

API 6A Flange Face Groove Caliper API 法兰垫环槽卡尺

Dial/Digital Caliper 表盘/数显卡尺

Economical and Simple ways to check API ring grooves

让6A法兰垫环槽测量变的简单!!



The below surface of the FGC caliper is properly position on flat surface of the groove.

The precision contact points of balls touches the angular portion of the grooves.

利用两个标准的测球接触法兰23度的斜面，以得到一个理想的切点。

The FGC Caliper gives the reading with any setting, if you would obtain the drawing value you can plus some value setting outer circle surface of balls at zero without setting mater.

Or you can set any value or drawing value teaching by the master or MIC.

根据理论值或者校正数值，无论测量密封槽的外口还是内口值，那可以加减一个确定的数值，而不需要设定规或者MIC测长机,垫环槽卡尺可以显示出直观的数值。

Products features:

Dial Caliper:

New designed dial movement for ultra smooth sliding and high shock protection.

Shockproof movement

Zero setting through rotating the dial face and locking screw.

Slide and beam made of hardened stainless steel.

Save time and save money. (It's important)

Digital Caliper

Set, Zero-setting, inch/mm, Data output

Repeatability: <0.02mm

Display: LCD Length standard: ABSOLUTE electrostatic capacitance type linear encoder.

Do not need any setting master. Nice if use.

Size range: 0-300mm (0-12") 0-500mm (0-20")

0-600mm (0-24")

Ball size: 0.188" 0.25"

产品功能：

表盘卡尺：全新的表盘移动设计，可实现平稳的滑行并具有良好的防震保护功能，滑块上有锁紧螺钉，刻度盘支持刻度微调

数显卡尺：可以通过set键任意修正所显示数值，已达到比较测量的效果。

Set, Zero键, mm/inch随意切换

分辨率：0.005"/0.01mm

重复性：<0.02mm

搭配标准件有更好的重复性。

规格：0-300mm (0-12")

0-500mm (0-20")

0-600mm (0-24")

球径：0.188" 0.25"



Setting manual:

Method 1:

Setting value : setting API BX151 groove gauge with caliper, Generally it' s displayed 2.966" ,so we press zero (the zero can be changed any value, now is 2.966"), then we can measure the outer diameters relate to any sizes of API ring grooves, it' s ok. So we have a try, we measure BX154 on the gauge, it' s reading 4.589" .

标定法：用卡尺标定 BX151，以英制尺寸 2.966" 为例，即标定，此刻可以直接量测产品，或者再次量测 BX154 槽（即外口的槽），值为 4.589"，与标准值一致。

Method 2:

Calculation: Generally divided into 2 types

a: Measure the points over ball setting dimensions using with micrometers and gauge blocks.

Move the caliper into the zero, set it 18 mm (middle distance of 2 balls). So you would plus 0.188" (diameter of balls) on the basic of the current value if you measure outer dimensions or inner dimensions of ring groove. Refer to the

b: Measure the outer or inner point according to the drawing.

Move the caliper into the zero, set it 18 mm (middle distance of 2 balls). So you would plus 7.195 mm (the theoretical value from CAD) on the basic of the current value if you measure outer dimensions of ring groove. And you would minus 7.195 mm (the theoretical value from CAD) on the basic of the current value if you measure inner dimensions of ring groove. It' s meet the dimensions outer or inner points of BX sizes.

计算法：分为两种

球规外径值,用千分尺或者量规标定

将中心值标定为 18 mm 时，测量外径直接加上一个球径 0.188"，测量内口时仍然加一个球径 0.188"。符合 BX 尺寸中针对球径最外端尺寸。

实际开口值，以加工图纸标定

将中心值标定为 18 mm 时，测量外径需要加上中心点到外口的理论值 7.195 mm，测量内口时需要减去 7.195 mm。符合 BX 尺寸中针对槽口尺寸。

可选测球/ Optional Accessories

