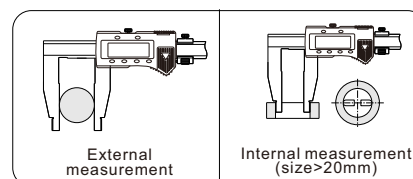


118-020-11I

- ◆ Resolution: .0005"/0.01mm
- ◆ Buttons: on/off, zero, mm/inch, ABS, data preset
- ◆ Preset: .800", don't need to add the width of the jaws on the reading
- ◆ Data output(cable code:100-15)
- ◆ Made of stainless steel



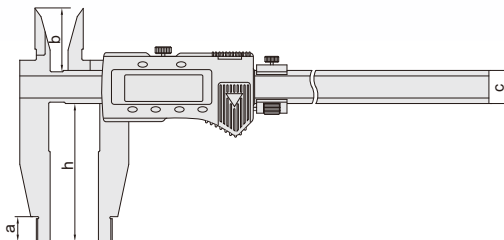
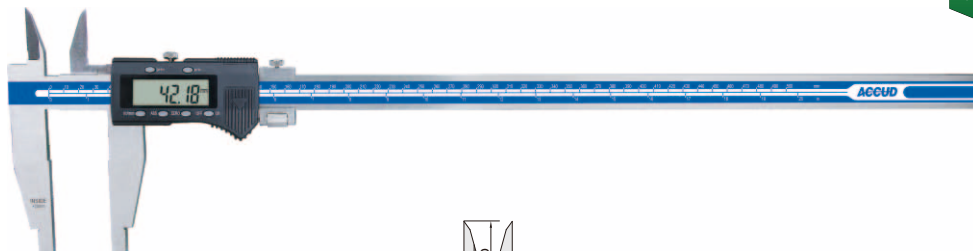
Code	Range	Accuracy	a	c	h
118-024-11I	0-24"/0-600mm	±.0020"	.709"	.945"	3.937"
118-040-11I	0-40"/0-1000mm	±.0030"	.945"	1.220"	5.906"





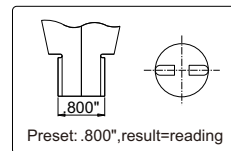
## SERIES 119

## DIGITAL CALIPER

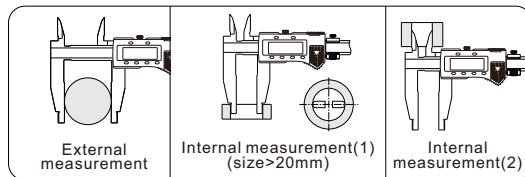


- ◆ Resolution: .0005"/0.01mm
- ◆ Buttons: on/off, zero, mm/inch, ABS, data preset
- ◆ Data output(cable code:100-15)
- ◆ Made of stainless steel

### Low jaws



Code	Range	Accuracy	a	b	c	h
<b>119-024-11I</b>	0-24"/0-600mm	±.0020"	.709"	.709"	.945"	3.937"
<b>119-040-11I</b>	0-40"/0-1000mm	±.0030"	.945"	.945"	1.220"	5.906"



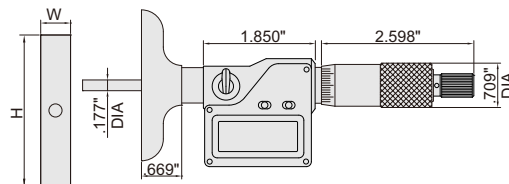
## SERIES 395

## DIGITAL DEPTH MICROMETER

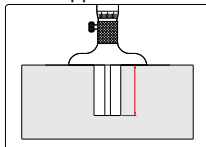
- ◆ Resolution: .00005"/0.001mm
- ◆ Micrometer head accuracy:  $\pm .00012"$   
Rod accuracy:  $\pm [.001 + .0005(L/3)]"$ ,  
L is the measuring range in inch
- ◆ Button: on/off, set, mm/inch, ABS/INC, data output
- ◆ IP65 protection leve
- ◆ Data output
- ◆ Automatic power off
- ◆ Rods with flat end
- ◆ Ratchet stop



395-002-E01

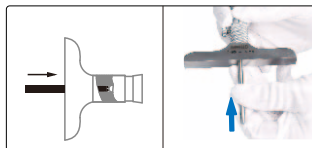


Application

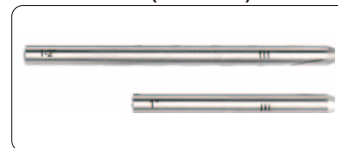


Code	Range	Base(HxW)	Rod
395-002-E01	0-2"/0-50mm	3.996x.669"	2pcs
395-006-E01	0-6"/0-150mm	3.996x.669"	6pcs
395-012-E01	0-12"/0-300mm	3.996x.669"	12pcs

Install rod



Rod (included)



AECUD

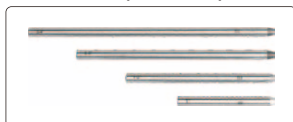


## SERIES 391

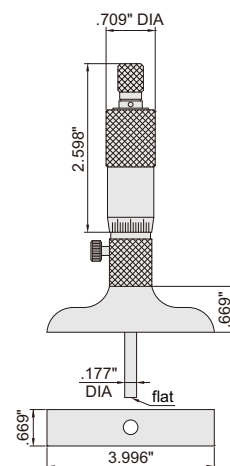
## DEPTH MICROMETER

- ◆ Graduation: .001"
- ◆ Micrometer head accuracy:  $\pm .00012"$
- ◆ Rod accuracy:  $\pm [.001 + .0005(L/3)]"$ ,  
L is the measuring range in inch
- ◆ Supplied with rods
- ◆ Ratchet stop

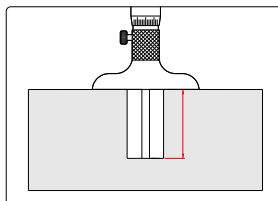
Rod (included)



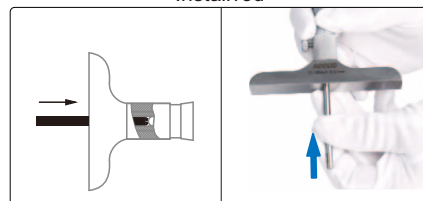
391-001-E01



Code	Range	Rod
391-001-E01	0-1"	1pc
391-002-E01	0-2"	2pcs
391-006-E01	0-6"	6pcs



Install rod

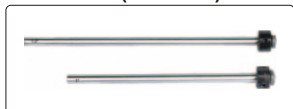


## SERIES 392

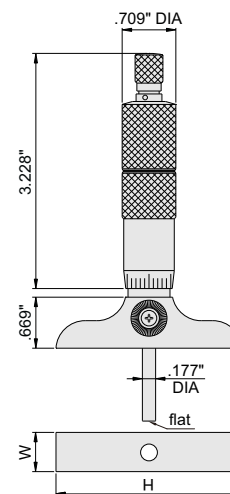
## DEPTH MICROMETER

- ◆ Graduation: .001"
- ◆ Micrometer head accuracy:  $\pm .00012"$
- ◆ Rod accuracy:  $\pm [.001 + .0005(L/3)]"$ ,  
L is the measuring range in inch
- ◆ Supplied with rods
- ◆ Ratchet stop

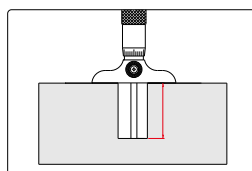
Rod (included)



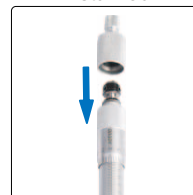
392-001-E01



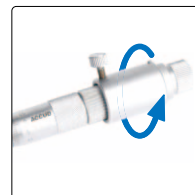
Code	Range	Base (HxW)	Rod
392-001-E01	0-1"	3.996x.669"	1pc
392-002-E01	0-2"	3.996x.669"	2pcs
392-003-E01	0-3"	3.996x.669"	3pcs
392-004-E01	0-4"	3.996x.669"	4pcs
392-006-E01	0-6"	3.996x.669"	6pcs
392-008-E01	0-8"	3.996x.669"	8pcs
392-012-E01	0-12"	3.996x.669"	12pcs
392-001-E02	0-1"	2.480x.669"	1pc
392-004-E02	0-4"	2.480x.669"	4pcs



Install rod



Use



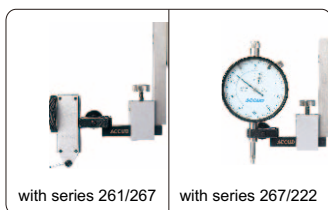
## SERIES 182

## DIGITAL HEIGHT GAGE

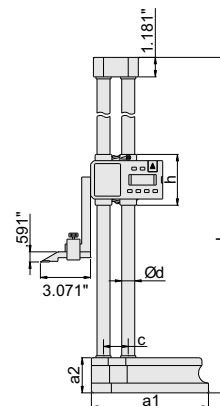


- ◆ Resolution: .001"
- ◆ Buttons: on/off, inch/mm, ABS/INC, data preset, set data
- ◆ Carbide tipped scriber
- ◆ Made of stainless steel beam
- ◆ With driving wheel
- ◆ Optional accessory: 267 series clamps

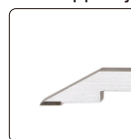
Application with clamps (optional)



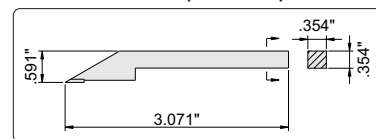
182-012-111



Carbide tipped jaws



Scriber (included)



Driving wheel



Code	Range	Accuracy	a1	a2	c	d (DIA)	h	L
182-012-111	0-12"/0-300mm	.0015"	5.315"	1.693"	1.299"	.591"	3.307"	18.701"
182-018-111	0-18"/0-450mm	.0020"	7.087"	2.126"	1.496"	.787"	3.465"	25.984"
182-024-111	0-24"/0-600mm	.0020"	7.087"	2.126"	1.496"	.787"	3.465"	31.890"

## SERIES 185

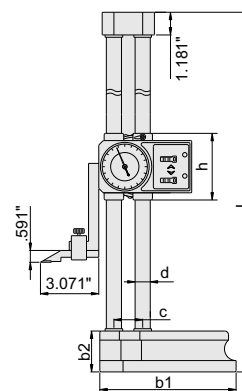
## DIAL HEIGHT GAGE

- ◆ Indicator graduation: .001"
- ◆ Carbide tipped scriber
- ◆ Made of stainless steel (except the base)
- ◆ With driving wheel
- ◆ Optional accessory: 267 series clamps

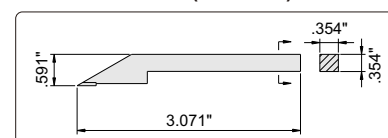
Application with clamps (optional)



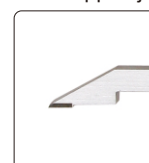
185-012-111



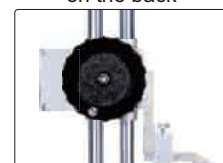
Scriber (included)



Carbide tipped jaws



Driving wheel on the back



Code	Range	Accuracy	b1	b2	c	d (DIA)	h	L
185-012-111	0-12"	±.0016"	5.315"	1.693"	1.299"	.591"	3.307"	18.701"
185-018-111	0-18"	±.0020"	7.087"	2.126"	1.496"	.787"	3.465"	25.984"
185-024-111	0-24"	±.0020"	7.087"	2.126"	1.496"	.787"	3.465"	31.890"

HEIGHT

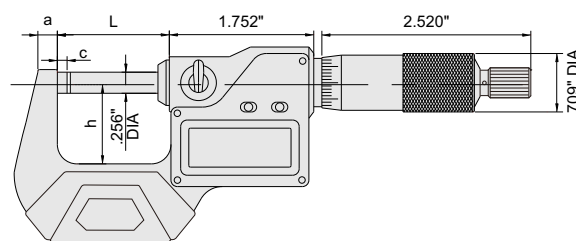
## SERIES 313

## DIGITAL OUTSIDE MICROMETER WITH DATA OUTPUT



313-001-E01S

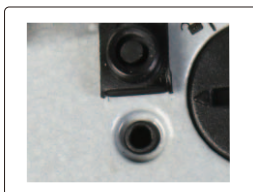
- ◆ IP65 protection level
- ◆ Button: on/off, mm/inch, set, zero
- ◆ Automatic power off
- ◆ Data output
- ◆ Carbide measuring faces, ratchet stop
- ◆ Setting standards are included(except 313-001-E01S)



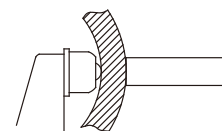
Setting standards (included)



Data output interface



spherical anvil



measure tube wall thickness

Code	Range	Accuracy	Accuracy	a	c	h	L	Setting standards(included)
313-001-E01S*	0-1"/0-25mm	.00005"/0.001mm	±.00010"	.236"	.118"	.984"	1.358"	-
313-002-E01S*	1-2"/25-50mm	.00005"/0.001mm	±.00010"	.315"	.118"	1.260"	2.343"	1"
313-003-E01S*	2-3"/50-75mm	.00005"/0.001mm	±.00015"	.315"	.118"	1.752"	3.327"	2"
313-004-E01S*	3-4"/75-100mm	.00005"/0.001mm	±.00015"	.315"	.118"	2.244"	4.311"	3"
313-005-E01S	4-5"/100-125mm	.00005"/0.001mm	±.00015"	.394"	.118"	2.756"	5.315"	4"
313-006-E01S	5-6"/125-150mm	.00005"/0.001mm	±.00015"	.394"	.118"	3.228"	6.319"	5"
313-007-E01S	6-7"/150-175mm	.00005"/0.001mm	±.00020"	.472"	.217"	3.720"	7.323"	6"
313-008-E01S	7-8"/175-200mm	.00005"/0.001mm	±.00020"	.472"	.217"	4.213"	8.327"	7"
313-009-E01S	8-9"/200-225mm	.00005"/0.001mm	±.00020"	.906"	.217"	5.098"	9.291"	8"
313-010-E01S	9-10"/225-250mm	.00005"/0.001mm	±.00020"	.906"	.217"	5.610"	10.295"	9"
313-011-E01S	10-11"/250-275mm	.0001"/0.001mm	±.0002"	.906"	.217"	6.102"	11.299"	10"
313-012-E01S	11-12"/275-300mm	.0001"/0.001mm	±.0002"	.906"	.217"	6.594"	12.303"	11"

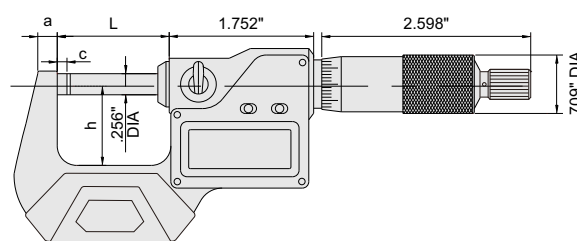
### Set

Code	Range	Total QTY.	Included micrometers	Package
313-003-E03S*	0-3"/0-75mm	3pcs	0-1"/0-25mm, 1-2"/25-50mm, 2-3"/50-75mm	blow mould case
313-004-E04S*	0-4"/0-100mm	4pcs	0-1"/0-25mm, 1-2"/25-50mm, 2-3"/50-75mm, 3-4"/75-100mm	blow mould case
313-006-E06S	0-6"/0-150mm	6pcs	0-1"/0-25mm, 1-2"/25-50mm, 2-3"/50-75mm, 3-4"/75-100mm, 4-5"/100-125mm, 5-6"/125-150mm	aluminum box

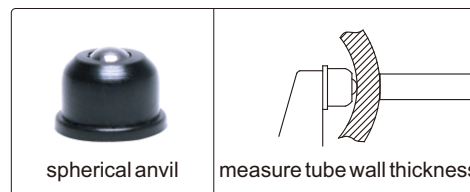
\* With manufacturer inspection certificate


**313-001-E01**

- ◆ Resolution: .00005"/0.001mm
- ◆ IP65 protection level
- ◆ Button: on/off, mm/inch, set, zero
- ◆ Automatic power off
- ◆ Carbide measuring faces, ratchet stop
- ◆ Setting standards are included  
(except **313-001-E01**)



Setting standards (included)



Code	Range	Accuracy	a	c	h	L	Setting standards(included)
<b>313-001-E01*</b>	0-1"/0-25mm	±.00010"	.236"	.118"	.984"	1.358"	-
<b>313-002-E01*</b>	1-2"/25-50mm	±.00010"	.315"	.118"	1.260"	2.343"	1"
<b>313-003-E01*</b>	2-3"/50-75mm	±.00015"	.315"	.118"	1.752"	3.327"	2"
<b>313-004-E01*</b>	3-4"/75-100mm	±.00015"	.315"	.118"	2.244"	4.311"	3"
<b>313-005-E01</b>	4-5"/100-125mm	±.00015"	.394"	.118"	2.756"	5.315"	4"
<b>313-006-E01</b>	5-6"/125-150mm	±.00015"	.394"	.118"	3.228"	6.319"	5"
<b>313-007-E01</b>	6-7"/150-175mm	±.00020"	.472"	.217"	3.720"	7.323"	6"
<b>313-008-E01</b>	7-8"/175-200mm	±.00020"	.472"	.217"	4.213"	8.327"	7"

**Set**

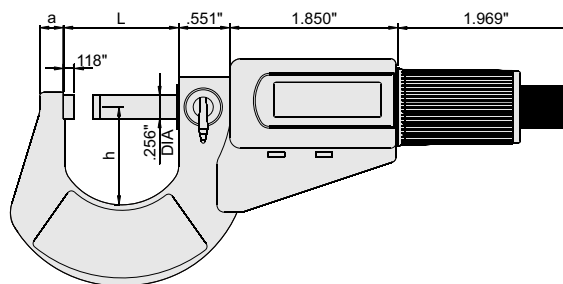
Code	Range	Total QTY.	Included micrometers	Package
<b>313-003-E03*</b>	0-3"/0-75mm	3pcs	0-1"/0-25mm, 1-2"/25-50mm, 2-3"/50-75mm	blow mould case
<b>313-004-E04*</b>	0-4"/0-100mm	4pcs	0-1"/0-25mm, 1-2"/25-50mm, 2-3"/50-75mm, 3-4"/75-100mm	blow mould case
<b>313-006-E06</b>	0-6"/0-150mm	6pcs	0-1"/0-25mm, 1-2"/25-50mm, 2-3"/50-75mm, 3-4"/75-100mm, 4-5"/100-125mm, 5-6"/125-150mm	aluminum box

\* With manufacturer inspection certificate



312-001-E03

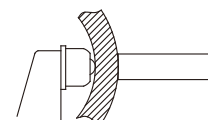
- ◆ Resolution: .00005"/0.001mm
- ◆ Button: ON/OFF/SET, ABS/INC/UNIT
- ◆ Carbide measuring faces
- ◆ Ratchet stop
- ◆ Setting standards are included  
(except 312-001-E03)



Setting standards (included)



spherical anvil



measure tube wall thickness

Code	Range	Accuracy	a	h	L	Setting standards(included)
312-001-E03*	0-1"/0-25mm	±.00010"	.236"	1.083"	1.260"	-
312-002-E03*	1-2"/25-50mm	±.00010"	.315"	1.457"	2.244"	1"
312-003-E03*	2-3"/50-75mm	±.00015"	.315"	1.969"	3.228"	2"
312-004-E03*	3-4"/75-100mm	±.00015"	.394"	2.402"	4.213"	3"
312-005-E03	4-5"/100-125mm	±.00015"	.394"	2.874"	5.197"	4"
312-006-E03	5-6"/125-150mm	±.00015"	.394"	3.346"	6.181"	5"
312-007-E03	6-7"/150-175mm	±.00020"	.787"	4.094"	7.165"	6"
312-008-E03	7-8"/175-200mm	±.00020"	.787"	4.606"	8.150"	7"

## Set

Code	Range	Total QTY.	Included micrometers	Package
312-003-E33*	0-3"/0-75mm	3pcs	0-1"/0-25mm, 1-2"/25-50mm, 2-3"/50-75mm	blow mould case
312-004-E44*	0-4"/0-100mm	4pcs	0-1"/0-25mm, 1-2"/25-50mm, 2-3"/50-75mm, 3-4"/75-100mm	blow mould case
312-006-E66	0-6"/0-150mm	6pcs	0-1"/0-25mm, 1-2"/25-50mm, 2-3"/50-75mm, 3-4"/75-100mm, 4-5"/100-125mm, 5-6"/125-150mm	aluminum box

\* With manufacturer inspection certificate

## SERIES 390

## OUTSIDE MICROMETER WITH COUNTER



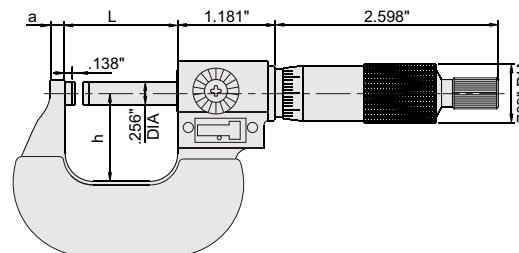
- ◆ Counter resolution: .001"
- ◆ Thimble graduation: .0001"
- ◆ Carbide measuring faces
- ◆ Meet DIN863-1
- ◆ Ratchet stop
- ◆ Setting standards are included (except 0-1")



390-001-E01

Code	Range	Accuracy	a	h	L	Setting standards (included)
390-001-E01*	0-1"	.00015"	.236"	1.024"	1.260"	-
390-002-E01*	1-2"	.00015"	.315"	1.260"	2.244"	1"
390-003-E01*	2-3"	.00020"	.315"	1.752"	3.228"	2"
390-004-E01*	3-4"	.00020"	.315"	2.244"	4.213"	3"
390-005-E01*	4-5"	.00025"	.670"	2.827"	5.213"	4"
390-006-E01*	5-6"	.00025"	.670"	3.307"	6.213"	5"
390-007-E01	6-7"	.00030"	.787"	3.878"	7.283"	6"
390-008-E01	7-8"	.00030"	.787"	4.370"	8.283"	7"
390-009-E01	8-9"	.00030"	.787"	4.882"	9.291"	8"
390-010-E01	9-10"	.00030"	.787"	5.374"	10.276"	9"
390-011-E01	10-11"	.00035"	.787"	5.866"	11.300"	10"
390-012-E01	11-12"	.00035"	.787"	6.378"	12.283"	11"

\* With manufacturer inspection certificate



Setting standards (included)



ACEUD





## SERIES 324

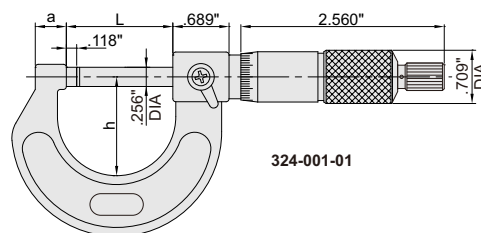
## OUTSIDE MICROMETER



- ◆ Graduation: 0.0001"
- ◆ Carbide measuring faces
- ◆ Ratchet stop
- ◆ Setting standards are included (except 324-001-01)



324-003-01



324-001-01

Code	Range	Accuracy	a	h	L	Setting standards (included)
324-001-01 *	0-1"	±.0001"	.354"	1.102"	1.260"	-
324-002-01 *	1-2"	±.0001"	.551"	1.496"	2.244"	1"
324-003-01 *	2-3"	±.0001"	.591"	1.929"	3.228"	2"
324-004-01 *	3-4"	±.00015"	.591"	2.362"	4.213"	3"
324-005-01 *	4-5"	±.00015"	.650"	2.874"	5.236"	4"
324-006-01 *	5-6"	±.00015"	.650"	3.346"	6.220"	5"
324-007-01	6-7"	±.0002"	.764"	4.094"	7.205"	6"
324-008-01	7-8"	±.0002"	.764"	4.606"	8.228"	7"
324-009-01	8-9"	±.0002"	.764"	5.118"	9.213"	8"
324-010-01	9-10"	±.00025"	.764"	5.591"	10.236"	9"
324-011-01	10-11"	±.00025"	.764"	6.102"	11.220"	10"
324-012-01	11-12"	±.00025"	.764"	6.614"	12.205"	11"

Setting standards (included)



324-006-06



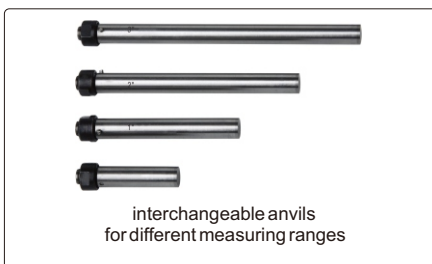
324-012-06

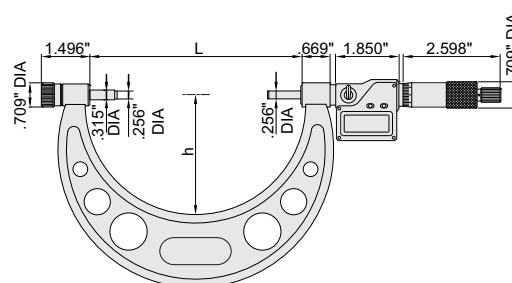
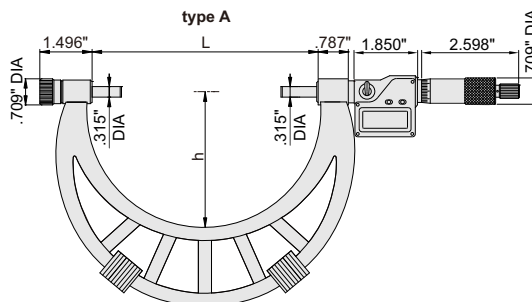
### MICROMETER SET

Code	Range	Total quantity	Included micrometers	Setting standards(included)	Package
324-003-03 *	0-3"	3pcs	0-1", 1-2", 2-3"	1", 2"	blow mould case
324-004-04 *	0-4"	4pcs	0-1", 1-2", 2-3", 3-4"	1", 2", 3"	blow mould case
324-006-06 *	0-6"	6pcs	0-1", 1-2", 2-3", 3-4", 4-5", 5-6"	1", 2", 3", 4", 5"	blow mould case
324-012-06	6-12"	6pcs	6-7", 7-8", 8-9", 9-10", 10-11", 11-12"	6", 7", 8", 9", 10", 11"	aluminum box
324-012-12	0-12"	12pcs	0-1", 1-2", 2-3", 3-4", 4-5", 5-6", 6-7", 7-8", 8-9", 9-10", 10-11", 11-12"	1", 2", 3", 4", 5", 6", 7", 8", 9", 10", 11"	aluminum box

\* With manufacturer inspection certificate

- ◆ Resolution .0001"/0.001mm  
(resolution of **315-004-E01** and **315-006-E01** is .00005"/0.001mm)
- ◆ IP65 protection level
- ◆ Button: on/off, set, mm/inch, ABS/INC, data output
- ◆ Automatic power off
- ◆ Data output
- ◆ Ratchet stop
- ◆ Carbide measuring faces
- ◆ Supplied with setting standards

**Setting standards (included)**

**315-004-E01**

**315-020-E01**

**type A**

**type B**

Code	Range	Accuracy	Type	L	h	Setting standards (included)
<b>315-004-E01</b>	0-4"/0-100mm	±.00020"	A	4.134"	2.244"	1", 2", 3"
<b>315-006-E01</b>	0-6"/0-150mm	±.00025"	A	6.102"	3.228"	1", 2", 3", 4", 5"
<b>315-012-E01</b>	6-12"/150-300mm	±.00030"	A	12.008"	6.496"	6", 7", 8", 9", 10", 11"
<b>315-012-E02</b>	8-12"/200-300mm	±.00030"	A	12.008"	6.496"	8", 9", 10", 11"
<b>315-016-E01</b>	12-16"/300-400mm	±.00035"	B	15.945"	8.819"	13", 15"
<b>315-020-E01</b>	16-20"/400-500mm	±.00045"	B	20.039"	10.827"	17", 19"
<b>315-024-E01</b>	20-24"/500-600mm	±.00050"	B	24.235"	12.638"	21", 23"
<b>315-028-E01</b>	24-28"/600-700mm	±.00050"	B	28.148"	14.606"	25", 27"
<b>315-032-E01</b>	28-32"/700-800mm	±.00060"	B	32.156"	16.772"	29", 31"
<b>315-036-E01</b>	32-36"/800-900mm	±.00065"	B	36.147"	18.740"	33", 35"
<b>315-040-E01</b>	36-40"/900-1000mm	±.00070"	B	40.211"	22.677"	37", 39"



## SERIES 325

## OUTSIDE MICROMETER WITH INTERCHANGEABLE ANVILS

- ◆ Graduation: .0001" (within 12")  
.001" (over 12")
- ◆ Ratchet stop
- ◆ Carbide measuring faces
- ◆ Supplied with setting standards

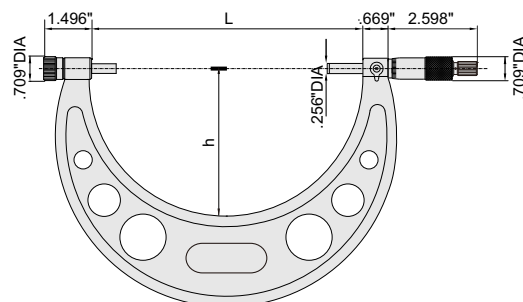
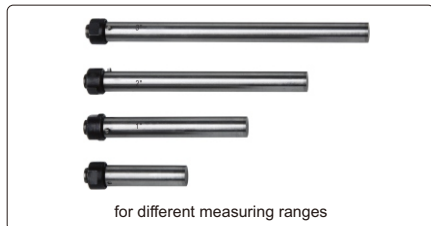


325-006-E01

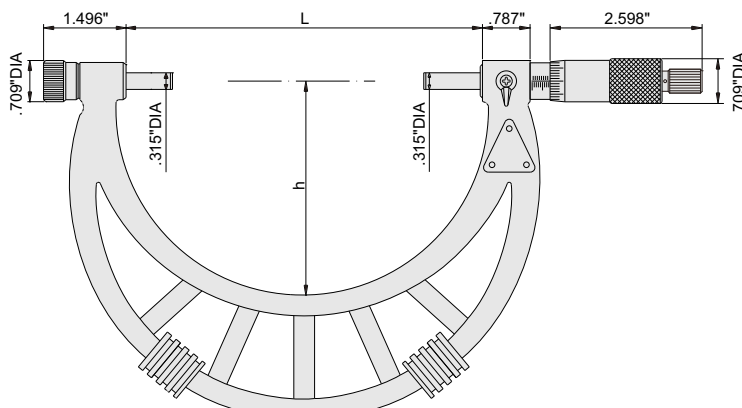
Setting standards (included)



Interchangeable anvils (included)



type A

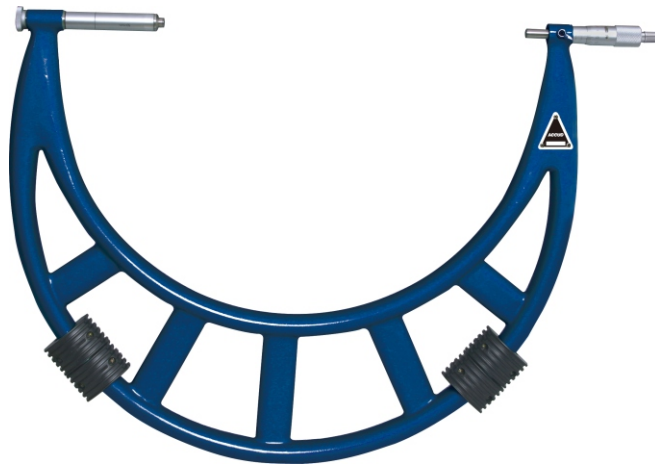
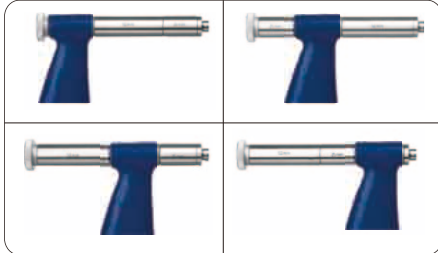


type B

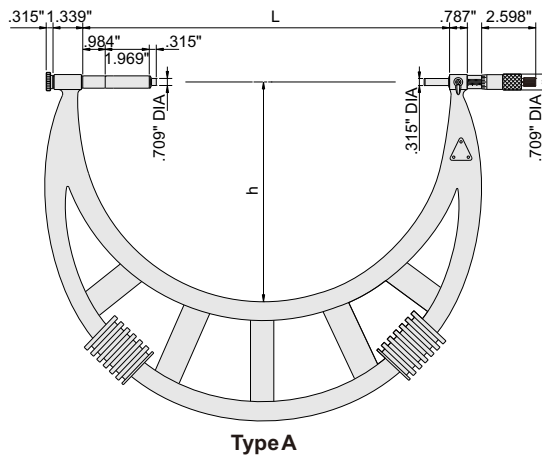
Code	Range	Accuracy	Type	L	h	Setting standards (included)
325-002-E01	0-2"	.00015"	A	2.283"	1.378"	1"
325-004-E01	0-4"	.00020"	A	4.252"	2.244"	1", 2", 3"
325-006-E01	0-6"	.00025"	A	6.220"	3.228"	1", 2", 3", 4", 5"
325-008-E01	4-8"	.00030"	A	8.189"	4.488"	4", 5", 6", 7"
325-012-E01	6-12"	.00035"	A	12.126"	6.496"	6", 7", 8", 9", 10", 11"
325-016-E02	12-16"	.00045"	B	16.102"	8.819"	13", 15"
325-020-E02	16-20"	.00050"	B	20.039"	10.827"	17", 19"
325-024-E02	20-24"	.00055"	B	24.235"	13.635"	21", 23"
325-028-E02	24-28"	.00065"	B	28.148"	15.512"	25", 27"
325-032-E02	28-32"	.00070"	B	32.156"	17.837"	29", 31"
325-036-E02	32-36"	.00080"	B	36.147"	20.043"	33", 35"
325-040-E02	36-40"	.00085"	B	40.211"	21.523"	37", 39"

- ◆ Adjust collars for different measuring ranges
- ◆ Graduation .0005"
- ◆ Ratchet stop
- ◆ Carbide measuring faces
- ◆ Supplied with setting standards

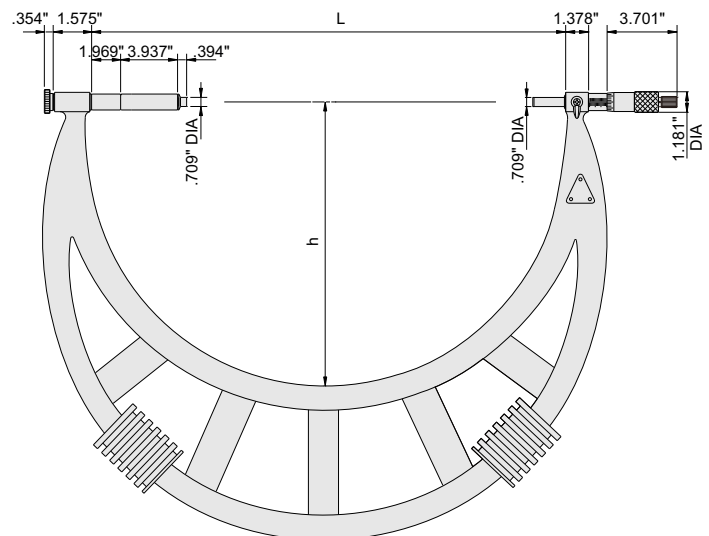
Adjust collars for different measuring ranges



329-016-E01



Type A



Type B

Setting standards(included)



Code	Range	Accuracy	Type	L	h	Setting standards(included)
329-016-E01	12-16"	.00045"	A	16.142"	9.843"	13", 15"
329-020-E01	16-20"	.00050"	A	20.079"	10.827"	17", 19"
329-024-E01	20-24"	.00055"	A	24.016"	12.598"	21", 23"
329-028-E01	24-28"	.00065"	A	28.148"	14.567"	25", 27"
329-032-E01	28-32"	.00070"	A	32.156"	16.732"	29", 31"
329-036-E01	32-36"	.00080"	A	36.147"	18.701"	33", 35"
329-040-E01	36-40"	.00085"	A	40.211"	22.638"	37", 39"
329-048-E01	40-48"	.00085"	B	48.215"	25.394"	42", 46"
329-056-E01	48-56"	.00095"	B	56.219"	29.331"	50", 54"
329-064-E01	56-64"	.00110"	B	64.223"	33.268"	58", 62"
329-072-E01	64-72"	.00125"	B	72.227"	37.205"	66", 70"
329-080-E01	72-80"	.00135"	B	80.231"	41.142"	74", 78"





## SERIES 388

## DIGITAL GEAR ROOT DIAMETER MICROMETER

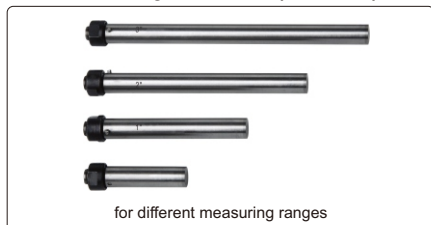


- ◆ Measure diameter of gear root circle
- ◆ Resolution .0001"/0.001mm  
(resolution of **388-004-E01** and **388-008-E01** is .00005"/0.001mm)
- ◆ IP65 protection level
- ◆ Button: on/off, set, mm/inch, ABS/INC, data output
- ◆ Automatic power off
- ◆ Data output
- ◆ Ratchet stop
- ◆ Carbide measuring faces
- ◆ Supplied with setting standards

### Setting standards (included)



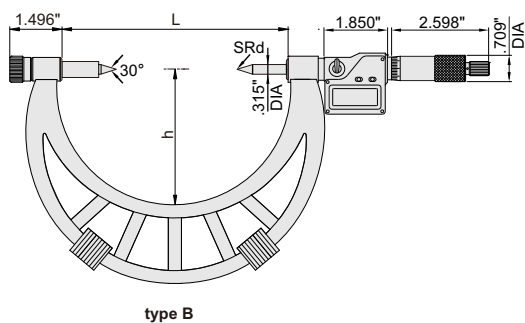
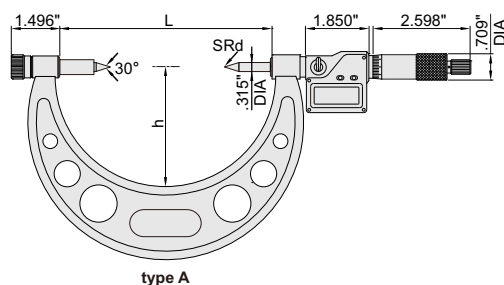
### Interchangeable anvils (included)



**388-004-E01**



**388-012-E01**



Code	Range	Accuracy	L	h	SRd	Type	Setting standards (included)
<b>388-004-E01</b>	0.2-4"/5-100mm	.00015"	5.394"	2.835"	.016"	A	1",2",3"
<b>388-008-E01</b>	4-8"/100-200mm	.00020"	9.331"	5.079"	.016"	A	4",5",6",7"
<b>388-012-E01</b>	8-12"/200-300mm	.0002"	16.300"	8.859"	.028"	B	8",9",10",11"
<b>388-016-E01</b>	12-16"/300-400mm	.0003"	20.236"	10.827"	.028"	B	13",15"
<b>388-020-E01</b>	16-20"/400-500mm	.0003"	24.173"	12.795"	.028"	B	17",19"
<b>388-024-E01</b>	20-24"/500-600mm	.0004"	28.110"	14.764"	.028"	B	21",23"
<b>388-028-E01</b>	24-28"/600-700mm	.0004"	32.047"	16.732"	.028"	B	25",27"
<b>388-032-E01</b>	28-32"/700-800mm	.0004"	35.984"	18.701"	.028"	B	29",31"
<b>388-036-E01</b>	32-36"/800-900mm	.0004"	39.921"	20.669"	.028"	B	33",35"

## SERIES 316

## DIGITAL BLADE MICROMETER



- ◆ Measure the groove diameter of shafts and keyways
- ◆ Resolution .00005"/0.001mm
- ◆ Non-rotating spindle
- ◆ Button: on/off, set, mm/inch, ABS/INC
- ◆ Automatic power off
- ◆ Data output
- ◆ Ratchet stop
- ◆ Supplied with setting standards(except 0-1"/0-25mm)

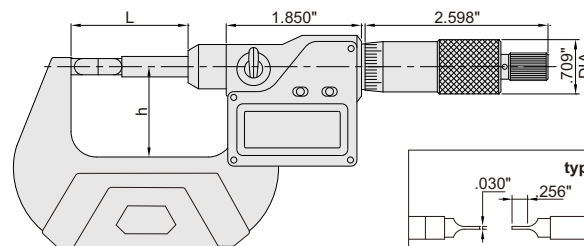
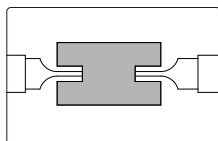


316-001-E01

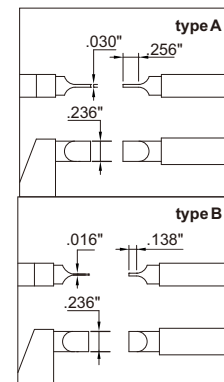
Setting standards  
(included)



Application



Code	Range	Accuracy	Type	h	L	Setting standards (included)
316-001-E01	0-1"/0-25mm	±.00015"	A	1.260"	2.244"	-
316-002-E01	1-2"/25-50mm	±.00015"	A	1.752"	3.228"	1"
316-003-E01	2-3"/50-75mm	±.00020"	A	2.244"	4.213"	2"
316-004-E01	3-4"/75-100mm	±.00020"	A	2.736"	5.220"	3"
316-001-E02	0-1"/0-25mm	±.00015"	B	1.260"	2.244"	-



ACCUD



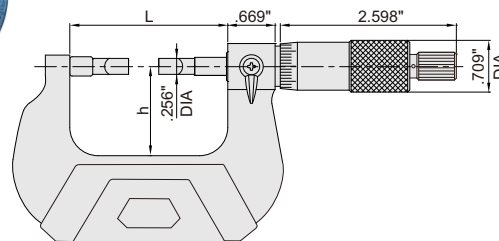
## SERIES 326

## BLADE MICROMETER

- ◆ Measure the small groove diameter
- ◆ Graduation: .0001"
- ◆ Non-rotating spindle
- ◆ Ratchet stop
- ◆ Setting standards are included (except 0-1")



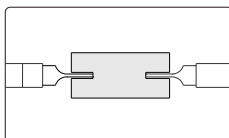
326-001-E03



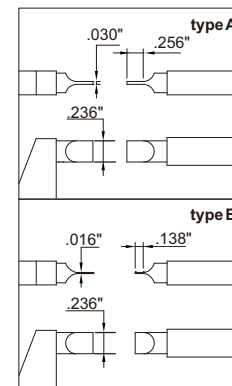
Setting standards (included)



Application



Code	Range	Accuracy	Type	L	h	Setting standards (included)
326-001-E03	0-1"	.00015"	A	2.244"	1.260"	-
326-002-E03	1-2"	.00015"	A	3.228"	1.752"	1"
326-003-E03	2-3"	.00020"	A	4.213"	2.244"	2"
326-004-E03	3-4"	.00020"	A	5.220"	2.736"	3"
326-005-E03	4-5"	.00025"	A	6.220"	3.228"	4"
326-006-E03	5-6"	.00025"	A	7.220"	3.720"	5"
326-007-E03	6-7"	.00030"	A	8.220"	4.213"	6"
326-001-E04	0-1"	.00015"	B	2.244"	1.260"	-
326-002-E04	1-2"	.00015"	B	3.228"	1.752"	1"



## SERIES 317

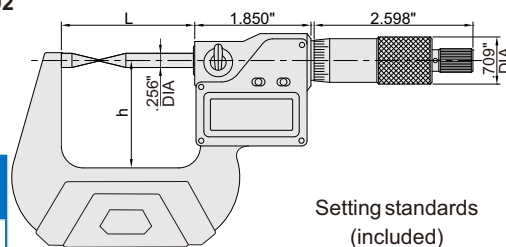
## DIGITAL POINT MICROMETER



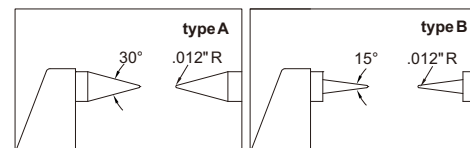
- ◆ Measure the web thickness of drills, small grooves and keyways
- ◆ Resolution .00005"/0.001mm
- ◆ IP65 protection level
- ◆ Button: on/off, set, mm/inch, ABS/INC, data output
- ◆ Automatic power off
- ◆ Data output
- ◆ Ratchet stop
- ◆ Carbide tips
- ◆ Supplied with setting standards (except 0-1"/0-25mm)



317-002-E02



Code	Range	Accuracy	Type	h	L	Setting standards (included)
317-001-E01	0-1"/0-25mm	±.00015"	A	1.260"	2.244"	-
317-002-E01	1-2"/25-50mm	±.00015"	A	1.752"	3.228"	1"
317-003-E01	2-3"/50-75mm	±.00020"	A	2.244"	4.213"	2"
317-004-E01	3-4"/75-100mm	±.00020"	A	2.736"	5.220"	3"
317-001-E02	0-1"/0-25mm	±.00015"	B	1.260"	2.244"	-
317-002-E02	1-2"/25-50mm	±.00015"	B	1.752"	3.228"	1"
317-003-E02	2-3"/50-75mm	±.00020"	B	2.244"	4.213"	2"
317-004-E02	3-4"/75-100mm	±.00020"	B	2.736"	5.220"	3"



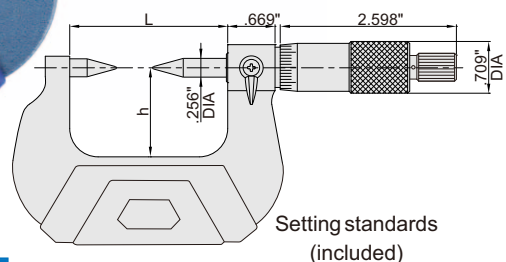
## SERIES 327

## POINT MICROMETER

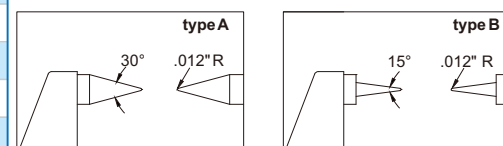
- ◆ Measure the thickness of drills, small grooves and keyways
- ◆ Graduation: .0001"
- ◆ Ratchet stop
- ◆ Carbide measuring faces
- ◆ Setting standards are included (except 0-1")



327-002-E03



Code	Range	Accuracy	Type	h	L	Setting standards (included)
327-001-E03	0-1"	.00015"	A	1.260"	2.244"	-
327-002-E03	1-2"	.00015"	A	1.752"	3.228"	1"
327-003-E03	2-3"	.00020"	A	2.244"	4.213"	2"
327-004-E03	3-4"	.00020"	A	2.736"	5.220"	3"
327-001-E04	0-1"	.00015"	B	1.260"	2.244"	-
327-002-E04	1-2"	.00015"	B	1.752"	3.228"	1"
327-003-E04	2-3"	.00020"	B	2.244"	4.213"	2"
327-004-E04	3-4"	.00020"	B	2.736"	5.220"	3"



MICROMETER

## SERIES 318

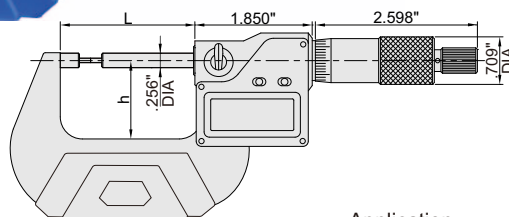
## DIGITAL SPLINE MICROMETER



- ◆ Measure splined shafts, slots and keyways
- ◆ Resolution .00005"/0.001mm
- ◆ IP65 protection level
- ◆ Button: on/off, set, mm/inch, ABS/INC, data output
- ◆ Automatic power off
- ◆ Data output
- ◆ Ratchet stop
- ◆ Carbide measuring faces
- ◆ Supplied with setting standards (except 0-1"/0-25mm)



318-001-E02

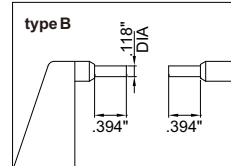
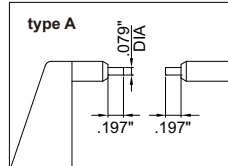
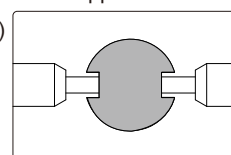


Code	Range	Accuracy	Type	h	L	Setting standards (included)
318-001-E01	0-1"/0-25mm	±.00015"	A	1.260"	2.244"	-
318-002-E01	1-2"/25-50mm	±.00015"	A	1.752"	3.228"	1"
318-003-E01	2-3"/50-75mm	±.00020"	A	2.244"	4.213"	2"
318-004-E01	3-4"/75-100mm	±.00020"	A	2.756"	5.236"	3"
318-001-E02	0-1"/0-25mm	±.00015"	B	1.260"	2.244"	-
318-002-E02	1-2"/25-50mm	±.00015"	B	1.752"	3.228"	1"
318-003-E02	2-3"/50-75mm	±.00020"	B	2.244"	4.213"	2"
318-004-E02	3-4"/75-100mm	±.00020"	B	2.756"	5.236"	3"

Setting standards(included)



Application



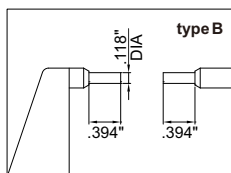
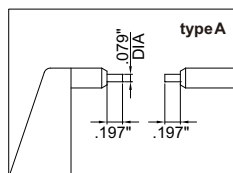
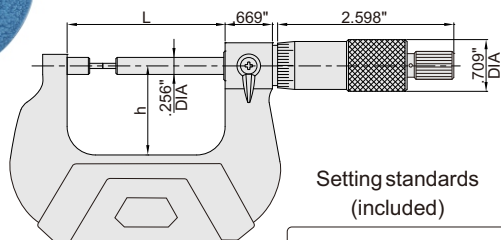
## SERIES 328

## SPLINE MICROMETER

- ◆ Measure grooves and sharped parts
- ◆ Graduation: .0001"
- ◆ Carbide measuring faces
- ◆ Ratchet stop
- ◆ Setting standards are included (except 0-1")



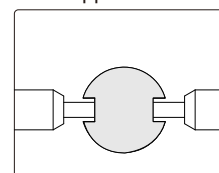
328-001-E03



Setting standards (included)



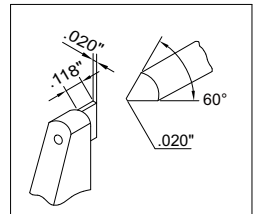
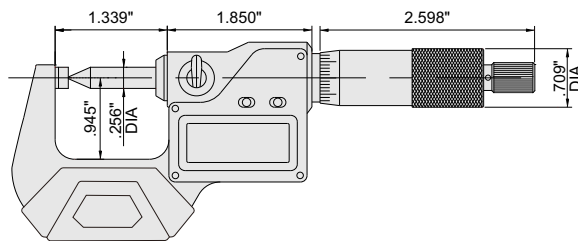
Application



Code	Range	Accuracy	Type	h	L	Setting standards(included)
328-001-E03	0-1"	.00015"	B	1.260"	2.244"	-
328-002-E03	1-2"	.00015"	B	1.752"	3.228"	1"
328-003-E03	2-3"	.00020"	B	2.244"	4.213"	2"
328-004-E03	3-4"	.00020"	B	2.736"	5.220"	3"
328-005-E03	4-5"	.00025"	B	3.228"	6.220"	4"
328-006-E03	5-6"	.00025"	B	3.720"	7.220"	5"
328-007-E03	6-7"	.00030"	B	4.213"	8.220"	6"
328-001-E04	0-1"	.00015"	A	1.260"	2.244"	-



- ◆ Measure the height of crimp contact
- ◆ Resolution .00005"/0.001mm
- ◆ IP65 protection level
- ◆ Button: on/off, set, mm/inch, ABS/INC, data output
- ◆ Automatic power off
- ◆ Data output
- ◆ Ratchet stop

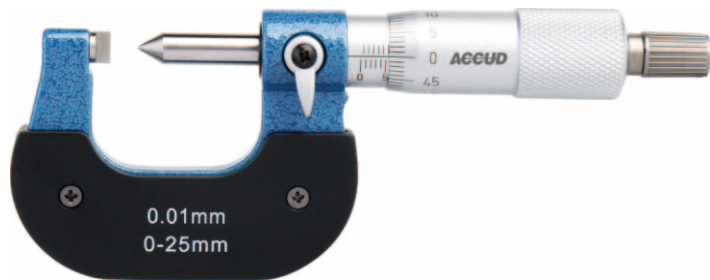


Code	Range	Accuracy
319-001-E01	0-1"/0-25mm	±.00015"

## SERIES 346

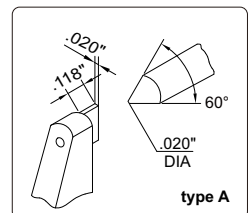
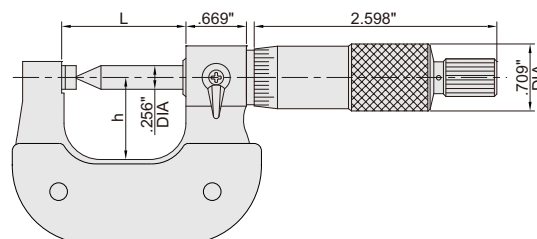
## CRIMP HEIGHT MICROMETER

- ◆ Measure the height of crimp contact
- ◆ Graduation .0001"
- ◆ Ratchet stop
- ◆ Supplied with setting standards (except 0-1")

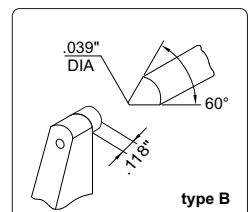


346-001-E01

Setting standards(included)



type A



type B

Code	Range	Accuracy	Type	L	h	Setting standards (included)
346-001-E01	0-1"	.00015"	A	1.339"	.945"	-
346-001-E02	0-1"	.00015"	B	1.339"	.945"	-
346-002-E02	1-2"	.00015"	B	2.323"	1.260"	1"
346-003-E02	2-3"	.00020"	B	3.346"	1.772"	2"
346-004-E02	3-4"	.00020"	B	4.331"	2.244"	3"

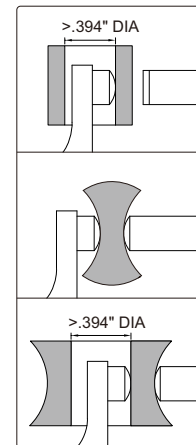
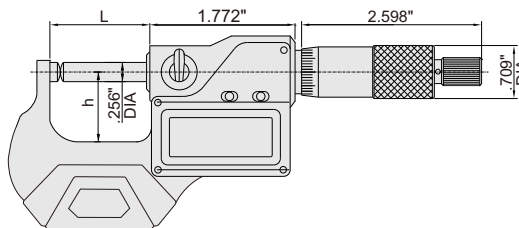
## SERIES 331

## DIGITAL SPHERICAL ANVIL TUBE MICROMETER

- ◆ Measure wall thickness of tubes
- ◆ Resolution .00005"/0.001mm
- ◆ IP65 protection level
- ◆ Button: on/off, set, mm/inch, ABS/INC, data output
- ◆ Automatic power off
- ◆ Data output
- ◆ Ratchet stop
- ◆ Carbide measuring faces
- ◆ Supplied with setting standards (except 0-1"/0-25mm)

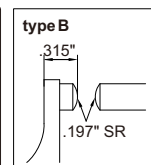
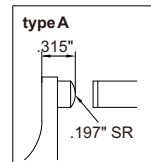


331-001-E02



Code	Range	Accuracy	Type	L	h	Setting standards(included)
331-001-E01	0-1"/0-25mm	±.00015"	A	1.260"	.945"	-
331-002-E01	1-2"/25-50mm	±.00015"	A	2.244"	1.260"	1"
331-003-E01	2-3"/50-75mm	±.00020"	A	3.228"	1.752"	2"
331-004-E01	3-4"/75-100mm	±.00020"	A	4.213"	2.244"	3"
331-001-E02	0-1"/0-25mm	±.00015"	B	1.260"	.945"	-
331-002-E02	1-2"/25-50mm	±.00015"	B	2.244"	1.260"	1"
331-003-E02	2-3"/50-75mm	±.00020"	B	3.228"	1.752"	2"
331-004-E02	3-4"/75-100mm	±.00020"	B	4.213"	2.244"	3"

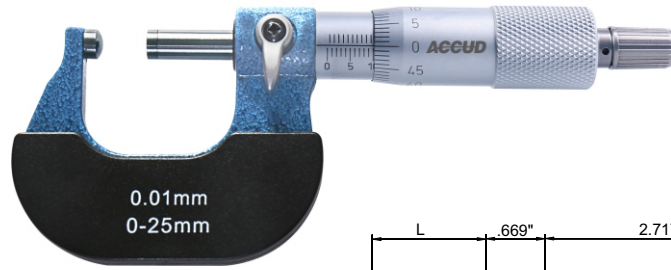
Setting standards  
(included)



## SERIES 340

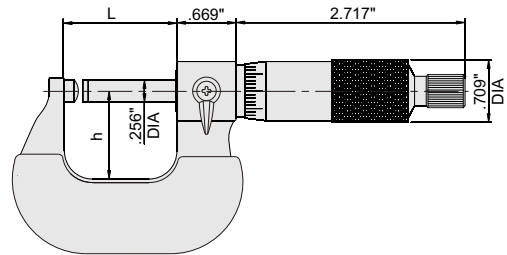
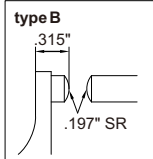
## SPHERICAL ANVIL TUBE MICROMETER

- ◆ Measure wall thickness of tubes
- ◆ Graduation: .0001"
- ◆ Carbide measuring faces
- ◆ Ratchet stop
- ◆ Setting standards are included (except 0-1")



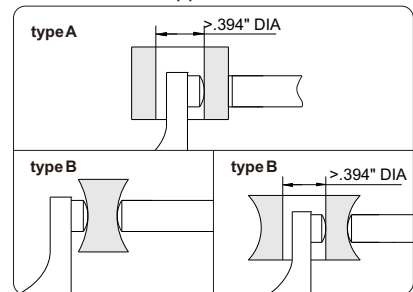
340-001-E01

Setting standards  
(included)



Code	Range	Type	Accuracy	L	h	Setting standards (included)
340-001-E01	0-1"	A	.00015"	1.260"	.945"	-
340-002-E01	1-2"	A	.00015"	2.244"	1.260"	1"
340-003-E01	2-3"	A	.00020"	3.228"	1.752"	2"
340-004-E01	3-4"	A	.00020"	4.213"	2.244"	3"
340-001-E02	0-1"	B	.00015"	1.260"	.945"	-
340-002-E02	1-2"	B	.00015"	2.244"	1.260"	1"
340-003-E02	2-3"	B	.00020"	3.228"	1.752"	2"
340-004-E02	3-4"	B	.00020"	4.213"	2.244"	3"

Application



## SERIES 380

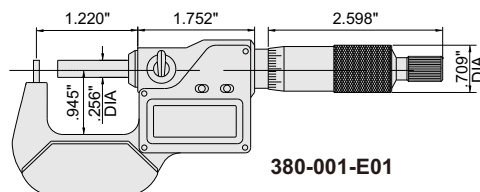
## DIGITAL CYLINDRICAL ANVIL TUBE MICROMETER



- ◆ Measure wall thickness of tubes
- ◆ Resolution .00005"/0.001mm
- ◆ IP65 protection level
- ◆ Button: on/off, set, mm/inch, ABS/INC, data output
- ◆ Automatic power off
- ◆ Data output
- ◆ Ratchet stop
- ◆ Carbide spindle tip

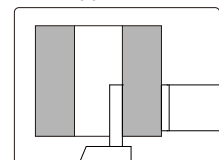


380-001-E04

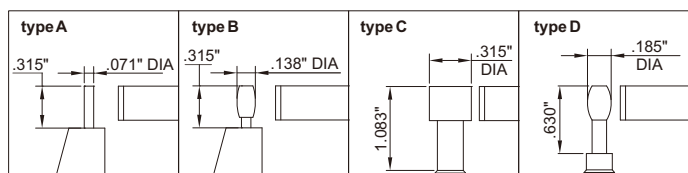


380-001-E01

Application



Code	Range	Accuracy	Type
380-001-E01	0-1"/0-25mm	±.00025"	A
380-001-E02	0-1"/0-25mm	±.00025"	B
380-001-E03	0-1"/0-25mm	±.00025"	C
380-001-E04	0-1"/0-25mm	±.00025"	D





## SERIES 341

## TUBE MICROMETER

- ◆ Measure the wall thickness of tube, bearing and rings
- ◆ Graduation: .0001"
- ◆ Carbide measuring faces
- ◆ Ratchet stop
- ◆ Setting standards are included (except 0-1")

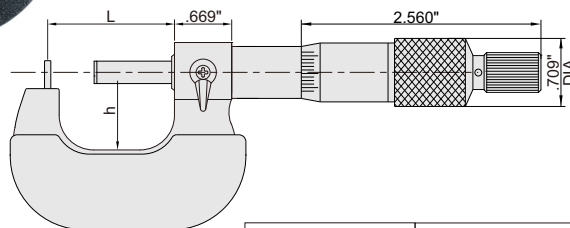
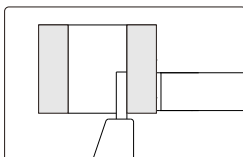


341-001-E01

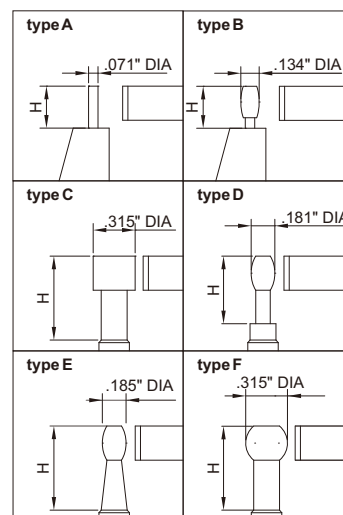
Setting standards(included)



Application



Code	Range	Accuracy	Type	H	h	L	Setting standards (included)
341-001-E01	0-1"	.00025"	A	.315"	.984"	1.417"	-
341-002-E01	1-2"	.00025"	A	.315"	1.260"	2.402"	1"
341-001-E02	0-1"	.00025"	B	.315"	.984"	1.417"	-
341-002-E02	1-2"	.00025"	B	.591"	1.260"	2.402"	1"
341-001-E03	0-1"	.00025"	C	1.083"	.984"	1.417"	-
341-002-E03	1-2"	.00025"	C	1.437"	1.260"	2.402"	1"
341-001-E04	0-1"	.00025"	D	.630"	.984"	1.417"	-
341-002-E04	1-2"	.00025"	D	1.024"	1.260"	2.402"	1"
341-001-E05	0-1"	.00025"	E	1.083"	.984"	1.417"	-
341-002-E05	1-2"	.00025"	E	1.378"	1.260"	2.402"	1"
341-001-E06	0-1"	.00025"	F	1.083"	.984"	1.417"	-
341-002-E06	1-2"	.00025"	F	1.398"	1.260"	2.402"	1"



## SERIES 332

## DIGITAL NON ROTATING SPINDLE DISK MICROMETER

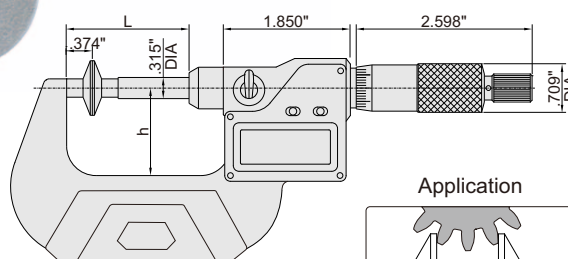


- ◆ Measure root tangent length of gear
- ◆ Resolution .00005"/0.001mm
- ◆ Non-rotating spindle
- ◆ Button: on/off, set, mm/inch, ABS/INC, data output
- ◆ Automatic power off
- ◆ Data output
- ◆ Ratchet stop
- ◆ Supplied with setting standards (except 332-001-E01)

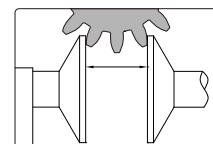


332-001-E01

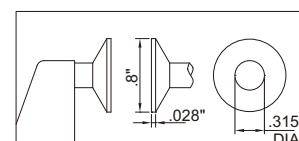
Setting standards(included)



Application



Code	Range	Accuracy	L	h	Setting standards (included)
332-001-E01	0-1"/0-25mm	±.00015"	1.693"	1.260"	-
332-002-E01	1-2"/25-50mm	±.00015"	2.677"	1.752"	1"
332-003-E01	2-3"/50-75mm	±.00020"	3.661"	2.244"	2"
332-004-E01	3-4"/75-100mm	±.00020"	4.665"	2.756"	3"



## SERIES 342

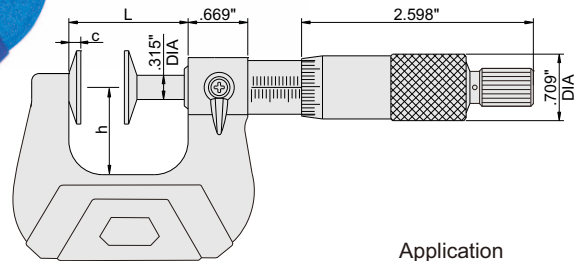
## DISK MICROMETER

- ◆ Measure root tangent length of gear
- ◆ Graduation .0001"
- ◆ Ratchet stop
- ◆ Supplied with setting standards (except 0-1")

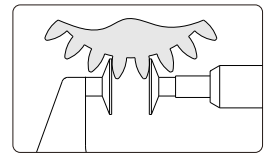
Setting standards(included)



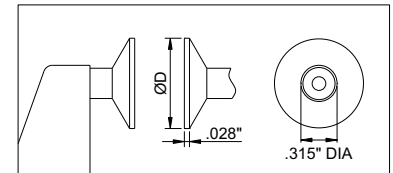
342-002-E02



Application



Code	Range	Accuracy	L	h	c	ØD	Setting standards (included)
342-001-E02	0-1"	.00015"	1.339"	.945"	.130"	.8"	-
342-002-E02	1-2"	.00015"	2.323"	1.260"	.130"	.8"	1"
342-003-E02	2-3"	.00020"	3.346"	1.772"	.130"	.8"	2"
342-004-E02	3-4"	.00020"	4.331"	2.244"	.130"	.8"	3"
342-005-E02	4-5"	.00025"	5.433"	2.756"	.169"	1.181"	4"
342-006-E02	5-6"	.00025"	6.417"	3.228"	.169"	1.181"	5"
342-007-E02	6-7"	.00030"	7.402"	3.740"	.169"	1.181"	6"



## SERIES 342

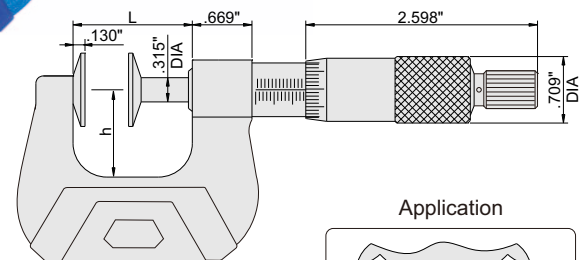
## NON-ROTATING SPINDLE DISK MICROMETER(ECONOMIC TYPE)

- ◆ Measure root tangent length of gear
- ◆ Graduation .0001"
- ◆ Non-rotating spindle
- ◆ Ratchet stop
- ◆ Supplied with setting standards (except 0-1")

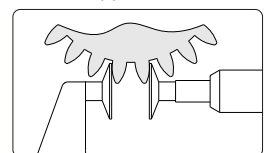
Setting standards(included)



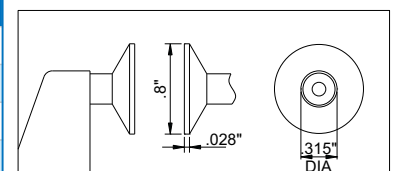
342-002-E01



Application



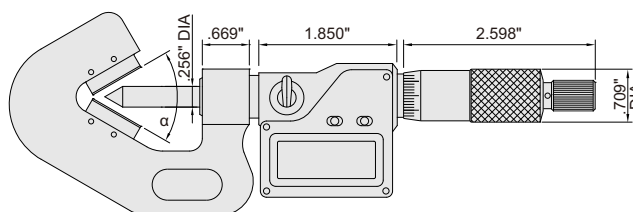
Code	Range	Accuracy	Parallelism	L	h	Setting standards (included)
342-001-E01	0-1"	.00015"	.00020"	1.339"	.945"	-
342-002-E01	1-2"	.00015"	.00020"	2.323"	1.260"	1"
342-003-E01	2-3"	.00020"	.00020"	3.346"	1.772"	2"
342-004-E01	3-4"	.00020"	.00020"	4.331"	2.244"	3"



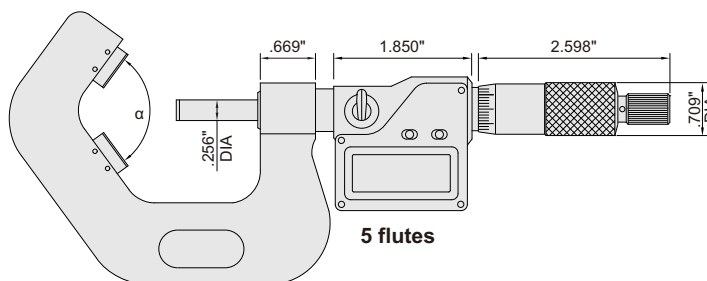


334-020-E01

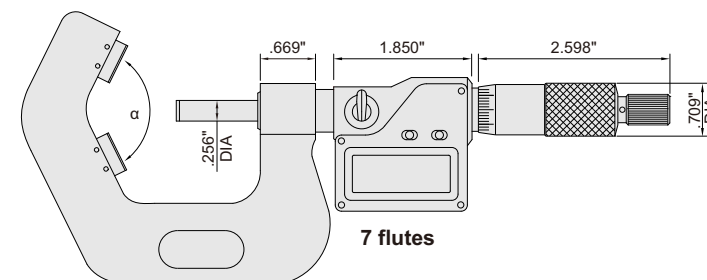
- ◆ Measure the diameter of parts or cutting tools with odd grooves such as taps, reamers and end mills
- ◆ Resolution: .00005"/0.001mm
- ◆ Button: on/off, set, mm/inch, ABS/INC, data output
- ◆ Automatic power off, Ratchet stop
- ◆ Data output
- ◆ Carbide measuring faces
- ◆ Supplied with setting standards



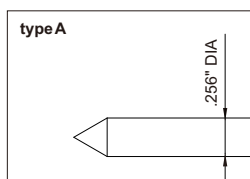
3 flutes



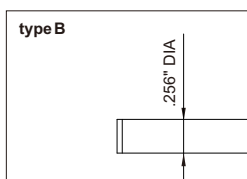
5 flutes



7 flutes



type A

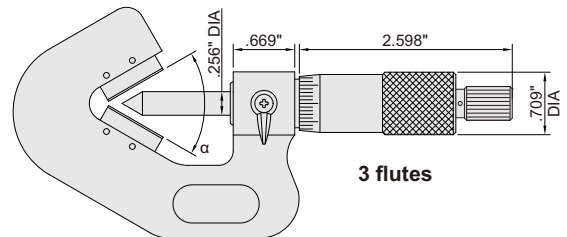
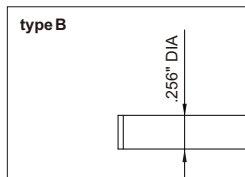
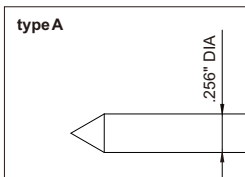
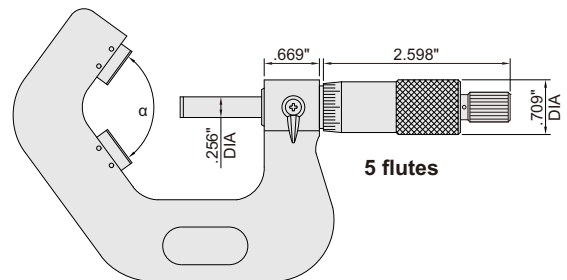
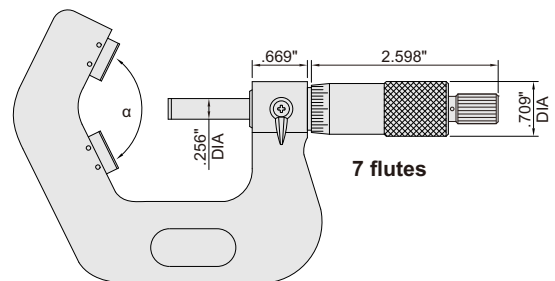


type B

Code	Range	Accuracy	Flutes	$\alpha$	Type
334-015-E01	.04-.6"/1-15mm	$\pm 0.0015''$	3	60°	A
334-020-E01	.2-.8"/5-20mm	$\pm 0.0015''$	3	60°	B
334-035-E01	.8-1.4"/20-35mm	$\pm 0.0020''$	3	60°	B
334-050-E01	1.4-2.0"/35-50mm	$\pm 0.0020''$	3	60°	B
334-065-E01	2.0-2.6"/50-65mm	$\pm 0.0025''$	3	60°	B
334-080-E01	2.6-3.2"/65-80mm	$\pm 0.0025''$	3	60°	B
334-095-E01	3.2-3.6"/80-95mm	$\pm 0.0025''$	3	60°	B
334-025-E55	.2-1.0"/5-25mm	$\pm 0.0015''$	5	108°	B
334-045-E55	1.0-1.8"/25-45mm	$\pm 0.0020''$	5	108°	B
334-065-E55	1.8-2.6"/45-65mm	$\pm 0.0025''$	5	108°	B
334-085-E55	2.6-3.4"/65-85mm	$\pm 0.0025''$	5	108°	B
334-105-E55	3.3-4.2"/85-105mm	$\pm 0.0025''$	5	108°	B
334-025-E77	.2-1.0"/5-25mm	$\pm 0.0015''$	7	128°34'17"	B
334-045-E77	1.0-1.8"/25-45mm	$\pm 0.0015''$	7	128°34'17"	B
334-065-E77	1.8-2.6"/45-65mm	$\pm 0.0020''$	7	128°34'17"	B
334-085-E77	2.6-3.4"/65-85mm	$\pm 0.0020''$	7	128°34'17"	B


**334-006-E01**

- ◆ Measure the diameter of parts or cutting tools with odd grooves such as taps, reamers and end mills
- ◆ Graduation .0001"
- ◆ Ratchet stop
- ◆ Carbide measuring faces
- ◆ Supplied with setting standards


**3 flutes**

**5 flutes**

**7 flutes**

Code	Range	Accuracy	Flutes	$\alpha$	Type
334-006-E01	.04-.6"	.00015"	3	60°	A
334-008-E01	.2-.8"	.00015"	3	60°	B
334-012-E01	.8-1.4"	.00020"	3	60°	B
334-019-E01	1.4-2"	.00020"	3	60°	B
334-024-E01	2-2.6"	.00025"	3	60°	B
334-032-E01	2.6-3.2"	.00025"	3	60°	B
334-036-E01	3.2-3.8"	.00030"	3	60°	B
334-025-E05	.2-1"	.00015"	5	108°	B
334-045-E05	1-1.8"	.00020"	5	108°	B
334-065-E05	1.8-2.6"	.00025"	5	108°	B
334-085-E05	2.6-3.4"	.00030"	5	108°	B
334-025-E07	.2-1"	.00015"	7	128°34'17"	B
334-045-E07	1-1.8"	.00020"	7	128°34'17"	B
334-065-E07	1.8-2.6"	.00025"	7	128°34'17"	B
334-085-E07	2.6-3.4"	.00030"	7	128°34'17"	B

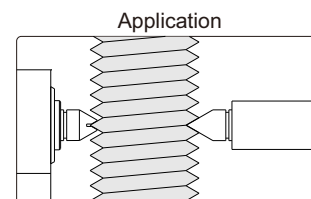
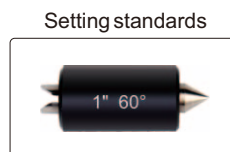
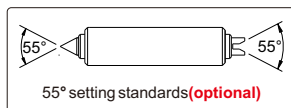
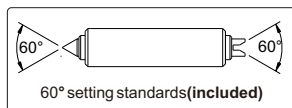
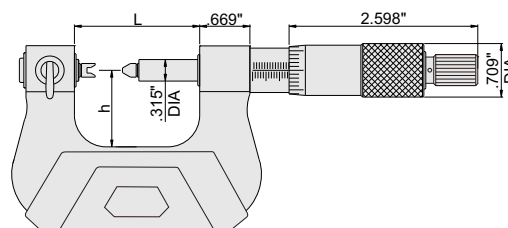
## SERIES 343

## SCREW THREAD MICROMETER



343-001-E02

- ◆ Measure pitch diameter of screw threads
- ◆ Graduation .0001"
- ◆ Non-rotating spindle
- ◆ Ratchet stop
- ◆ Supplied with 60° setting standards (except 0-1")
- ◆ Optional accessory: 55° setting standards, measuring tips



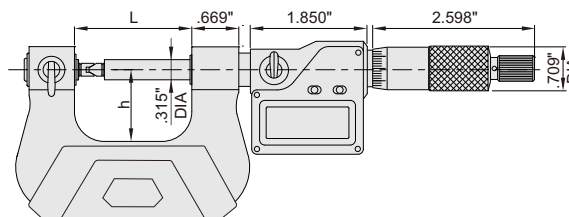
Code	Range	Micrometer head accuracy	L	h	Setting standards (included)
343-001-E02	0-1"	.00015"	1.654"	1.024"	-
343-002-E02	1-2"	.00015"	2.638"	1.496"	1"
343-003-E02	2-3"	.00020"	3.622"	1.969"	2"
343-004-E02	3-4"	.00020"	4.630"	2.441"	3"
343-005-E02	4-5"	.00025"	5.630"	2.756"	4"
343-006-E02	5-6"	.00025"	6.622"	3.228"	5"
343-007-E02	6-7"	.00030"	7.559"	3.720"	6"
343-008-E02	7-8"	.00030"	8.543"	4.213"	7"

### Accuracy of micrometers with tips

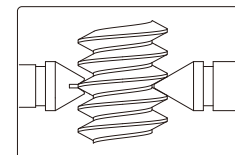
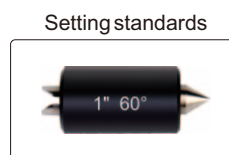
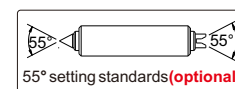
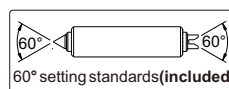
Pitch	Range					
	0-1"	1-2"	2-3"	3-4"	4-5"	5-8"
64-48TPI	±.00040"	-	-	-	-	-
44-32TPI	±.00040"	±.00050"	-	-	-	-
28-20TPI	±.00045"	±.00060"	±.00065"	±.00065"	-	-
18-13TPI	±.00055"	±.00065"	±.00075"	±.00075"	±.00080"	±.00090"
12-7TPI	±.00065"	±.00075"	±.00085"	±.00085"	±.00090"	±.00100"
6-3.5TPI	-	±.00085"	±.00090"	±.00090"	±.00100"	±.00110"



**333-001-E01**



- ◆ Measure pitch diameter of screw threads
- ◆ Resolution .00005"/0.001mm
- ◆ Button: on/off, set, mm/inch, ABS/INC, data output
- ◆ Automatic power off
- ◆ Data output
- ◆ Non-rotating spindle
- ◆ Ratchet stop
- ◆ Supplied with 60° setting standards (except **333-001-E01**)
- ◆ Optional accessory: 55° setting standards



Code	Range	Micrometer head accuracy	L	h	Setting standards (included)
<b>333-001-E01</b>	0-1"/0-25mm	±.00015"	1.654"	1.024"	-
<b>333-002-E01</b>	1-2"/25-50mm	±.00015"	2.638"	1.496"	1"
<b>333-003-E01</b>	2-3"/50-75mm	±.00020"	3.622"	1.969"	2"
<b>333-004-E01</b>	2-3"/75-100mm	±.00020"	4.630"	2.441"	3"
<b>333-005-E01</b>	4-5"/100-125mm	±.00025"	5.630"	2.756"	4"
<b>333-006-E01</b>	5-6"/125-150mm	±.00025"	6.614"	3.228"	5"
<b>333-007-E01</b>	6-7"/150-175mm	±.00030"	7.559"	3.720"	6"
<b>333-008-E01</b>	7-8"/175-200mm	±.00030"	8.543"	4.213"	7"

**Accuracy of micrometers with tips**

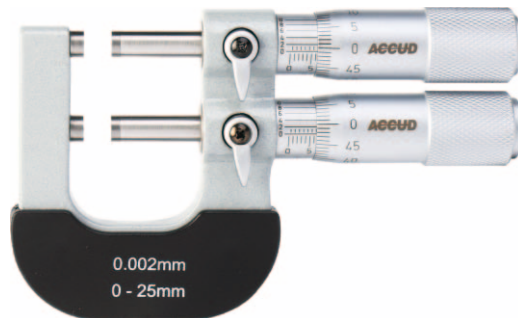
Pitch	Range					
	0-1"	1-2"	2-3"	3-4"	4-5"	5-8"
<b>64-48TPI</b>	±.00040"	-	-	-	-	-
<b>44-32TPI</b>	±.00040"	±.00050"	-	-	-	-
<b>28-20TPI</b>	±.00045"	±.00060"	±.00065"	±.00065"	-	-
<b>18-13TPI</b>	±.00055"	±.00065"	±.00075"	±.00075"	±.00080"	±.00090"
<b>12-7TPI</b>	±.00065"	±.00075"	±.00085"	±.00085"	±.00090"	±.00100"
<b>6-3.5TPI</b>	-	±.00085"	±.00090"	±.00090"	±.00100"	±.00110"



## SERIES 335

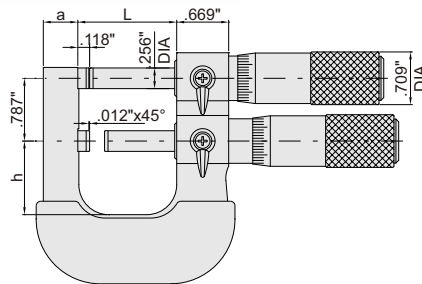
## LIMIT MICROMETER

- ◆ Used as Go/No-Go gauge by setting upper and lower limits
- ◆ Graduation .0001"
- ◆ Carbide measuring faces
- ◆ Supplied with setting standard (except **335-001-E01**)



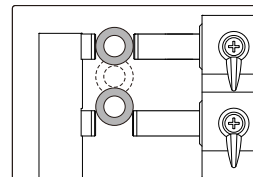
**335-001-E01**

Setting standards(included)



Code	Range	Accuracy	L	a	h	Setting standards(included)
<b>335-001-E01</b>	0-1"	.00015"	1.260"	.472"	.945"	-
<b>335-002-E01</b>	1-2"	.00015"	2.244"	.591"	1.260"	1"

Application



## SERIES 350

## DIGITAL SHEET METAL MICROMETER

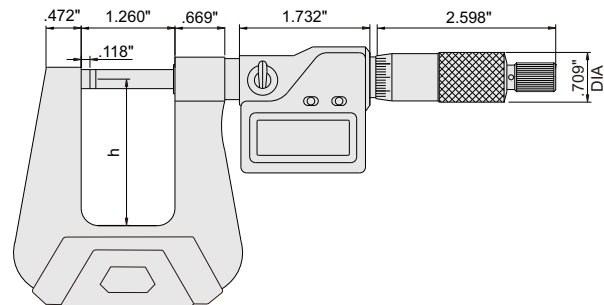


ACCUD

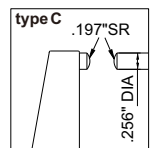
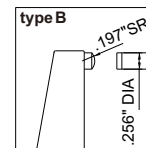
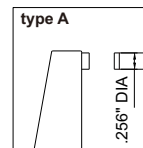
- ◆ Deep frame suitable for sheet metal, paper and plastic
- ◆ Resolution: .00005"/0.001mm
- ◆ IP65 protection level
- ◆ Button: on/off, mm/inch, set, zero, ABS/INC, data output
- ◆ Automatic power off
- ◆ Data output
- ◆ Carbide measuring faces, ratchet stop



350-001-E11



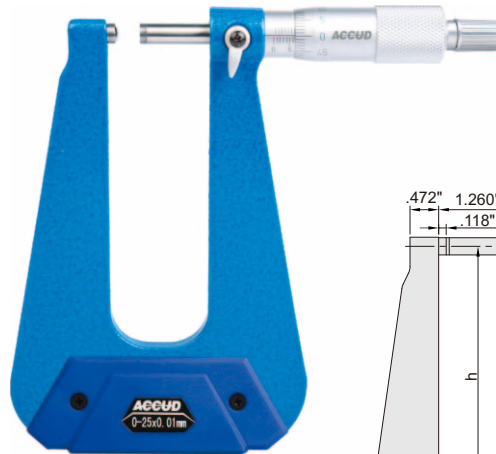
Code	Range	Accuracy	Type	h
350-001-E13	0-1"/0-25mm	±.00030"	A	6.102"
350-001-E23	0-1"/0-25mm	±.00030"	B	6.102"
350-001-E24	0-1"/0-25mm	±.00040"	B	12.205"
350-001-E33	0-1"/0-25mm	±.00028"	C	6.102"



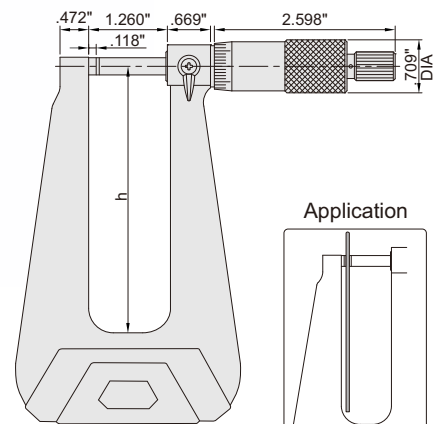
## SERIES 336

## SHEET METAL MICROMETER

- ◆ Deep frame suitable for sheet metal, paper and plastic
- ◆ Graduation .0001"
- ◆ Ratchet stop
- ◆ Carbide measuring faces

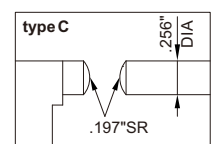
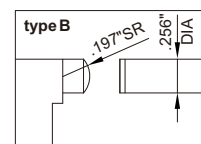
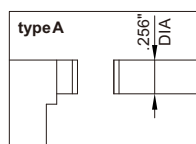


336-001-E01



MICROMETER

Code	Range	Accuracy	Type	h
336-001-E02	0-1"	.00030"	A	6.102"
336-001-E03	0-1"	.00030"	B	6.102"
336-001-E05	0-1"	.00040"	B	12.205"
336-001-E04	0-1"	.00030"	C	6.102"



## SERIES 330

## JAW TYPE MICROMETER

- ◆ Graduation .0001"
- ◆ Non-rotating spindle, painted frame,
- ◆ Ratchet stop
- ◆ Supplied with setting standards (except 330-001-E01)

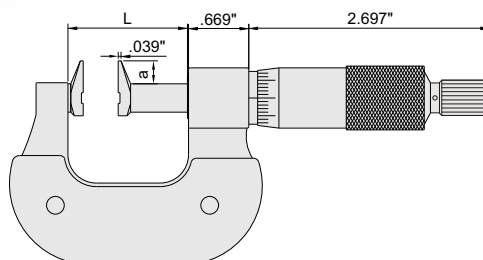
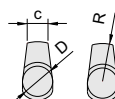


330-001-E01

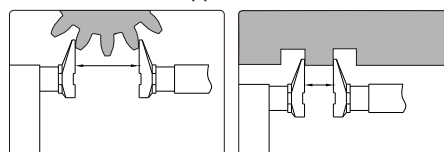
Setting standards(included)



Code	Range	Accuracy	L	a	c	R	D	Setting standards (included)
330-001-E01	0-1"	.00015"	1.339"	.236"	.197"	.394"	.315"	-
330-002-E01	1-2"	.00015"	2.323"	.236"	.197"	.394"	.315"	1"
330-003-E01	2-3"	.00020"	3.346"	.236"	.197"	.394"	.315"	2"
330-004-E01	3-4"	.00020"	4.331"	.236"	.197"	.394"	.315"	3"
330-005-E01	4-5"	.00025"	5.433"	.354"	.315"	.591"	.472"	4"
330-006-E01	5-6"	.00025"	6.417"	.354"	.315"	.591"	.472"	5"
330-007-E01	6-7"	.00030"	7.402"	.354"	.315"	.591"	.472"	6"
330-008-E01	7-8"	.00030"	8.425"	.354"	.315"	.591"	.472"	7"



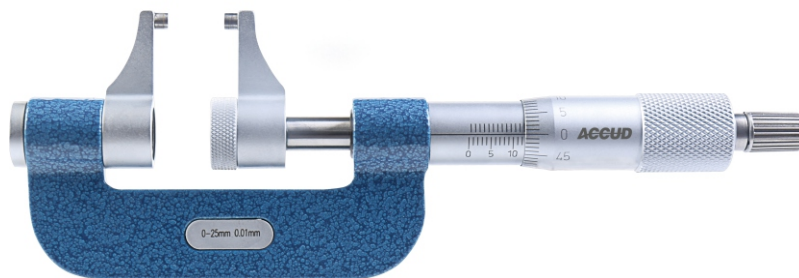
Application



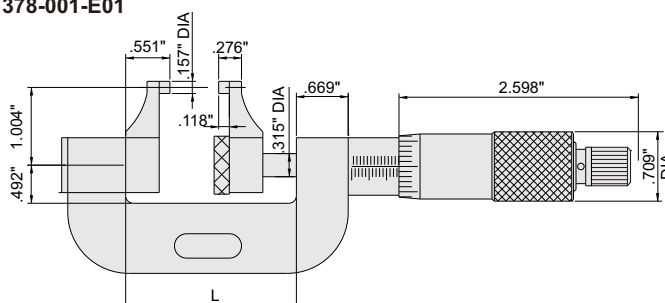
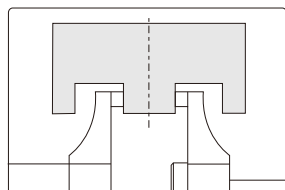
## SERIES 378

## CALIPER TYPE MICROMETER

- ◆ Graduation .001"
- ◆ Non-rotating spindle
- ◆ Ratchet stop
- ◆ Carbide measuring faces
- ◆ Supplied with setting standards (except 378-001-E01)



378-001-E01



Code	Range	Accuracy	L	Setting standards(included)
378-001-E01	0-1"	.00040"	2.205"	-
378-002-E01	1-2"	.00040"	3.189"	1"
378-003-E01	2-3"	.00045"	4.173"	2"
378-004-E01	3-4"	.00045"	5.157"	3"

Setting standards(included)



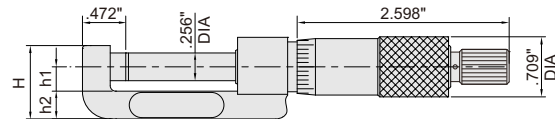
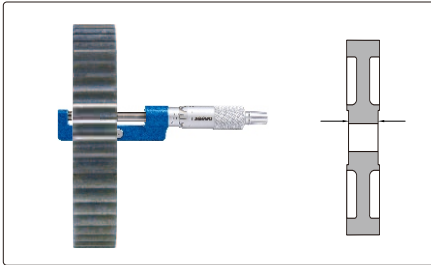
## SERIES 337

## HUB MICROMETER

- ◆ Measure hub thickness and shoulder inside a bore
- ◆ Graduation .0001"
- ◆ Ratchet stop
- ◆ Carbide measuring faces
- ◆ Supplied with setting standards (except **337-001-E01**)



**337-002-E01**



Code	Range	Accuracy	h1	h2	H	Setting standards(included)
<b>337-001-E01</b>	0-1"	.00015"	.236"	.354"	.736"	-
<b>337-002-E01</b>	1-2"	.00015"	.256"	.433"	.835"	1"
<b>337-003-E01</b>	2-3"	.00020"	.256"	.433"	.835"	2"
<b>337-004-E01</b>	3-4"	.00020"	.256"	.433"	.835"	3"

Setting standards(included)



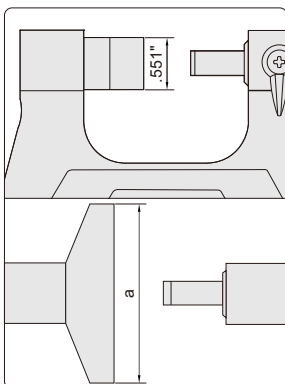
## SERIES 308

## LARGE ANVIL MICROMETER

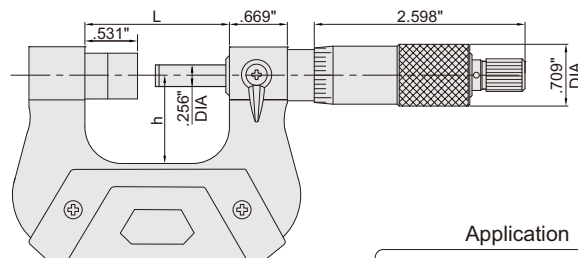
- ◆ Graduation .0001"
- ◆ Ratchet stop
- ◆ Supplied with setting standards (except 0-1")



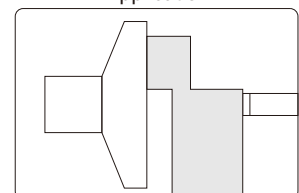
**308-001-E01**



Setting standards(included)



Application



Code	Range	Accuracy	a	h	L	Setting standards(included)
<b>308-001-E01</b>	0-1"	.00015"	1.969"	1.024"	1.654"	-
<b>308-002-E01</b>	1-2"	.00015"	2.362"	1.496"	2.638"	1"



## SERIES 302

## DIGITAL UNIVERSAL MICROMETER



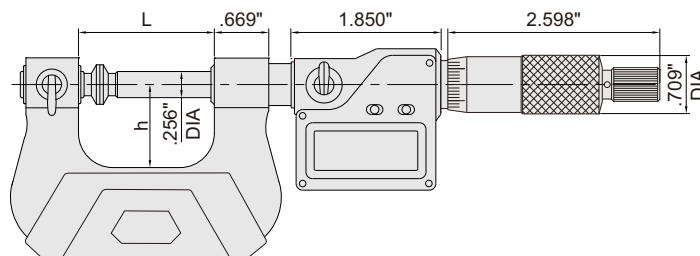
- ◆ Resolution .00005" / 0.001mm
- ◆ Non-rotating spindle
- ◆ Button: on/off, set, mm/inch, ABS/INC, data output
- ◆ Automatic power off
- ◆ Data output
- ◆ Ratchet stop
- ◆ Supplied with 7 pairs of anvil/spindle tips
- ◆ Setting standards are included (except 0-1"/0-25mm)
- ◆ Optional accessory: 55° anvil/spindle tip



302-001-E01

### Standard anvil/spindle tip

Flat		
Spherical		
Spline		
Disk		
Blade		
Knife-edge		
Point		



### Optional 55° anvil/spindle tip

301-000-01 Knife-edge		
301-000-02 Point		

Code	Range	Accuracy	L	h	Setting standards(included)
302-001-E01	0-1"/0-25mm	±.00015"	1.654"	1.024"	-
302-002-E01	1-2"/25-50mm	±.00015"	2.638"	1.496"	1"
302-003-E01	2-3"/50-75mm	±.00020"	3.622"	1.969"	2"
302-004-E01	3-4"/75-100mm	±.00020"	4.646"	2.441"	3"
302-005-E01	4-5"/100-125mm	±.00025"	5.630"	2.756"	4"
302-006-E01	5-6"/125-150mm	±.00025"	6.614"	3.228"	5"
302-007-E01	6-7"/150-175mm	±.00030"	7.559"	3.740"	6"
302-008-E01	7-8"/175-200mm	±.00030"	8.543"	4.213"	7"

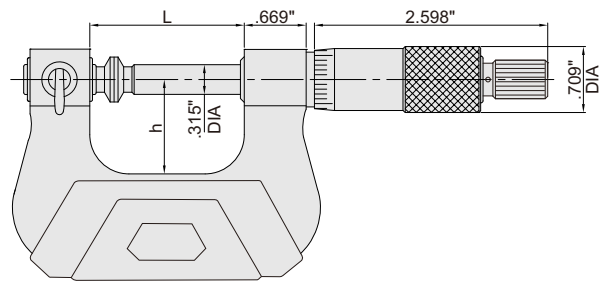
Setting standards(included)



- ◆ Graduation .0001"
- ◆ Non-rotating spindle
- ◆ Ratchet stop
- ◆ Supplied with 7 pairs of anvil/spindle tips
- ◆ Setting standards are included (except 0-1")
- ◆ Optional accessory: 55° anvil/spindle tip


**301-001-E01**
**Standard anvil/spindle tip**

Flat		
Spherical		
Spline		
Disk		
Blade		
Knife-edge		
Point		


**Optional 55° anvil/spindle tip**

301-000-01 Knife-edge		
301-000-02 Point		

Code	Range	Accuracy	L	h	Setting standards(included)
301-001-E01	0-1"	.00015"	1.654"	1.024"	-
301-002-E01	1-2"	.00015"	2.638"	1.496"	1"
301-003-E01	2-3"	.00020"	3.622"	1.969"	2"
301-004-E01	3-4"	.00020"	4.646"	2.441"	3"
301-005-E01	4-5"	.00025"	5.630"	2.756"	4"
301-006-E01	5-6"	.00025"	6.614"	3.228"	5"
301-007-E01	6-7"	.00030"	7.559"	3.740"	6"
301-008-E01	7-8"	.00030"	8.543"	4.213"	7"

Setting standards(included)



## SERIES 310

## OUTSIDE MICROMETER FOR LEFT OR RIGHT HAND

- ◆ Graduation .001"
- ◆ Graduations on two sides
- ◆ Ratchet stop
- ◆ Carbide measuring faces
- ◆ Supplied with setting standards (except 0-1")

Setting standards (included)



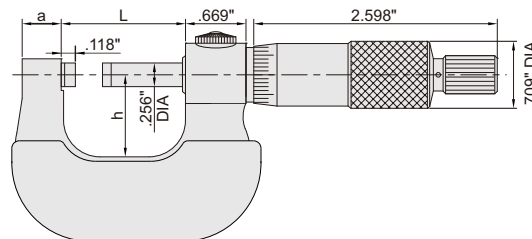
front side

310-001-E01



reverse side

Code	Range	Accuracy	a	h	L	Setting standards (included)
310-001-E01	0-1"	.00015"	.236"	.945"	1.260"	-
310-002-E01	1-2"	.00015"	.315"	1.260"	2.244"	1"
310-003-E01	2-3"	.00020"	.315"	1.772"	3.228"	2"
310-004-E01	3-4"	.00020"	.315"	2.244"	4.213"	3"
310-005-E01	4-5"	.00025"	.315"	2.756"	5.236"	4"
310-006-E01	5-6"	.00025"	.315"	3.228"	6.220"	5"
310-007-E01	6-7"	.00030"	.315"	3.740"	7.205"	6"
310-008-E01	7-8"	.00030"	.315"	4.213"	8.228"	7"



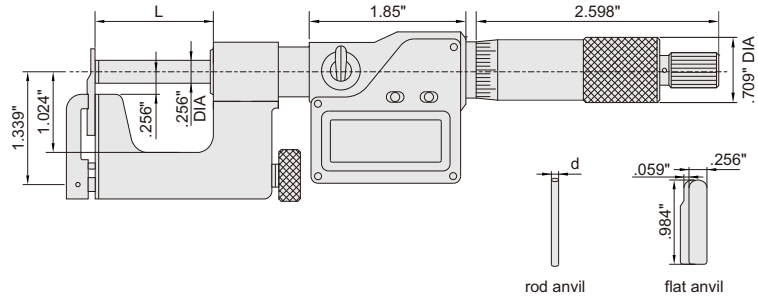
## SERIES 397

## DIGITAL INTERCHANGEABLE ANVIL MICROMETER



ACCUD

- ◆ Measure tube thickness, shoulder edge distance, rivet head height, etc.
- ◆ Supplied with flat anvil and rod anvil
- ◆ Resolution .00005"/0.001mm
- ◆ IP65 dust/waterproof
- ◆ Button function: on/off, set, mm/inch, ABS/INC
- ◆ Automatic power off
- ◆ Data output
- ◆ Ratchet stop
- ◆ Carbide spindle tip
- ◆ Setting standards are included (except 0-1"/0-25mm)

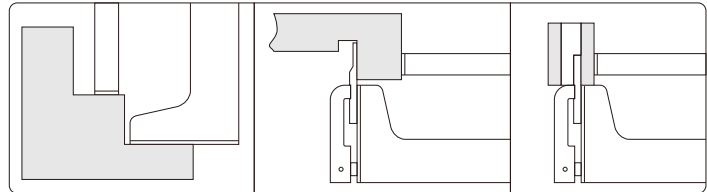


Setting standards (included)



Code	Range	Accuracy	L	d
397-001-E01	0-1"/0-25mm	±.00015"	1.122"	.118" DIA
397-002-E01	1-2"/25-50mm	±.00015"	2.106"	.197" DIA

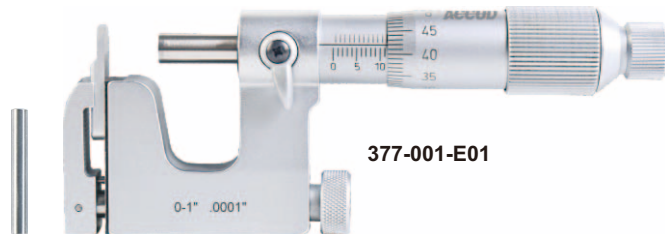
Application



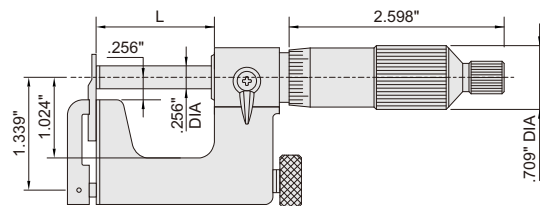
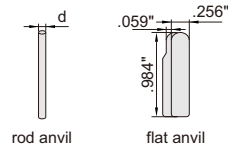
## SERIES 377

## INTERCHANGEABLE ANVIL MICROMETER

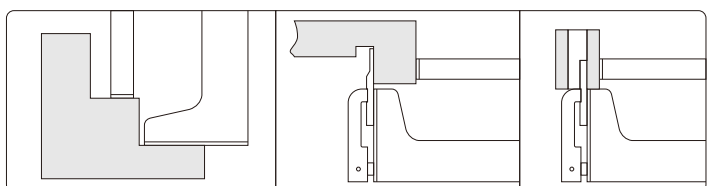
- ◆ Measure tube thickness, shoulder edge distance, rivet head height, etc.
- ◆ Supplied with flat anvil and rod anvil
- ◆ Graduation .0001"
- ◆ Ratchet stop
- ◆ Carbide spindle tip
- ◆ Setting standards are included (except 0-1")



Setting standards (included)



Application



Code	Range	Accuracy	L	d
377-001-E01	0-1"	.00015"	1.122"	.118" DIA
377-002-E01	1-2"	.00015"	2.106"	.197" DIA

MICROMETER



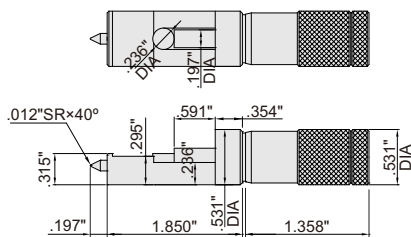
## SERIES 348

## CAN SEAM MICROMETER

- ◆ Measure the width, height and depth of can seams
- ◆ Graduation .001"



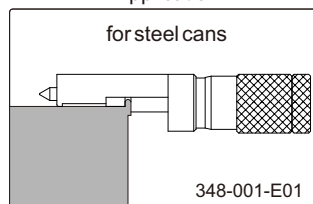
348-001-E01



348-001-E01

### Application

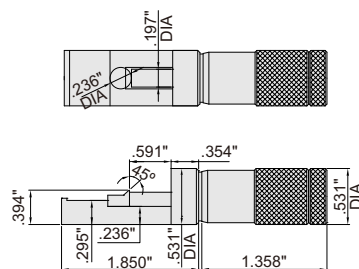
for steel cans



348-001-E01



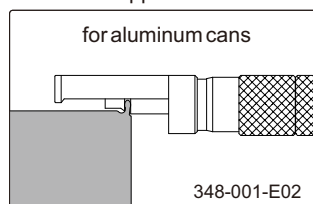
348-001-E02



348-001-E02

### Application

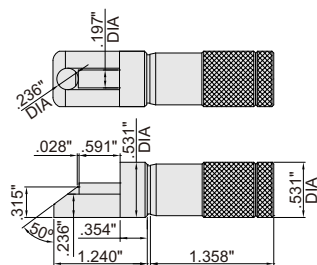
for aluminum cans



348-001-E02



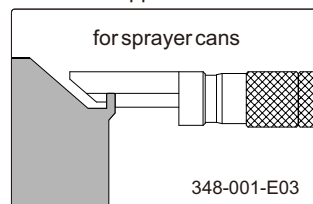
348-001-E03



348-001-E03

### Application

for sprayer cans



348-001-E03

Code	Range	Accuracy
348-001-E01	0-.5"	.00015"
348-001-E02	0-.5"	.00015"
348-001-E03	0-.5"	.00015"

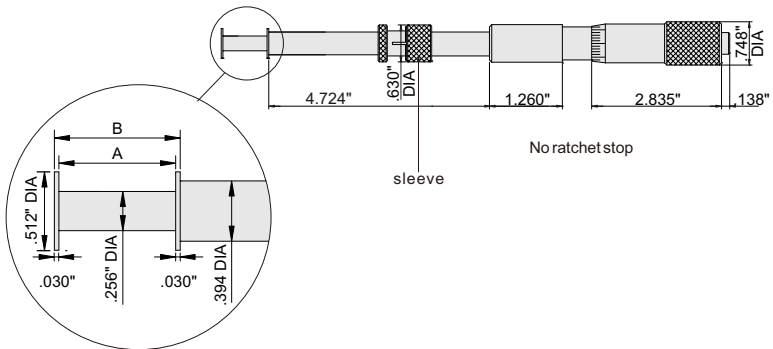
## SERIES 344

## GROOVE MICROMETER

- ◆ Graduation .001"
- ◆ Measure width of grooves inside bores
- ◆ Non-rotating spindle
- ◆ Two graduations for inside and outside measurement



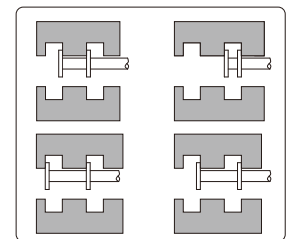
344-004-E01



### No ratchet stop

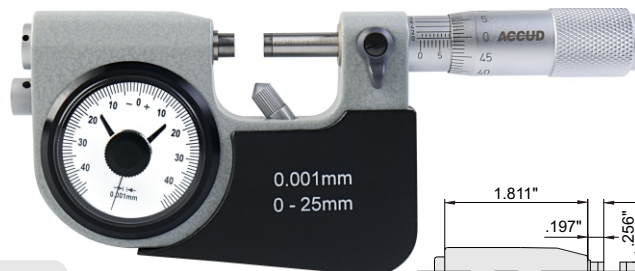
Code	Range (outside B)	Range (inside A)	Accuracy
344-001-E01	0-1"	.06-1.05"	.00039"
344-002-E01	1-2"	1.05-2.05"	.00039"
344-003-E01	2-3"	2.05-3.05"	.00039"
344-004-E01	3-4"	3.05-4.05"	.00039"

### Application



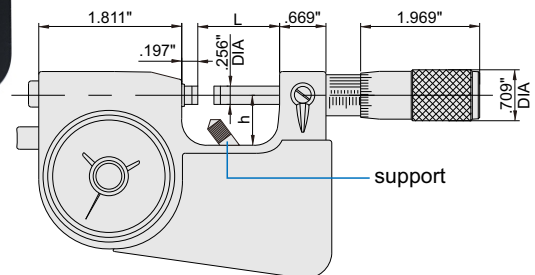
## SERIES 349

## INDICATING MICROMETER



349-001-E01

- ◆ Dial indicator: range  $\pm .0015"$ , graduation .00005", accuracy .00005"
- ◆ Carbide measuring faces
- ◆ Supplied with setting standards (except 0-1")



## MICROMETER

Code	Micrometer head range	Micrometer head graduation	Micrometer head accuracy	L	h	Setting standards (included)	Support
349-001-E01	0-1"	.0001"	.00015"	1.122"	.748"	-	with
349-002-E01	1-2"	.0001"	.00015"	2.106"	1.181"	1"	with
349-003-E01	2-3"	.0001"	.00020"	3.091"	1.772"	2"	without
349-004-E01	3-4"	.0001"	.00020"	4.075"	2.244"	3"	without

Setting standards(included)





## SERIES 349

## DIAL SNAP GAUGE



- ◆ Go/No-Go judgement for mass production
- ◆ Dial indicator: range  $\pm .0015"$   
graduation  $.00005"$ , accuracy  $.00004"$
- ◆ IP54 dust/waterproof
- ◆ Measuring force: 1.125-2.25lbf
- ◆ Carbide measuring faces
- ◆ Supplied with setting standards (except 0-1")

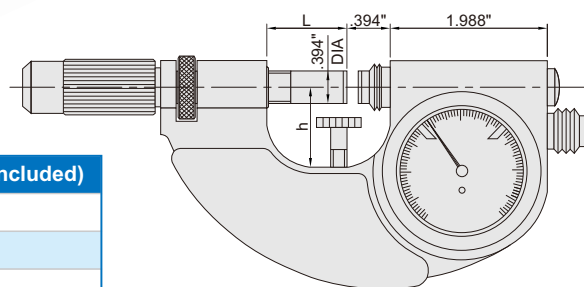


349-001-E21

Setting standards(included)



Code	Range	h	L	Setting standards (included)
349-001-E21	0-1"	.984	1.122"	-
349-002-E22	1-2"	1.378"	2.106"	1"
349-003-E23	2-3"	1.870"	3.091"	2"
349-004-E24	3-4"	2.362"	4.075"	3"



## SERIES 347

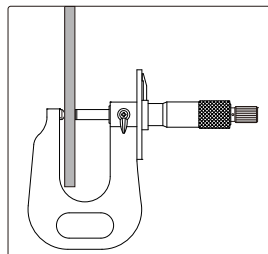
## SHEET METAL MICROMETER

- ◆ Measure thickness of sheet metal, paper, plastic and rubber parts
- ◆ Graduation  $.001"$
- ◆ Ratchet stop
- ◆ Carbide measuring faces

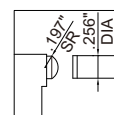
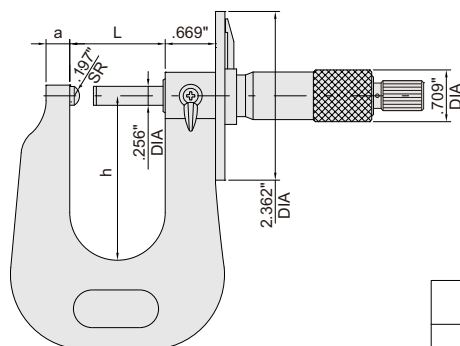


347-001-E01

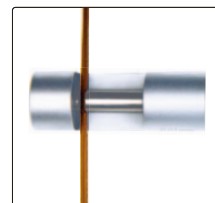
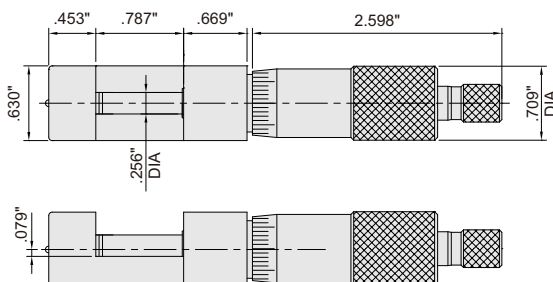
Application



Code	Range	Accuracy	a	h	L
347-015-E01	0-.6"	.00015"	.315"	1.969"	.866"
347-001-E01	0-1"	.00015"	.315"	1.969"	1.260"
347-002-E01	0-2"	.00020"	.472"	3.937"	2.244"



- ◆ Measure diameter of wires and small balls
- ◆ Graduation .0001"
- ◆ Ratchet stop
- ◆ Carbide measuring faces

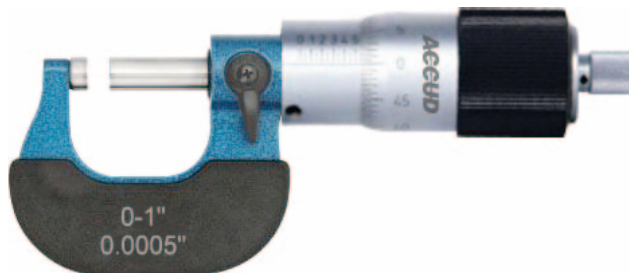


Code	Range	Accuracy
370-010-E01	0-.4"	.00015"

## SERIES 369

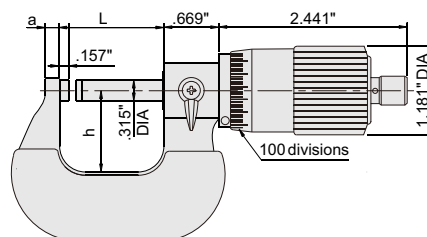
## QUICK FEEDING OUTSIDE MICROMETER

- ◆ Graduation .0005"
- ◆ .05" feeding of each turn
- ◆ Friction thimble
- ◆ Carbide measuring faces
- ◆ Supplied with setting standards (except 0-1")



369-001-E01

Code	Range	Accuracy	a	h	L	Setting standards (included)
369-001-E01	0-1"	.00015"	.236"	.945"	1.260"	-
369-002-E01	1-2"	.00015"	.315"	1.260"	2.244"	1"
369-003-E01	2-3"	.00020"	.315"	1.772"	3.228"	2"
369-004-E01	3-4"	.00020"	.315"	2.244"	4.213"	3"
369-005-E01	4-5"	.00025"	.315"	2.756"	5.236"	4"
369-006-E01	5-6"	.00025"	.315"	3.228"	6.220"	5"
369-007-E01	6-7"	.00030"	.315"	3.740"	7.205"	6"
369-008-E01	7-8"	.00030"	.315"	4.213"	8.228"	7"



Setting standards (included)





## SERIES 307

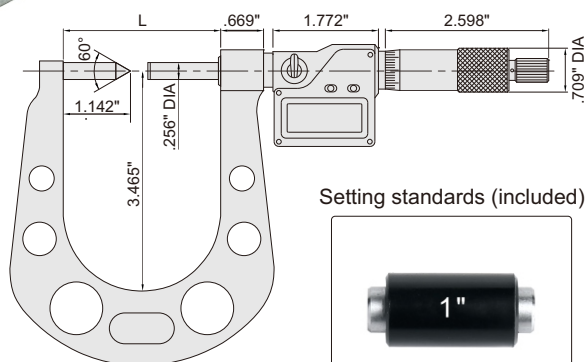
## DIGITAL DISK BRAKE MICROMETER



- ◆ Measure thickness of disk brakes
- ◆ Resolution: .00005"/0.001mm
- ◆ IP65 protection level
- ◆ Button: on/off, mm/inch, set, zero
- ◆ Data output
- ◆ Automatic power off
- ◆ Ratchet stop
- ◆ Carbide measuring faces
- ◆ Supplied with setting standards



307-001-E01



Setting standards (included)



Code	Range	Accuracy	L	Setting standards (included)
307-001-E01	.3-1.3"/7.6-33mm	±.00020"	2.539"	1"
307-002-E01	1-2"/25-50mm	±.00020"	3.228"	1"

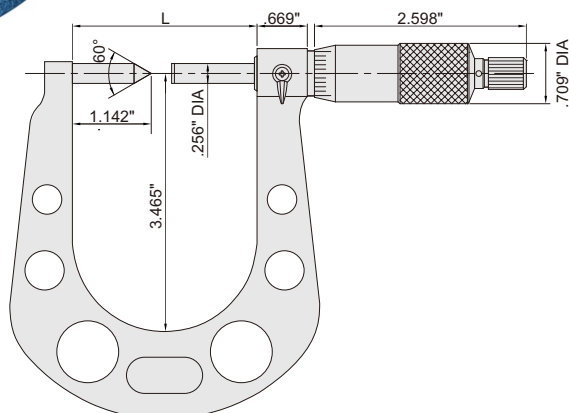
## SERIES 306

## DISK BRAKE MICROMETER

- ◆ Measure thickness of disk brakes
- ◆ Graduation .0001"
- ◆ Ratchet stop
- ◆ Carbide measuring faces
- ◆ Supplied with setting standards



306-001-E01



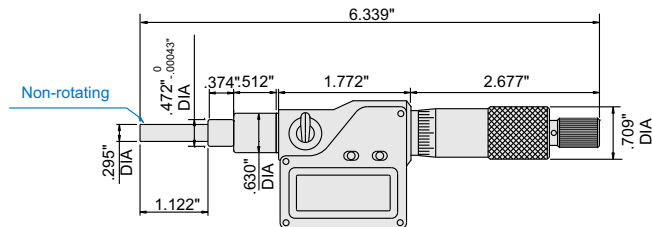
Setting standards (included)



Code	Range	Accuracy	L	Setting standards (included)
306-001-E01	.3-1.3"	.00020"	2.539"	1"
306-002-E01	1-2"	.00020"	3.228"	1"



- ◆ Resolution .00005"/0.001mm
- ◆ IP65 protection level
- ◆ Button: on/off, set, mm/inch, ABS/INC, data output
- ◆ Automatic power off
- ◆ Data output
- ◆ Ratchet stop



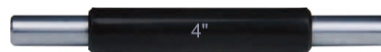
#### Non-rotating spindle

Code	Range	Accuracy	Stem	Spindle tip
376-001-05I	0-1"/0-25mm	±.00010"	plain	flat(carbide)

## SERIES 324

## INCH MICROMETER SETTING STANDARD

- ◆ For standard value setting



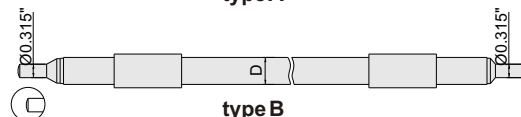
324-004-ST



324-012-ST



type A



type B

Code	Length	Accuracy	D	Type
324-001-ST	1"	±0.00006"	Ø0.276"	A
324-002-ST	2"	±0.00008"	Ø0.276"	A
324-003-ST	3"	±0.00010"	Ø0.276"	A
324-004-ST	4"	±0.00012"	Ø0.315"	A
324-005-ST	5"	±0.00014"	Ø0.315"	A
324-006-ST	6"	±0.00016"	Ø0.315"	A
324-007-ST	7"	±0.00018"	Ø0.315"	A
324-008-ST	8"	±0.00020"	Ø0.315"	A
324-009-ST	9"	±0.00022"	Ø0.315"	A
324-010-ST	10"	±0.00024"	Ø0.315"	A
324-011-ST	11"	±0.00026"	Ø0.315"	A
324-012-ST	12"	±0.00028"	Ø0.630"	B
324-013-ST	13"	±0.00030"	Ø0.630"	B
324-014-ST	14"	±0.00032"	Ø0.630"	B
324-015-ST	15"	±0.00034"	Ø0.630"	B
324-016-ST	16"	±0.00036"	Ø0.630"	B
324-017-ST	17"	±0.00038"	Ø0.630"	B
324-018-ST	18"	±0.00040"	Ø0.630"	B
324-019-ST	19"	±0.00042"	Ø0.630"	B
324-020-ST	20"	±0.00044"	Ø0.630"	B

Code	Length	Accuracy	D	Type
324-021-ST	21"	±0.00046"	Ø0.630"	B
324-022-ST	22"	±0.00048"	Ø0.630"	B
324-023-ST	23"	±0.00050"	Ø0.630"	B
324-024-ST	24"	±0.00052"	Ø0.630"	B
324-025-ST	25"	±0.00054"	Ø0.630"	B
324-026-ST	26"	±0.00056"	Ø0.630"	B
324-027-ST	27"	±0.00058"	Ø0.630"	B
324-028-ST	28"	±0.00060"	Ø0.630"	B
324-029-ST	29"	±0.00062"	Ø0.630"	B
324-030-ST	30"	±0.00064"	Ø0.630"	B
324-031-ST	31"	±0.00066"	Ø0.630"	B
324-032-ST	32"	±0.00068"	Ø0.630"	B
324-033-ST	33"	±0.00070"	Ø0.630"	B
324-034-ST	34"	±0.00072"	Ø0.630"	B
324-035-ST	35"	±0.00074"	Ø0.630"	B
324-036-ST	36"	±0.00076"	Ø0.630"	B
324-037-ST	37"	±0.00078"	Ø0.630"	B
324-038-ST	38"	±0.00080"	Ø0.630"	B
324-039-ST	39"	±0.00082"	Ø0.630"	B
324-040-ST	40"	±0.00084"	Ø0.630"	B

## SERIES 361

## DIGITAL THREE POINTS INSIDE MICROMETER



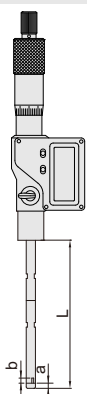
- ◆ Resolution: .00005"/0.001mm
- ◆ IP65 protection level
- ◆ Button: on/off, set, mm/inch, ABS/INC, data output
- ◆ Automatic power off
- ◆ Data output
- ◆ Ratchet stop
- ◆ Carbide measuring faces (over .5" series)
- ◆ Extension rod are included
- ◆ Setting rings are included (Range<4")



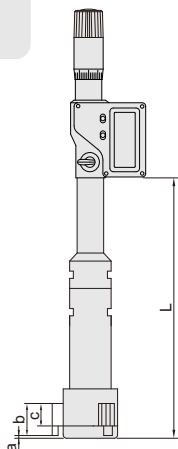
361-002-E01



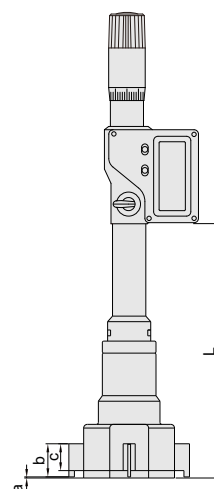
361-007-E01



Range 0.275-.5"



Range 0.5-2"

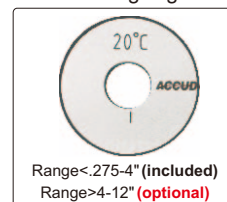


Range 2-12"

Code	Range	Accuracy	Setting ring	Extension rod	a	b	c	L
361-001-E01*	.275-.35"/7-9mm	.00015"	.275" DIA(included)	4"	.059"	.098"	/	2.146"
361-002-E01*	.35-.425"/9-11mm	.00015"	.35" DIA(included)	4"	.059"	.098"	/	2.146"
361-003-E01*	.425-.5"/11-13mm	.00015"	.5" DIA(included)	4"	.059"	.098"	/	2.146"
361-004-E01*	.5-.65"/13-17mm	.00015"	.65" DIA(included)	6"	.020"	.236"	.177"	3.150"
361-005-E01*	.65-.8"/17-20mm	.00015"	.65" DIA(included)	6"	.020"	.236"	.177"	3.150"
361-006-E01*	.8-1"/20-25mm	.00015"	1" DIA(included)	6"	.020"	.315"	.236"	3.543"
361-007-E01*	1-1.2"/25-30mm	.00015"	1" DIA(included)	6"	.020"	.315"	.236"	3.543"
361-008-E01*	1.2-1.6"/30-40mm	.00015"	1.6" DIA(included)	6"	.020"	.551"	.472"	3.819"
361-009-E01*	1.6-2"/40-51mm	.00020"	1.6" DIA(included)	6"	.020"	.551"	.472"	3.819"
361-010-E01*	2-2.5"/51-63mm	.00020"	2.5" DIA(included)	6"	.020"	.689"	.571"	4.488"
361-011-E01*	2.5-3"/63-76mm	.00020"	2.5" DIA(included)	6"	.020"	.689"	.571"	4.488"
361-012-E01*	3-3.5"/76-89mm	.00020"	3.5" DIA(included)	6"	.020"	.689"	.571"	4.488"
361-013-E01*	3.5-4"/89-101mm	.00020"	3.5" DIA(included)	6"	.020"	.689"	.571"	4.488"
361-014-E01	4-5"/101-127mm	.00025"	optional	6"	.035"	1.142"	.984"	5.512"
361-015-E01	5-6"/127-152mm	.00025"	optional	6"	.035"	1.142"	.984"	5.512"
361-016-E01	6-7"/152-178mm	.00030"	optional	6"	.035"	1.142"	.984"	5.512"
361-017-E01	7-8"/178-203mm	.00030"	optional	6"	.035"	1.142"	.984"	5.512"
361-018-E01	8-9"/203-228mm	.00035"	optional	6"	.035"	1.142"	.984"	5.512"
361-019-E01	9-10"/228-254mm	.00035"	optional	6"	.035"	1.142"	.984"	5.512"
361-020-E01	10-11"/254-279mm	.00035"	optional	6"	.035"	1.142"	.984"	5.512"
361-024-E01	11-12"/279-305mm	.00035"	optional	6"	.035"	1.142"	.984"	5.512"

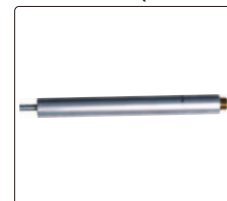
\* With manufacturer inspection certificate

Setting ring



Range<.275-4" (included)  
Range>4-12" (optional)

Extension rod(included)



## SERIES 361

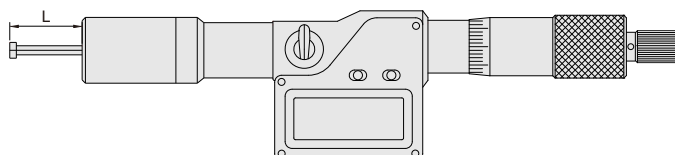
## DIGITAL TWO POINTS INSIDE MICROMETER



- ◆ Resolution: .00005"/0.001mm
- ◆ IP65 protection level
- ◆ Button: on/off, set, mm/inch, ABS/INC, data output
- ◆ Automatic power off
- ◆ Data output
- ◆ Ratchet stop
- ◆ Carbide measuring faces
- ◆ Setting rings are included



361-000-E50



Code	Range	Accuracy	Setting ring	L
361-000-E25	.08-.1"/2-2.5mm	.00025"	.1" DIA	.472"
361-000-E30	.1-.12"/2.5-3mm	.00025"	.1" DIA	.472"
361-000-E40	.12-.16"/3-4mm	.00025"	.16" DIA	.866"
361-000-E50	.16-.2"/4-5mm	.00025"	.16" DIA	.866"
361-000-E60	.2-.24"/5-6mm	.00025"	.24" DIA	.866"
361-000-E70	.24-.28"/6-7mm	.00025"	.24" DIA	.866"

With manufacturer inspection certificate

Setting ring(included)

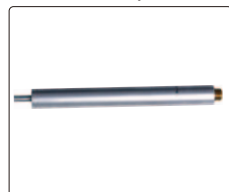


## SERIES 361

## DIGITAL TWO/THREE POINTS INSIDE MICROMETER SET



Extension rod(included) Setting ring(included)



Digital two points inside micrometer set

Code	Range	Micrometers included	Setting ring
361-000-E02	.08-.12"/2-3mm	.08-.1", .1-.12"	.1" DIA
361-000-E04	.12-.28"/3-7mm	.12-.16", .16-.2", .2-.24", .24-.28"	.16", .24" DIA

Digital three points inside micrometer set

Code	Range	Micrometers included	Setting ring	Extension rod
361-103-E03	.275-.5"/7-13mm	.275-.35", .35-.425", .425-.5"	.275" DIA, .35" DIA, .5" DIA	4"
361-305-E03	.5-.8"/13-20mm	.5-.65", .65-.8"	.65" DIA	6"
361-509-E05	.8-2"/20-51mm	.8-1", 1-1.2", 1.2-1.6", 1.6-2"	1" DIA, 1.6" DIA	6"
361-913-E05	2-4"/51-101mm	2-2.5", 2.5-3", 3-3.5", 3.5-4"	2.5" DIA, 3.5" DIA	6"

With manufacturer inspection certificate



361-103-E03

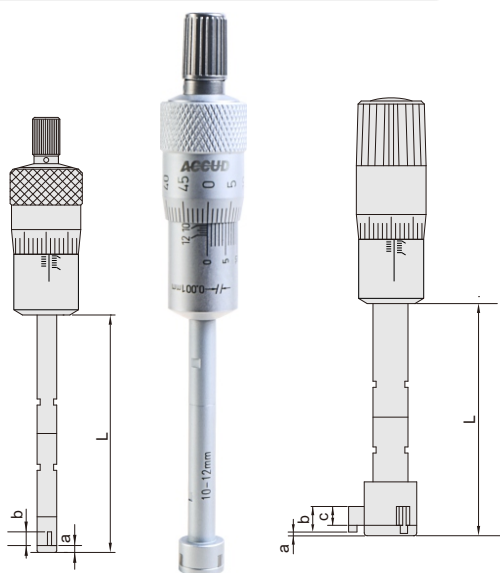
INSIDE/OUTSIDE  
MEASUREMENT

## SERIES 362

## THREE POINTS INSIDE MICROMETER

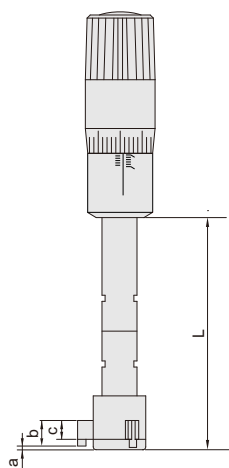


- ◆ .08-.5" graduation: .0001"
- Steel measuring faces
- .5-12" graduation: .0002"
- Carbide measuring faces
- ◆ Ratchet stop
- ◆ Extension rod are included
- ◆ Setting rings are included (Range<4")



Range .275-.5"

362-003-E01



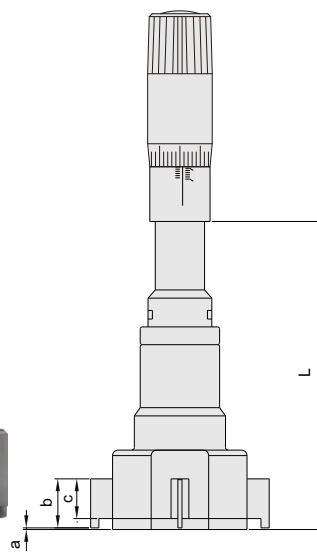
Range .5-2"



362-008-E01



362-014-E01

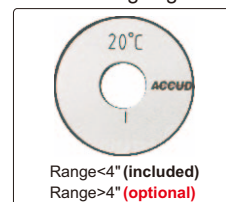


Range 2-12"

Code	Range	Accuracy	Setting ring	Extension rod	a	b	c	L
362-001-E01*	0.275-0.35"	.00015"	.275" DIA (included)	4"	.059"	.098"	/	2.146"
362-002-E01*	0.35-0.425"	.00015"	.35" DIA (included)	4"	.059"	.098"	/	2.146"
362-003-E01*	0.425-0.5"	.00015"	.5" DIA (included)	4"	.059"	.098"	/	2.146"
362-004-E01*	0.5-0.65"	.00015"	.65" DIA (included)	6"	.020"	.236"	.177"	3.150"
362-005-E01*	0.65-0.8"	.00015"	.65" DIA (included)	6"	.020"	.236"	.177"	3.150"
362-006-E01*	0.8-1"	.00015"	1" DIA (included)	6"	.020"	.315"	.236"	3.543"
362-007-E01*	1-1.2"	.00015"	1" DIA (included)	6"	.020"	.315"	.236"	3.543"
362-008-E01*	1.2-1.6"	.00015"	1.6" DIA (included)	6"	.020"	.551"	.472"	3.819"
362-009-E01*	1.6-2"	.00020"	1.6" DIA (included)	6"	.020"	.551"	.472"	3.819"
362-010-E01*	2-2.5"	.00020"	2.5" DIA (included)	6"	.020"	.689"	.571"	4.488"
362-011-E01*	2.5-3"	.00020"	2.5" DIA (included)	6"	.020"	.689"	.571"	4.488"
362-012-E01*	3-3.5"	.00020"	3.5" DIA (included)	6"	.020"	.689"	.571"	4.488"
362-013-E01*	3.5-4"	.00020"	3.5" DIA (included)	6"	.020"	.689"	.571"	4.488"
362-014-E01	4-5"	.00025"	optional	6"	.035"	1.142"	.984"	5.512"
362-015-E01	5-6"	.00025"	optional	6"	.035"	1.142"	.984"	5.512"
362-016-E01	6-7"	.00030"	optional	6"	.035"	1.142"	.984"	5.512"
362-017-E01	7-8"	.00030"	optional	6"	.035"	1.142"	.984"	5.512"
362-018-E01	8-9"	.00035"	optional	6"	.035"	1.142"	.984"	5.512"
362-019-E01	9-10"	.00035"	optional	6"	.035"	1.142"	.984"	5.512"
362-020-E01	10-11"	.00035"	optional	6"	.035"	1.142"	.984"	5.512"
362-024-E01	11-12"	.00035"	optional	6"	.035"	1.142"	.984"	5.512"

\* With manufacturer inspection certificate

Setting ring



Range<4" (included)  
Range>4" (optional)

Extension rod (included)

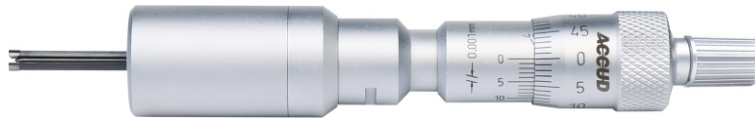


## SERIES 362

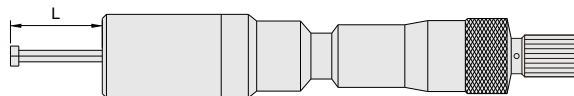
## TWO POINTS INSIDE MICROMETER



- ◆ Graduation: .0001"
- ◆ Carbide measuring faces
- ◆ Ratchet stop
- ◆ Setting rings are included



362-000-E25



Code	Range	Accuracy	Setting ring	L
362-000-E25	.08-.1"	.00025"	.1" DIA	.472"
362-000-E30	.1-.12"	.00025"	.1" DIA	.472"
362-000-E40	.12-.16"	.00025"	.16" DIA	.866"
362-000-E50	.16-.2"	.00025"	.16" DIA	.866"
362-000-E60	.2-.24"	.00025"	.24" DIA	.866"
362-000-E70	.24-.28"	.00025"	.24" DIA	.866"

Setting ring(included)



With manufacturer inspection certificate

## SERIES 362

## TWO/THREE POINTS INSIDE MICROMETER SET



Extension rod(included)



Setting ring(included)



362-913-E05

Two points inside micrometer set

Code	Range	Micrometers included	Setting ring
362-000-E02	.08-.12"	.08-.1", .1-.12"	.1" DIA
362-000-E04	.12-.28"	.12-.16", .16-.2", .2-.24", .24-.28"	.16" DIA, .24" DIA

Three points inside micrometer set

Code	Range	Micrometers included	Setting ring	Extension rod
362-103-E03	.275-.5"	.275-.35", .35-.425", .425-.5"	.275" DIA, .35" DIA, .5" DIA	4"
362-305-E03	.5-.8"	.5-.65", .65-.8"	.65" DIA	6"
362-509-E05	.8-2"	.8-1", 1-1.2", 1.2-1.6", 1.6-2"	1" DIA, 1.6" DIA	6"
362-913-E05	2-4"	2-2.5", 2.5-3", 3-3.5", 3.5-4"	2.5" DIA, 3.5" DIA	6"

With manufacturer inspection certificate

INSIDE/OUTSIDE  
MEASUREMENT

## SERIES 363

## WIDE RANGE THREE POINTS INTERNAL MICROMETER



- ◆ Graduation .0001"
- ◆ Ratchet stop
- ◆ Carbide measuring faces
- ◆ Setting rings are included(except 363-012-E01)

Setting ring

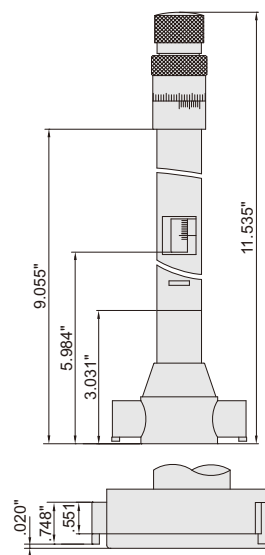


Code	Range	Accuracy	Setting ring
363-003-E01*	2-2.8"	.00020"	2" DIA (included)
363-004-E01*	2.8-4"	.00020"	2.8" DIA (included)
363-006-E01	4-6"	.00025"	4" DIA (included)
363-010-E01	6-10"	.00035"	6" DIA (included)
363-012-E01	8-12"	.00035"	8" DIA (optional)

\* With manufacturer inspection certificate



363-003-E01



## SERIES 364

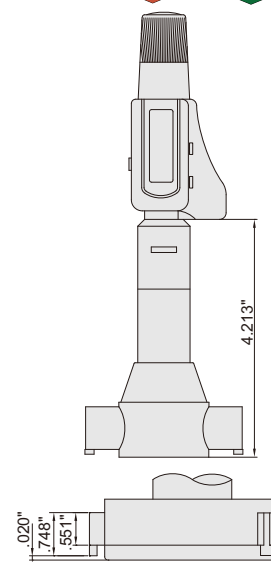
## DIGITAL WIDE RANGE THREE POINTS INTERNAL MICROMETER



- ◆ Resolution: .00005"/0.001mm  
(resolution of 364-012-E01 is .0001"/0.001mm)
- ◆ IP54 protection level
- ◆ Buttons: on/off, set, mm/inch, ABS/INC
- ◆ Data output
- ◆ Automatic power off
- ◆ Carbide measuring faces
- ◆ Ratchet stop
- ◆ Supplied with extension rods
- ◆ Setting rings are included(except 365-012-E01)



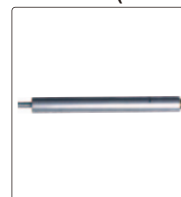
364-003-E01



Code	Range	Accuracy	Setting ring	Extension rod
364-003-E01*	2-2.8"/51-71mm	.00020"	2" DIA (included)	6"
364-004-E01*	2.8-4"/71-101mm	.00020"	2.8" DIA (included)	6"
364-006-E01	4-6"/101-152mm	.00025"	4" DIA (included)	6"
364-010-E01	6-10"/152-254mm	.00035"	6" DIA (included)	6"
364-012-E01	8-12"/203-305mm	.00035"	8" DIA (optional)	6"

\* With manufacturer inspection certificate

Extension rod(included)



Setting ring



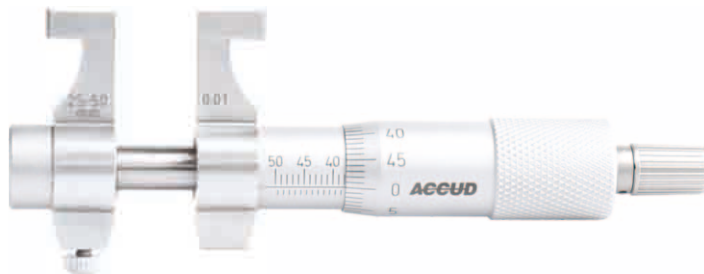
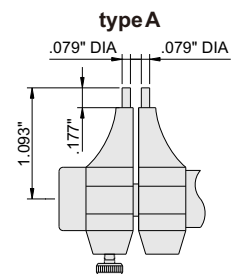
## SERIES 351

## INSIDE MICROMETER

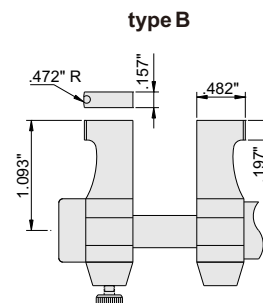
- ◆ Graduation: .001"
- ◆ Carbide measuring faces
- ◆ Ratchet stop



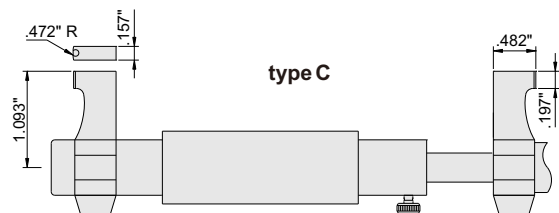
351-001-E01



351-002-E01



351-003-E01



Code	Range	Accuracy	Type	Setting ring
351-001-E01	.2-1.2"	.00030"	A	.2"
351-002-E01	1-2"	.00035"	B	1"
351-003-E01	2-3"	.00035"	C	optional
351-004-E01	3-4"	.00035"	C	optional
351-005-E01	4-5"	.00045"	C	optional
351-006-E01	5-6"	.00050"	C	optional
351-007-E01	6-7"	.00055"	C	optional
351-008-E01	7-8"	.00055"	C	optional

Setting ring



Range <2" (included)



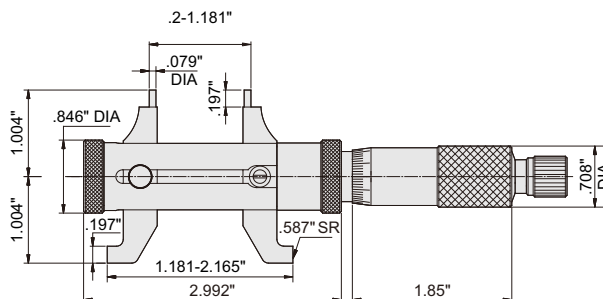
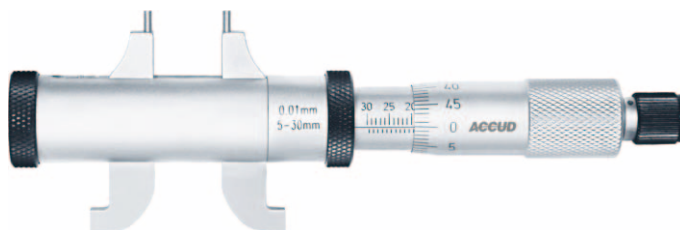
Range >2" (optional)

INSIDE/OUTSIDE  
MEASUREMENT

351

## INSIDE MICROMETER

- ◆ Graduation: .001"
- ◆ Carbide measuring faces
- ◆ Ratchet stop



Setting ring(included)



Code	Range	Accuracy
351-001-E21	.2-2.2"	.00016"

## SERIES 356

## DIGITAL INSIDE MICROMETER

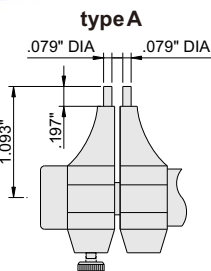
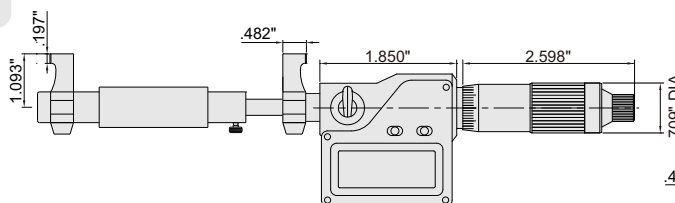
ATTENTION: LOW PARALLELISM OF TWO MEASURING FACES



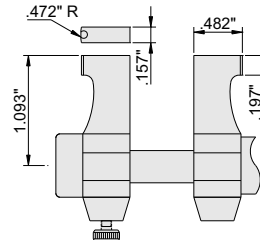
- ◆ Resolution .00005"/0.001mm
- ◆ Button function: on/off, set, mm/inch, ABS/INC, data output
- ◆ Data output
- ◆ Automatic power off
- ◆ Ratchet stop
- ◆ Carbide measuring faces



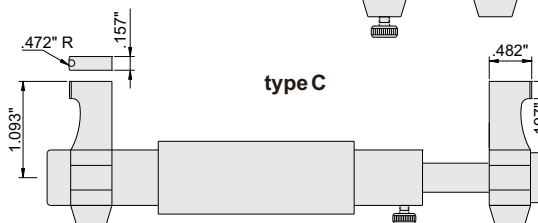
356-003-E01



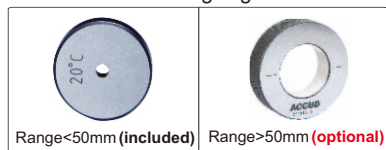
type B



type C



Setting ring



Code	Range	Accuracy	Type	Setting ring
356-001-E01	.2-1.2"/5-30mm	±.00020"	A	.2"
356-002-E01	1-2"/25-50mm	±.00025"	B	1"
356-003-E01	2-3"/50-75mm	±.00030"	C	optional
356-004-E01	3-4"/75-100mm	±.00035"	C	optional

## SERIES 352

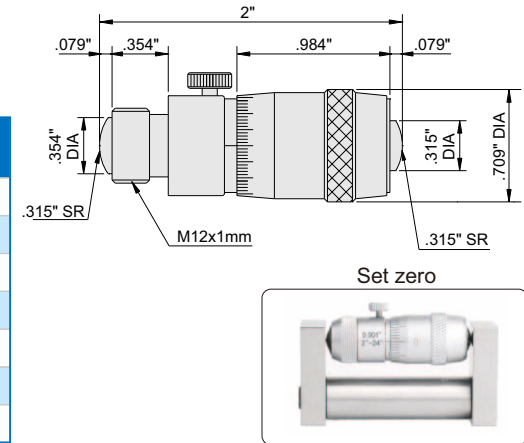
## TUBULAR INSIDE MICROMETER

- ◆ Graduation: .001"
- ◆ Accuracy:  $[\pm .00005(3+n+L/2)]"$ , n = number of rods, L = maximum measuring length (inch)
- ◆ Supplied with setting standards
- ◆ Carbide measuring faces



352-024-E01

Code	Range	Travel of micrometer head	Extension rods
352-002-E01	2-2.5"	.5"	-
352-006-E01	2-6"	.5"	.5", 1", 2"
352-012-E01	2-12"	.5"	.5", 1", 2"(2pcs), 4"
352-020-E01	2-20"	.5"	.5", 1", 2"(2pcs), 4", 8"
352-024-E01	2-24"	.5"	.5", 1", 2", 4", 6", 8"
352-040-E01	2-40"	.5"	.5", 1", 2"(2pcs), 4", 8"(2pcs), 12"
352-060-E01	2-60"	.5"	.5", 1", 2"(2pcs), 4", 8"(3pcs), 12"(2pcs)



## SERIES 353

## TUBULAR INSIDE MICROMETER

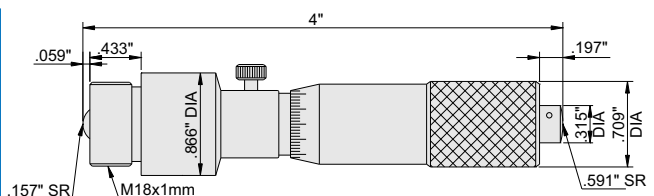
- ◆ Graduation .001"
- ◆ Accuracy:  $[\pm .00005(3+n+L/2)]"$   
n is number of rods, L is maximum measuring length in inch
- ◆ Travel of micrometer head: 1"
- ◆ Supplied with setting standards
- ◆ Carbide measuring faces

Set zero



353-020-E01

Code	Range	Extension rods
353-020-E01	4-20"	1", 2", 4", 8"
353-036-E01	4-36"	1", 2", 4", 8", 16"
353-052-E01	4-52"	1", 2", 4", 8", 16"(2pcs)
353-068-E01	4-68"	1", 2", 4", 8", 16"(3pcs)
353-084-E01	4-84"	1", 2", 4", 8", 16"(4pcs)

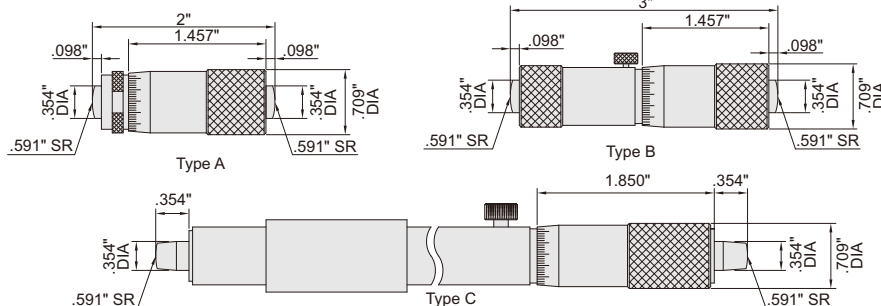


## SERIES 354

## TUBULAR INSIDE MICROMETER



354-005-E01



- ◆ Graduation .001"
- ◆ Carbide measuring faces

Code	Range	Type	Accuracy
354-003-E01	2-3"	A	.00020"
354-004-E01	3-4"	B	.00020"
354-005-E01	4-5"	C	.00025"
354-006-E01	5-6"	C	.00025"
354-007-E01	6-7"	C	.00030"
354-008-E01	7-8"	C	.00030"
354-009-E01	8-9"	C	.00035"
354-010-E01	9-10"	C	.00035"
354-011-E01	10-11"	C	.00035"

Code	Range	Type	Accuracy
354-012-E01	11-12"	C	.00035"
354-013-E01	12-13"	C	.00035"
354-014-E01	13-14"	C	.00035"
354-015-E01	14-15"	C	.00040"
354-016-E01	15-16"	C	.00040"
354-017-E01	16-17"	C	.00040"
354-018-E01	17-18"	C	.00040"
354-019-E01	18-19"	C	.00043"
354-020-E01	19-20"	C	.00043"

## SERIES 355

## TUBULAR INSIDE MICROMETER

- ◆ Graduation .001"
- ◆ Accuracy:  $[\pm .0003 + .00005(L/2)]$   
L=maximum measuring length(inch)
- ◆ Optional accessory: setting ring(code 531)

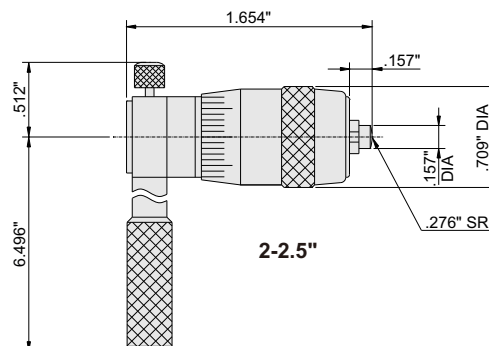


355-008-E01

Setting ring(optional)



Code	Range	Extension rods	Travel of micrometer head
355-001-E01	1-1.25"	—	.25"
355-002-E01	1-2"	2pcs	.25"
355-003-E01	2-2.5"	—	.5"
355-008-E01	2-8"	6pcs	.5"
355-012-E01	2-12"	10pcs	.5"
355-009-E01	8-9"	—	1"
355-020-E01	8-20"	3pcs	1"
355-040-E01	8-40"	8pcs	1"



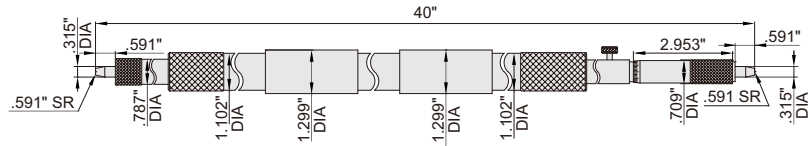
## SERIES 357

## TUBULAR INSIDE MICROMETER

- ◆ Graduation .001"
- ◆ Accuracy:  $[\pm .00005(7+n+L/2)]''$   
n=number of rods  
L=maximum measuring length(inch)
- ◆ Carbide measuring faces



357-080-E01



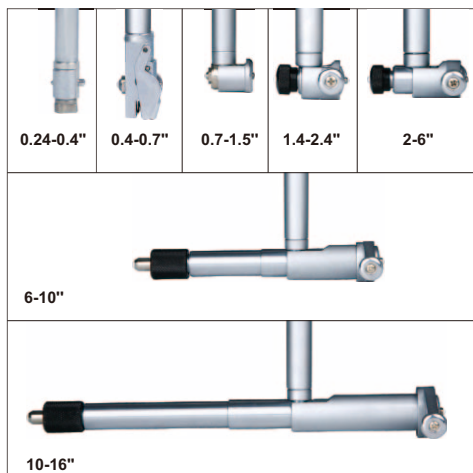
Code	Range	Travel of micrometer head	Extension rods
357-080-E01	40-80"	2"	2", 4"(2pcs), 8", 20"
357-120-E01	40-120"	2"	2", 4"(2pcs), 8", 20", 40"
357-160-E01	40-160"	2"	2", 4"(2pcs), 8", 20", 40"(2pcs)
357-200-E01	40-200"	2"	2", 4"(2pcs), 8", 20", 40"(3pcs)



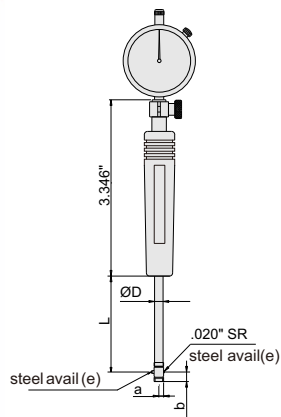
## SERIES 252

## INCH DIAL BORE GAUGE

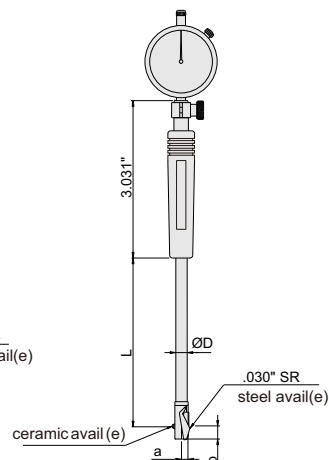
◆ Optional accessory: Long handle series 250



252-015-11



Range: .24-0.4"



Range: .4-0.7"

Bore gauge setter for setting zero(**optional**)



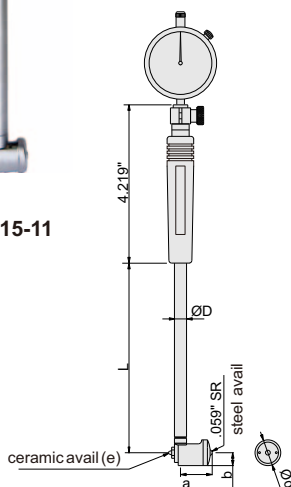
Setting ring(**optional**)



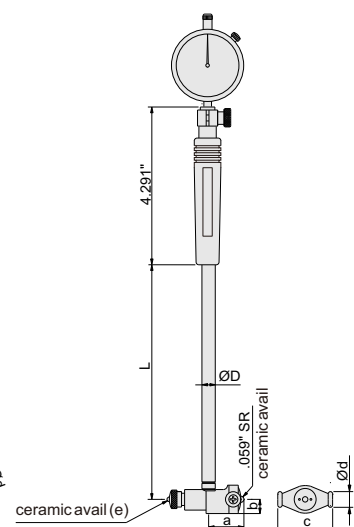
Measuring tips(**included**)



Gasket(**included**)



Range: .7-1.5"



Range: 1.4-16"

Code	Range	Dial indicator	Accuracy	Repeatability	a	b	c	Ød	ØD	e	L
252-004-11	0.24-0.4"	dial indicator, range .25", graduation .0005"	±.00075"	.00015"	.142"	.224"	/	/	.177"	.039" R	1.890"
252-007-11	0.4-0.7"		±.00075"	.00015"	.220"	.307"	/	/	.236"	.039" SR	4.134"
252-015-11	0.7-1.5"		±.00075"	.00015"	.480"	.252"	/	.5"	.354"	.039" SR	5.551"
252-024-11	1.4-2.4"		±.0009"	.00015"	1.024"	.354"	1.063"	.512"	.504"	.079" SR	5.551"
252-060-11	2-6"		±.0009"	.00015"	1.024"	.354"	1.378"	.512"	.504"	.079" SR	5.551"
252-100-11	6-10"		±.0009"	.00015"	2.224"	.512"	2.933"	.591"	.571"	.079" SR	15.748"
252-160-11	10-16"		±.0009"	.00015"	3.406"	.591"	3.996"	.591"	.571"	.079" SR	15.748"

## SERIES 252

## BORE GAUGE SET

**ATTENTION:**  
NOT SUITABLE FOR .00005", .0001"  
OR 0.001MM DIAL INDICATOR

- ◆ Optional accessory: series 531 setting rings



252-046-11



252-346-11

Code	Range	Accuracy	Repeatability	Indicator	Bore gauges included
252-046-11	1.4-6"	1.4-2.4" $\pm .0009"$	.00015"	dial indicator range .25", graduation .0005"	1.4-2.4" (dial indicator and handle are not included)
		2-6" $\pm .0009"$			2-6"
252-346-11	.7-6"	.7-1.5" $\pm .00075"$	.00015"	dial indicator range .25", graduation .0005"	.7-1.5"
		1.4-2.4" $\pm .0009"$			1.4-2.4" (dial indicator is not included)
		2-6" $\pm .0009"$			2-6" (dial indicator is not included)

ACCUD



## SERIES 210

## DIGITAL INDICATOR

- ◆ Button: tolerance set, data preset, inch/mm conversion, measuring direction set, max./min./range measurement, absolute/incremental measurement
- ◆ Data output(cable code:200-03 or 200-04)
- ◆ Automatic power off
- ◆ Supplied with flat and lug back



VIDEO



210-010-03I

Resolution .00005"/0.001mm

Code	Range	Accuracy	Hysteresis
210-010-03I	.5"/12.7mm	±.00015"	.00005"
210-025-03I	1"/25.4mm	±.00015"	.00005"
210-050-03I	2"/50.8mm	±.00015"	.00005"

Resolution .0005"/0.01mm

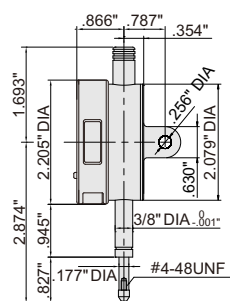
Code	Range	Accuracy	Hysteresis
210-010-13I	.5"/12.7mm	±.0015"	.0005"
210-025-13I	1"/25.4mm	±.0015"	.0005"
210-050-13I	2"/50.8mm	±.0015"	.0005"

With manufacturer inspection certificate

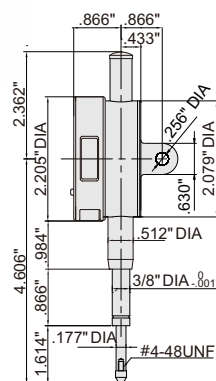
Styli(optional)



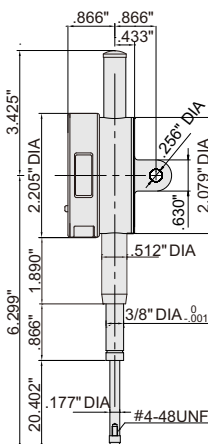
Application



Range: .5"



Range: 1"



Range: 2"

## SERIES 211

## DIGITAL INDICATOR

- ◆ With analog reading
- ◆ Button: tolerance set, data preset, inch/mm conversion, measuring direction set, max./min./range measurement, absolute/incremental measurement
- ◆ Data output(cable code:200-03 or 200-04)
- ◆ Automatic power off
- ◆ Supplied with flat and lug back



VIDEO



211-010-13I

Resolution .00005"/0.001mm

Code	Range	Accuracy	Hysteresis
211-010-03I	.5"/12.7mm	±.00015"	.00005"
211-025-03I	1"/25.4mm	±.00015"	.00005"
211-050-03I	2"/50.8mm	±.00015"	.00005"

Resolution .0005"/0.01mm

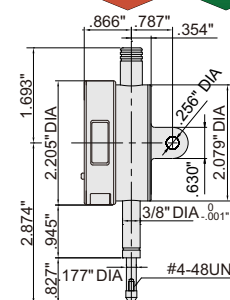
Code	Range	Accuracy	Hysteresis
211-010-13I	.5"/12.7mm	±.0015"	.0005"
211-025-13I	1"/25.4mm	±.0015"	.0005"
211-050-13I	2"/50.8mm	±.0015"	.0005"

With manufacturer inspection certificate

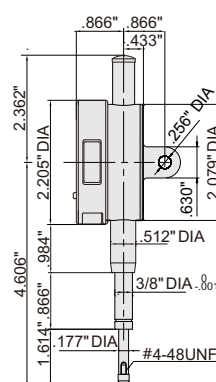
Styli(optional)



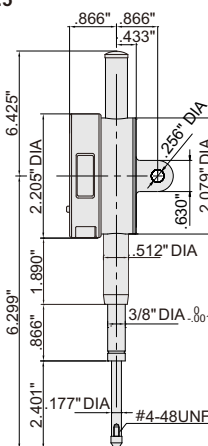
Application



Range: .5"



Range: 1"



Range: 2"

## SERIES 212

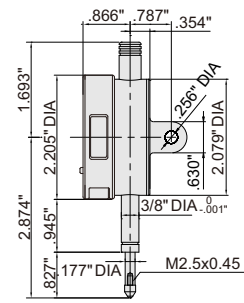
## DIGITAL INDICATOR

- ◆ Button: on/off, zero, inch/mm conversion, measuring direction set, data preset absolute/incremental measurement
- ◆ Data output(cable code:200-03 or 200-04)
- ◆ Automatic power off
- ◆ Supplied with flat and lug back



VIDEO

212-010-13I



Range: .5"

Resolution .00005"/0.001mm

Code	Range	Accuracy	Hysteresis
212-010-03I	.5"/12.7mm	±.00015"	.00005"
212-025-03I	1"/25.4mm	±.00015"	.00005"
212-050-03I	2"/50.8mm	±.00015"	.00005"

Resolution .0005"/0.01mm

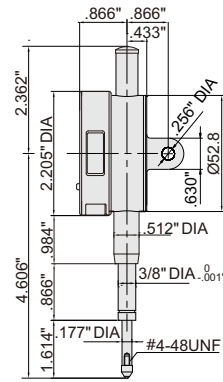
Code	Range	Accuracy	Hysteresis
212-010-13I	.5"/12.7mm	±.0015"	.0005"
212-025-13I	1"/25.4mm	±.0015"	.0005"
212-050-13I	2"/50.8mm	±.0015"	.0005"

With manufacturer inspection certificate

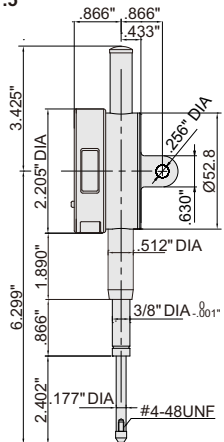
Styli(optional)



Application



Range: 1"



Range: 2"

## SERIES 215

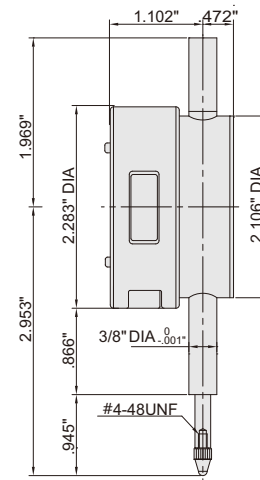
## DIGITAL INDICATOR FOR BORE GAUGE

- ◆ Specially designed for bore gauges
- ◆ The minimum value tracking function can find the diameter automatically
- ◆ Read the diameter directly, after inputting the size of setting ring
- ◆ Reading in digit and analog
- ◆ Button: minimum value tracking, calibration, data preset, inch/metric conversion, absolute/incremental measurement
- ◆ Automatic power off
- ◆ Data output(cable code:200-03 or 200-04)



VIDEO

215-010-12I



Resolution .00005"/0.001mm

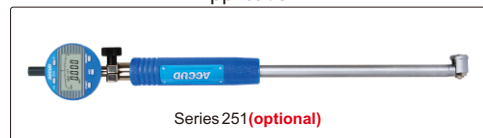
Code	Range	Accuracy(fges)	Hysteresis(fu)	Remark
215-010-02I	.5"/12.7mm	±.00015"	.00005"	flat back

Resolution .0001"/0.002mm

Code	Range	Accuracy(fges)	Hysteresis(fu)	Remark
215-010-12I	.5"/12.7mm	±.0015"	.0005"	flat back

With manufacturer inspection certificate

Application



Series 251(optional)

ACEUD



INDICATOR

## SERIES 216

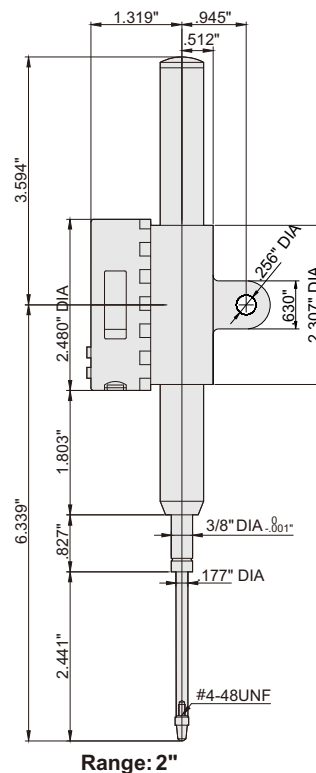
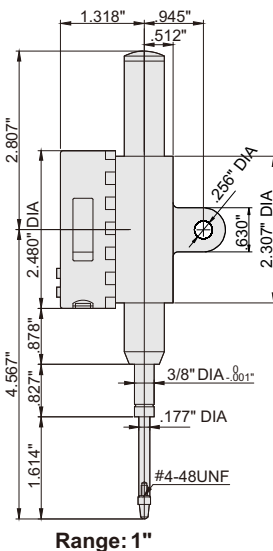
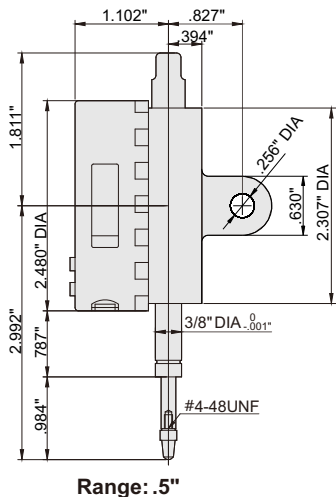
## DIGITAL INDICATOR



- ◆ Reading in digital and analog
- ◆ Display can be rotated by 320°
- ◆ Button : on/off, zero, tolerance Go and No-Go display, data preset, measuring direction change, max./min./TIR, absolute/incremental measurement, mm/inch, data output
- ◆ Keep preset data and tolerance data in memory after restart
- ◆ Automatic power off
- ◆ Data output (cable code: 200-01 or 200-02)
- ◆ Supplied with lug and flat back



216-010-011



Resolution .00005"/0.001mm

Code	Range	Accuracy	Hysteresis
216-010-011	.5"/12.7mm	±.00015"	.00005"
216-025-011	1"/25.4mm	±.00015"	.00005"
216-050-011	2"/50.8mm	±.00015"	.00005"

Resolution .00005"/0.002mm

Code	Range	Accuracy	Hysteresis
216-010-111	.5"/12.7mm	±.0015"	.0005"
216-025-111	1"/25.4mm	±.0015"	.0005"
216-050-111	2"/50.8mm	±.0015"	.0005"

With manufacturer inspection certificate

Contact points (optional)



Application



## SERIES 213

## WATERPROOF DIGITAL INDICATOR

- ◆ Dust/waterproof
- ◆ Button: on/off, zero, inch/mm conversion, measuring direction set, data preset absolute/incremental measurement
- ◆ Automatic power off
- ◆ Data output(cable code:200-01 or 200-02)
- ◆ Supplied with lug and flat back



VIDEO



Certificate



Data output



CR2032



IP65



IP54

ACCUD



Styli(optional)

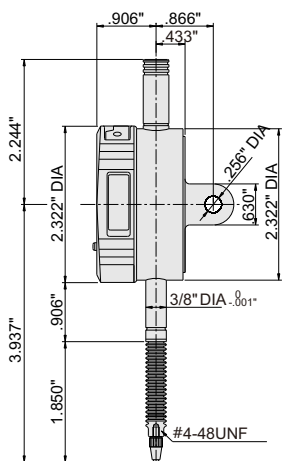


Series 270

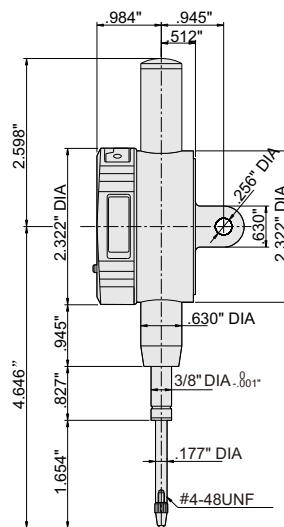
Application



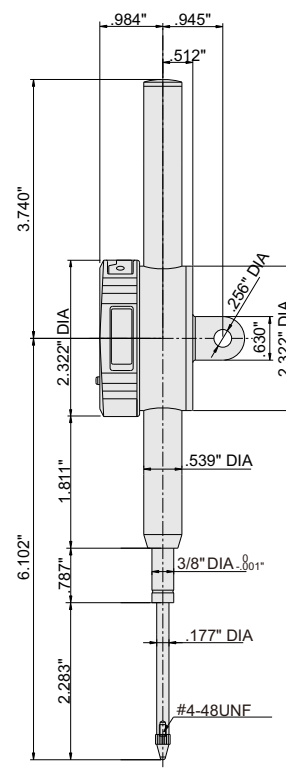
213-010-011



Range: .5"



Range: 1"



Range: 2"

Resolution .00005"/0.001mm

Code	Range	Proof level	Accuracy	Hysteresis
213-010-011	.5"/12.7mm	IP65	±.00015"	.00005"
213-025-011	1"/25.4mm	IP54	±.00015"	.00005"
213-050-011	2"/50.8mm	IP54	±.00015"	.00005"

Resolution .0005"/0.01mm

Code	Range	Proof level	Accuracy	Hysteresis
213-010-111	.5"/12.7mm	IP65	±.0015"	.0005"
213-025-111	1"/25.4mm	IP54	±.0015"	.0005"
213-050-111	2"/50.8mm	IP54	±.0015"	.0005"

With manufacturer inspection certificate

INDICATOR

## SERIES 214

## DIGITAL INDICATOR



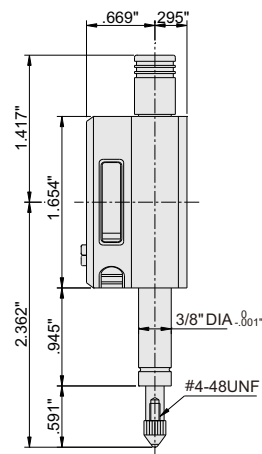
- ◆ Button: on/off, zero, inch/mm conversion, measuring direction set, data preset absolute/incremental measurement
- ◆ Automatic power off
- ◆ Data output(cable code:200-01 or 200-02)
- ◆ Supplied with flat back



VIDEO



214-005-12I



### Styli(optional)



Series 270

### Application



### Resolution .00005"/0.001mm

Code	Range	Accuracy	Hysteresis
214-005-02I	.2"/5mm	±.00015"	.000015"

### Resolution .0005"/0.01mm

Code	Range	Accuracy	Hysteresis
214-005-12I	.2"/5mm	±.00015"	.00015"

With manufacturer inspection certificate

## SERIES 214

## DIGITAL INDICATOR



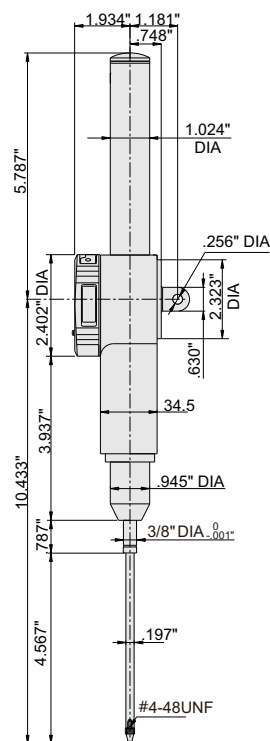
- ◆ Button: on/off, zero, inch/mm conversion, measuring direction set, data preset absolute/incremental measurement
- ◆ Automatic power off
- ◆ Data output(cable code:200-01 or 200-02)
- ◆ Supplied with lug and flat back



VIDEO



214-100-11I



### Styli(optional)



Series 270

### Application



### Resolution .00005"/0.001mm

Code	Range	Accuracy	Hysteresis
214-100-01I	4"/100mm	±.00030"	.0001"

### Resolution .0005"/0.01mm

Code	Range	Accuracy	Hysteresis
214-100-11I	4"/100mm	±.0015"	.0005"

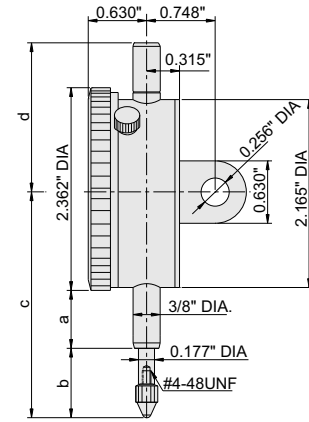
## SERIES 225

## INCH DIAL INDICATOR



- ◆ Meet ASME B89.1.10M-2001
- ◆ Supplied with limit hands and bezel clamp
- ◆ Lug back

Application



Graduation .001"

225-025-11

Code	Range	Dial reading	Range/rev	Accuracy		a	b	c	d
				First 2.5 rew	Overall				
225-006-11	0.25"	0-100	0.1"	±0.001"	±0.001"	0.787"	0.984"	2.953"	1.811"
225-012-11	0.5"	0-100	0.1"	±0.001"	±0.002"	0.787"	0.984"	2.953"	1.811"
225-025-11	1"	0-100	0.1"	±0.001"	±0.002"	0.787"	1.378"	3.346"	1.811"
225-050-11	2"	0-100	0.1"	±0.001"	±0.004"	1.969"	2.323"	5.472"	4.370"

Graduation .0005"

Code	Range	Dial reading	Range/rev	Accuracy		a	b	c	d
				First 2.5 rew	Overall				
225-006-05	0.25"	0-50	0.05"	±0.0005"	±0.0015"	0.787"	0.984"	2.953"	1.811"
225-012-05	0.5"	0-50	0.05"	±0.0005"	±0.0015"	0.787"	0.984"	2.953"	1.811"
225-025-05	1"	0-50	0.05"	±0.0005"	±0.002"	0.787"	1.378"	3.346"	1.811"
225-050-05	2"	0-50	0.05"	±0.0005"	±0.002"	1.969"	2.323"	5.472"	4.370"

With manufacturer inspection certificate

ACEUD



## SERIES 261

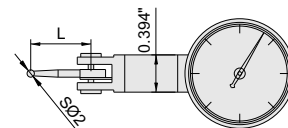
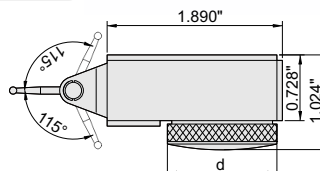
## DIAL TEST INDICATOR



- ◆ Jeweled bearing
- ◆ Carbide contact point
- ◆ Two measuring directions
- ◆ Anti magnetic body
- ◆ Supplied with two clamps: 5/32" DIA and 3/8" DIA



261-030-51



### Graduation .001"

Code	Range	Accuracy	Dial reading	d	L
261-030-11	0.03"	±0.001"	0-15-0	1.181"DIA	0.50"
261-030-12	0.03"	±0.001"	0-15-0	1.457"DIA	0.50"

### Graduation .0001"

Code	Range	Accuracy	Dial reading	d	L
261-080-01	0.008"	±0.0001"	0-40-0	1.181"DIA	0.563"
261-080-02	0.008"	±0.0001"	0-40-0	1.457"DIA	0.563"

### Graduation .0005"

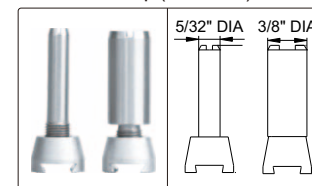
Code	Range	Accuracy	Dial reading	d	L
261-030-51	0.03"	±0.0005"	0-15-0	1.181"DIA	0.50"
261-030-52	0.03"	±0.0005"	0-15-0	1.457"DIA	0.50"

With manufacturer inspection certificate

### Application



### Clamp (included)



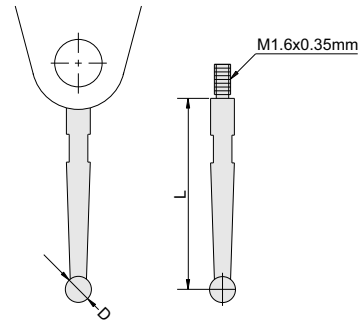
## SERIES 260

## STYLI FOR DIAL TEST INDICATOR



260-030-02

Code	For products	Tip material	D	L
260-030-02	261-030-11, 261-030-12 261-030-51, 261-030-52	carbide	.079" DIA	.50"
260-030-12	261-030-11, 261-030-12 261-030-51, 261-030-52	ruby	.079" DIA	.50"
260-080-02	261-080-01 261-080-02	carbide	.079" DIA	.563"



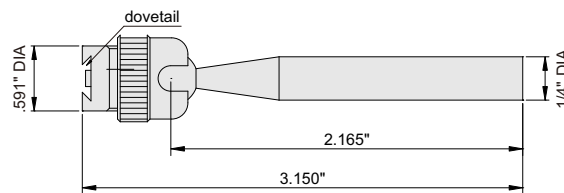
## 268

## UNIVERSAL HOLDER FOR DIAL TEST INDICATOR

- ◆ Set the indicators at the desired attitude to the workpiece



Application



Code

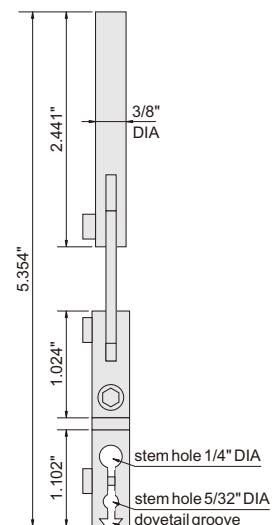
268-055-01I

## 274

## DIAL TEST INDICATOR HOLDER

- ◆ Supplied with hex key

Application



Code

274-130-01I

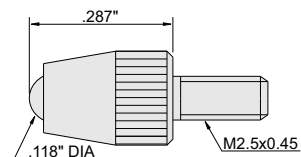
INDICATOR



## SERIES 270

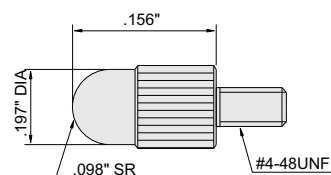
## CONTACT POINTS

### Ball Point



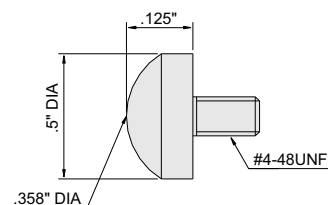
Code	Material
270-001-01I	carbide

### Shell Type Point



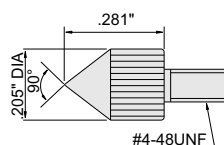
Code	Material
270-002-01I	steel

### Spherical Point



Code	Material
270-003-01I	steel

### Conical Point



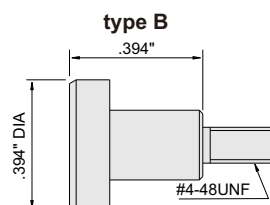
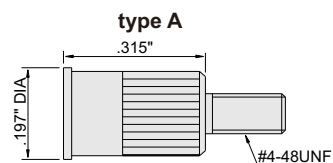
270-004-02

Code	Material
270-004-02I	steel

### Flat Point



270-005-11I



#### type A

Code	Material
270-005-01I	steel

#### type B

Code	Material
270-005-11I	steel

## SERIES 270

## EXTENSION ROD FOR CONTACT POINTS

- ◆ For series 225 Inch indicator

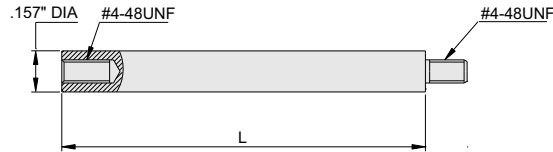


270-000-04I

Package



Code	Material	L
270-000-01I	steel	1"
270-000-02I	steel	2"
270-000-03I	steel	3"
270-000-04I	steel	4"

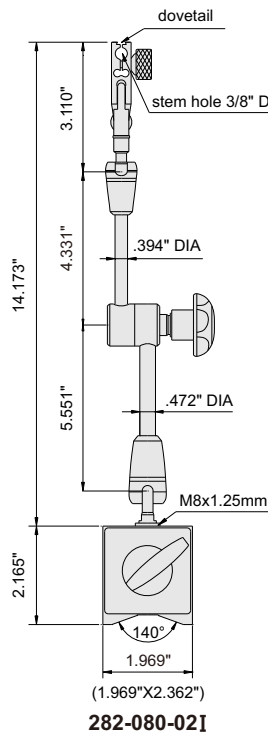
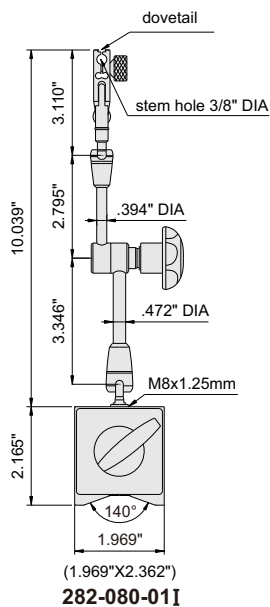


## SERIES 282

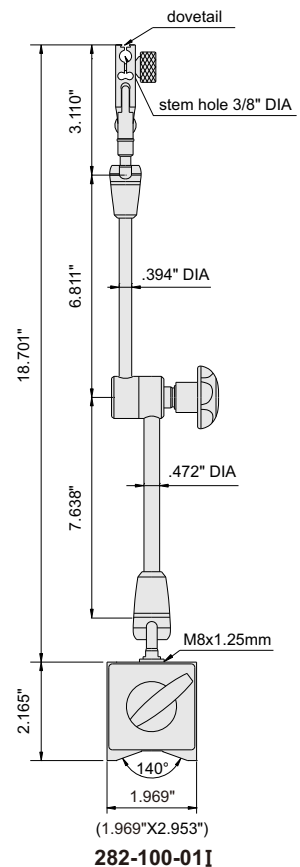
## UNIVERSAL MAGNETIC STAND

- ◆ For dial/digital indicators and dial test indicators
- ◆ Stem hole: 3/8" DIA
- ◆ With find adjustment and dovetail
- ◆ V-block base

Application



282-080-01I



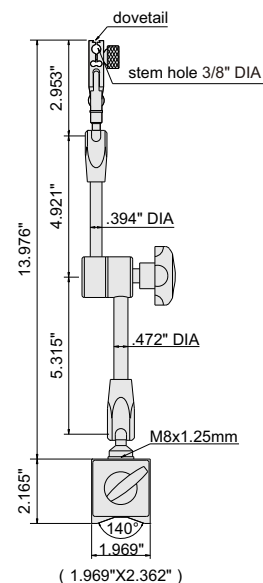
Code	Magnetic force
282-080-01I	80kgf
282-080-02I	80kgf
282-100-01I	100kgf

283

## UNIVERSAL MAGNETIC STAND

- ◆ Economic type
- ◆ For dial/digital indicators and dial test indicators
- ◆ Stem hole: 3/8" DIA
- ◆ With find adjustment and dovetail
- ◆ V-block base

Application



Code	Magnetic force
283-080-01I	80kgf

## SERIES 277

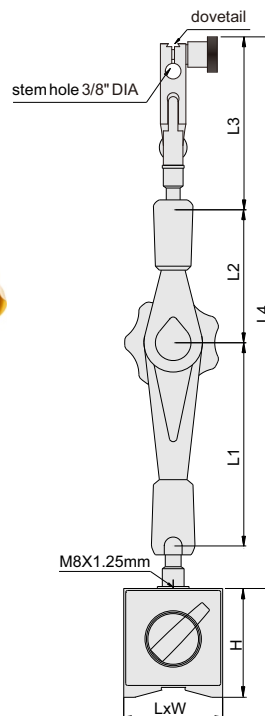
## HYDRAULIC UNIVERSAL MAGNETIC STAND

- ◆ For dial/digital indicators and dial test indicators
- ◆ With fine adjustment and dovetail
- ◆ V-block base
- ◆ Magnetic switch made of metal

Application



277-080-01I



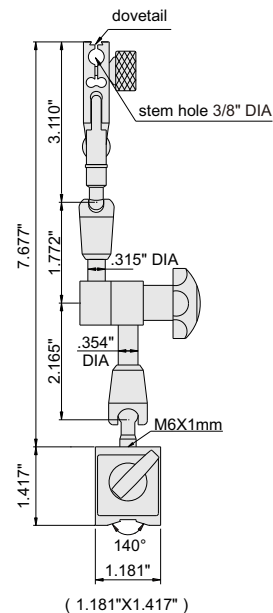
Code	Magnetic force	Base(LxWxH)	L1	L2	L3	L4
277-080-01I	80kgf	2.362"x1.969"x2.165"	2.559"	2.165"	3.110"	8.465"
277-080-02I	80kgf	2.362"x1.969"x2.165"	4.921"	3.543"	3.110"	12.402"
277-100-01I	100kgf	2.953"x1.969"x552.165"	6.299"	4.921"	3.110"	15.354"

286

## MINI MAGNETIC STAND

- ◆ For dial test indicators
- ◆ Stem hole: 3/8" DIA
- ◆ With find adjustment and dovetail
- ◆ V-block base

Application



Code	Magnetic force	Stem hole
286-040-01I	40kgf	3/8" DIA

Accuro



## SERIES 512

## STEEL GAUGE BLOCK SET

- ◆ Made of alloy steel
- ◆ Meet ASME B89.1.9
- ◆ With manufacturer inspection certificate
- ◆ Code explanation

512-□□□-□XI

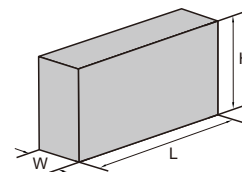
- 0: grade 0
- 1: grade AS-1
- 2: grade AS-2

Example:

Code	Quantity	Grade
512-036-00I	36	0
512-036-01I	36	AS-1
512-036-02I	36	AS-2



512-081-00I



Size:

Size(L)	W	H
.02"≤L≤0.394"	0.354"	1.181"
L > 0.394"	0.354"	1.378"

Code	Blocks per set	Block allocation		
		Size(inch)	Step(inch)	Quantity
512-008-0XI	8	5-8	1	4
		10-12	2	2
		16		1
		20		1
512-081-0XI	81	0.1001-0.1009	0.0001	9
		0.101-0.149	0.001	49
		0.05-0.95	0.05	19
		1-4	1	4

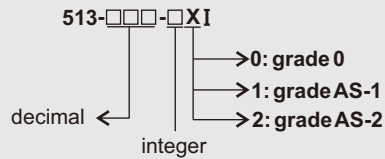
Code	Blocks per set	Block allocation		
		Size(inch)	Step(inch)	Quantity
512-036-0XI	36	0.05		1
		0.1001-0.1009	0.0001	9
		0.101-0.109	0.001	9
		0.11-0.19	0.01	9
		0.1-0.5	0.1	5
		1		1
		2		1
		4		1

## SERIES 513

## STEEL INDIVIDUAL GAUGE BLOCK(<.394")

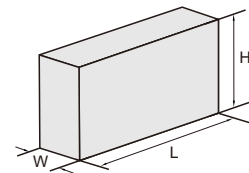


- ◆ Made of steel
- ◆ Meet ASME B89.1.9
- ◆ With manufacturer inspection certificate
- ◆ Code explanation



513-050-00I

**CUSTOM-MADE**  
other sizes are available  
upon request



Example:

Code	Size	Grade
513-050-00I	0.05"	0
513-050-01I	0.05"	AS-1
513-050-02I	0.05"	AS-2
513-10005-00I	0.10005"	0
513-1010-00I	0.101"	0

Size:

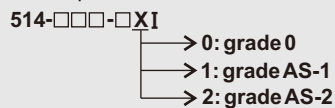
Size (L)	W	H
.02" ≤ L ≤ .394"	.354"	1.181"
L > .394"	.354"	1.181"

## SERIES 514

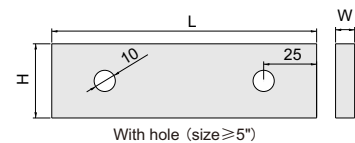
## INDIVIDUAL STEEL GAUGE BLOCKS



- ◆ Made of alloy steel
- ◆ Meet ASME B89.1.9
- ◆ With manufacturer inspection certificate
- ◆ Code explanation



514-000-4XI

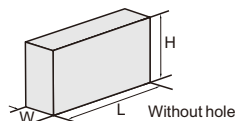


Example:

Code	Grade	Size (L)
514-000-10I	0	1"
514-000-11I	AS-1	1"
514-000-12I	AS-2	1"

Size:

Size (L)	W	H
.02" ≤ L ≤ .394"	.354"	1.181"
L > .394"	.354"	1.378"



Code	Size(L)
514-000-1XI	1"
514-200-10I	1.2"
514-400-10I	1.4"
514-500-11I	1.5"
514-600-10I	1.6"
514-000-2XI	2"

Code	Size(L)
514-000-3XI	3"
514-000-4XI	4"
514-000-5XI	5"
514-000-6XI	6"
514-000-7XI	7"
514-000-8XI	8"

Code	Size(L)
514-010-0XI	10"
514-012-0XI	12"
514-016-0XI	16"
514-020-0XI	20"
514-024-00I	24"

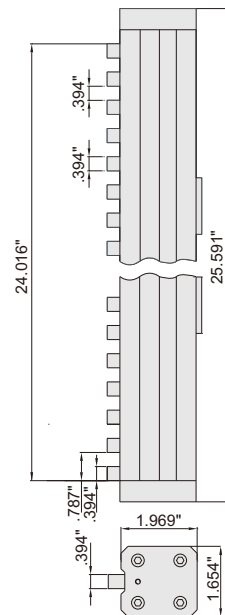
Code	Size(L)
514-200-0XI	0.2"
514-400-0XI	0.4"
514-500-01I	0.5"
514-600-0XI	0.6"
514-750-01I	0.75"
514-800-0XI	0.8"



**561**

## CHECK MASTER

- ◆ For checking the accuracy of measuring tools like calipers, height gage and so on
- ◆ Can be used in vertical and horizontal orientation
- ◆ With manufacturer inspection certificate



Code	Range	Accuracy
561-024-01E	24"	±140µin

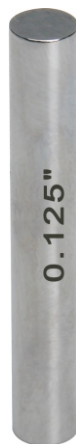
## SERIES 522

## INDIVIDUAL INCH PIN GAUGE

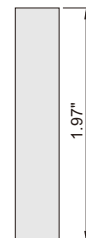
### CUSTOM-MADE

Standard size above 3.15" are available upon request

- ◆ Accuracy:  
±0.00004" (range:0.01-0.51")  
±0.0001" (range:0.51-3.15")
- ◆ Made of alloy steel
- ◆ Hardness HRC62-65
- ◆ Code explanation:  
**522-□□□□-2I**  
diameter



522-01250-2I



Package



Example:

Code	Size	Accuracy
522-01250-2I	0.125"	0.00004"

## 522

## INDIVIDUAL CARBIDE PIN GAUGE

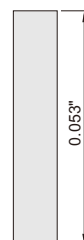
### CUSTOM-MADE

Size between .01" to 1.181", are available upon request

- ◆ Supplied diameter from .01" to 1.18",
- ◆ Accuracy:  
±1μm (range:.01"-.51")  
±2μm (range:.51"-1.18")
- ◆ Carbide material
- ◆ Hardness HRA90-90.5
- ◆ Code explanation:  
**522-□□□□-2IT**  
diameter



522-00530-2IT



Package



Example:

Code	Size(mm)	Accuracy
522-00530-2IT	0.053"	0.00004"

## SERIES 531

## SETTING RING

**CUSTOM-MADE**

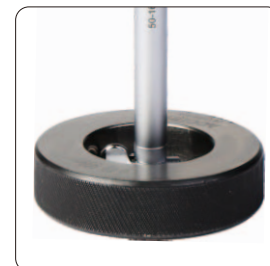
other sizes are available upon request

- ◆ For inside micrometer and bore gage setting
- ◆ The size marked on the setting ring is checked at the direction of the marking line
- ◆ Size difference (difference between the ordered size and the size marked on the setting ring when supplied): For example, the ordered size is .787", the real size marked on the setting ring when supplied may be .788"
- ◆ Range: .079-12" DIA



531-04000-01I

Application



### Example:

Code	Size
531-00316-01I	3/16"
531-00400-01I	0.4"
531-00508-01I	5/8"
531-00532-01I	5/32"
531-00716-01I	7/16"
531-00732-01I	7/32"
531-00932-01I	9/32"
531-01000-01I	1"
531-03000-01I	3"
531-04000-01I	4"
531-06000-01I	6"

Diameterd	Size difference	Roundness and cylindricity
.059-.118"	±.00039"	.000012"
.118-.394"		.000016"
.394-.709"		.000020"
.709-1.181"		.000024"
1.181-1.969"		.000028"
1.969-3.150"		.000031"
3.150-5.118"		.000039"
5.118-5.906"		.000047"
5.906-8.268"		.000059"
8.268-9.843"		.000098"
9.843-12"		.000118"

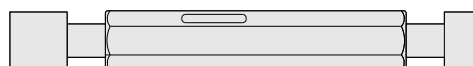
## SERIES 541

## PLAIN PLUG GAUGE

**CUSTOM-MADE**

other sizes are available upon request

- ◆ Grade H7
- ◆ Hardness HRC 60±2
- ◆ Confirms to standard GB/T 1957-2006
- ◆ Supplied range from .039" to 3.937"

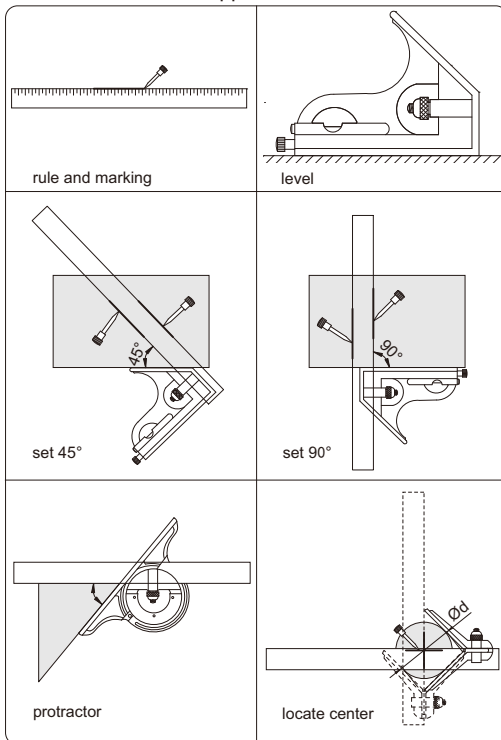


### Example:

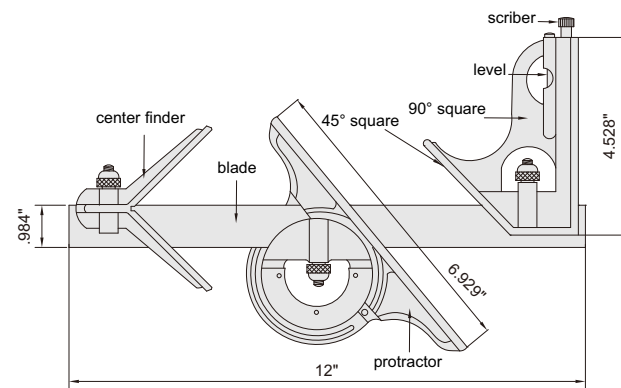
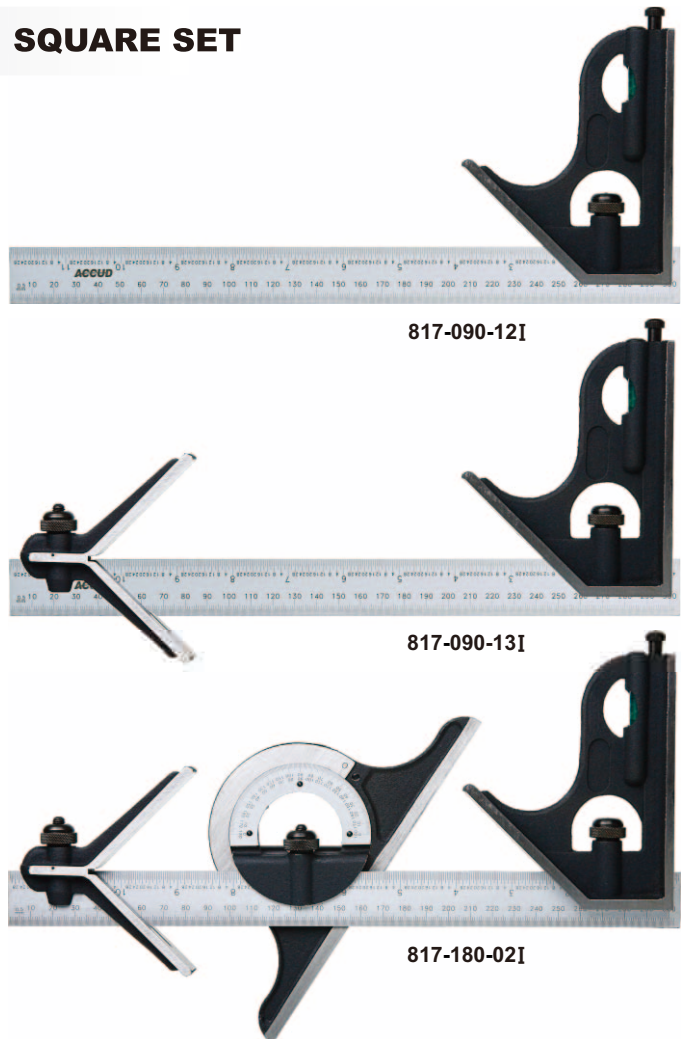
Code	Diameter Ød
541-038-DI	3/8"

- ◆ Protractor (made of cast iron), only for **817-180-02I**:  
Used to set an angle or angle measurement,  
measuring range: 0-180°, accuracy:  $\pm 20'$
- ◆ Square (made of cast iron):  
Used as 90° square or 45° square  
accuracy of 90° square:  $\pm 8'$ ,  
accuracy of 45° square:  $\pm 10'$
- ◆ Blade (made of stainless steel):  
Used as rule, measuring range: 12"  
front side graduation: 1/8" and 1/16"  
reverse side graduation: 1/32" and 1/64"
- ◆ Center finder (made of cast iron), only for **817-090-13I**  
and **817-180-02I**:  
To locate center of cylinders with diameter  
( $\varnothing d$ ): 1.181" DIA-3.937" DIA, accuracy:  $\pm .006"$

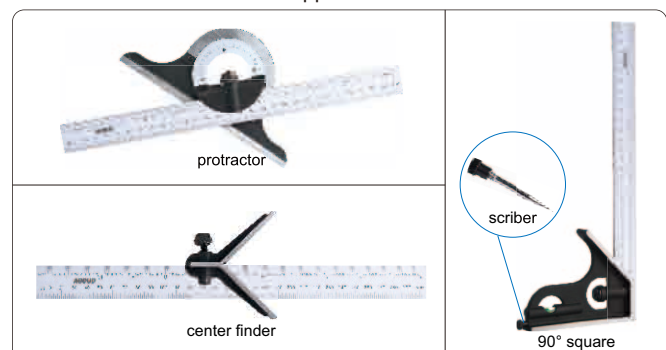
Application



Code	Remark
<b>817-090-12I</b>	2-piece set
<b>817-090-13I</b>	3-piece set
<b>817-180-02I</b>	4-piece set



Application



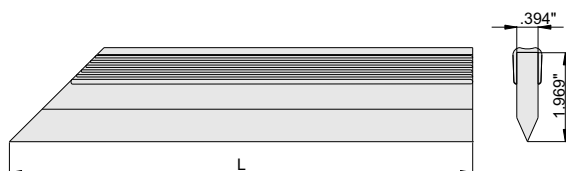
## SERIES 994

## STRAIGHT EDGE

- ◆ Beveled edge to check the flatness
- ◆ DIN874
- ◆ Made of stainless steel
- ◆ Stain chrome plating



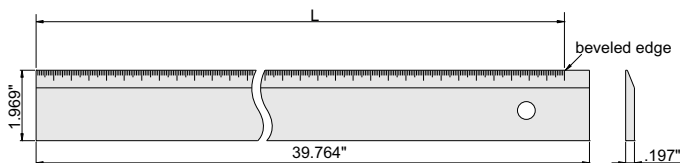
994-016-01E



Code	Size (L)	Straightness
994-016-01E	15.7"	.00014"
994-020-01E	19.7"	.00016"

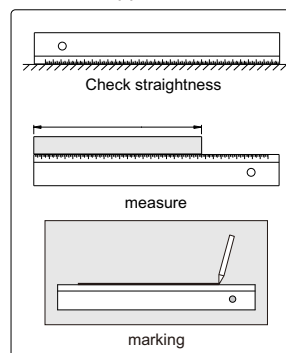
## 991

## STRAIGHT EDGE RULE



- ◆ Check straightness, as well as for measurement
- ◆ Made of hardened tool steel, chrome plated
- ◆ Graduation: 1mm

### Application



Code	Range(L)	Straightness
991-040-01E	1000mm	0.04mm



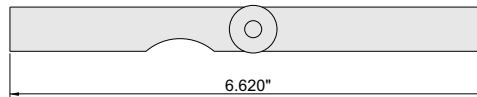
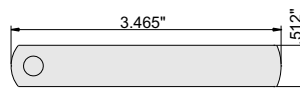
917

## INCH FEELER GAUGE

- ◆ .010" is made of brass, others are made of hardened alloy steel
- ◆ Each blade is marked with inch/metric size

Code	Range	Quantity of leaves
917-035-31	.0015" ~ .035"	32

Thickness of leaves included	Accuracy
.010" (brass)	±.00039"
.0015", .002"	±.0002"
.0025" ~ .007"	±.00028"
.008", .009"	±.00035"
.010", .011"	±.00039"
.012", .013"	±.00047"
.014", .015"	±.00051"
.016", .017"	±.00055"
.018", .019"	±.00059"
.020", .021"	±.00067"
.022", .023"	±.00071"
.024", .025", .026"	±.00075"
.028"	±.00091"
.030"	±.00094"
.032", .035"	±.00102"



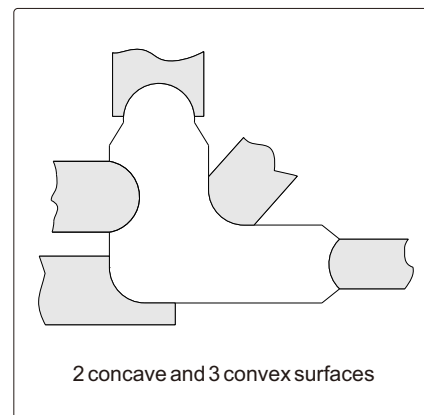
Package



## SERIES 942

## RADIUS GAUGE

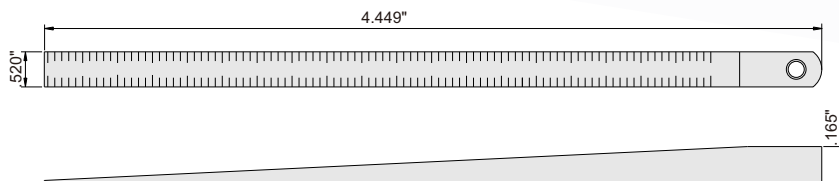
- ◆ Each piece has 2 concave and 3 convex surfaces
- ◆ Made of medium carbon steel



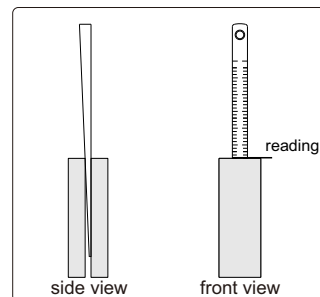
Code	Range	Quantity	Included radius	Handle
942-012-25I	1/64" ~ 1/2"	25	1/64", 1/32", 3/64", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 11/64", 3/16", 13/64", 7/32", 15/64", 1/4", 17/64", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32", 1/2"	with
942-013-26I	.010" ~ .5"	26	.010", .015", .020", .025", .030", .040", .050", .060", .070", .080", .090", .100", .12", .14", .16", .18", .20", .22", .24", .26", .28", .30", .35", .40", .45", .50"	with
942-001-08I	9/16" ~ 1"	8	9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"	without
942-112-08I	1-1/16" ~ 1-1/2"	8	1-1/16", 1-1/8", 1-3/16", 1-1/4", 1-5/16", 1-3/8", 1-7/16", 1-1/2"	without

**961****TAPER GAUGE**

- ◆ For quick measurement of slot width
- ◆ Stain chrome plated reading surface
- ◆ Made of stainless steel



Code	Range	Graduation	Accuracy
961-004-05I	.01-.15"	.001"	$\pm .003$ "

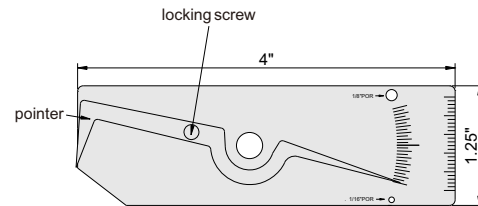
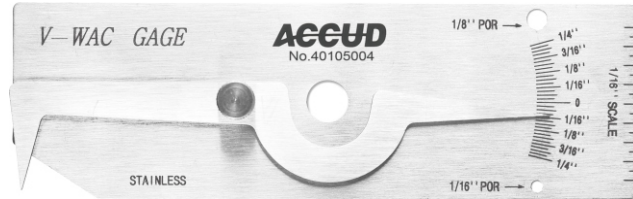
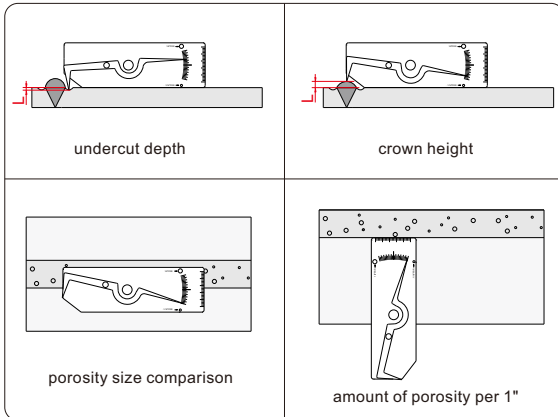




978

## WELDING GAUGE

- ◆ Pointer can be locked for later reference
- ◆ Made of stainless steel

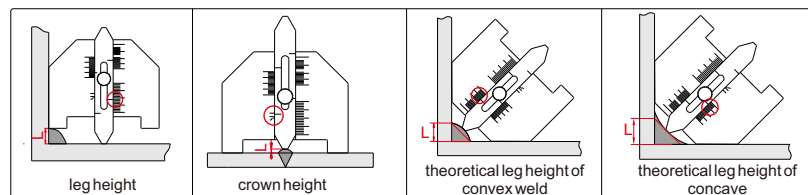
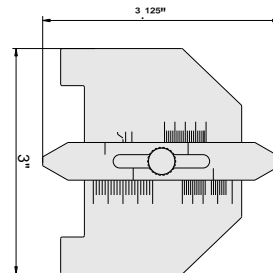
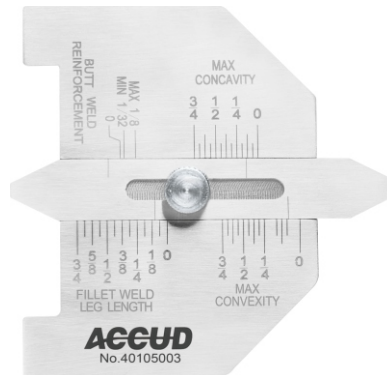


Code	Measurement	Range	Graduation	Accuracy
978-006-011	undercut depth	0 - 1/4"	1/64"	±1/64"
	crown height	0 - 1/4"	1/64"	±1/64"
	porosity size comparison	1/16", 1/8"	—	±0.008"
	amount of porosity per 1"	1"	1/16"	—

979

## WELDING GAUGE

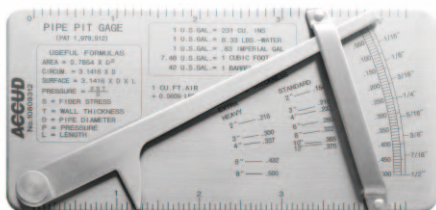
- ◆ Made of stainless steel



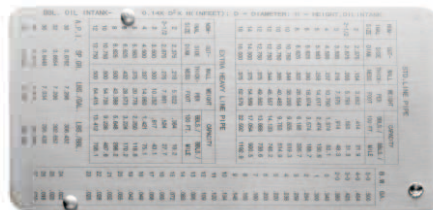
Code	Range	Graduation	Accuracy	Measurement
979-020-011	0-3/4"	1/16"	±1/32"	leg height
	0-1/8"	—	±1/32"	crown height
	0-3/4"	1/16"	±1/32"	theoretical leg height of convex weld
	0-3/4"	1/16"	±1/32"	theoretical leg height of concave

## PIPE PIT GAUGE

- ◆ Made of stainless steel

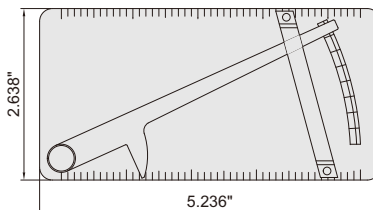
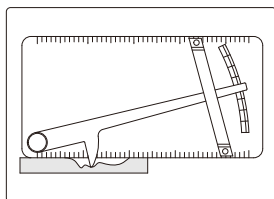


front side



reverse side

## Application

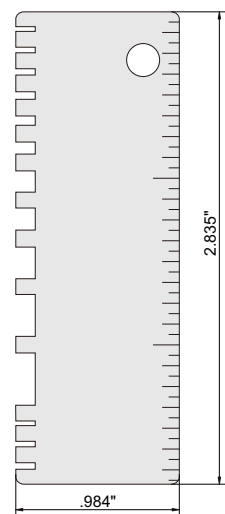
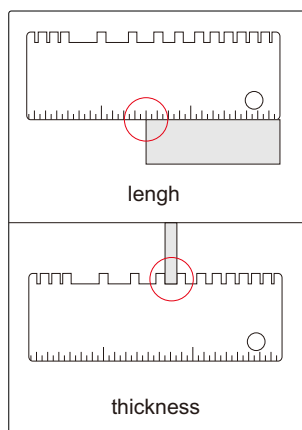


Code	Range	Graduation	Accuracy
748-012-01	0-0.5"(0-1/2")	0.01"(1/16")	±0.02"

## THICKNESS GAUGE

- ◆ Made of stainless steel

## Package



Code	Application	Range	Graduation	Accuracy
742-003-11	length	0-2 3/4"	1/16"	1/32"
	thickness	24GA.(0.0239"), 22GA.(0.0299"), 20GA.(0.0359")	—	±0.002"
		18GA.(0.0478"), 16GA.(0.0598"), 14GA.(0.0747"), 1/8"(0.125"), 10GA.(0.1345"), 3/16"(0.1875"), 1/4"(0.250"), 5/16"(0.3125")	—	±0.004"
		0.024", 0.030", 0.035"	—	±0.002"

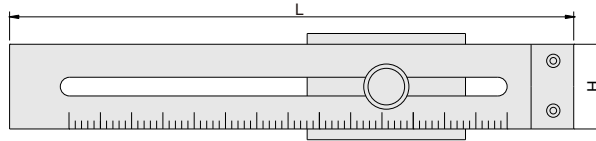
**SERIES 992**

**MARKING GAUGE**

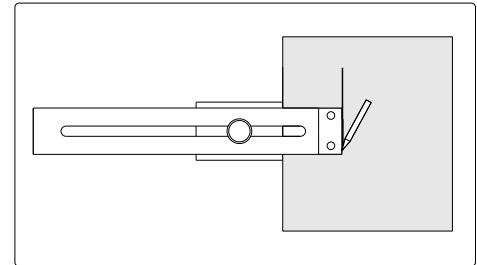
- ◆ Made of stainless steel
- ◆ Stain chrome finish



**992-008-01E**



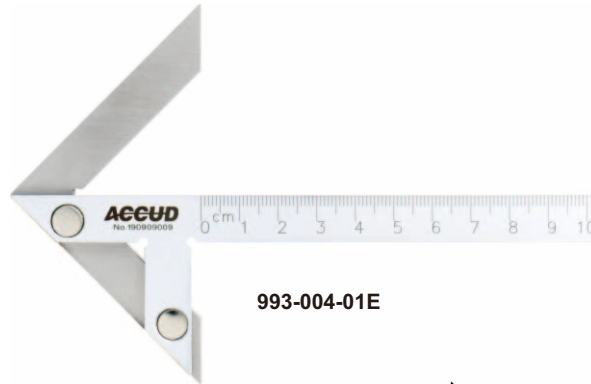
Code	Range	Accuracy	Graduation	H	L
992-008-01E	0-200mm	±0.1mm	0.1mm	1.575"	9.843"
992-010-01E	0-250mm	±0.1mm	0.1mm	1.575"	11.811"
992-012-01E	0-300mm	±0.1mm	0.1mm	1.575"	13.780"



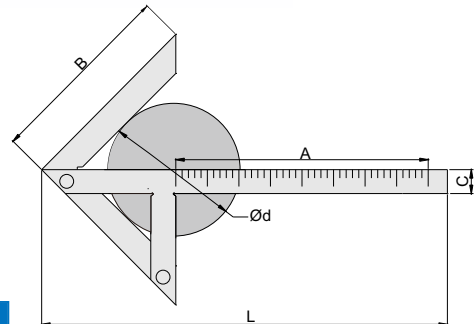
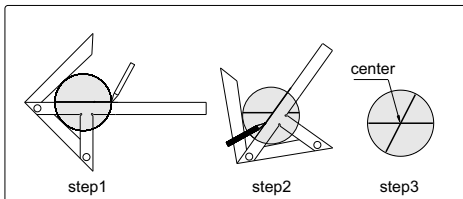
**SERIES 993**

**CENTER MARKING GAUGE**

- ◆ Find the center of round plates and shafts
- ◆ Made of stainless steel
- ◆ Stain chrome plated



**993-004-01E**

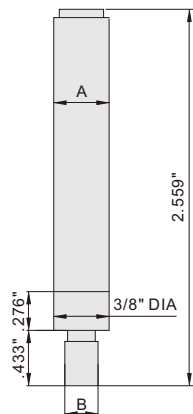
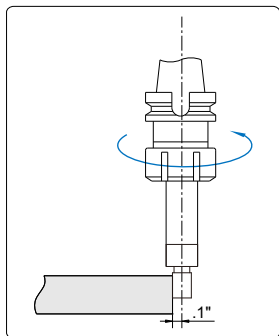


Code	Size (AxB)	Diameter(Ød)	Accuracy	C	L
993-004-01E	100x70mm	.16-3.54"	±0.15mm	.472"	6.024"
993-006-01E	150x130mm	.16-7.48"	±0.15mm	.591"	9.646"
993-008-01E	200x150mm	.24-8.66"	±0.15mm	.591"	12.205"

693

## EDGE FINDER

- ◆ Hardened shank and contact point
- ◆ Suitable for machine speed 400~600rpm



Code	Shank(A)	Contact surface(B)	Accuracy
693-010-011	3/8" DIA	.2" DIA	.0003"