

Large Diameter Gages Page 207



Outside Diameter Variation Measuring Instruments Page 208



Outside Diameter Measuring Instruments Page 209



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Digital Arc Radius Calipers Page 212



Digital Radius Calipers Page 213



Radius Gages Page 213



LARGE DIAMETER GAGE **CODE ISQ-RA600**

♦/NS/ZE→ PLU5 MADE IN EUROPE





- To measure large external or internal diameters
- Automatic judgment and display external or internal diameter Backlight LCD display, can rotate 180° for easy reading Memory of 12 readings and average calculation

- With minimum and maximum measurement mode
- Angle can be displayed



software flash disk (included)





external diameter measurement



internal diameter measurement

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pentite	Mare	report rotes	
Terror State	20.10		
Accessing (No.)	1098 108455/2014		
TO C	#1523		
FOUND MEASURES -	none y	- MR4 (47)	
676.8244	1	EMAKER	
722.28 int	9	VEXT AVERAGE:	
757.95 int	20	2 MINURET:	615.89
955.45 on	ш	H MAZINT:	767.96
1	12	# PHT AVERAGE	107/99

software (included), data output, save and print

SPECIFICATION

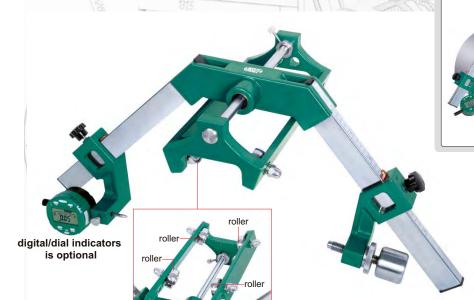
ooo		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Range		Ø500~6000mm/19.69~236.22"	
		Ø1100~6000mm/43.31~236.22"	
Resolut	ion	0.01mm/0.001"	
Accuracy ±(0.01+D²/30)mm (D is the diameter to be measured, in meter)			
Power supply rechargeable battery (for 8 hours working)		rechargeable battery (for 8 hours working)	
Weight		3.8kg	

STANDARD DELIVERY

O IT LITED THE DELIVERY		
Main unit	1 pc	
AC/DC adapter	1 pc	
Software and USB cable	1 pc	

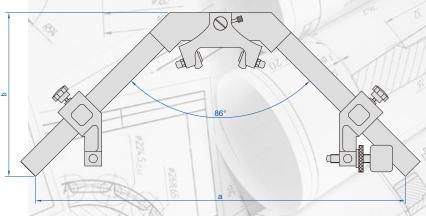
Accuracy sample by diameters

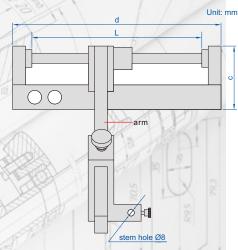
Diameter	Accuracy
500mm	±0.018mm
1000mm	±0.043mm
1500mm	±0.085mm
2000mm	±0.143mm
2500mm	±0.218mm
3000mm	±0.310mm
4000mm	±0.543mm
5000mm	±0.843mm
6000mm	±1.210mm





2715-350





- Measurement of diameter variation, convexity, concavity, taper and other parameters
- Continuous measurement in the axis direction
- Four rollers are included
- Optional accessory: 0.01mm or 0.001mm graduation digital/dial indicators

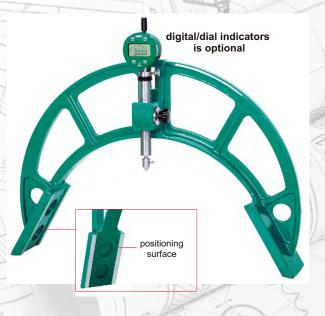
Code	Range (diameter)	Accuracy	Repeatability	Arm moving range (L)	а	b	С	d	Weight
2715-350	100-350mm/4-14"	0.01mm	3µm	200mm	500	230	80	260	4kg
2715-500	200-500mm/8-20"	0.01mm	3µm	151mm	630	260	95	260	5kg
2715-700	300-700mm/12-28"	0.01mm	3µm	197mm	910	372	112	320	6.5kg
2715-1000	500-1000mm/20-40"	0.01mm	3µm	190mm	1170	460	120	320	8kg
2715-1600	800-1600mm/32-64"	0.02mm	6µm	202mm	1860	690	180	320	12.5kg
2715-2000	1400-2000mm/56-80"	0.02mm	6µm	232mm	2156	860	210	350	18.5kg

208

https://precishop.hu



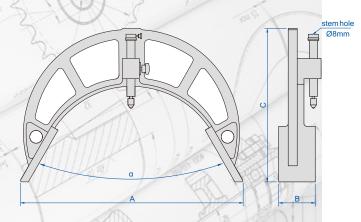
OUTSIDE DIAMETER MEASURING INSTRUMENTS



2716-500

- Need standard workpieces to set zero
- The frame is made of aluminum magnesium alloy with light weight and high strength

 Optional accessory: 0.01mm or 0.001mm
- digital/dial indicators



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Code	Range (diameter)	Repeatability	α	Α	В	С	Weight
2716-60	18-60	0.01mm	60°	140	60	160	1kg
2716-120	60-120	0.01mm	60°	166	65	162	1.5kg
2716-200	120-200	0.01mm	60°	225	70	228	2kg
2716-300	200-300	0.01mm	60°	330	80	262	2.5kg
2716-400	300-400	0.01mm	60°	405	80	303	4kg
2716-500	400-500	0.01mm	60°	494	80	340	5kg
2716-600	500-600	0.01mm	60°	594	80	398	6kg
2716-700	600-700	0.01mm	60°	685	80	446	7.5kg
2716-800	700-800	0.01mm	60°	772	80	479	9kg
2716-900	800-900	0.01mm	60°	860	80	520	10kg
2716-1000	900-1000	0.01mm	60°	950	80	560	11.5kg
2716-1100	1000-1100	0.01mm	60°	1035	90	575	13kg
2716-1200	1000-1200	0.01mm	83.62°	960	100	460	12kg
2716-1300	1100-1300	0.01mm	83.62°	1000	100	485	13.5kg
2716-1400	1200-1400	0.01mm	83.62°	1100	100	512	15kg
2716-1600	1400-1600	0.01mm	83.62°	1260	100	540	17kg
2716-1800	1600-1800	0.01mm	83.62°	1460	100	570	19kg
2716-2000	1800-2000	0.01mm	83.62°	1645	100	605	21kg







2188-55





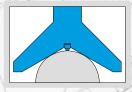


2188-143

2188-323

- Measure radius of external arc, arc angle of measured surface should be larger than 60°
- Display radius value, no need to calculate
 Button function: on/off, zero, data preset, inch/mm
 Keep preset data in memory after restart
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Stainless steel base
- Optional accessory: setting standards, data output cable (code 7315-50M need receiver page 5, **7302-40M** page 13)





		Offic. Hilli
8	1 05	8
	120°	
0	0	

Code	Range (radius)	Resolution	Accuracy	Α	В
2188-55	4-53mm/0.16-2.09"	0.01mm/0.0005"	±0.02mm	40mm	65mm
2188-143	48-143mm/1.89-5.63"	0.01mm/0.0005"	±0.03mm	65mm	165mm
2188-233	138-233mm/5.43-9.17"	0.01mm/0.0005"	±0.03mm	85mm	255mm
2188-323	228-323mm/8.98-12.72"	0.01mm/0.0005"	±0.04mm	95mm	345mm

Setting standards

Code	Setting standards	Remark
4110-10D00	setting standard for 2188-55	included
2188-P143	setting standard for 2188-143	optional
2188-P233	setting standard for 2188-233	optional
2188-P323	setting standard for 2188-323	optional

2188-P143

setting standard application

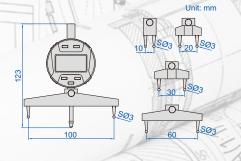




DIGITAL RADIUS GAGE (LOW ACCURACY)



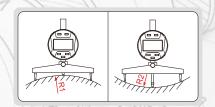


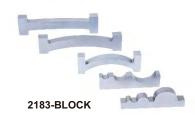




- Resolution: 0.01mm/0.001"
- Buttons: on/off, hold, mm/inch, s (select jaws), zero Measure radius of internal or external arcs Display can be rotated by 320°

- Supplied with 5 jaws for different sizes of arc
- Data output
- Battery CR2032
- Automatic power off (time is adjustable)
- Optional accessory: calibration standard (code 2183-BLOCK), data output cable (code 7315-2183 need receiver, 7302-2183)





Calibration	standard	(optional)
Calibration	standard	(optional)

Code	Remark
2183-BLOCK	includes 5 standard blocks

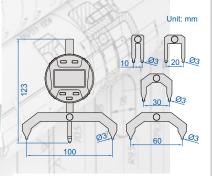
Code Range of external radius (R1) Range of internal radius (R2) 2183 5-910mm/0.2-35.83"

Accuracy (mm) 7-910mm/0.3-35.83" ±0.01R*

R is the radius to be measured. For example, radius is 100mm, the accuracy is ±0.01x100=±1mm



DIGITAL RADIUS GAGE



- Resolution: 0.01mm/0.001"
- Buttons: on/off, hold, mm/inch, s (select jaws), zero
- Measure radius of internal or external arcs
- Cylindrical measuring jaws, self-positioning
- Display can be rotated by 320°
- Supplied with 5 jaws for different sizes of arc
- Data output
- Battery CR2032
- Automatic power off (time is adjustable)
- Optional accessory: calibration standard (code 2183-BLOCK), data output cable (code 7315-2183 need receiver, 7302-2183)





Code	Range of external radius (R1)	Range of internal radius (R2)	Accuracy (mm)
2511	5-910mm/0.2-35.83"	7-910mm/0.3-35.83"	±0.005R*

^{*}R is the radius to be measured. For example, radius is 100mm, the accuracy is ±0.005x100=±0.5mm



Calibration standard (optional)

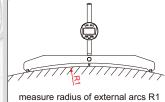
Code	Remark
2183-BLOCK	includes 5 standard blocks

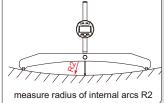


2197



- Measure radius of internal or external arcs
- Resolution: 0.01mm/0.001"
- Buttons: on/off, hold, mm/inch, s (select jaws), zero
- Display can be rotated by 320°
- Supplied with 4 jaws for different sizes of arc
- Battery CR2032, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code 7315-2183 need receiver, 7302-2183)





DATA OUTPUT

Code	Range of external radius (R1)	Range of internal radius (R2)	Accuracy (mm)
2197	100-15000mm/4-590"	100-15000mm/4-590"	±0.005R*

*R is the radius to be measured. For example, radius is 100mm, the accuracy is ±0.005x100=±0.5mm



DIGITAL ARC RADIUS CALIPERS

- Non waterproof
- Measure the radius of arc less than half round
- 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



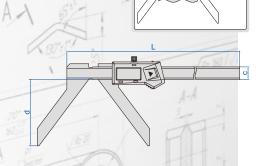
1189-200B

With data interface (data output cable code 7315-21 need receiver page 4, 7302-21 page 12, optional)

Code	Range (R)	Accuracy	L	С	d
1189-150B	5-150mm/0.2-6"	±0.05mm	263mm	16mm	65mm
1189-200B	5-200mm/0.2-8"	±0.07mm	313mm	16mm	85mm

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

Code Range (R)		Accuracy	L	С	d
1189-150BWL	5-150mm/0.2-6"	±0.05mm	263mm	16mm	65mm
1189-200BWL	5-200mm/0.2-8"	±0.07mm	313mm	16mm	85mm





DIRECT READING, CALCULATION IS NOT REQUIRED

DIGITAL RADIUS CALIPERS

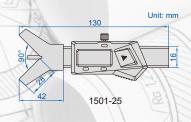


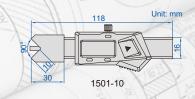


1501-25



1501-10





- Non waterproof
- Measure radius of external arc, arc angle of measured surface should be larger than 90°
- 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

- Supplied with pin gage for zero setting
 Optional accessory: data output cable
 (code 7315-1529 need receiver, 7302-1529)

Code	Range (radius)	Accuracy
1501-25	2-25mm/0.079-1"	±0.05mm
1501-10	2-10mm/0.079-0.394"	±0.05mm

1501-10 can measure small workpieces or workpieces with steps







REFER TO PAGE 416 FOR DETAILS

RADIUS GAGES





4802-31



RADIUS GAGE SET 4804-26



KEYWAY MEASUREMENT

+INSIZE+



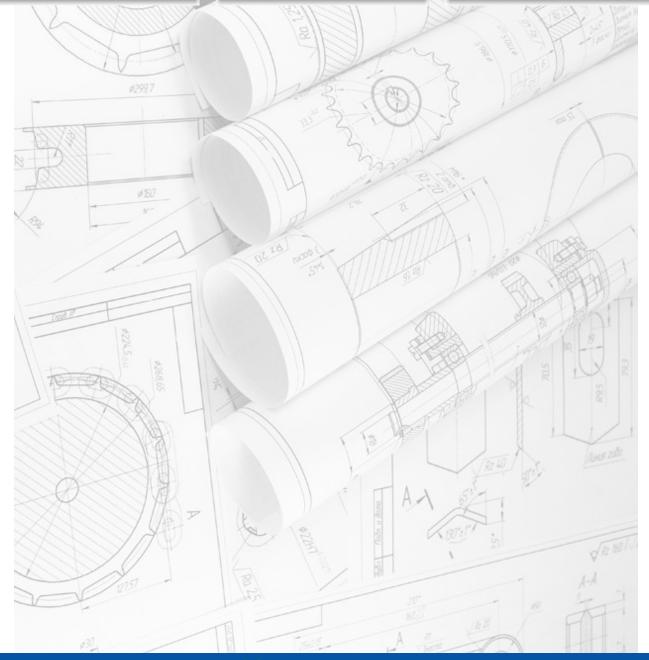
Keyway Symmetry Gages Page 215

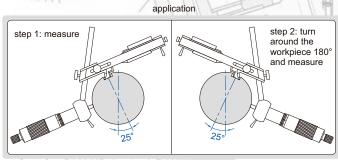


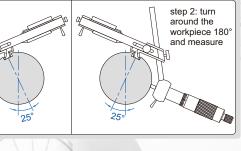
Keyway Symmetry Digital Calipers Page 215



Digital Keyway Depth Gages Page 216







Unit: mm



KEYWAY SYMMETRY GAGE

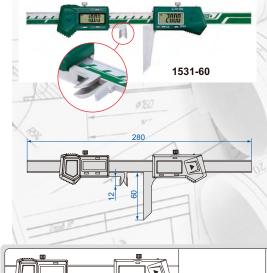


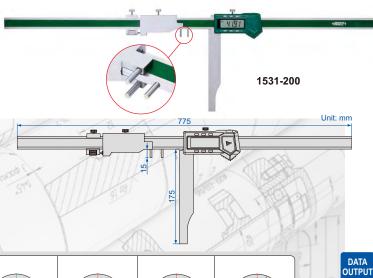
Used to measure the symmetry of shaft keyways

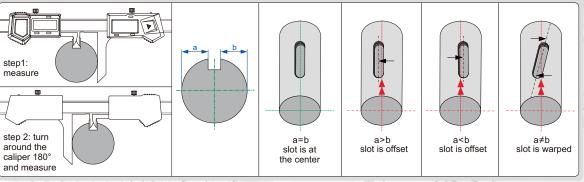
4865-14

7	Code	Range		Graduation	Accuracy	
		diameter of shaft	width of keyway	Graduation	Accuracy	_
1	4865-14	14-110mm	5-28mm	0.01mm	0.02mm	100mm

KEYWAY SYMMETRY DIGITAL CALIPERS







■ Non waterproof

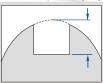
flat tip (carbide measuring face)

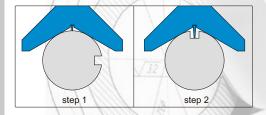
- Used to measure the symmetry of shaft keyways Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
 Made of stainless steel
- Optional accessory: data output cable (code 7315-22 need receiver page 4, 7302-22 page 12)

E.	Code	Width of keyway	Diameter of shaft	Accuracy	Remark
	1531-60	6-45mm	Ø10-120mm	±0.05mm	can measure keyway width
	1531-200	3-250mm	Ø6-350mm	±0.05mm	cannot measure keyway width

DIGITAL KEYWAY DEPTH GAGE

measure depth of keyway



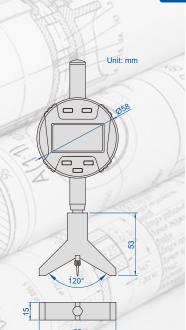


- Measure keyway depth of cylindrical workpieces with diameter Ø10-100mm
- Button function: on/off, zero, inch/metric conversion, absolute/incremental measurement, data preset, measuring direction change
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Stainless steel base
- Pointed tip
- Optional accessory: data output cable (code **7315-50M need receiver** page 5, **7302-40M** page 13)

Resolution Range **2182-25** | 0-25.4mm/0-1" | 0.01mm/0.0005" ±0.02mm



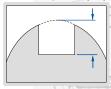


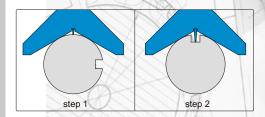


DATA OUTPUT

DIAL KEYWAY DEPTH GAGE

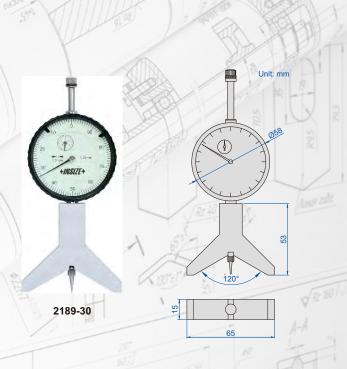
measure depth of keyway





- Measure keyway depth of cylindrical workpieces with diameter Ø10-100mm
- Stainless steel base
- Pointed tip

Code	Range	Graduation	Accuracy
2189-30	0-30mm	0.01mm	±0.03mm





Digital Chamfer Gages Page 218



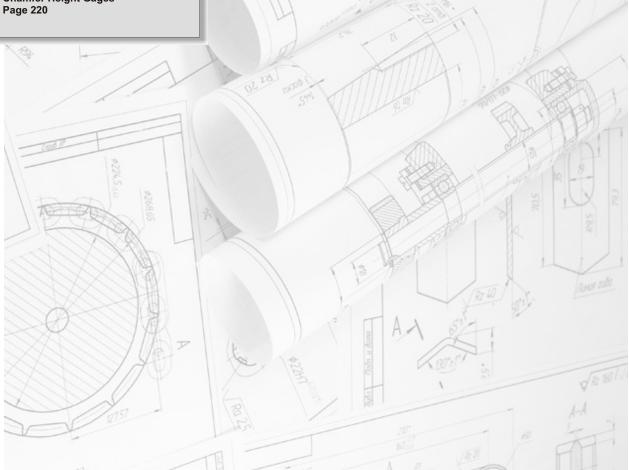
Chamfer Gages Page 219



Digital Chamfer Gages Page 219



Chamfer Height Gages

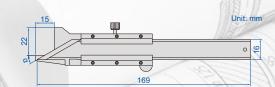


CHAMFER GAGES



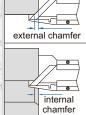
1267-6

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



Code	Range	Accuracy	Chamfer (α)	ØD
1267-6	0-10mm	±0.06mm	45°	7mm
1267-63	0-10mm	±0.06mm	30°	8mm
1267-66	0-10mm	±0.06mm	60°	7mm





DATA OUTPUT

measure

chamfer dimension

DIGITAL CHAMFER GAGES



1180-6

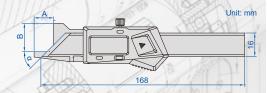
- Non waterproof
- Measure 15°/20°/30°/45°/60° chamfer dimension
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel

With data interface (data output cable code 7315-21 need receiver page 4, 7302-21 page 12, optional)

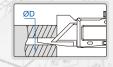
Code	Range	Accuracy	Chamfer (α)	Α	В	ØD
1180-6	0-10mm/0-0.39"	±0.06mm	45°	15mm	22mm	7mm
1180-61	0-10mm/0-0.39"	±0.06mm	15°	33mm	20mm	11mm
1180-62	0-10mm/0-0.39"	±0.06mm	20°	33mm	20mm	11mm
1180-63	0-10mm/0-0.39"	±0.06mm	30°	15mm	22mm	8mm
1180-66	0-10mm/0-0.39"	±0.06mm	60°	14mm	21mm	7mm

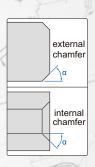
Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

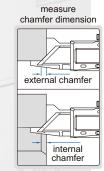
Code	Range	Accuracy	Chamfer (α)	Α	В	ØD
1180-6WL	0-10mm/0-0.39"	±0.06mm	45°	15mm	22mm	7mm
1180-61WL	0-10mm/0-0.39"	±0.06mm	15°	33mm	20mm	11mm
1180-62WL	0-10mm/0-0.39"	±0.06mm	20°	33mm	20mm	11mm
1180-63WL	0-10mm/0-0.39"	±0.06mm	30°	15mm	22mm	8mm
1180-66WL	0-10mm/0-0.39"	±0.06mm	60°	14mm	21mm	7mm

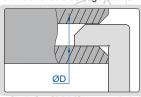


for internal chamfer measurement, diameter should be larger than ØD

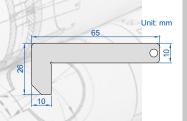










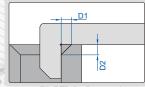


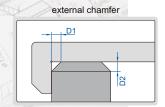
4844-1

- To measure internal and external chamfers
- Made of stainless steel

Code	Graduation	Accuracy	ØD			
4844-1	0.5mm	±0.25mm	11mm			







ATTENTION: CHAMFER OF HOLES CANNOT BE MEASURED



DIRECT READING, CALCULATION IS NOT REQUIRED

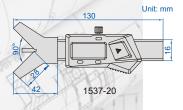
DIGITAL CHAMFER GAGES







1537-20



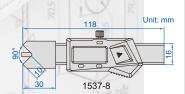


- Measure 45° chamfer length
 Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
 ■ Battery CR2032
- Data output
- Made of stainless steel
- Supplied with pin gage for zero setting
- Optional accessory: data output cable (code 7315-1529 need receiver, 7302-1529)

1/200				
Code	Range	Accuracy		
1537-20	0-20mm/0-0.787"	±0.05mm		
1537-8	0-8mm/0-0.315"	±0.05mm		



1537-8



pin gage (included)

measure 45° chamfer length

1537-8 can measure small workpieces or workpieces with steps

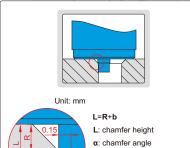


CHAMFER HEIGHT GAGE

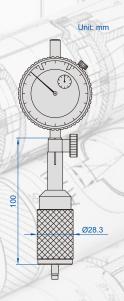
◆INSIZE→ PLUS

MADE IN EUROPE

principle of measurement







2943-1

- Measure outside or inside chamfer height
- Suitable for diameter of bores≥6mm, chamfer angle α≥30°
- Setting gage is included

Range (L) Graduation Accuracy 0.2-5mm 0.01mm ±0.02mm setting gage (included)



DIGITAL CHAMFER HEIGHT GAGE

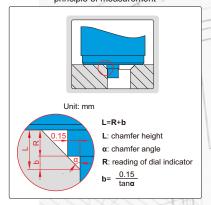
R: reading of dial indicator

b= 0.15

♦/NS/ZE→ PLUS MADE IN EUROPE

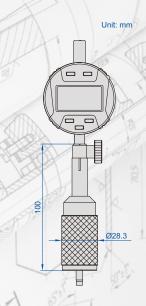
10

principle of measurement



- Measure outside or inside chamfer height
 Suitable for diameter of bores≥6mm,
- chamfer angle α≥30°
- Resolution: 0.01mm/0.0005"
- Setting gage is included
 Optional accessory: data output cable (code 7315-50M need receiver page 5, **7302-40M** page 13)





2944-1

	Code	Range (L)	Accuracy
1	2944-1	0.2-5mm/0.008-0.197"	±0.02mm

setting gage (included)

