

# UNIVERSAL CALIPERS



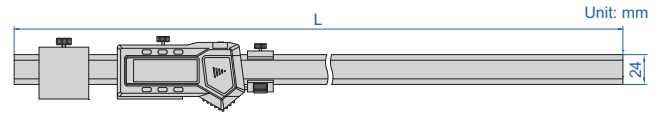
DATA OUTPUT



1125-600

- Non waterproof
- Buttons: on/off, set, mm/inch, ABS, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

With data interface (optional data output cable: code 7315-22 receiver is needed page 5, 7214-22 page 11, 7302-22 page 20)

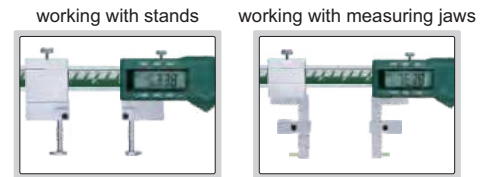


Code	Range *	Resolution	Accuracy	L
1125-600	0-600mm/0-24"	0.01mm/0.0005"	±0.05mm	778mm
1125-1000	0-1000mm/0-40"	0.01mm/0.0005"	±0.07mm	1205mm

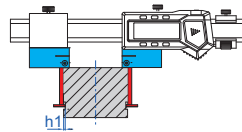
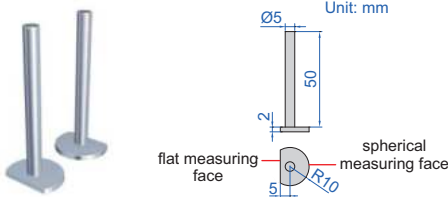
Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range *	Resolution	Accuracy	L
1125-600WL	0-600mm/0-24"	0.01mm/0.0005"	±0.05mm	778mm
1125-1000WL	0-1000mm/0-40"	0.01mm/0.0005"	±0.07mm	1205mm

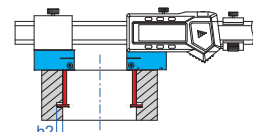
\*The range changes according to different points



## Half disk points (included)

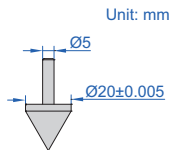


measuring external groove diameter with flat measuring face (depth  $h_1 \leq 2.5\text{mm}$ )

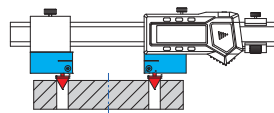


measuring internal groove diameter with spherical measuring face (depth  $h_2 \leq 7.5\text{mm}$ )

## Conical points (optional)

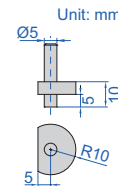


Code  
1125-T101

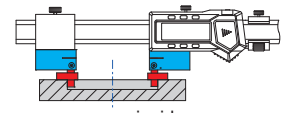


measuring center distance

## Round shoulder points (optional)

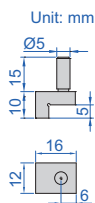


Code  
1125-T102

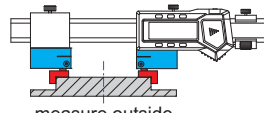


measure inside diameter of shallow hole

## Flat shoulder points (optional)

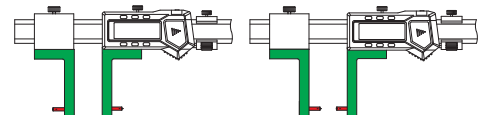
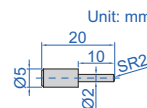


Code  
1125-T103

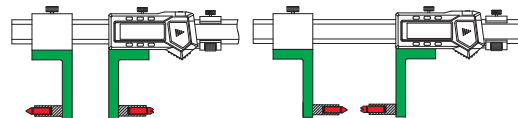


measure outside diameter of low boss

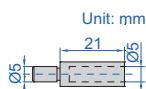
## Spherical points (included)



## Point sleeve (optional)

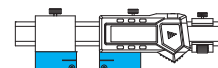
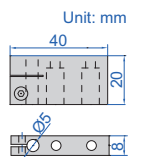


working with multifunctional points, ball points and screw thread points



Code  
1125-T104

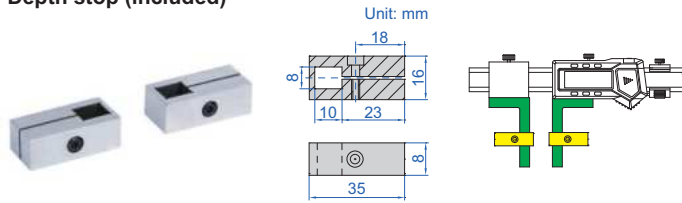
## Stands (included)



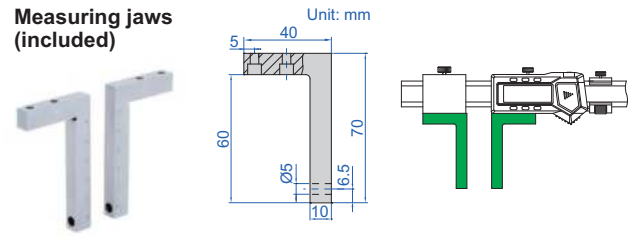
To be continued

Continued from previous page

**Depth stop (included)**



**Measuring jaws (included)**



**Multifunctional points 7392\* (optional, page 52)**



\*It is necessary to use point sleeve (code 1125-T104) for these points

**Ball points 7391\* (optional, page 52)**



**Screw thread points 7381\*, 7321\* (optional, page 52)**



## DIGITAL CALIPERS WITH INTERCHANGEABLE POINTS

DATA OUTPUT



1526-200

- Non waterproof
- Supplied with 3 pairs of points and zero setting block for external measurement
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Optional accessory: points



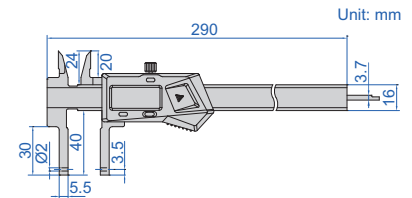
**short spherical points (included)** Unit: mm



**long spherical/flat points (included)** Unit: mm



**spherical blade points (included)** Unit: mm



**With data interface**

Code	Data output cable (optional)
1526-200	7315-25 (receiver is needed) page 5, 7214-25 page 11, 7302-21 page 20

**Built-in wireless**

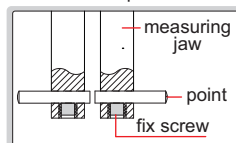
Code	Receiver (optional)
1526-200WL	code 7315-2/3/6/7/8/9

Point	Range	Accuracy	Application
short spherical points	12-212mm/0.5-8.5" (internal)	±0.03mm	for grooves inside small hole
long spherical/flat points	24-224mm/1-8.8" (internal) 0-187mm/0-7.5" (external)	±0.03mm	spherical points for grooves inside hole flat points for external grooves
spherical blade points	24-224mm/1-8.8" (internal) 0-187mm/0-7.5" (external)	±0.03mm	for narrow grooves inside hole

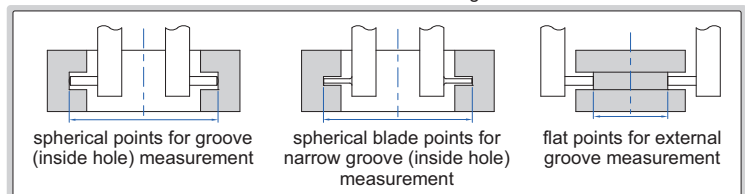
zero setting block for external measurement (included)



install points



measure internal and external grooves



To be continued

Continued from previous page

### Depth stop (optional)

**Code**  
**6143**

Unit: mm

**6143**

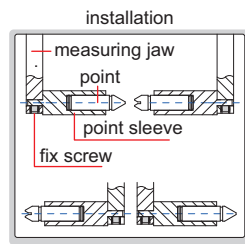
for external groove measurement

for internal groove measurement

### Point sleeve (optional)

Unit: mm

**1526-T101**



**Code**  
**1526-T101**

### Ball points (optional)

**7391-T5**

Unit: mm

\* It is necessary to use point sleeve (code **1526-T101**) for these points  
 \*\* Range of **1526-200** and **1526-200WL** after installing the points and point sleeve

Code	Ball dia. (D)	Range **
<b>7391-T3*</b>	SØ2.0mm	75-275mm/3.0-10.8" (internal) 0-146mm/0-5.7" (external)
<b>7391-T4*</b>	SØ2.5mm	76-276mm/3.0-10.8" (internal) 0-145mm/0-5.7" (external)
<b>7391-T5*</b>	SØ3.0mm	77-277mm/3.0-10.9" (internal) 0-144mm/0-5.6" (external)
<b>7391-T6*</b>	SØ3.5mm	78-278mm/3.1-10.9" (internal) 0-143mm/0-5.6" (external)
<b>7391-T7*</b>	SØ4.0mm	79-279mm/3.1-10.9" (internal) 0-142mm/0-5.6" (external)
<b>7391-T8*</b>	SØ4.5mm	80-280mm/3.2-11.0" (internal) 0-141mm/0-5.5" (external)
<b>7391-T9*</b>	SØ5.0mm	81-281mm/3.2-11.0" (internal) 0-140mm/0-5.5" (external)
<b>7391-T10*</b>	SØ6.0mm	83-283mm/3.3-11.1" (internal) 0-138mm/0-5.4" (external)

### Multifunctional points (optional)

**7392-T1**

**7392-T4**

**7392-T7**

**7392-T2**

**7392-T5**

**7392-T8**

**7392-T3**

**7392-T6**

**7392-T9**

Code	Type
<b>7392-T1*</b>	flat
<b>7392-T2*</b>	spherical
<b>7392-T3*</b>	spline
<b>7392-T4*</b>	disk
<b>7392-T5*</b>	blade
<b>7392-T6*</b>	knife-edge point
<b>7392-T7*</b>	point
<b>7392-T8*</b>	knife-edge point
<b>7392-T9*</b>	point

\* It is necessary to use point sleeve (code **1526-T101**) for these points

**Range \*\***  
66-266mm/2.6-10.5" (internal), 0-155mm/0-6.1" (external)

\*\* Range of **1526-200** and **1526-200WL** after installing the points and point sleeve

### Screw thread points (optional)

Unit: mm

**7321-T16**

Unit: mm

**7381-T11**

#### Internal thread (60° thread angle)

Code	Pitch
<b>7321-T11*</b>	0.4-0.5mm/64-48TPI
<b>7321-T12*</b>	0.6-0.9mm/44-28TPI
<b>7321-T13*</b>	1-1.75mm/24-14TPI
<b>7321-T14*</b>	2-3mm/13-9TPI
<b>7321-T15*</b>	3.5-5mm/8-5TPI
<b>7321-T16*</b>	5.5-7mm/4.5-3.5TPI
<b>7321-T1S*</b>	6 pairs/set, including all above points

#### External thread (60° thread angle)

Code	Pitch
<b>7381-T11*</b>	0.4-0.5mm/64-48TPI
<b>7381-T12*</b>	0.6-0.9mm/44-28TPI
<b>7381-T13*</b>	1-1.75mm/24-14TPI
<b>7381-T14*</b>	2-3mm/13-9TPI
<b>7381-T15*</b>	3.5-5mm/8-5TPI
<b>7381-T16*</b>	5.5-7mm/4.5-3.5TPI
<b>7381-TS*</b>	6 pairs/set, including all above points

**Range \*\***  
66-266mm/2.6-10.5" (internal)  
0-155mm/0-6.1" (external)

\*\* Range of **1526-200** and **1526-200WL** after installing the points and point sleeve

\* It is necessary to use point sleeve (code **1526-T101**) for these points

## DIGITAL CALIPERS WITH INTERCHANGEABLE POINTS

DATA  
OUTPUT

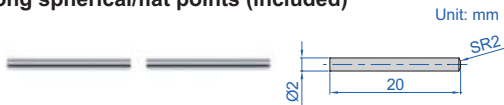


2

### short spherical/flat points (included)



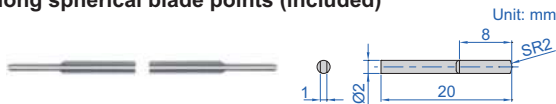
### long spherical/flat points (included)



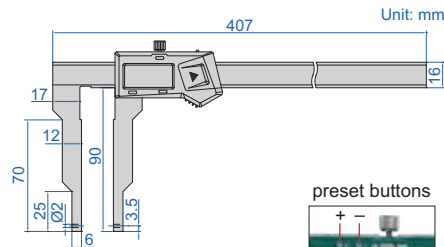
### short spherical blade points (included)



### long spherical blade points (included)



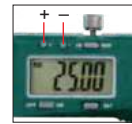
1124-300A



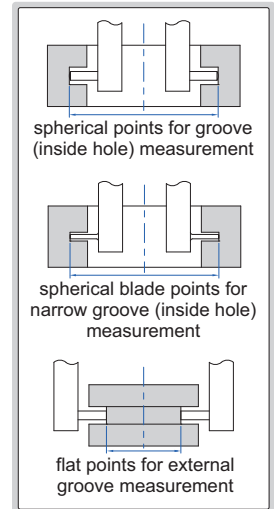
zero setting block for external measurement (included)



preset buttons

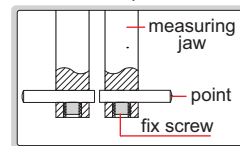


measure internal and external grooves



- Non waterproof
- Supplied with 4 pairs of points and zero setting block for external measurement
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Optional accessory: points (code 1526-T101, 7392, 7391, 7381, 7321), depth stop (code 6143)

install points



depth stop 6143 (optional)



### With data interface

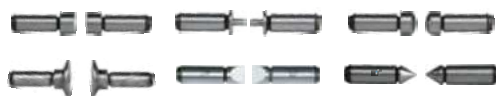
Code	Data output cable (optional)
1124-300A	7315-25 (receiver is needed) page 5, 7214-25 page 11, 7302-21 page 20

### Built-in wireless

Code	Receiver (optional)
1124-300AWL	code 7315-2/3/6/7/8/9

Point	Range	Accuracy	Application
short spherical/flat points	24-324mm/1-12.7" (internal) 0-288mm/0-11.3" (external)	±0.04mm	spherical points for grooves inside hole (small hole) flat points for external grooves
long spherical/flat points	40-340mm/1.5-13.3" (internal) 0-272mm/0-10.7" (external)	±0.04mm	spherical points for grooves inside hole (large hole) flat points for external grooves
short spherical blade points	24-324mm/1-12.7" (internal) 0-288mm/0-11.3" (external)	±0.04mm	for narrow grooves inside hole (small hole)
long spherical blade points	40-340mm/1.5-13.3" (internal) 0-272mm/0-10.7" (external)	±0.04mm	for narrow grooves inside hole (large hole)

### Multifunctional points 7392\* (optional, page 52)



### Ball points 7391\* (optional, page 52)



### Screw thread points 7381\*, 7321\* (optional, page 52)



\* It is necessary to use point sleeve (code 1526-T101) for these points

DATA  
OUTPUT

VARIOUS POINTS ARE  
AVAILABLE (PAGE 272-276)

## DIGITAL CALIPERS WITH INTERCHANGEABLE POINTS



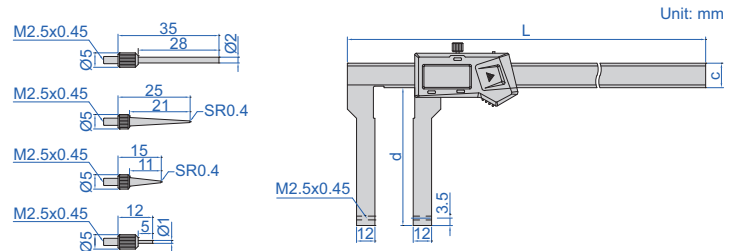
2

preset buttons



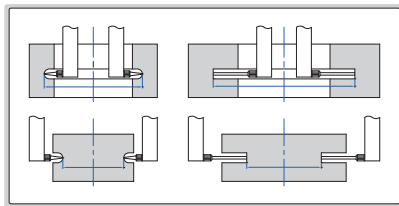
1530-300

- Non waterproof
- Supplied with 4 pairs of points and zero setting block for external measurement
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Optional accessory: points (page 272-276), depth stop (code 6143)

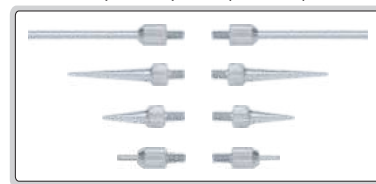


Unit: mm

measure internal and external grooves



4 pairs of points (included)



zero setting block for external measurement (included)



Code	Range*	Accuracy	L	d	c	Data output cable (optional)
1530-300	0-300mm/0-12"	±0.06mm	407mm	90mm	16mm	7315-25 (receiver is needed) page 5, 7214-25 page 11, 7302-21 page 20
1530-500	0-500mm/0-20"	±0.08mm	740mm	100mm	24mm	7315-22 (receiver is needed) page 5, 7214-22 page 11, 7302-22 page 20

Built-in wireless  
(receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range*	Accuracy	L	d	c
1530-300WL	0-300mm/0-12"	±0.06mm	407mm	90mm	16mm
1530-500WL	0-500mm/0-20"	±0.08mm	740mm	100mm	24mm

\*For different points, the measuring range changes accordingly

depth stop 6143 (optional)



## DIGITAL INSIDE GROOVE CALIPERS

2

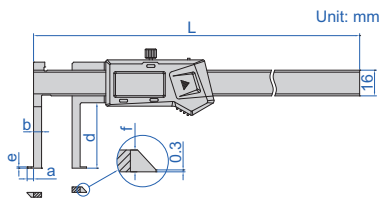
preset buttons



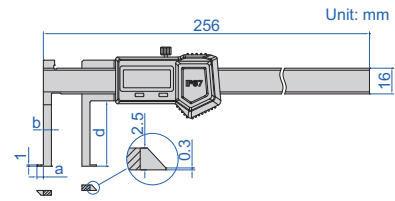
1520-150



1520-150P



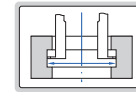
type A



type B

- Measure diameter of grooves inside small bores
- Resolution: 0.01mm/0.0005"
- Buttons type A: on/off, set, mm/inch, preset (+, -), type B: on/off, zero, mm/inch, ABS/REL, hold
- Battery CR2032
- Made of stainless steel
- Optional accessory: depth stop (code **6143**)

depth stop 6143  
(optional)



Non waterproof, with data interface

(optional data output cable: code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20)

Code	Range	Type	Accuracy	L	a	b	d	e	f
1520-150	11-150mm/0.43-6"	A	±0.04mm	236mm	3.5mm	5mm	41mm	1mm	2.5mm
1520-200	16-200mm/0.63-8"	A	±0.04mm	285mm	5mm	7mm	41mm	1mm	3mm
1520-300	20-300mm/0.79-12"	A	±0.05mm	398mm	7.5mm	9mm	62mm	2mm	4mm

Non waterproof, built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Type	Accuracy	L	a	b	d	e	f
1520-150WL	11-150mm/0.43-6"	A	±0.04mm	236mm	3.5mm	5mm	41mm	1mm	2.5mm
1520-200WL	16-200mm/0.63-8"	A	±0.04mm	285mm	5mm	7mm	41mm	1mm	3mm
1520-300WL	20-300mm/0.79-12"	A	±0.05mm	398mm	7.5mm	9mm	62mm	2mm	4mm

IP67 dust/waterproof, no automatic power off, set zero after power on each time, without data interface

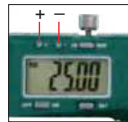
Code	Range	Type	Accuracy	a	b	d
1520-150P	14-150mm/0.56-6"	B	±0.04mm	5mm	7mm	30mm
1520-1501P	8-150mm/0.31-6"	B	±0.04mm	2mm	4mm	40mm

DATA  
OUTPUT

## DIGITAL INSIDE POINT CALIPERS

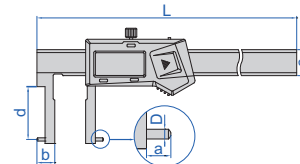
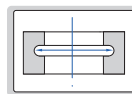
 depth stop 6143  
(optional)


preset buttons


 1121-150A  
type A

 1121-150B  
type B

- Non waterproof
- Measure groove diameter
- Resolution: 0.01mm/0.0005"
- Buttons type A: on/off, set, mm/inch, preset (+, -)  
type B: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: depth stop  
(code 6143, for calipers with c=16mm)



Preset (no need to add the width of the jaws on the reading), with data interface

(mm)

Code	Range	Type	Accuracy	L	a	b	c	d	D	Data output cable (optional)
1121-150A	24-150mm/0.94-6"	A	±0.04mm	250	5	12	16	28	Ø2	7315-25 (receiver is needed) page 5, 7214-25 page 11, 7302-21 page 20
1121-1501	35-150mm/1.38-6"	A	±0.05mm	250	6	17.5	16	60	Ø2	
1121-200A	25-200mm/0.98-8"	A	±0.04mm	310	5	12.5	16	37	Ø2	
1121-2001	40-200mm/1.57-8"	A	±0.05mm	310	7	20	16	70	Ø3	
1121-300A	30-300mm/1.18-12"	A	±0.07mm	410	5	15	16	50	Ø2	
1121-3001A	50-300mm/1.97-12"	A	±0.07mm	410	8	25	16	77	Ø3	
1121-500A	40-500mm/1.57-20"	A	±0.07mm	680	5	20	24	90	Ø3	7315-22 (receiver is needed) page 5, 7214-22 page 11, 7302-22 page 20
1121-5001	60-500mm/2.36-20"	A	±0.08mm	680	10	30	24	120	Ø3	
1121-5002	80-500mm/3.15-20"	A	±0.08mm	680	16	40	24	150	Ø3	

Preset (no need to add the width of the jaws on the reading), built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Type	Accuracy	L	a	b	c	d	D
1121-150AWL	24-150mm/0.94-6"	A	±0.04mm	250mm	5mm	12mm	16mm	28mm	Ø2mm
1121-1501WL	35-150mm/1.38-6"	A	±0.05mm	250mm	6mm	17.5mm	16mm	60mm	Ø2mm
1121-200AWL	25-200mm/0.98-8"	A	±0.04mm	310mm	5mm	12.5mm	16mm	37mm	Ø2mm
1121-2001WL	40-200mm/1.57-8"	A	±0.05mm	310mm	7mm	20mm	16mm	70mm	Ø3mm
1121-300AWL	30-300mm/1.18-12"	A	±0.07mm	410mm	5mm	15mm	16mm	50mm	Ø2mm
1121-3001AWL	50-300mm/1.97-12"	A	±0.07mm	410mm	8mm	25mm	16mm	77mm	Ø3mm
1121-500AWL	40-500mm/1.57-20"	A	±0.07mm	680mm	5mm	20mm	24mm	90mm	Ø3mm
1121-5001WL	60-500mm/2.36-20"	A	±0.08mm	680mm	10mm	30mm	24mm	120mm	Ø3mm
1121-5002WL	80-500mm/3.15-20"	A	±0.08mm	680mm	16mm	40mm	24mm	150mm	Ø3mm

No preset (need to add the width of the jaws on the reading)

Code	Range	Type	Accuracy	L	a	b	c	d	D
1121-150B	50-150mm/1.97-6"	B	±0.06mm	270mm	8mm	25mm	20mm	90mm	Ø3mm
1121-200B	60-200mm/2.36-8"	B	±0.06mm	320mm	10mm	30mm	20mm	100mm	Ø3mm
1121-300B	60-300mm/2.36-12"	B	±0.07mm	420mm	10mm	30mm	20mm	110mm	Ø3mm

## DIGITAL INSIDE GROOVE CALIPERS

2

depth stop 6143  
(optional)



preset buttons



1120-150A  
type A

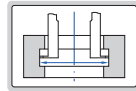
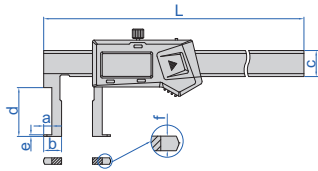


1120-150B  
type B



1120-150P  
type C

- Measure groove diameter
- Resolution: 0.01mm/0.0005"
- Buttons type A: on/off, set, mm/inch, preset (+, -)  
type B: on/off, zero, mm/inch  
type C: on/off, zero, mm/inch, ABS/REL, hold
- Battery CR2032
- Made of stainless steel
- Optional accessory: depth stop  
(code 6143, for calipers with c=16mm)



Non waterproof, preset (no need to add the width of the jaws on the reading), with data interface

(mm)

Code	Range	Type	Accuracy	L	a	b	c	d	e	f	Data output cable (optional)
1120-150A	22-150mm/0.87-6"	A	±0.04mm	250	5	11	16	30	1	4	7315-25 (receiver is needed) page 5, 7214-25 page 11, 7302-21 page 20
1120-1501	35-150mm/1.38-6"	A	±0.06mm	250	6	17.5	16	60	1.5	4	
1120-200A	25-200mm/0.98-8"	A	±0.04mm	310	5	12.5	16	40	1	4	
1120-2001	40-200mm/1.57-8"	A	±0.06mm	310	7	20	16	70	2.5	4	
1120-300A	30-300mm/1.18-12"	A	±0.05mm	410	5	15	16	50	1.5	4	
1120-3001	50-300mm/1.97-12"	A	±0.07mm	410	8	25	16	80	2.5	4	
1120-500	40-500mm/1.57-20"	A	±0.07mm	680	5	20	24	90	2.2	5.5	7315-22 (receiver is needed) page 5, 7214-22 page 11, 7302-22 page 20
1120-5001	60-500mm/2.36-20"	A	±0.08mm	680	10	30	24	120	3.4	5.5	
1120-5002	80-500mm/3.15-20"	A	±0.08mm	680	16	40	24	150	5.2	5.5	

Non waterproof, preset (no need to add the width of the jaws on the reading),  
built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Type	Accuracy	L	a	b	c	d	e	f
1120-150AWL	22-150mm/0.87-6"	A	±0.04mm	250mm	5mm	11mm	16mm	30mm	1mm	4mm
1120-1501WL	35-150mm/1.38-6"	A	±0.06mm	250mm	6mm	17.5mm	16mm	60mm	1.5mm	4mm
1120-200AWL	25-200mm/0.98-8"	A	±0.04mm	310mm	5mm	12.5mm	16mm	40mm	1mm	4mm
1120-2001WL	40-200mm/1.57-8"	A	±0.06mm	310mm	7mm	20mm	16mm	70mm	2.5mm	4mm
1120-300AWL	30-300mm/1.18-12"	A	±0.05mm	410mm	5mm	15mm	16mm	50mm	1.5mm	4mm
1120-3001WL	50-300mm/1.97-12"	A	±0.07mm	410mm	8mm	25mm	16mm	80mm	2.5mm	4mm
1120-500WL	40-500mm/1.57-20"	A	±0.07mm	680mm	5mm	20mm	24mm	90mm	2.2mm	5.5mm
1120-5001WL	60-500mm/2.36-20"	A	±0.08mm	680mm	10mm	30mm	24mm	120mm	3.4mm	5.5mm
1120-5002WL	80-500mm/3.15-20"	A	±0.08mm	680mm	16mm	40mm	24mm	150mm	5.2mm	5.5mm

Non waterproof, no preset (need to add the width of the jaws on the reading)

Code	Range	Type	Accuracy	L	a	b	c	d	e	f
1120-150B	50-150mm/1.97-6"	B	±0.06mm	270mm	8mm	25mm	20mm	90mm	3.4mm	4mm
1120-200B	60-200mm/2.36-8"	B	±0.06mm	320mm	10mm	30mm	20mm	100mm	3.4mm	4mm
1120-300B	60-300mm/2.36-12"	B	±0.07mm	420mm	10mm	30mm	20mm	110mm	3.4mm	4mm

IP67 dust/waterproof, no automatic power off, set zero after power on each time,  
no preset (need to add the width of the jaws on the reading), without data interface

Code	Range	Type	Accuracy	L	a	b	c	d	e	f
1120-150P	22-150mm/0.87-6"	C	±0.04mm	250mm	5mm	11mm	16mm	30mm	1mm	4mm

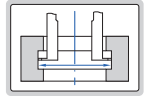
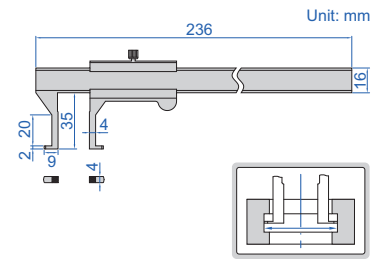


## INSIDE GROOVE VERNIER CALIPER

- Measure diameter of grooves inside bores
- Made of stainless steel
- Satin chrome plated reading surface

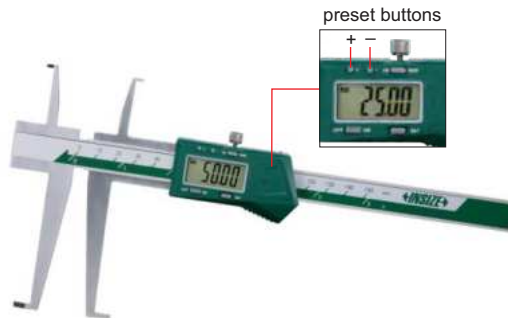


1262-150A



Code	Range	Graduation	Accuracy
1262-150A	18-150mm	0.02mm	±0.04mm

## DIGITAL INSIDE GROOVE CALIPERS

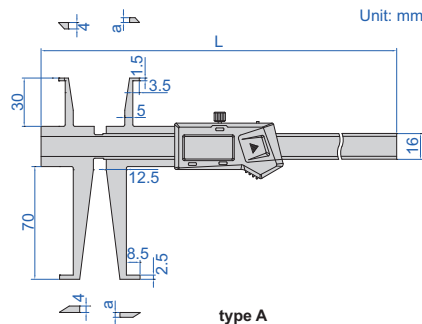


1176-150

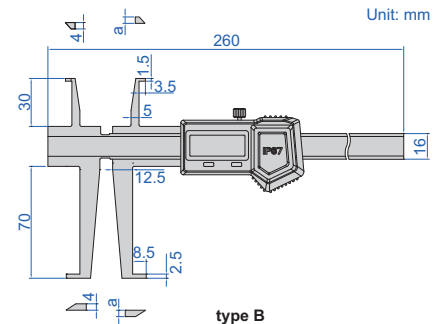


1176-150P

depth stop **6143**  
(optional)



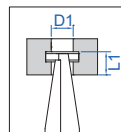
type A



type B

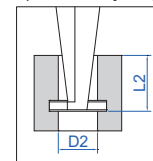
- Measure diameter of grooves inside bores
- Resolution: 0.01mm/0.0005"
- Buttons type A: on/off, set, mm/inch, preset (+, -)  
type B: on/off, zero, mm/inch, ABS/REL, hold
- Battery CR2032
- Made of stainless steel
- Optional accessory: depth stop (code **6143**)

sizes to be measured  
(use upper jaws)



D1	L1
Ø9	<8
Ø10	<15
Ø11~200	<30

sizes to be measured  
(use lower jaws)



	(mm)	
	D2	L2
	Ø17	<16
	Ø18	<28
	Ø19	<40
	Ø20	<50
	Ø21	<58
	Ø22~200	<70

Non waterproof, with data interface

(optional data output cable: code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20)

Code	Range of upper jaw	Range of lower jaw	Type	Accuracy	L	a
1176-150	9-150mm/0.35-6"	17-150mm/0.70-6"	A	±0.04mm	260mm	3mm
1176-200	9-200mm/0.35-8"	17-200mm/0.70-8"	A	±0.05mm	320mm	3.5mm

Non waterproof, built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range of upper jaw	Range of lower jaw	Type	Accuracy	L	a
1176-150WL	9-150mm/0.35-6"	17-150mm/0.70-6"	A	±0.04mm	260mm	3mm
1176-200WL	9-200mm/0.35-8"	17-200mm/0.70-8"	A	±0.05mm	320mm	3.5mm

IP67 dust/waterproof, without data interface, no automatic power off, set zero after power on each time

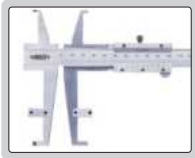
Code	Range of upper jaw	Range of lower jaw	Type	Accuracy	a
1176-150P	9-150mm/0.35-6"	17-150mm/0.70-6"	B	±0.04mm	4mm

## INSIDE GROOVE CALIPERS

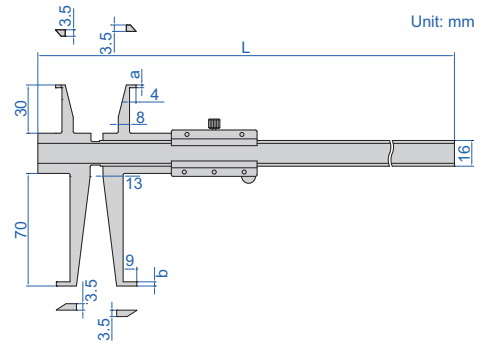


1199-150

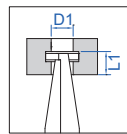
depth stop 6143 (optional)



- Measure diameter of grooves inside bores
- Graduation: 0.02mm
- Made of stainless steel
- Optional accessory: depth stop (code 6143)

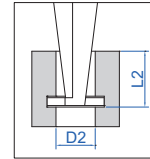


sizes to be measured (use upper jaws)



(mm)	
D1	L1
Ø9	<8
Ø10	<12
Ø11	<15
Ø12	<20
Ø13-300	<30

sizes to be measured (use lower jaws)

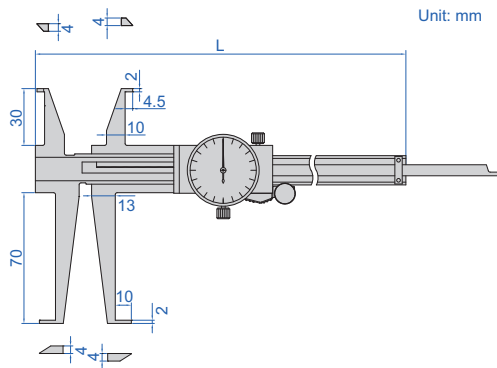


(mm)	
D2	L2
Ø18	<30
Ø19	<40
Ø20	<45
Ø21	<55
Ø22	<60
Ø23-300	<70

Code	Range of upper jaw	Range of lower jaw	Accuracy	L	a	b
1199-150	9-150mm	18-150mm	±0.04mm	248mm	1.6mm	2.5mm
1199-200	9-200mm	18-200mm	±0.05mm	298mm	1.8mm	2.8mm
1199-300	9-300mm	18-300mm	±0.06mm	398mm	2.0mm	3.0mm

## INSIDE GROOVE DIAL CALIPERS

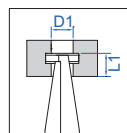
SHOCK PROOF



1376-150

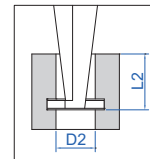
- Measure diameter of grooves inside bores
- Shockproof dial indicator
- Dial indicator graduation: 0.02mm
- Made of stainless steel
- Optional accessory: depth stop (code 6143)

sizes to be measured (use upper jaws)



(mm)	
D1	L1
Ø11	<8
Ø12	<10
Ø13	<15
Ø14	<20
Ø15-300	<30

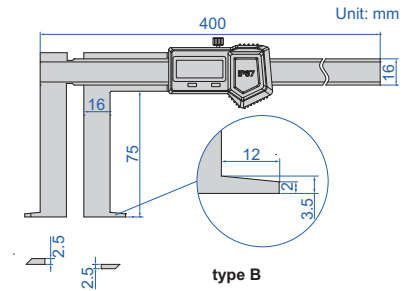
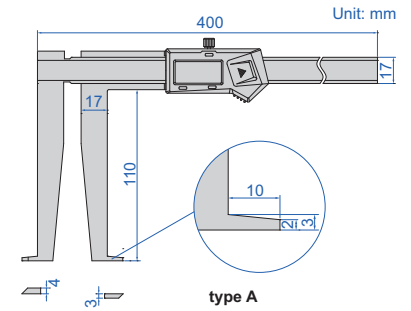
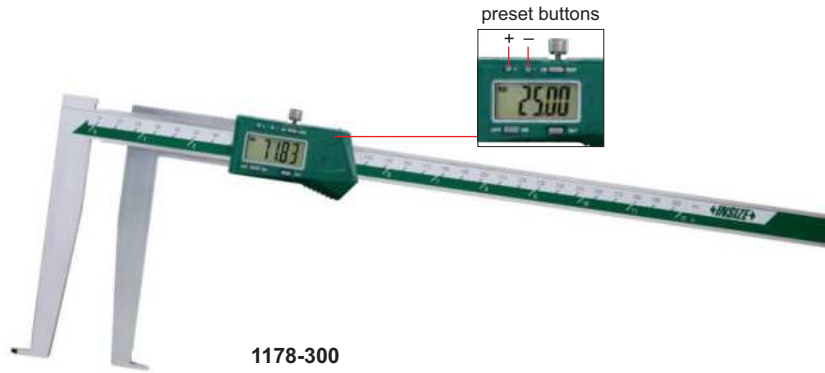
sizes to be measured (use lower jaws)



(mm)	
D2	L2
Ø18	<20
Ø19	<28
Ø20	<35
Ø21	<40
Ø22	<50
Ø23-300	<70

Code	Range of upper jaw	Range of lower jaw	Accuracy	L
1376-150	11-150mm	18-150mm	±0.03mm	240mm
1376-200	11-200mm	18-200mm	±0.03mm	290mm
1376-300	11-300mm	18-300mm	±0.04mm	390mm

## DIGITAL INSIDE GROOVE CALIPERS



- Measure diameter of grooves inside bores
- Resolution: 0.01mm/0.0005"
- Buttons type A: on/off, set, mm/inch, preset (+, -)  
type B: on/off, zero, mm/inch, ABS/REL, hold
- Battery CR2032
- Made of stainless steel
- Optional accessory: depth stop (code **6143**)

depth stop **6143**  
(optional)



Non waterproof, with data interface (optional data output cable:  
code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20)

Code	Range	Type	Accuracy
1178-300	25-300mm/1.18-12"	A	±0.05mm

Non waterproof, built-in wireless  
(receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Type	Accuracy
1178-300WL	25-300mm/1.18-12"	A	±0.05mm

IP67 dust/waterproof, no automatic power off, set zero  
after power on each time, without data interface

Code	Range	Type	Accuracy
1178-300P	33-300mm/1.30-12"	B	±0.05mm

## DIGITAL DEEP HOLE INSIDE GROOVE CALIPERS

DATA OUTPUT

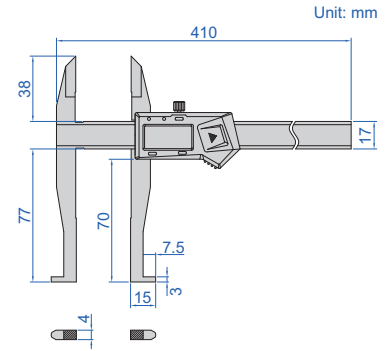
preset buttons



1129-300

- Non waterproof
- Measure diameter of grooves inside deep holes
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Optional accessory: depth stop (code 6143)

depth stop 6143 (optional)

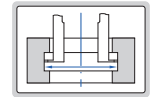


With data interface (optional data output cable: code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20)

Code	Range of upper jaw	Range of lower jaw	Accuracy
1129-300	0-300mm/0-12"	30-300mm/1.2-12"	±0.06mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range of upper jaw	Range of lower jaw	Accuracy
1129-300WL	0-300mm/0-12"	30-300mm/1.2-12"	±0.06mm



## DIGITAL INSIDE GROOVE CALIPERS

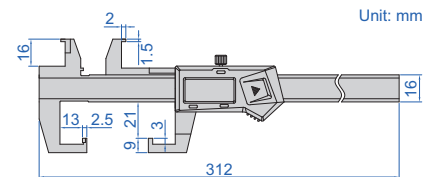
DATA OUTPUT

- Non waterproof
- Measure diameter or distance of grooves
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



1128-200

preset buttons

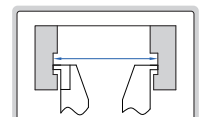
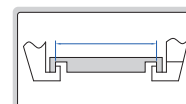


With data interface (optional data output cable: code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20)

Code	Range of upper jaw	Range of lower jaw	Accuracy
1128-200	10-200mm/0.39-8"	3-200mm/0.12-8"	±0.03mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range of upper jaw	Range of lower jaw	Accuracy
1128-200WL	10-200mm/0.39-8"	3-200mm/0.12-8"	±0.03mm



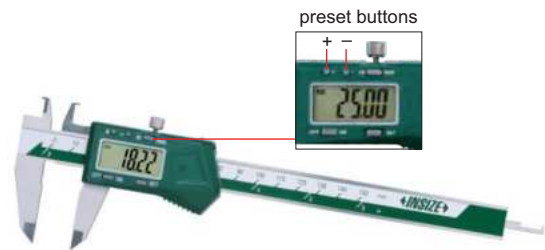
DATA  
OUTPUT

## DIGITAL INSIDE GROOVE CALIPERS

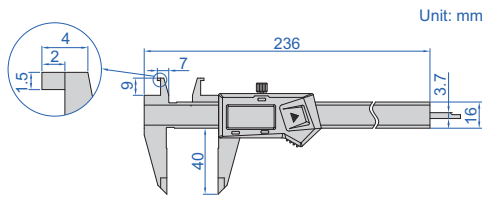
2



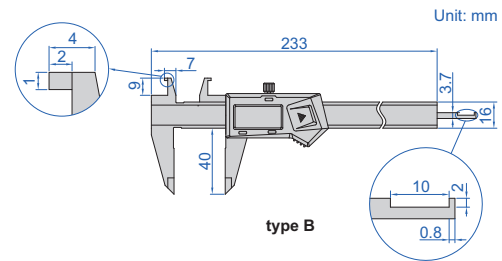
1191-150



1191-150B



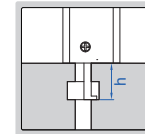
type A



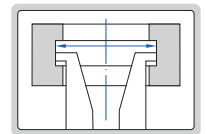
type B

- Non waterproof
- Upper jaws for measuring diameter of grooves
- Resolution: 0.01mm/0.0005"
- Buttons type A: on/off, zero, mm/inch  
type B: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

measure depth of grooves  
(h<10mm, only for type B)



measure diameter of grooves 8-150mm



### With data interface

(optional data output cable: code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20)

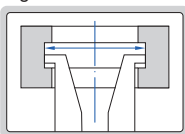
Code	Range of upper jaw	Range of lower jaw	Accuracy	Type
1191-150	8-150mm/0.3-6"	0-150mm/0-6"	±0.03mm	A
1191-150B	8-150mm/0.3-6"	0-150mm/0-6"	±0.03mm	B

### Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

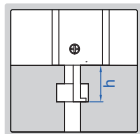
Code	Range of upper jaw	Range of lower jaw	Accuracy	Type
1191-150WL	8-150mm/0.3-6"	0-150mm/0-6"	±0.03mm	A
1191-150BWL	8-150mm/0.3-6"	0-150mm/0-6"	±0.03mm	B

## INSIDE GROOVE VERNIER CALIPER

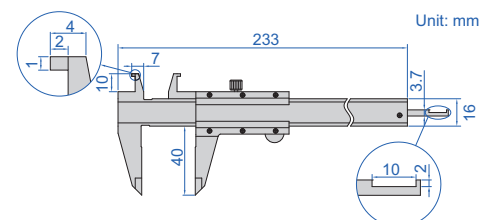
measure diameter of grooves 8-150mm



measure depth of grooves (h<10mm)



1291-150



- Graduation: 0.02mm
- Made of stainless steel
- Satin chrome plated reading surface

Code	Range of upper jaw	Range of lower jaw	Accuracy
1291-150	8-150mm	0-150mm	±0.03mm

## DIGITAL OUTSIDE NECK CALIPERS

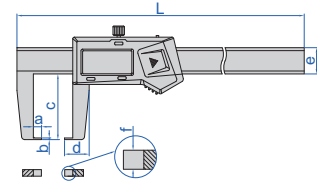
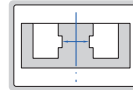
DATA OUTPUT

- Non waterproof
- Measure grooves and recesses
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Optional accessory: depth stop (code **6143**, for calipers with e=16mm)



1187-150A

depth stop 6143 (optional)



With data interface

Code	Range	Accuracy	L	a	b	c	d	e	f	Data output cable (optional)
1187-150A	0-150mm/0-6"	±0.04mm	250	5	1	40	15	16	4	7315-25 (receiver is needed) page 5, 7214-25 page 11, 7302-21 page 20
1187-200A	0-200mm/0-8"	±0.05mm	310	9	1.5	80	23	16	4	
1187-300A	0-300mm/0-12"	±0.06mm	490	12	2	150	36	24	4	
1187-500A	0-500mm/0-20"	±0.07mm	690	12	2	150	36	24	5.5	7315-22 (receiver is needed) page 5, 7214-22 page 11, 7302-22 page 20

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy	L	a	b	c	d	e	f
1187-150AWL	0-150mm/0-6"	±0.04mm	250mm	5mm	1mm	40mm	15mm	16mm	4mm
1187-200AWL	0-200mm/0-8"	±0.05mm	310mm	9mm	1.5mm	80mm	23mm	16mm	4mm
1187-300AWL	0-300mm/0-12"	±0.06mm	490mm	12mm	2mm	150mm	36mm	24mm	4mm
1187-500AWL	0-500mm/0-20"	±0.07mm	690mm	12mm	2mm	150mm	36mm	24mm	5.5mm

## DIGITAL OUTSIDE POINT CALIPERS

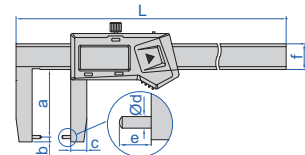
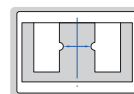
DATA OUTPUT

- Non waterproof
- Measure wall thickness inside bores and recesses
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Optional accessory: depth stop (code **6143**)



1185-150A

depth stop 6143 (optional)



With data interface

Code	Range	Accuracy	L	a	b	c	Ød	e	f	Data output cable (optional)
1185-150A	0-150mm/0-6"	±0.04mm	250	40	3	10	2	5	16	7315-25 (receiver is needed) page 5, 7214-25 page 11, 7302-21 page 20
1185-200A	0-200mm/0-8"	±0.05mm	310	80	3	14	3	9	16	
1185-300A	0-300mm/0-12"	±0.06mm	490	150	3	20	3	12	24	7315-22 (receiver is needed) page 5, 7214-22 page 11, 7302-22 page 20

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy	L	a	b	c	Ød	e	f
1185-150AWL	0-150mm/0-6"	±0.04mm	250mm	40mm	3mm	10mm	2mm	5mm	16mm
1185-200AWL	0-200mm/0-8"	±0.05mm	310mm	80mm	3mm	14mm	3mm	9mm	16mm
1185-300AWL	0-300mm/0-12"	±0.06mm	490mm	150mm	3mm	20mm	3mm	12mm	24mm

## DIGITAL OUTSIDE GROOVE CALIPERS

**DATA OUTPUT**

- Non waterproof
- Measure grooves and recesses in small spaces
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

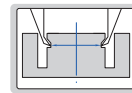
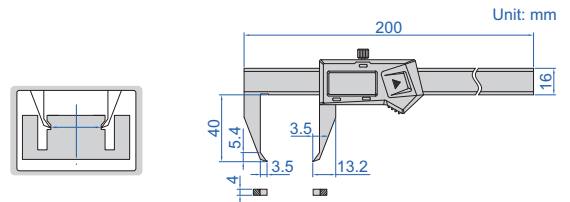

**1535-100**


With data interface (optional data output cable: code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20)

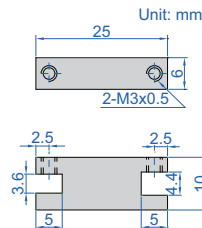
Code	Range	Accuracy
1535-100	0-100mm/0-4"	±0.03mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy
1535-100WL	0-100mm/0-4"	±0.03mm



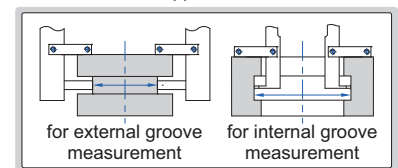
## DEPTH STOP FOR CALIPERS


**6143**


- Supplied in pair
- Made of stainless steel
- Suitable for caliper series 1124, 1526, 1530, 1199, 1520, 1176, 1178, 1120, 1121, 1187, 1129, 1185 and 1376

**Code**  
**6143**

application



## DIGITAL SMALL POINT CALIPERS

**DATA OUTPUT**

- Non waterproof
- Small pointed jaws fit into small grooves and recesses
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

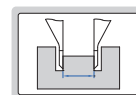
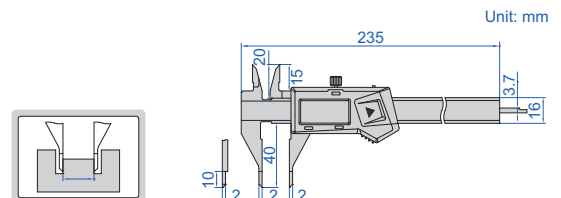

**1169-150**

With data interface (optional data output cable: code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20)

Code	Range	Accuracy
1169-150	0-150mm/0-6"	±0.03mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy
1169-150WL	0-150mm/0-6"	±0.03mm



## DIGITAL POINT CALIPERS

DATA  
OUTPUT

- Non waterproof
- Pointed jaws fit into small grooves and recesses
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



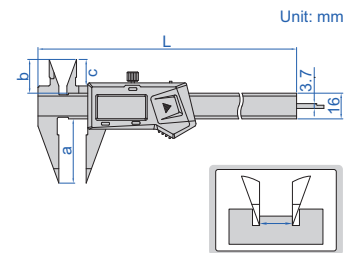
1183-150A

With data interface (optional data output cable:  
code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20)

Code	Range	Accuracy	L	a	b	c
1183-150A	0-150mm/0-6"	±0.03mm	236mm	40mm	21mm	16.5mm
1183-200A	0-200mm/0-8"	±0.03mm	286mm	50mm	24mm	19.5mm
1183-300A	0-300mm/0-12"	±0.03mm	400mm	60mm	25mm	21.5mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy	L	a	b	c
1183-150AWL	0-150mm/0-6"	±0.03mm	236mm	40mm	21mm	16.5mm
1183-200AWL	0-200mm/0-8"	±0.03mm	286mm	50mm	24mm	19.5mm
1183-300AWL	0-300mm/0-12"	±0.03mm	400mm	60mm	25mm	21.5mm



## DIGITAL CALIPERS WITH POSITIONING SURFACES

DATA  
OUTPUT

- Non waterproof
- Lower jaws with positioning surfaces, for measuring inside diameters quickly
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



1534-200

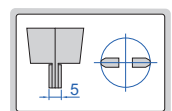
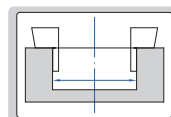
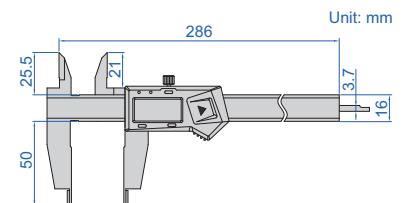
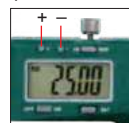
With data interface (optional data output cable:  
code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20)

Code	Range	Accuracy
1534-200	0-200mm/0-8"	±0.03mm

Built-in wireless  
(receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy
1534-200WL	0-200mm/0-8"	±0.03mm

preset buttons





DATA  
OUTPUT

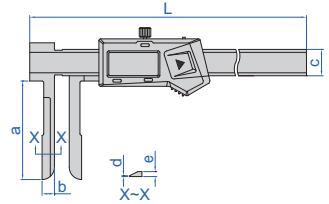
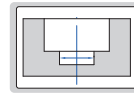
## DIGITAL INSIDE KNIFE-EDGE CALIPERS

2



1123-150A

- Non waterproof
- Measure diameter of deep step holes
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



With data interface

(mm)

Code	Range	Accuracy	L	a	b	c	d	e	Data output cable (optional)
1123-150A	15-150mm/0.6-6"	±0.05mm	250	60	12	16	0.3	3.5	7315-25 (receiver is needed) page 5, 7214-25 page 11, 7302-21 page 20
1123-200A	20-200mm/0.8-8"	±0.06mm	305	100	17	16	0.3	3.5	
1123-300A	24-300mm/0.9-12"	±0.06mm	500	150	22	24	0.5	3.5	7315-22 (receiver is needed) page 5, 7214-22 page 11, 7302-22 page 20

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy	L	a	b	c	d	e
1123-150AWL	15-150mm/0.6-6"	±0.05mm	250mm	60mm	12mm	16mm	0.3mm	3.5mm
1123-200AWL	20-200mm/0.8-8"	±0.06mm	305mm	100mm	17mm	16mm	0.3mm	3.5mm

DATA  
OUTPUT

## DIGITAL CALIPERS WITH KNIFE-EDGE LOWER JAWS

- Non waterproof
- Measure diameter of narrow grooves
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



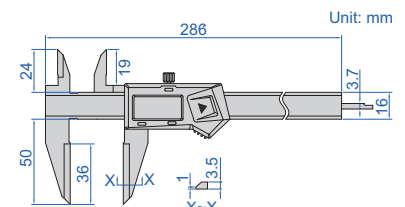
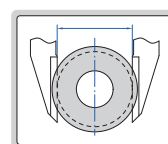
1532-200

With data interface (optional data output cable:  
code 7315-25 receiver is needed page 5,  
7214-25 page 11, 7302-21 page 20)

Code	Range	Accuracy
1532-200	0-200mm/0-8"	±0.03mm

Built-in wireless  
(receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy
1532-200WL	0-200mm/0-8"	±0.03mm



## DIGITAL CALIPERS WITH LONG UPPER JAWS

DATA  
OUTPUT

2

- Non waterproof
- Long upper jaws for measuring diameter of deep holes
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



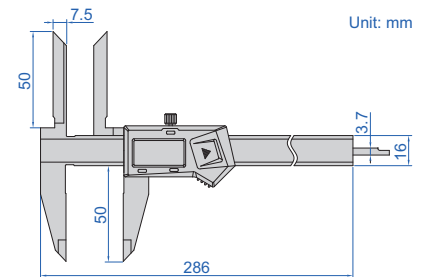
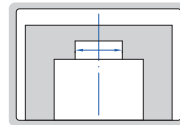
1138-200

With data interface (optional data output cable: code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20)

Code	Range	Accuracy
1138-200	0-200mm/0-8"	±0.04mm

Built-in wireless  
(receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy
1138-200WL	0-200mm/0-8"	±0.04mm



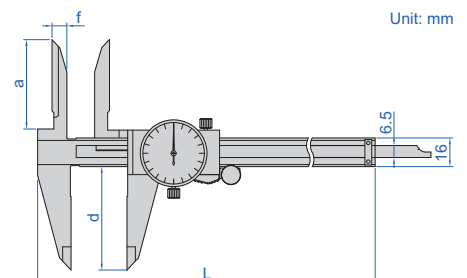
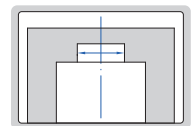
## DIAL CALIPERS WITH LONG UPPER JAWS

SHOCK  
PROOF



1338-300

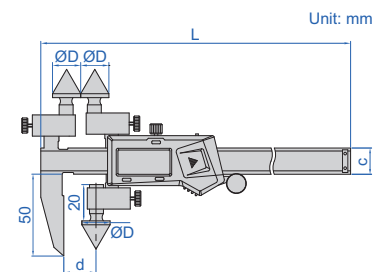
- Long upper jaws for measuring diameter of deep holes
- Shockproof dial indicator
- Dial indicator graduation: 0.02mm
- Made of stainless steel



Code	Range	Accuracy	L	a	d	f
1338-150	0-150mm	±0.03mm	236	40	40	6.5
1338-200	0-200mm	±0.03mm	288	45	50	7.5
1338-300	0-300mm	±0.04mm	400	50	60	8

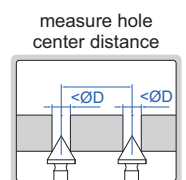

**1521-2002**

- Non waterproof
- Measure hole center distance in the same or offset planes and edge to hole center distance
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



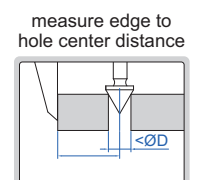
With data interface (optional data output cable:  
code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20) (mm)

Code	Range	Accuracy	ØD	d	L	c
1521-150	5-140mm/0.2-5.5"	±0.05mm	5	5	236	16
1521-1501	10-140mm/0.4-5.5"	±0.05mm	10	10	236	16
1521-1502	20-140mm/0.8-5.5"	±0.05mm	20	20	236	16
1521-200	5-190mm/0.2-7.5"	±0.05mm	5	5	285	16
1521-2001	10-190mm/0.4-7.5"	±0.05mm	10	10	285	16
1521-2002	20-190mm/0.8-7.5"	±0.05mm	20	20	285	16
1521-300	5-290mm/0.2-11.5"	±0.07mm	5	5	385	17
1521-3001	10-290mm/0.4-11.5"	±0.07mm	10	10	385	17
1521-3002	20-290mm/0.8-11.5"	±0.07mm	20	20	385	17



Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed) (mm)

Code	Range	Accuracy	ØD	d	L	c
1521-150WL	5-140mm/0.2-5.5"	±0.05mm	5	5	236	16
1521-1501WL	10-140mm/0.4-5.5"	±0.05mm	10	10	236	16
1521-1502WL	20-140mm/0.8-5.5"	±0.05mm	20	20	236	16
1521-200WL	5-190mm/0.2-7.5"	±0.05mm	5	5	285	16
1521-2001WL	10-190mm/0.4-7.5"	±0.05mm	10	10	285	16
1521-2002WL	20-190mm/0.8-7.5"	±0.05mm	20	20	285	16
1521-300WL	5-290mm/0.2-11.5"	±0.07mm	5	5	385	17
1521-3001WL	10-290mm/0.4-11.5"	±0.07mm	10	10	385	17
1521-3002WL	20-290mm/0.8-11.5"	±0.07mm	20	20	385	17



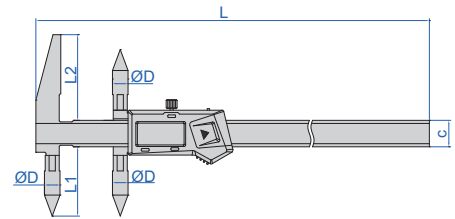
# DIGITAL CENTERLINE AND EDGE TO CENTER CALIPERS

DATA  
OUTPUT

2

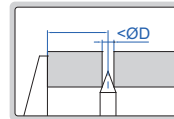


1525-300

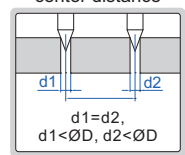


- Non waterproof
- Measure hole center distance or edge to hole center distance
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

measure edge to hole center distance



measure hole center distance



**With data interface**

(mm)

Code	Range of upper jaw (edge to center)	Range of lower jaw (center to center)	Accuracy	ØD	L1	L2	c	L	Data output cable (optional)
1525-300	5-300mm/0.2-12"	10-300mm/0.4-12"	±0.08mm	10	44.5	55	17	410	7315-25 (receiver is needed) page 5, 7214-25 page 11, 7302-21 page 20
1525-3001	10-300mm/0.4-12"	20-300mm/0.8-12"	±0.08mm	20	48	60	17	410	
1525-500	10-500mm/0.4-20"	20-500mm/0.8-20"	±0.09mm	20	50	60	24	690	7315-22 (receiver is needed) page 5, 7214-22 page 11, 7302-22 page 20
1525-1000	15-1000mm/0.6-40"	30-1000mm/1.2-40"	±0.12mm	30	70	81	31	1255	
1525-1500	15-1500mm/0.6-60"	30-1500mm/1.2-60"	±0.15mm	30	70	81	31	1760	

**Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)**

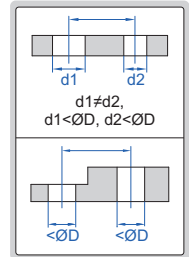
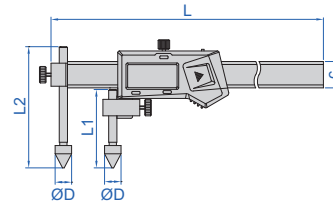
(mm)

Code	Range of upper jaw (edge to center)	Range of lower jaw (center to center)	Accuracy	ØD	L1	L2	c	L
1525-300WL	5-300mm/0.2-12"	10-300mm/0.4-12"	±0.08mm	10	44.5	55	17	410
1525-3001WL	10-300mm/0.4-12"	20-300mm/0.8-12"	±0.08mm	20	48	60	17	410
1525-500WL	10-500mm/0.4-20"	20-500mm/0.8-20"	±0.09mm	20	50	60	24	690

DATA  
OUTPUT

**DIGITAL OFFSET CENTERLINE CALIPERS**


1192-150A



- Non waterproof
- Measure hole center distance in the same or offset planes
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

**With data interface**

Code	Range	Accuracy	c	ØD	L1	L2	L	Data output cable (optional)
1192-150A	10-150mm/0.4-6"	±0.05mm	16mm	10mm	46mm	79mm	236mm	7315-25 (receiver is needed) page 5, 7214-25 page 11, 7302-21 page 20
1192-200A	10-200mm/0.4-8"	±0.07mm	16mm	10mm	46mm	79mm	286mm	
1192-300A	10-300mm/0.4-12"	±0.09mm	16mm	10mm	46mm	79mm	396mm	
1192-500A	20-500mm/0.8-20"	±0.09mm	24mm	20mm	70mm	110mm	683mm	7315-22 (receiver is needed) page 5, 7214-22 page 11, 7302-22 page 20
1192-1000A	30-1000mm/1.2-40"	±0.12mm	31mm	30mm	75mm	120mm	1255mm	
1192-1500A	30-1500mm/1.2-60"	±0.15mm	31mm	30mm	75mm	120mm	1760mm	

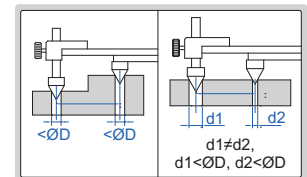
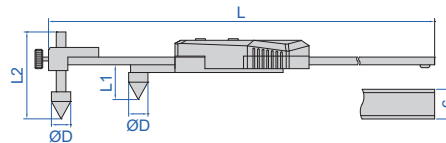
**Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)**

Code	Range	Accuracy	c	ØD	L1	L2	L
1192-150AWL	10-150mm/0.4-6"	±0.05mm	16mm	10mm	46mm	79mm	236mm
1192-200AWL	10-200mm/0.4-8"	±0.07mm	16mm	10mm	46mm	79mm	286mm
1192-300AWL	10-300mm/0.4-12"	±0.09mm	16mm	10mm	46mm	79mm	396mm
1192-500AWL	20-500mm/0.8-20"	±0.09mm	24mm	20mm	52mm	112mm	725mm

 DATA  
OUTPUT

**DIGITAL BACK-JAW CENTERLINE CALIPERS**


1177-200



- Non waterproof
- Measure hole center distance in the same or offset planes
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

**With data interface**

Code	Range	Accuracy	ØD	c	L1	L2	L	Data output cable (optional)
1177-200	10-200mm/0.4-8"	±0.10mm	10mm	16mm	18mm	45mm	310mm	7315-25 (receiver is needed) page 5, 7214-25 page 11, 7302-21 page 20
1177-300	10-300mm/0.4-12"	±0.10mm	10mm	16mm	18mm	45mm	410mm	
1177-500	20-500mm/0.8-20"	±0.10mm	20mm	24mm	26mm	70mm	692mm	7315-22 (receiver is needed) page 5, 7214-22 page 11, 7302-22 page 20
1177-1000	30-1000mm/1.2-40"	±0.12mm	30mm	31mm	39mm	70mm	1242mm	
1177-1500	30-1500mm/1.2-60"	±0.15mm	30mm	31mm	39mm	70mm	1745mm	

**Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)**

Code	Range	Accuracy	ØD	c	L1	L2	L
1177-200WL	10-200mm/0.4-8"	±0.10mm	10mm	16mm	18mm	45mm	310mm
1177-300WL	10-300mm/0.4-12"	±0.10mm	10mm	16mm	18mm	45mm	410mm
1177-500WL	20-500mm/0.8-20"	±0.10mm	20mm	24mm	26mm	70mm	692mm

back-jaw



## DIGITAL BACK-JAW EDGE TO CENTER CALIPERS

DATA  
OUTPUT

2

- Non waterproof
- Measure edge to hole center distance
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



1524-200

back-jaw



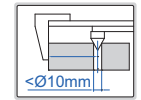
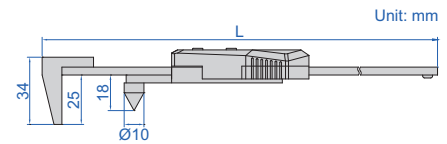
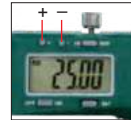
With data interface (optional data output cable:  
code 7315-25 receiver is needed page 5,  
7214-25 page 11, 7302-21 page 20)

Code	Range	Accuracy	L
1524-200	5-200mm/0.2-8"	±0.1mm	310mm
1524-300	5-300mm/0.2-12"	±0.1mm	410mm

Built-in wireless  
(receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy	L
1524-200WL	5-200mm/0.2-8"	±0.1mm	310mm
1524-300WL	5-300mm/0.2-12"	±0.1mm	410mm

preset buttons



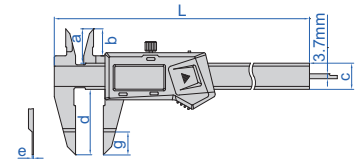
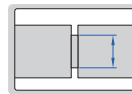
## DIGITAL BLADE CALIPERS

DATA  
OUTPUT



1188-150A

- Non waterproof
- The blade jaws fit into small grooves
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



With data interface (optional data output cable: code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20)

Code	Range	Accuracy	L	a	b	c	d	e	g
1188-150A	0-150mm/0-6"	±0.03mm	235mm	21mm	16.5mm	16mm	40mm	0.85mm	17mm
1188-200A	0-200mm/0-8"	±0.03mm	297mm	24mm	20mm	16mm	50mm	0.85mm	17mm
1188-300A	0-300mm/0-12"	±0.04mm	390mm	26mm	21.5mm	16mm	60mm	1.00mm	17mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy	L	a	b	c	d	e	g
1188-150AWL	0-150mm/0-6"	±0.03mm	235mm	21mm	16.5mm	16mm	40mm	0.85mm	17mm
1188-200AWL	0-200mm/0-8"	±0.03mm	297mm	24mm	20mm	16mm	50mm	0.85mm	17mm
1188-300AWL	0-300mm/0-12"	±0.04mm	390mm	26mm	21.5mm	16mm	60mm	1.00mm	17mm

DATA  
OUTPUT

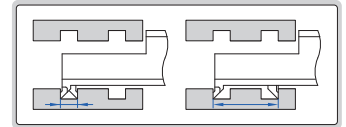
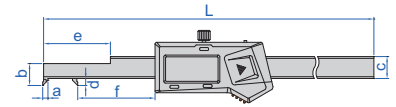
## DIGITAL HOOK CALIPERS

2



1122-300

- Non waterproof
- Measure width and distance of grooves inside bores
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



With data interface (optional data output cable: code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20)

Code	Range	Accuracy	L	a	b	c	d	e	f
1122-150	3-150mm/0.12-6"	±0.03mm	260mm	3mm	12mm	12.5mm	4mm	24mm	27mm
1122-200	3-200mm/0.12-8"	±0.03mm	310mm	3mm	12mm	12.5mm	4mm	24mm	27mm
1122-300	4-300mm/0.16-12"	±0.04mm	466mm	4mm	14mm	15mm	5mm	86mm	89mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy	L	a	b	c	d	e	f
1122-150WL	3-150mm/0.12-6"	±0.03mm	260mm	3mm	12mm	12.5mm	4mm	24mm	27mm
1122-200WL	3-200mm/0.12-8"	±0.03mm	310mm	3mm	12mm	12.5mm	4mm	24mm	27mm
1122-300WL	4-300mm/0.16-12"	±0.04mm	466mm	4mm	14mm	15mm	5mm	86mm	89mm

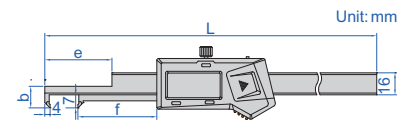
DATA  
OUTPUT

## DIGITAL EXTERNAL HOOK CALIPERS



1164-200

- Non waterproof
- Measure width and distance of grooves inside bores
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

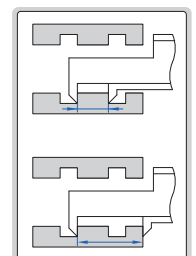


With data interface (optional data output cable: code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20)

Code	Range	Accuracy	L	b	e	f
1164-150	0-150mm/0-6"	±0.03mm	275mm	14mm	52mm	50mm
1164-200	0-200mm/0-8"	±0.03mm	325mm	14mm	52mm	50mm
1164-300	0-300mm/0-12"	±0.04mm	460mm	15mm	82mm	80mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy	L	b	e	f
1164-150WL	0-150mm/0-6"	±0.03mm	275mm	14mm	52mm	50mm
1164-200WL	0-200mm/0-8"	±0.03mm	325mm	14mm	52mm	50mm
1164-300WL	0-300mm/0-12"	±0.04mm	460mm	15mm	82mm	80mm



## DIGITAL V SHAPE CALIPER

DIRECT READING,  
CALCULATION IS NOT REQUIRED

DATA  
OUTPUT

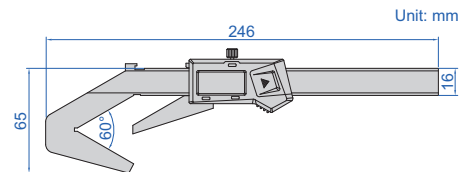
2



1539-3

- Non waterproof
- Measure outside diameter of three number of flutes (such as taps, reamers, end mills and gears)
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Battery CR2032
- Automatic power off, move the digital unit to turn on power
- Data output
- Made of stainless steel
- Optional accessory:  
wireless transmitter code **7315-25** (receiver is needed) page 5,  
bluetooth transmitter code **7214-25** page 11,  
data output cable code **7302-21** page 20

Code	Range	Accuracy
1539-3	Ø4-Ø40mm/0.16"-1.58" DIA	±0.03mm



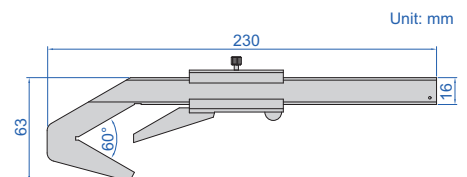
## V SHAPE VERNIER CALIPER



1273-403

- Measure outside diameter of three number of flutes (such as taps, reamers, end mills and gears)
- Made of stainless steel
- Satin chrome plated reading surface

Code	Range	Graduation	Accuracy
1273-403	Ø4-40mm	0.05mm	±0.05mm





DIRECT READING,  
CALCULATION IS NOT REQUIRED

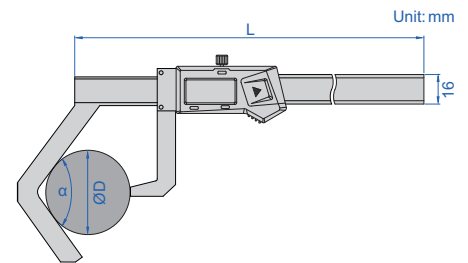
DATA  
OUTPUT

## DIGITAL V TYPE CALIPERS



1529-5

- Non waterproof
- Measure the outside diameter of odd number of flutes (such as taps, reamers, end mills and gears)
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Battery CR2032
- Automatic power off, move the digital unit to turn on power
- Data output
- Made of stainless steel
- Optional accessory: Ø50mm calibration cylinder (code **6316-50**), wireless transmitter code **7315-25** (receiver is needed) page 5, bluetooth transmitter code **7214-25** page 11, data output cable code **7302-21** page 20



Ø50mm calibration cylinder  
(code **6316-50**, optional)



Code	Range (ØD)	Flutes	Accuracy	Angle $\alpha$	L
1529-3	Ø50-Ø200mm/2-8" DIA	3	±0.06mm	60°	390mm
1529-5	Ø50-Ø200mm/2-8" DIA	5	±0.06mm	108°	318mm
1529-19	Ø50-Ø200mm/2-8" DIA	19	±0.06mm	85°15'47"	336mm
1529-23	Ø50-Ø200mm/2-8" DIA	23	±0.06mm	70°26'5"	362mm
1529-31	Ø50-Ø200mm/2-8" DIA	31	±0.06mm	75°29'2"	355mm

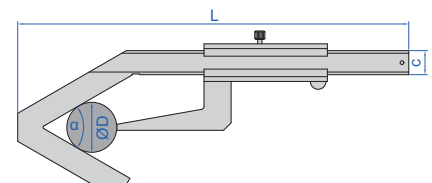
## V SHAPE VERNIER CALIPERS

- Measure outside diameter of odd number of flutes (such as taps, reamers, end mills and gears)
- Made of stainless steel
- Satin chrome plated reading surface
- Optional accessory: 4mm pin gauge (code **4110-4D00**), Ø50mm calibration cylinder (code **6316-50**)



1229-3

Code	Range (ØD)	Graduation	Accuracy	Flutes	Angle $\alpha$	L	c
1229-3	Ø4-60mm	0.02mm	±0.04mm	3	60°	260mm	16mm
1229-35	Ø50-200mm	0.02mm	±0.06mm	3	60°	516mm	20mm
1229-5	Ø4-60mm	0.02mm	±0.04mm	5	108°	210mm	16mm
1229-55	Ø50-200mm	0.02mm	±0.06mm	5	108°	360mm	20mm



## DIGITAL CALIPERS WITH ONE DIRECTION UPPER JAWS

DATA  
OUTPUT

2

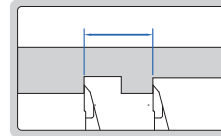
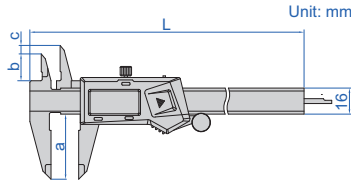


1184-200

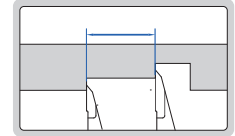


1184-150A

- Non waterproof
- Resolution: 0.01mm/0.0005"
- Buttons: zero, power on/off, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory:  
wireless transmitter code **7315-25** (receiver is needed) page 5,  
bluetooth transmitter code **7214-25** page 11,  
data output cable code **7302-21** page 20



jaws with same height  
used for measuring the  
distance in same level



jaws with different height  
used for measuring the  
distance in different level

Jaws with same height		(mm)				
Code	Range	Accuracy	L	a	b	c
1184-150	0-150mm/0-6"	±0.03mm	236	40	17	0
1184-200	0-200mm/0-8"	±0.03mm	286	50	20	0
1184-300	0-300mm/0-12"	±0.03mm	400	60	22	0

Jaws with different height		(mm)				
Code	Range	Accuracy	L	a	b	c
1184-150A	0-150mm/0-6"	±0.03mm	236	40	17	5
1184-200A	0-200mm/0-8"	±0.03mm	286	50	20	8
1184-300A	0-300mm/0-12"	±0.03mm	400	60	22	10

## DIGITAL OFFSET CALIPERS

DATA  
OUTPUT



1186-150A

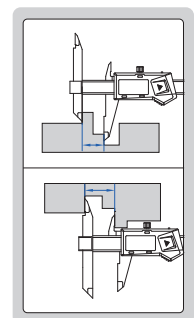
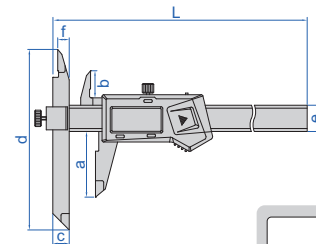
- Non waterproof
- The left jaw can slide up and down to facilitate measurement of stepped sections
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

With data interface (optional data output cable:  
code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20) (mm)

Code	Range	Accuracy	L	a	b	c	d	e	f
1186-150A	0-150mm/0-6"	±0.04mm	249	40	16.5	10	110	17	7
1186-200A	0-200mm/0-8"	±0.04mm	299	50	19.5	10	120	17	7
1186-300A	0-300mm/0-12"	±0.05mm	399	60	20.5	10	130	17	7

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed) (mm)

Code	Range	Accuracy	L	a	b	c	d	e	f
1186-150AWL	0-150mm/0-6"	±0.04mm	249	40	16.5	10	110	17	7
1186-200AWL	0-200mm/0-8"	±0.04mm	299	50	19.5	10	120	17	7
1186-300AWL	0-300mm/0-12"	±0.05mm	399	60	20.5	10	130	17	7



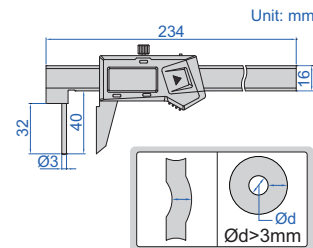
**DATA OUTPUT**

**DIGITAL TUBE THICKNESS CALIPERS**

- Non waterproof
- Measure wall thickness of tubes
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



1161-150A



With data interface (optional data output cable: code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20)

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

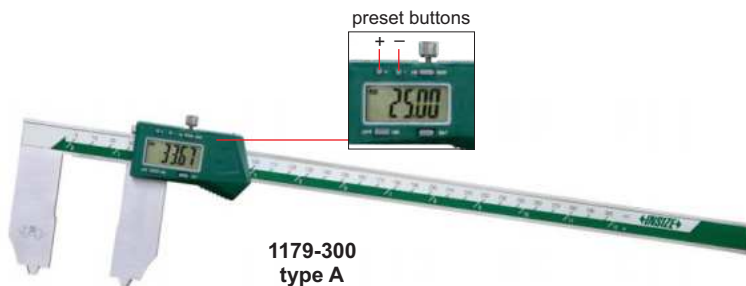
Code	Range	Accuracy
1161-150A	0-150mm/0-6"	±0.05mm

Code	Range	Accuracy
1161-150AWL	0-150mm/0-6"	±0.05mm

**DATA OUTPUT**

**DIGITAL RTJ RING GROOVE CALIPERS**

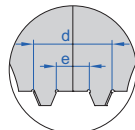
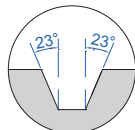
- Non waterproof
- Angle of RTJ ring groove: 23°
- Measure ring grooves of flange
- Resolution: 0.01mm/0.0005"
- Button function: on/off, set, zero, mm/inch, data preset
- Battery CR2032
- Made of stainless steel



1179-300 type A

applicable for RTJ ring grooves with angle 23°

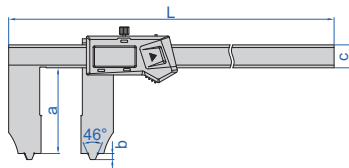
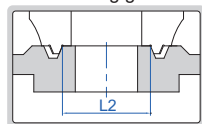
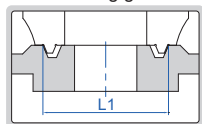
d and e need to be added on the reading



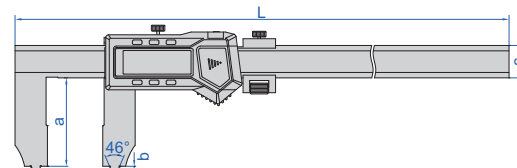
1179-600 type B

measure outside diameter of RTJ ring groove

measure inside diameter of RTJ ring groove



type A



type B

With data interface

(mm)

Code	Range (inside diameter of RTJ ring groove)	Range (outside diameter of RTJ ring groove)	Accuracy	Type	L	a	b	c	d	e	Data output cable (optional)
1179-300	10-300mm/0.4-12"	25-300mm/1-12"	±0.06mm	A	410	63.5	4.5	17	25	10	7315-25 (receiver is needed) page 5, 7214-25 page 11, 7302-21 page 20
1179-600	10-600mm/0.4-24"	25-600mm/1-24"	±0.07mm	B	770	65.5	4.5	24	25	10	7315-22 (receiver is needed) page 5, 7214-22 page 11, 7302-22 page 20
1179-1000	15-1000mm/0.6-40"	30-1000mm/1.2-40"	±0.09mm	B	1220	90	5	31	30	15	

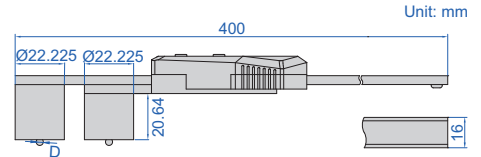
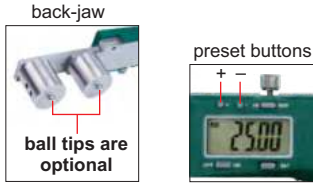
Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

(mm)

Code	Range (inside diameter of RTJ ring groove)	Range (outside diameter of RTJ ring groove)	Accuracy	Type	L	a	b	c	d	e
1179-300WL	10-300mm/0.4-12"	25-300mm/1-12"	±0.06mm	A	410	63.5	4.5	17	25	10
1179-600WL	10-600mm/0.4-24"	25-600mm/1-24"	±0.07mm	B	770	65.5	4.5	24	25	10

## DIGITAL CALIPERS WITH INTERCHANGEABLE BALL TIPS

DATA OUTPUT



1527-3001

- Non waterproof
- Resolution 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Optional accessory: ball tips

With data interface (optional data output cable: code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20)

Code	Range	Accuracy
1527-3001	(22.22+D)~300mm*	±0.03mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy
1527-3001WL	(22.22+D)~300mm*	±0.03mm

\*"D" is the diameter of ball tips.

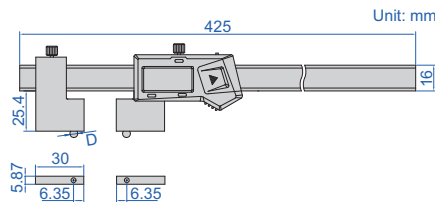
### Ball tips (optional, supplied in pair)



Code	Diameter (D)	Accuracy of diameter	Type	Material
1527-T101	1/16" (Ø1.5875mm)	±0.005mm	A	ruby
1527-T102	1/8" (Ø3.175mm)	±0.005mm	B	stainless steel
1527-T103	3/16" (Ø4.7625mm)	±0.005mm	B	stainless steel
1527-T104	1/4" (Ø6.35mm)	±0.005mm	B	stainless steel
1527-T105	3/8" (Ø9.525mm)	±0.005mm	B	stainless steel
1527-T106	1/2" (Ø12.7mm)	±0.005mm	B	stainless steel

## DIGITAL CALIPERS WITH INTERCHANGEABLE BALL TIPS

DATA OUTPUT



ball tips are optional 1528-3001



- Non waterproof
- Resolution 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Optional accessory: ball tips

With data interface (optional data output cable: code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20)

Code	Range	Accuracy
1528-3001	(12.7+D)~300mm*	±0.03mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy
1528-3001WL	(12.7+D)~300mm*	±0.03mm

\*"D" is the diameter of ball tips.

### Ball tips (optional, supplied in pair)



Code	Diameter (D)	Accuracy of diameter	Type	Material
1527-T101	1/16" (Ø1.5875mm)	±0.005mm	A	ruby
1527-T102	1/8" (Ø3.175mm)	±0.005mm	B	stainless steel
1527-T103	3/16" (Ø4.7625mm)	±0.005mm	B	stainless steel
1527-T104	1/4" (Ø6.35mm)	±0.005mm	B	stainless steel
1527-T105	3/8" (Ø9.525mm)	±0.005mm	B	stainless steel
1527-T106	1/2" (Ø12.7mm)	±0.005mm	B	stainless steel

RELATIVE PRODUCT: CRIMP HEIGHT MICROMETER (CODE 3266-25BA, 3566-25BA)

DATA OUTPUT

## DIGITAL CRIMP HEIGHT CALIPERS

2

- Non waterproof
- Measure crimp height
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032, meet DIN862
- Made of stainless steel

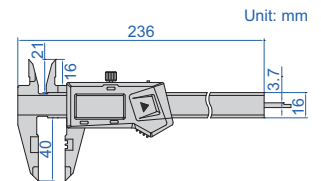
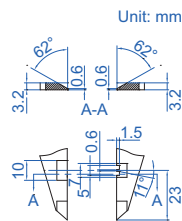


1165-150A



With data interface (optional data output cable: code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20)

Code	Range	Accuracy
1165-150A	0-150mm/0-6"	±0.03mm



Built-in wireless

(receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy
1165-150AWL	0-150mm/0-6"	±0.03mm

DATA OUTPUT

## DIGITAL CALIPERS WITH LARGE MEASURING FACES

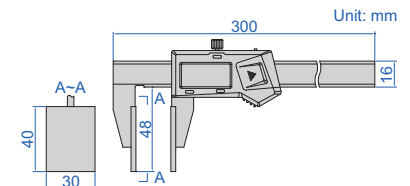


1172-200

- Non waterproof
- Measure diameter of wire ropes, and thickness of soft materials like rubber, sponge, etc.
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

With data interface (optional data output cable: code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20)

Code	Range	Accuracy
1172-200	0-200mm/0-8"	±0.07mm

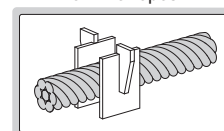


Built-in wireless

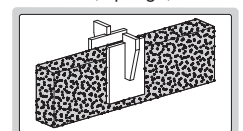
(receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy
1172-200WL	0-200mm/0-8"	±0.07mm

measure diameter of wire ropes



measure thickness of rubber, sponge, etc.



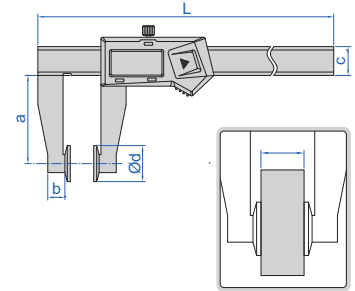
## DIGITAL CALIPERS WITH DISK FACES

DATA OUTPUT

- Non waterproof
- Measure thickness of soft sheets
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



1533-150



With data interface

(mm)

Code	Range	Accuracy	L	a	b	c	Ød	Data output cable (optional)
1533-150	0-150mm/0-6"	±0.04mm	245	50	11	16	20	7315-25 (receiver is needed) page 5, 7214-25 page 11, 7302-21 page 20
1533-200	0-200mm/0-8"	±0.05mm	310	80	11	16	30	
1533-500	0-500mm/0-20"	±0.07mm	680	150	12.5	24	50	7315-22 (receiver is needed) page 5, 7214-22 page 11, 7302-22 page 20

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

(mm)

Code	Range	Accuracy	L	a	b	c	Ød
1533-150WL	0-150mm/0-6"	±0.04mm	245	50	11	16	20
1533-200WL	0-200mm/0-8"	±0.05mm	310	80	11	16	30
1533-500WL	0-500mm/0-20"	±0.07mm	680	150	12.5	24	50

## DIGITAL WALL THICKNESS CALIPERS

DATA OUTPUT



1536-300

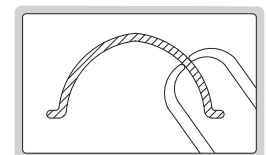
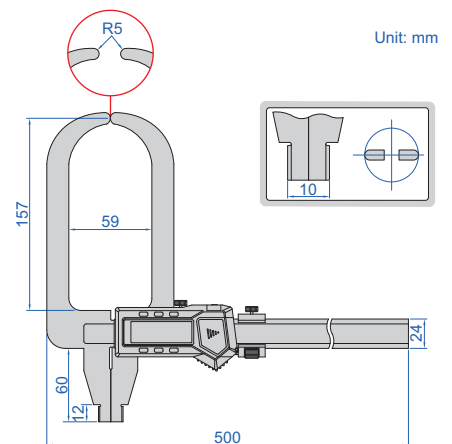
- Non waterproof
- Measure wall thickness of helmets, domes and curved pots
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch, ABS, data preset
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

With data interface (optional data output cable: code 7315-22 receiver is needed page 5, 7214-22 page 11, 7302-22 page 20)

Code	Range	Accuracy
1536-300	0-300mm/0-12"	±0.05mm

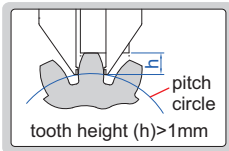
Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy
1536-300WL	0-300mm/0-12"	±0.05mm

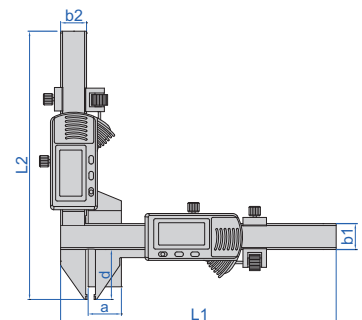


## DIGITAL GEAR TOOTH CALIPERS

ATTENTION:  
NO DATA OUTPUT



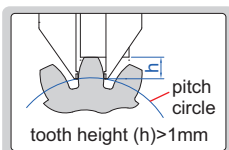
1181-M25A



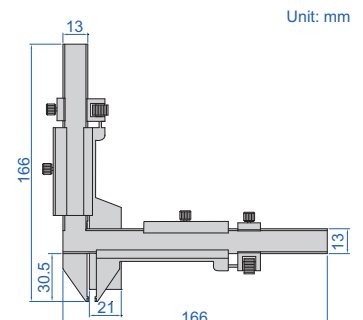
- Non waterproof
- Resolution: 0.01mm/0.0005"
- Carbide tips
- Measure the tooth thickness by positioning the tooth height (for tooth height > 1mm)
- Buttons: zero, on/off, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

Code	Range	Accuracy of height measurement	Accuracy of thickness measurement	Total accuracy	L1	L2	a	b1	b2	d
1181-M25A	M1-25mm	±0.03mm	±0.03mm	±0.04mm	170mm	165.5mm	21mm	16mm	16mm	30.5mm
1181-M50A	M5-50mm	±0.03mm	±0.03mm	±0.04mm	220mm	190mm	50.5mm	16mm	16mm	55mm

## GEAR TOOTH VERNIER CALIPER



1281-M26A



- Carbide tips
- Measure the tooth thickness by positioning the tooth height (for tooth height > 1mm)
- Made of stainless steel
- Satin chrome plated reading surface

Code	Range	Graduation	Accuracy of height measurement	Accuracy of thickness measurement	Total accuracy
1281-M26A	M1-26mm	0.02mm	±0.03mm	±0.03mm	±0.04mm

## DIGITAL DISK BRAKE CALIPERS

RELATIVE PRODUCT: DISK BRAKE  
MICROMETER (CODE 3288-, 3588-)

DATA  
OUTPUT

2

- Non waterproof
- Measure thickness of disk brakes
- Resolution 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



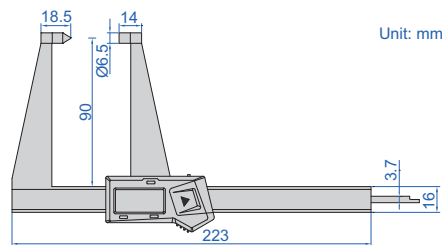
1162-125A

With data interface (optional data output cable:  
code 7315-25 receiver is needed page 5,  
7214-25 page 11, 7302-21 page 20)

Code	Range	Accuracy
1162-125A	0-125mm/0-5"	±0.05mm

Built-in wireless  
(receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy
1162-125AWL	0-125mm/0-5"	±0.05mm



## DIGITAL DISK BRAKE AND PAD CALIPERS

RELATIVE PRODUCT: DISK BRAKE  
MICROMETER (CODE 3288-, 3588-)

DATA  
OUTPUT

- Non waterproof
- Measure thickness of disk brakes and pad wear
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



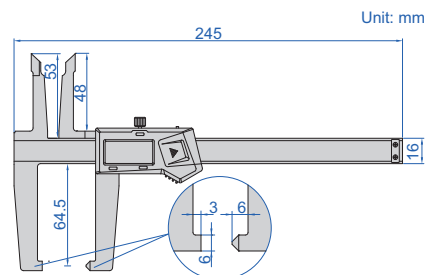
1167-150A

With data interface (optional data output cable:  
code 7315-25 receiver is needed page 5,  
7214-25 page 11, 7302-21 page 20)

Code	Range	Accuracy
1167-150A	0-150mm/0-6"	±0.07mm

Built-in wireless  
(receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy
1167-150AWL	0-150mm/0-6"	±0.07mm





RELATIVE PRODUCT: DISK BRAKE MICROMETER (CODE 3288-, 3588-)

DATA OUTPUT

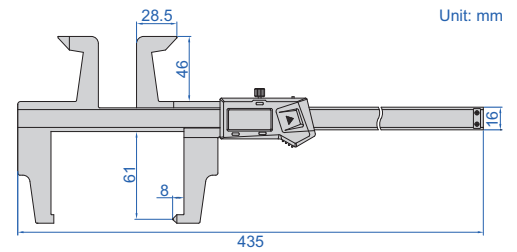
## DIGITAL DRUM BRAKE CALIPERS

2



1168-300A

- Non waterproof
- Measure internal and external diameter of drum brakes
- Resolution 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



With data interface (optional data output cable: code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20)

Code	Range	Accuracy
1168-300A	0-300mm/0-12"	±0.07mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy
1168-300AWL	0-300mm/0-12"	±0.07mm



DATA OUTPUT

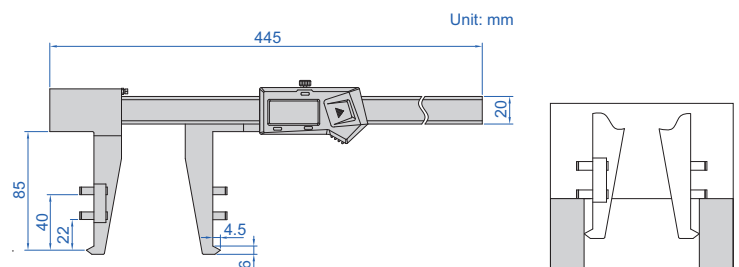
## DIGITAL DRUM BRAKE CALIPER

calibration block (included)



1538-300

- Non waterproof
- Measure internal diameter of drum brakes
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: wireless transmitter code 7315-22 (receiver is needed) page 5, bluetooth transmitter code 7214-22 page 11, data output cable code 7302-22 page 20



Code	Range	Accuracy
1538-300	30-300mm/1.2-12"	±0.05mm

## DIGITAL ARC RADIUS CALIPERS

REFER TO PAGE 238  
FOR DETAILS



1189-200B

## DIGITAL SCRIBING CALIPERS

REFER TO PAGE 479  
FOR DETAILS



1166-150A

## KEYWAY SYMMETRY DIGITAL CALIPERS

REFER TO PAGE 241  
FOR DETAILS



1531-60



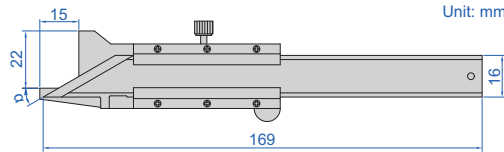
1531-200

## CHAMFER GAUGES



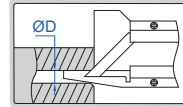
1267-6

- Measure 30°/45°/60° chamfer dimension
- Graduation: 0.02mm
- Made of stainless steel
- Satin chrome plated reading surface

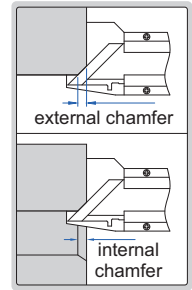


Code	Range	Accuracy	Chamfer ( $\alpha$ )	$\varnothing D$
1267-6	0-10mm	$\pm 0.06\text{mm}$	45°	7mm
1267-63	0-10mm	$\pm 0.06\text{mm}$	30°	8mm
1267-66	0-10mm	$\pm 0.06\text{mm}$	60°	7mm

for internal chamfer measurement, diameter should be larger than  $\varnothing D$



measure chamfer dimension



9

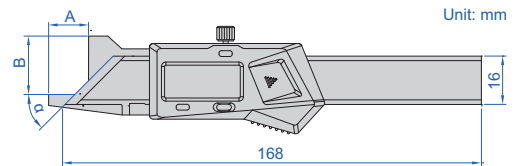
## DIGITAL CHAMFER GAUGES

DATA OUTPUT

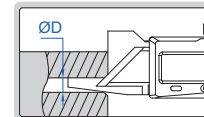


1180-6

- Non waterproof
- Measure 15°/20°/30°/45°/60° chamfer dimension
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel



for internal chamfer measurement, diameter should be larger than  $\varnothing D$

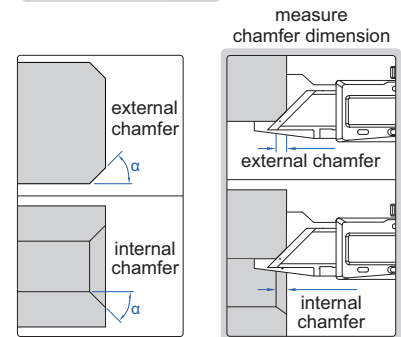


With data interface (optional data output cable: code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20)

Code	Range	Accuracy	Chamfer ( $\alpha$ )	A	B	$\varnothing D$
1180-6	0-10mm/0-0.39"	$\pm 0.06\text{mm}$	45°	15mm	22mm	7mm
1180-61	0-10mm/0-0.39"	$\pm 0.06\text{mm}$	15°	33mm	20mm	11mm
1180-62	0-10mm/0-0.39"	$\pm 0.06\text{mm}$	20°	33mm	20mm	11mm
1180-63	0-10mm/0-0.39"	$\pm 0.06\text{mm}$	30°	15mm	22mm	8mm
1180-66	0-10mm/0-0.39"	$\pm 0.06\text{mm}$	60°	14mm	21mm	7mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy	Chamfer ( $\alpha$ )	A	B	$\varnothing D$
1180-6WL	0-10mm/0-0.39"	$\pm 0.06\text{mm}$	45°	15mm	22mm	7mm
1180-61WL	0-10mm/0-0.39"	$\pm 0.06\text{mm}$	15°	33mm	20mm	11mm
1180-62WL	0-10mm/0-0.39"	$\pm 0.06\text{mm}$	20°	33mm	20mm	11mm
1180-63WL	0-10mm/0-0.39"	$\pm 0.06\text{mm}$	30°	15mm	22mm	8mm
1180-66WL	0-10mm/0-0.39"	$\pm 0.06\text{mm}$	60°	14mm	21mm	7mm

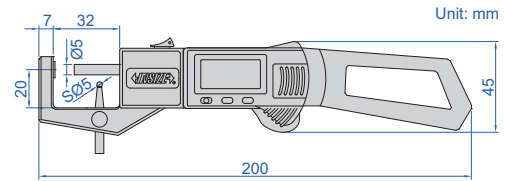


## DIGITAL SNAP GAUGE

ATTENTION: NO DATA OUTPUT

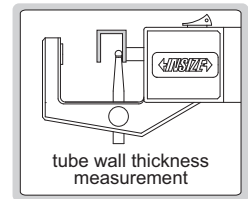
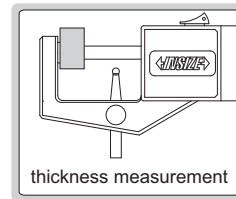


2163-25



- Resolution: 0.01mm/0.0005"
- Accuracy:  $\pm 0.04$ mm
- For thickness and tube wall thickness measurement

Code	Thickness range	Tube wall thickness range
2163-25	0-25mm/0-1"	0-2mm/0.08"

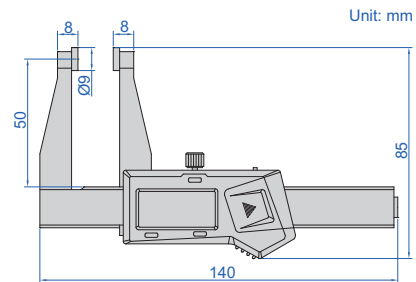


## DIGITAL SNAP GAUGES

DATA OUTPUT



1163-50A



With data interface (optional data output cable: code 7315-25 receiver is needed page 5, 7214-25 page 11, 7302-21 page 20)

Code	Range	Resolution	Accuracy
1163-50A	0-50mm/0-2"	0.01mm/0.0005"	$\pm 0.03$ mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Resolution	Accuracy
1163-50AWL	0-50mm/0-2"	0.01mm/0.0005"	$\pm 0.03$ mm

- Non waterproof
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

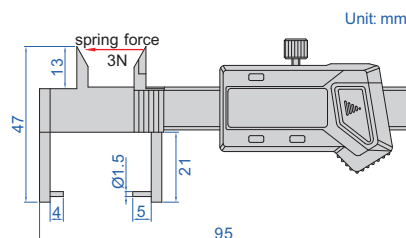
## DIGITAL 3-PURPOSE SNAP GAUGE

ATTENTION: NO DATA OUTPUT

SUITABLE FOR JEWELLERY

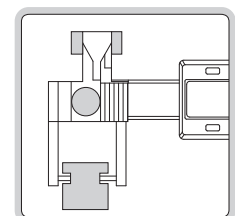


2164-25A



Code	Range	Resolution	Accuracy
2164-25A	0-25mm/0-1"	0.01mm/0.0005"	$\pm 0.03$ mm

- Non waterproof
- Buttons: zero, mm/inch, on/off
- Battery LR44
- Made of stainless steel



DATA  
OUTPUT

## STEP AND GAP GAUGES



2168-12

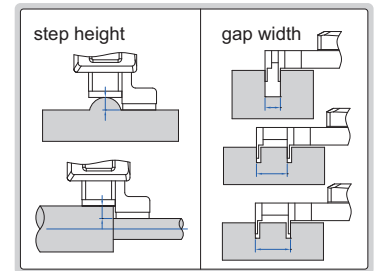
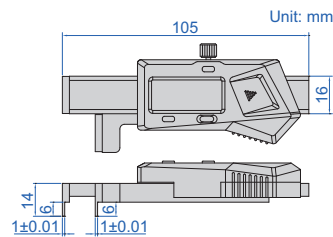
- Non waterproof
- Measure step height and gap width
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Supplied with zero setting block

zero setting block  
(included)



With data interface (optional data output cable:  
code 7315-25 receiver is needed page 5,  
7214-25 page 11, 7302-21 page 20)

Code	Range	Accuracy
2168-12	0-12.7mm/0-0.5"	±0.03mm

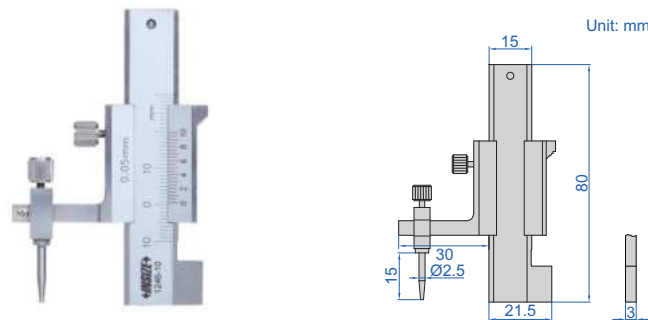


Built-in wireless  
(receiver code 7315-2/3/6/7/8/9 is needed)

Code	Range	Accuracy
2168-12WL	0-12.7mm/0-0.5"	±0.03mm

11

## MINI VERNIER HEIGHT GAUGE

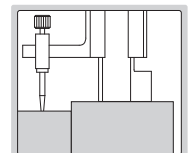


1246-10

- Measure height difference of two surfaces
- Graduation: 0.05mm
- Made of stainless steel
- Satin chrome plated reading surface

Code	Range	Accuracy
1246-10	0~±10mm	±0.05mm

application



REFER TO PAGE 77  
FOR DETAILS

## DIGITAL CALIPERS WITH INTERCHANGEABLE BALL TIPS



1527-3001



1528-3001

REFER TO PAGE 76  
FOR DETAILS

## DIGITAL RTJ RING GROOVE CALIPERS



1179-300



1179-600

REFER TO PAGE 403  
FOR DETAILS

## THREAD GAUGES FOR ROTARY SHOULDERED CONNECTIONS OF PETROLEUM EQUIPMENT



4177-23

REFER TO PAGE  
404-405 FOR DETAILS

## CASING, TUBING AND LINE PIPE THREAD GAUGES OF PETROLEUM AND GAS EQUIPMENT



4178-21T

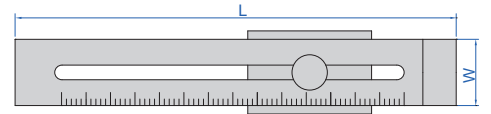
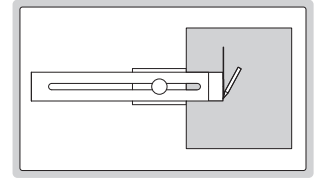
## MARKING GAUGES



7120-200A

- Made of carbon steel
- Stainless steel chrome plated

Code	Range	Graduation	Accuracy	L	W
7120-200A	0-200mm	0.1mm	±0.1mm	250mm	40mm
7120-250A	0-250mm	0.1mm	±0.1mm	300mm	40mm
7120-300A	0-300mm	0.1mm	±0.1mm	350mm	40mm



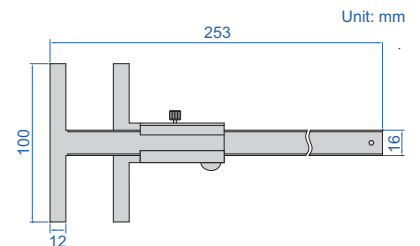
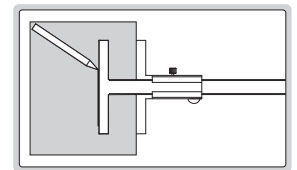
## T-SHAPE MARKING GAUGE



1275-150B

- Made of stainless steel
- Satin chrome plated reading surface

Code	Range	Graduation	Accuracy
1275-150B	0-150mm	0.02mm	±0.04mm



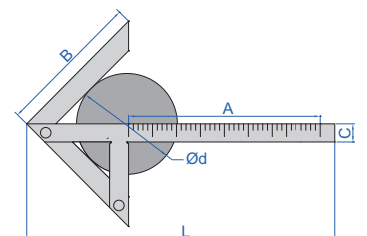
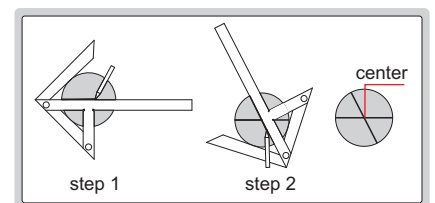
## CENTER MARKING GAUGES



7205-100

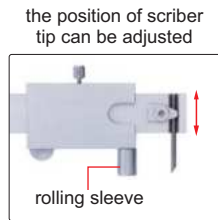
- Marking the center of round plates and shafts
- Made of stainless steel
- Satin chrome plated

Code	Size (AxB)	Diameter of shafts (Ød)	Accuracy	C	L
7205-100	100x70mm	4-90mm	±0.15mm	12mm	153mm
7205-150	150x130mm	4-190mm	±0.15mm	15mm	245mm
7205-200	200x150mm	6-220mm	±0.15mm	15mm	310mm
7205-300	300x180mm	6-270mm	±0.15mm	20mm	435mm



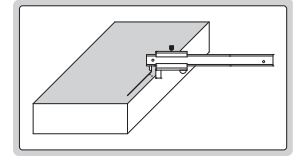
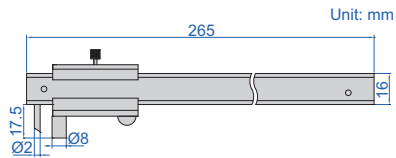
## SCRIBING CALIPER

- Made of stainless steel
- Satin chrome plated reading surface
- Carbide scriber tip
- Optional accessory: carbide scriber tip (code **SP-SCRIBER-7202**)



7202-200A

Code	Range	Graduation	Accuracy
7202-200A	0-200mm/0-8"	0.1mm, 1/128"	±0.1mm



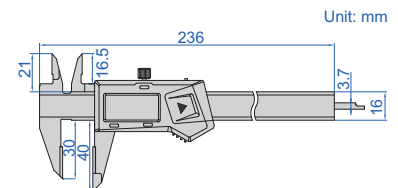
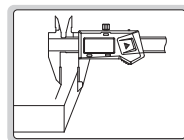
## DIGITAL SCRIBING CALIPER

- Non waterproof
- The carbide-tipped jaws facilitate scribing on workpieces
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



1166-150A

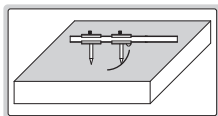
Code	Range	Accuracy
1166-150A	0-150mm/0-6"	±0.03mm



15

## SCRIBING CALIPER

- Made of stainless steel
- Satin chrome plated reading surface
- Hardened scriber tips



7203-300A

Code	Range	Graduation	Accuracy
7203-300A	51-300mm	0.1mm	±0.1mm

