リーフ式内径測定ヘッド LEAF(PLATE SPRING) TYPE MEASURING HEAD FOR INTERNAL DIAM.



超硬ボール付板バネを用いた接触式の測定ヘッドです。測定面の 幅4mm以下のもの、表面粗さが3.2µmRy (Rmax)を超えるものに 適します。さらに止り穴に適用すると最深部の測定が可能です。

This is indirect type measuring head using plate spring with tungsten carbide ball point. It is applied to measurement of a width of 4mm or less or surfaces with a finish of 3.2µmRy(Rmax) or more. In case of blind hole measurement, more deep point nearest a bottom can be measured.

Jーフ式 Leaf type〉	
D L	120

	通し穴用No.8230 for through hole			止まり穴用No.8232 for blind hole		
φd	L	L ₁	L2	L	L ₁	L2
8 - 13	50	10	40	42	2	40
13 - 20	50	10	60	42	2	60
20 - 50	45	10	60	37	2	60
50 - 80	48	10	65	40	2	65
80 -	(注) (note)					

d<8 製作不可。 d<8 is not available. (注)d>80も製作いたしますが、 この場合、ハンドル形状は φ32×170mmとなります。 d>80 except above table is also

available, but \$32X170mm handle is used in this instance.

ボールコンタクト式内径測定ヘッド BALL CONTACT TYPE MEASURING HEAD FOR INTERNAL DIAM.



リーフ式同様接触式の測定ヘッドです。主にリーフ式での測定が困難な場合に 採用される他、空気の流れにより超硬ボールの測定子が測定面を転がりますの でボールの磨耗が少なく測定ワークのキズ発生が少ない特長があります。

Same as leaf type head, this is also indirect type measuring head using carbide ball point. It is mainly used for measurement in case that it is difficult to measure for leaf type measuring head. A further advantage of this type, two carbide balls floating in air current, which are located opposite each other, can roll over the measuring surfaces, thereby it prevents workpiece from the distortion or scratch.

	通し穴用No.6235 for through hole			止まり穴用No.6237 for blind hole		
φd	L	L ₁	L2	L	L ₁	L2
12 - 13	30	10	40	24	4	40
13 - 20	45	20	60	30	5	60
20 - 50	45	20	60	30	5	60
50 - 80	35	20	50	35	5	65
80 -150 (注)(note)	50	30		45	5	

d<12 製作不可。 d<12 is not available. ヘッドの形状はNo.6002,6012と同形状。 Head form is same as No.6002, 6012. (注)80-150の場合、ハンドル形状は φ32×170mmとなります。

In case of 80-150, \$32 X 170mm handle is used.

スリットノズル式測定ヘッド SLIT NOZZLE TYPE MEASURING HEAD



非接触測定可能範囲を大幅に拡張し、さらに用途が広がります。

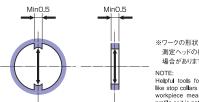
●背圧式の場合最小ワーク測定幅0.5mm ●流量式の場合最小ワーク測定幅0.9mm

Useful measurment stage can be extended by using slit nozzle type measuring head. It expands measurable range of non-contact measuring head for internal, external diam., and etc. Min. measurable width of workpiece

In case of measuring head for back pressure type Air micrometer: 0.5mm In case of measuring head for flow model Air micrometer : 0.5mm

〈スリットノズル式 Slit nozzle type〉

〈ボールコンタクト式 Ball contact type〉



※ワークの形状によりストッパー等 測定ヘッドの補助具を必要とする 場合があります。

Helpful tools for measuring head like stop collars shall be required if workpiece measured has special profile or it is not easy to be fixed.

〈測定例〉

- ●幅の狭い形状の各種寸法の測定
- ●止り穴の底近くの測定
- ●浅い溝の巾の測定
- ●斜歯形状のワークの測定
- ●接触式では不可能だった小径内 径の測定や多点測定
- ●奇数歯を含むセレーションの歯先 円径の測定

⟨Examples of measurement⟩

- ·Measurement for workpiece with narrow space or width.
- ·Measurement for diam. near to bottom of blind hole.
- Measurement for width of shallow slit.
- ·Measurement for workpiece with helical spline.
- ·Measurement for small diam, or multi-places where it is not possible to measure for indirect measuring head.
- ·Measurement for tip circle diam. of serration included odd number of tooth