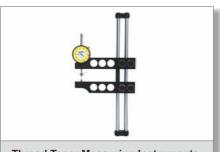
PETROLEUM PIPE THREAD MEASUREMENT



Thread Pitch Measuring Instruments Page 302-303



Thread Taper Measuring Instruments Page 304-306



Thread Height Measuring Instruments Page 307-309



Thread Crest Diameter Measuring Instruments Page 310-313



Groove Diameter Measuring Instruments Page 314



Groove Width Measuring Instruments Page 315



Calipers With Interchangeable Ball Tips Page 316



Page 316

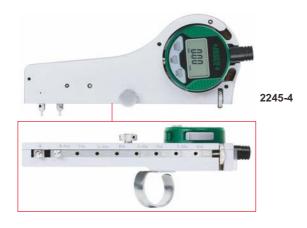


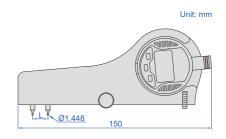
Thread Gages For Petroleum Equipment Page 316



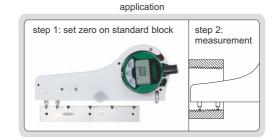
DIGITAL THREAD PITCH MEASURING INSTRUMENT

MEET INTERNATIONAL STANDARD API5B





- Measure the pitch of external thread and internal thread with nominaldiameter larger than 5 1/2" (139.7mm)
- Optional accessory: data output cable (code 7315-50M need receiver page 5 7302-50M page 13), ball points (code 6252 series), standard pitch blocks (code 6251 series)



Code	Range (L)	Digital indicator stroke	Resolution	Accuracy
2245-4	0.5-4"/12.7-101.6mm	0.2"/5mm	0.0005"/0.01mm	0.02mm

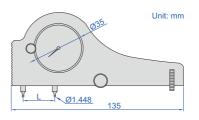
THREAD PITCH MEASURING INSTRUMENTS

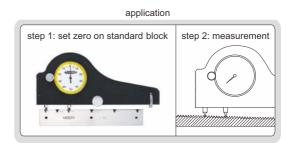




- Measure the pitch of external thread and internal thread with nominal diameter larger than 5 1/2" (139.7mm)

 Optional accessory: ball points (code 6252 series),
- standard pitch blocks (code 6251 series)



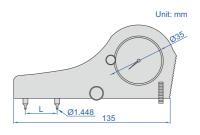


Code	Range (L)	Dial indicator stroke	Dial indicator graduation	Accuracy
2234-4	0.5-4"/12.7-101.6mm	0.5mm	0.01mm	0.02mm
2234-4E	0.5-4"/12.7-101.6mm	0.025"	0.0005"	0.0008"

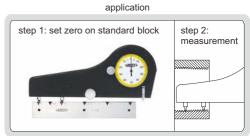


INTERNAL THREAD PITCH MEASURING INSTRUMENTS





Measure the pitch of internal thread with nominal diameter larger than 1 1/2" (38.1mm) and less than 5 1/2" (139.7mm)
 Optional accessory: ball points (code 6252 series), standard pitch blocks (code 6251 series)



Code	Range (L)	Dial indicator stroke	Dial indicator graduation	Accuracy
2235-4	0.5-4"/12.7-101.6mm	0.5mm	0.01mm	0.02mm
2235-4E	0.5-4"/12.7-101.6mm	0.025"	0.0005"	0.0008"

CAN BE CUSTOMIZED ACCORDING TO WORKPIECES

STANDARD PITCH BLOCKS



6251-S8

 Set zero of internal and external pitch measuring instruments (code 2234, 2235, 2245)

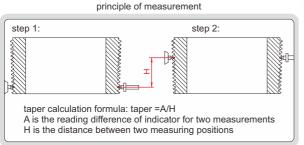
Code	Taper	Threads per inch
6251-S8	1:16	8, 10
6251-S5	1:16	5
6251-S4	1:6	4

					Unit:	mm
	V	V	V	V	V	18
-			115		-	

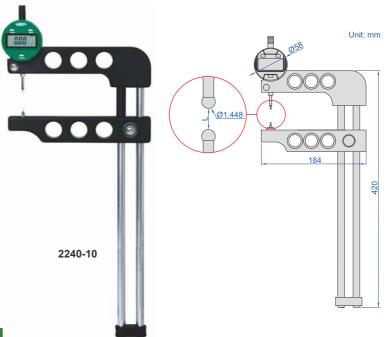
DIGITAL EXTERNAL THREAD TAPER MEASURING INSTRUMENT

MEET INTERNATIONAL STANDARD API5B

- Measure the taper of external thread
- Digital indicator stroke: 10mm/0.4"
- Optional accessory: data output cable (code **7315-50M need receiver** page 5, **7302-40M** page 13), ball points (code **6252** series)

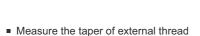


Code	Range (L)	Resolution	Accuracy
2240-10	0-10"/0-254mm	0.0005"/0.01mm	0.03mm



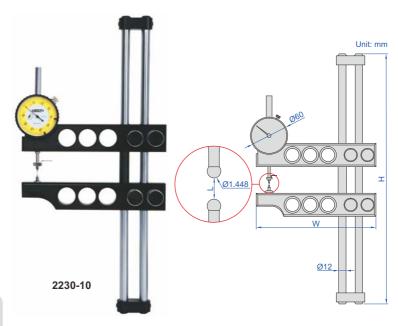
EXTERNAL THREAD TAPER MEASURING INSTRUMENTS

MEET INTERNATIONAL STANDARD API5B



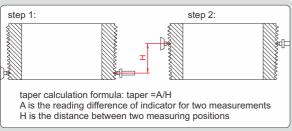
Dial indicator stroke: 0.5"Dial indicator graduation: 0.001"

■ Optional accessory: ball points (code 6252 series)



Code	Range (L)	Accuracy	Н	W
2230-10	0-10"/0-254mm	0.0015"	400mm	200mm
2230-45	1-4 1/2"/25.4-114.3mm	0.0015"	278mm	178mm
2230-16	8-16"/203.2-406.4mm	0.0015"	600mm	260mm
2230-20	8-20"/203.2-508mm	0.0015"	680mm	260mm





MEET INTERNATIONAL STANDARD API5B

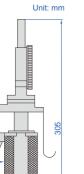
Ø1.448

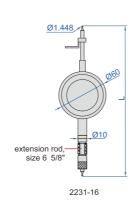
INTERNAL THREAD TAPER MEASURING INSTRUMENTS

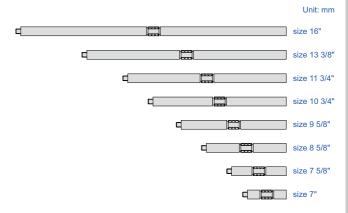




2231-6

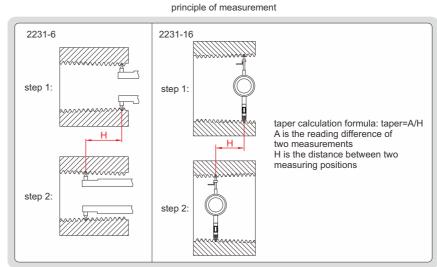






2231-6

Measure the taper of internal thread
 Optional accessory:
 ball points (code 6252 series)



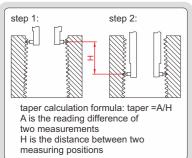
Code	Range (L)	Dial indicator stroke	Dial indicator graduation	Accuracy	Remark
2231-6	1.5-6"/38.1-152.4mm	1"	0.001"	0.0015"	_
2231-16	5 1/2-16"/139.7-406.4mm	0.5"	0.001"	0.0015"	with 9 extension rods



DIGITAL INTERNAL THREAD TAPER MEASURING INSTRUMENT

MEET INTERNATIONAL STANDARD API5B

principle of measurement

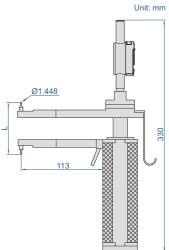




2241-6

- Measure the taper of internal thread
- Digital indicator stroke: 25.4mm/1"
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-40M page 13), ball points (code 6252 series)

7302-40	7302-40M page 13), ball points (code 6252 series)			
Code	Range (L)	Resolution	Accuracy	
2241-6	1.5-6"/38.1-152.4mm	0.0005"/0.01mm	0.04mm	



BALL POINTS

■ Supplied in pair

13

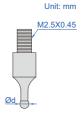
 For taper measuring instruments (code 2230, 2231, 2240, 2241) and pitch measuring instruments (code 2234, 2235, 2245)

Code	Thread type	Threads	Ball dia. (Ød)		
Code	Thread type	per inch	taper	pitch	
6252-B8	round thread, line pipe	8	1.829mm	1.829mm	
6252-B10	round thread, line pipe	10	1.448mm	1.448mm	
6252-B115	line pipe	11.5	1.27mm	1.27mm	
6252-B14	line pipe	14	1.041mm	1.041mm	
6252-B18	line pipe	18	0.813mm	0.813mm	
6252-B27	line pipe	27	0.533mm	0.533mm	
6252-B5	buttress thread	5	2.286mm	_	
6252-B51	buttress thread	5	_	1.575mm	
6252-B52	extreme line thread	5,6	1.524mm	_	
6252-B53	extreme line thread	5	_	2.667mm*	
6252-B6	extreme line thread	6	_	2.210mm*	

^{*0.58}mm off the top of ball



6252-B10

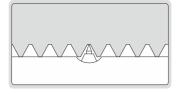


MEET INTERNATIONAL STANDARD API5B

DIGITAL INTERNAL THREAD HEIGHT MEASURING INSTRUMENT

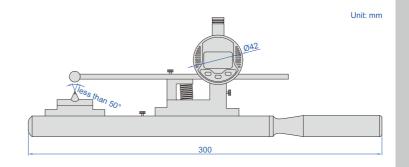






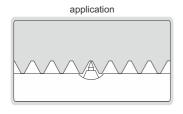
- Measure the height of internal thread with nominal diameter less than 5 1/2" (139.7mm)
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-50M page 13), thread height standard blocks (code 6250)

Code	Range	Resolution	Accuracy
2243-35	0-0.135"/0-3.5mm	0.0005"/0.01mm	0.02mm



MEET INTERNATIONAL STANDARD API5B

INTERNAL THREAD HEIGHT MEASURING INSTRUMENTS

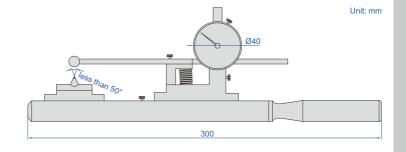




2233-35

- Measure the height of internal thread with nominal diameter less than 5 1/2" (139.7mm)
- Optional accessory: thread height standard blocks (code 6250)

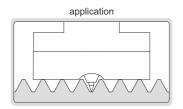
Code	Range	Dial indicator graduation	Accuracy
2233-35	0-3.5mm	0.01mm	0.02mm
2233-35E	0-1/4"	0.0005"	0.0008"





DIGITAL THREAD HEIGHT MEASURING INSTRUMENT

MEET INTERNATIONAL STANDARD API5B

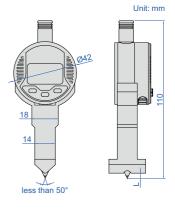


- Measure the height of external thread and internal thread with
- nominal diameter larger than 5 1/2" (139.7mm)

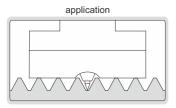
 Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-40M page 13), thread height standard blocks (code 6250)

Code	Range (L)	Resolution	Accuracy
2242-35	0-0 135"/0-3 5mm	0.0005"/0.01mm	0.02mm





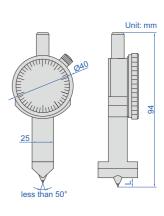
THREAD HEIGHT MEASURING INSTRUMENTS



- Measure the height of external thread and internal thread with nominal diameter larger than 5 1/2" (139.7mm)
- Optional accessory: thread height standard blocks (code 6250)

Code	Range (L)	Dial indicator graduation	Accuracy
2232-35	0-3.5mm	0.01mm	0.02mm
2232-35E	0-1/4"	0.0005"	0.0008"





MEET INTERNATIONAL STANDARD API5B

THREAD HEIGHT STANDARD BLOCKS

Set zero of internal and external thread height measuring instruments (code 2232, 2233, 2242, 2243)

Code	Taper	Number of thread per inch
6250-4	1:4	4
6250-5	1:4	5
6250-8	1:16	8, 10
6250-51	1:16	5

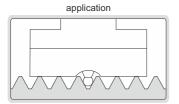


Unit: mm

CAN BE CUSTOMIZED ACCORDING TO WORKPIECES

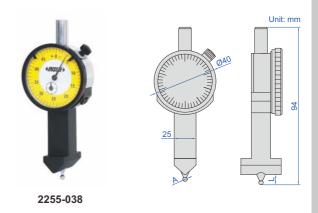


ROTARY SHOULDERED EXTERNAL THREAD CONNECTION HEIGHT MEASURING INSTRUMENTS



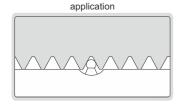
- Measure the height of rotary shouldered external thread connections
- Dial indicator graduation: 0.01mm
- Accuracy: 0.02mm
- Optional accessory: thread height standard blocks (code 6255)

Code	Form of thread to be inspected	Range (L)	Α
2255-038	V-0.038R	0-3.5mm	Ø1.829mm
2255-040	V-0.040	0-3.5mm	Ø0.864mm
2255-050	V-0.050	0-5mm	Ø1.118mm
2255-055	V-0.055	0-3.5mm	Ø1.829mm



MEET INTERNATIONAL STANDARD API 7-2

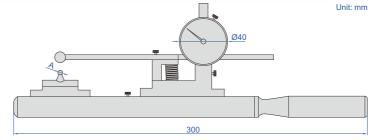
ROTARY SHOULDERED INTERNAL THREAD CONNECTION HEIGHT MEASURING INSTRUMENTS



- Measure the height of rotary shouldered internal thread connections
- Dial indicator graduation: 0.01mm
- Accuracy: 0.02mm
- Optional accessory: thread height standard blocks (code 6255)

Code	Form of thread to be inspected	Banga /I \	
2256-038	V-0.038R	0-3.5mm	Ø1.829mm
2256-040	V-0.040	0-3.5mm	Ø0.864mm
2256-050	V-0.050	0-5mm	Ø1.118mm
2256-055	V-0.055	0-3.5mm	Ø1.829mm





THREAD HEIGHT STANDARD BLOCKS

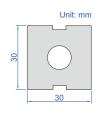
Set zero of internal and external thread height measuring instruments (code 2255, 2256)

Code	Form of thread to be inspected	Taper	Number of thread per inch
6255-038	V-0.038R	1:6 and 1:4	4
6255-040	V-0.040	1:4	5
6255-050	V-0.050	1:6 and 1:4	4
6255-055	V-0.055	1:8	6



6255-038







DIGITAL DEPTH GAGE (60° KNIFE EDGE BASE)

REFER TO PAGE 81 FOR DETAILS

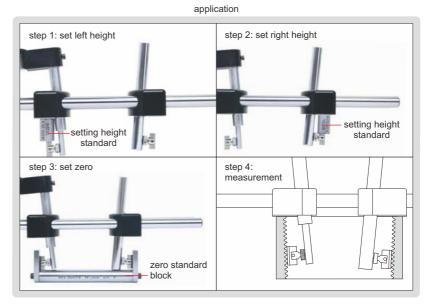


DIGITAL INTERNAL THREAD CREST DIAMETER MEASURING INSTRUMENT





- Measure the crest diameter of internal thread with nominal diameter larger than 2 3/8" (60.325mm) and less than 5 1/2" (139.7mm)
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-40M page 13), height standard and zero standard block (code 2237-G____, 2237-K____)



Code	Range	Digital indicator stroke	Resolution	Accuracy
2247-5	2 3/8-5 1/2"/60.325-139.7mm	0.2"/5mm	0.0005"/0.01mm	0.02mm

13

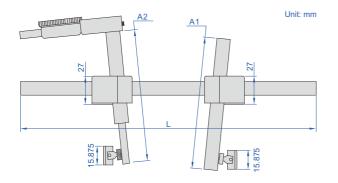


MEET INTERNATIONAL STANDARD API5B

INTERNAL THREAD CREST DIAMETER MEASURING INSTRUMENTS

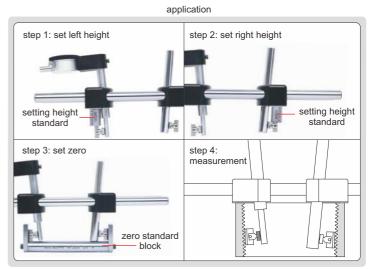


2237-5



- Measure the crest diameter of internal thread with nominal diameter larger than 2 3/8" (60.325mm) and less than 20" (508mm)
- and less than 20" (508mm)

 Optional accessory: height standard and zero standard block



Code	Range	Dial indicator stroke	Dial indicator graduation	Accuracy	L	A 1	A2
2237-5	2 3/8-5 1/2"/60.325-139.7mm	5mm	0.01mm	0.02mm	260mm	112mm	91mm
2237-5E	2 3/8-5 1/2"/60.325-139.7mm	0.25"	0.0005"	0.0008"	260mm	112mm	91mm
2237-20	4 1/2-20"/114.3-508mm	0.50"	0.0005"	0.002"	12", 18" or 24" *	177mm	182mm

^{*}Select suitable length of arm according to workpieces







HEIGHT STANDARD AND ZERO STANDARD BLOCK (optional)

	· · · · · ·
Code	Remark
2237-G □□□ **	including height standard and zero standard block A (without taper)
2237-K □□□ **	including height standard and zero standard block B (with taper)

^{**}Can be customized according to workpieces

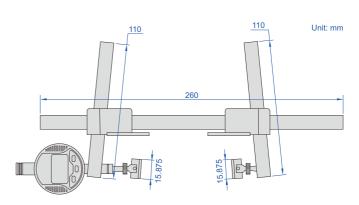


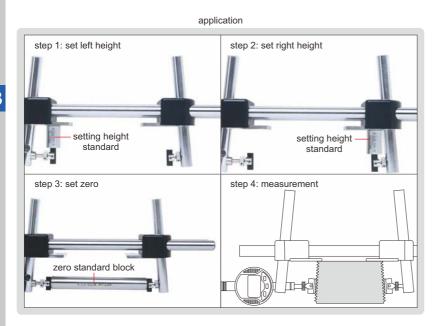
DIGITAL EXTERNAL THREAD CREST DIAMETER MEASURING INSTRUMENT

MEET INTERNATIONAL STANDARD API5B



- Measure the crest diameter of external thread with nominal diameter larger than 2 3/8" (60.325mm) and less than 5 1/2" (139.7mm)
- and less than 5 1/2" (139.7mm)
 Optional accessory: data output cable (code **7315-50M need receiver** page 5, **7302-40M** page 13), height standard and zero standard block (code **2236-G**□□□, **2236-K**□□□)

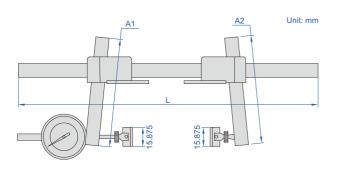


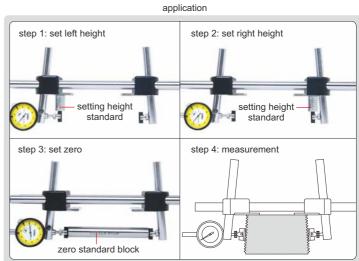


Code	Range	Digital indicator stroke	Resolution	Accuracy
2246-5	2 3/8-5 1/2"/60.325-139.7mm	0.2"/5mm	0.0005"/0.01mm	0.02mm

EXTERNAL THREAD CREST DIAMETER MEASURING INSTRUMENTS







- Measure the crest diameter of external thread with nominal diameter larger than 2 3/8" (60.325mm) and less than 20" (508mm)
- Optional accessory: height standard and zero standard block

Code	Range	Dial indicator stroke	Dial indicator graduation	Accuracy	L	A1	A2
2236-5	2 3/8-5 1/2"/60.325-139.7mm	5mm	0.01mm	0.02mm	260mm	110mm	110mm
2236-5E	2 3/8-5 1/2"/60.325-139.7mm	0.25"	0.0005"	0.0008"	260mm	110mm	110mm
2236-20	2 3/8-20"/60.325-508mm	0.50"	0.0005"	0.002"	12", 18" or 24" *	177mm	160mm

^{*}Select suitable length of arm according to workpieces







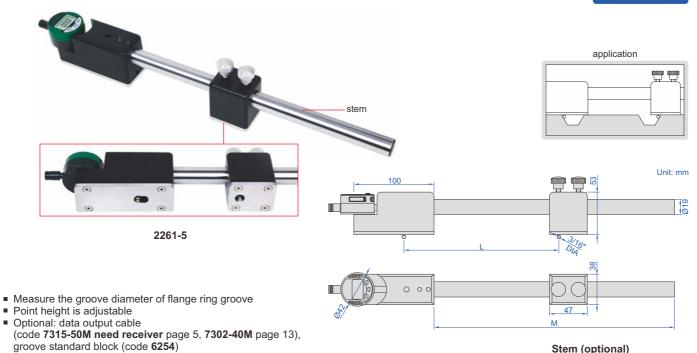
HEIGHT STANDARD AND ZERO STANDARD BLOCK (optional)

	(
Code	Remark
2236-G □□□ **	including height standard and zero standard block A (without taper)
2236-K □□□ **	including height standard and zero standard block B (with taper)

^{**}Can be customized according to workpieces

DIGITAL GROOVE DIAMETER MEASURING INSTRUMENT

POINT DIAMETER CAN BE CUSTOM-MADE

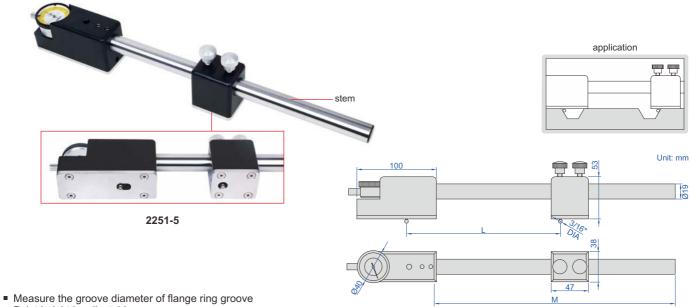


Code Range (L) Movable point stroke Resolution Repeatability **2261-5** 2.6-13"/66-330mm 0.2"/5mm 0.00005"/0.001mm 0.002mm 12"/300mm Stem (optional)

Code	M
2261-M24	24"/600mm
2261-M30	30"/750mm
2261-M36	36"/900mm

GROOVE DIAMETER MEASURING INSTRUMENTS

POINT DIAMETER CAN BE CUSTOM-MADE



■ Point height is adjustable

■ Optional: groove standard block (code 6254)

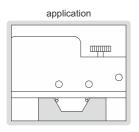
Code	Range (L)	Movable point stroke	Graduation	Repeatability	M
2251-5	2.6-13"/66-330mm	0.2"/5mm	0.01mm	0.005mm	12"/300mm
2251-5E	2.6-13"/66-330mm	0.2"/5mm	0.0005"	0.0002"	12"/300mm

Stem (optional)

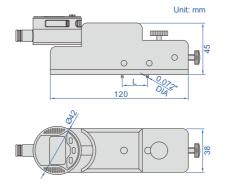
` '		
Code	M	
2261-M24	24"/600mm	
2261-M30	30"/750mm	
2261-M36	36"/900mm	

POINT DIAMETER CAN BE CUSTOM-MADE

DIGITAL GROOVE WIDTH MEASURING INSTRUMENT



- Measure the groove width of flange ring groove
- Point height is adjustable
- Optional: data output cable (code 7315-50M need receiver page 5, 7302-40M page 13), groove standard block (code 6254)



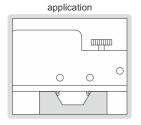


2260-4

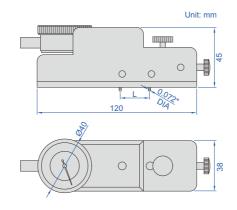
Code	Range (L)	Movable point stroke	Resolution	Repeatability
2260-4	0.55-1.4"/14-35.5mm	0.16"/4mm	0.00005"/0.001mm	0.002mm

POINT DIAMETER CAN BE CUSTOM-MADE

GROOVE WIDTH MEASURING INSTRUMENTS



- Measure the groove width of flange ring groove
- Point height is adjustable
- Optional: groove standard block (code 6254)





2250-4

Code	Range (L)	Movable point stroke	Graduation	Repeatability
2250-4	0.55-1.4"/14-35.5mm	0.16"/4mm	0.01mm	0.005mm
2250-4E	0.55-1.4"/14-35.5mm	0.16"/4mm	0.0005"	0.0002"

CUSTOM-MADE

STANDARD GROOVE BLOCK **CODE 6254**



■ Set zero of groove width and groove diameter measuring instruments (code 2250, 2251, 2260, 2261)

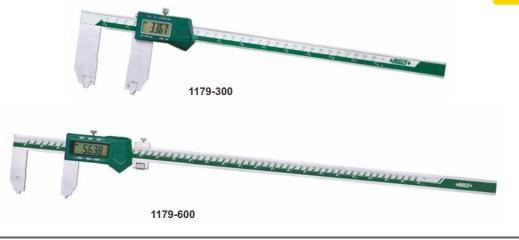


REFER TO PAGE 61 FOR DETAILS



DIGITAL RTJ RING GROOVE CALIPERS

REFER TO PAGE 60 FOR DETAILS



THREAD GAGES FOR ROTARY SHOULDERED CONNECTIONS OF PETROLEUM EQUIPMENT

REFER TO PAGE 372 FOR DETAILS



4177-23

CASING, TUBING AND LINE PIPE THREAD GAGES OF PETROLEUM AND GAS EQUIPMENT





4178-21T