



两瓣式孔径测量系统

SPLIT-BALL PROBES

精密与可靠的保证 COMPETENCE FOR PRECISION AND SAFETY

大批量机械生产离不开精度的要求。为了达到生产过程中最大的节能降耗，从产品设计到成品完成都离不开精度的要求。

DIATEST 品牌就是品质的代表，我们产品的重复精度可达 $0.001\text{mm}/0.00005^\circ$ ，可以确保最终测量结果的精确。

DIATEST 孔径量仪根据 DIN EN ISO 9001 标准制作而成。通过完美的制作加工工艺，我们的产品达到了世界顶级水平。不论是标准产品，还是根据客户要求特殊定制的产品，都能够满足技术要求。

DIATEST 公司的服务理念是：

给 DIATEST 所有客户提供合理的价格、卓越的品质、专业的建议、交期的保证。这一理念得到了 DIATEST 全球合作伙伴的高度赞赏。

这就是合作对于我们的意义。



质量可靠的保证
Safety through quality

High-volume engineering does not work without precision. To achieve highest possible safety in production, precision is necessary starting from design to final product.

Here the trademark DIATEST stands for quality. Gauges with repeatability to 0.001 mm/0.00005“ guarantee exact results.

DIATEST bore gauges are manufactured according to DIN EN ISO 9001. Using state-of-the-art manufacturing engineering the highest quality standards are achieved. Our products withstand technological demands, no matter whether it is a question of standard products or special solutions made to customer's specifications.

This is the company's philosophy, carried out by an ex-

perienced staff: Highest quality at a fair cost effectiveness, combined with expert advice and absolute faithfulness to deadlines in dealing with all DIATEST customers. For us this is a service taken for granted which our DIATEST partners worldwide appreciate.

This is what partnership means to us.



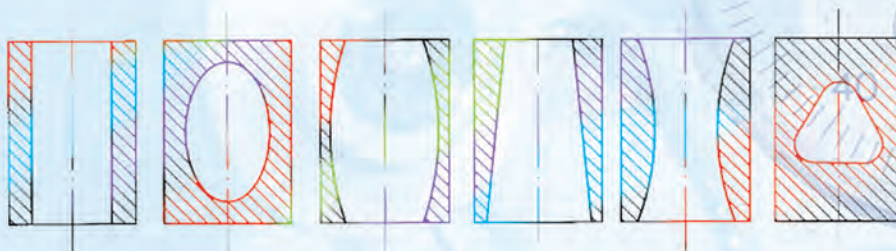
目录 CONTENTS

页码

2 DIATEST – 精密与可靠的保证
5 两瓣式孔径测量系统
6 技术参数
7 设计, 行程传递, 工作原理, 使用范围
8 附件
10 测量台架
12 DIATEST 小孔测量仪, 标准测头, 硬质合金测头, 盲孔测头, 测量孔径 范围 $\varnothing 0.47 \text{ mm} - 41.1 \text{ mm}$
15 DIATEST 实验室孔径量仪, 测量范围 $0.47 \text{ mm} - 30.60 \text{ mm}$
15 技术信息
16 DIATEST 小孔测量仪, 标准测头, 硬质合金测头, 盲孔测头, 测量孔径 范围 $\varnothing 0.0185'' - 1.6200''$
19 DIATEST 实验室孔径量仪, 测量范围 $0.0185'' - 1.13''$
20 DIATEST-T- 系列测头, 测量深孔, $\varnothing 2.05 - 9.80 \text{ mm}$
20 DIATEST-T 系列测头, 测量深孔, $\varnothing 0.081'' - 0.388''$
22 DIATEST-3 点式测头, 测量孔径 $4.75 \text{ mm} - 150.60 \text{ mm}$ 或 $0.187'' - 5.929''$
23 DIATEST-PA 测头, 测量平行尺寸, 测量范围 $4.7 \text{ mm} - 41.1 \text{ mm}$ 或 $0.185'' - 1.618''$

Page

2 DIATEST – Competence for precision and safety
5 Split-ball probes
6 Technical data
7 Design, travel transfer, operating principle, range of application
8 Accessories
10 Checking stands
12 DIATEST small bore gauges, standard, carbide and blind bore for bore hole $\varnothing 0.47 \text{ mm to } 41.1 \text{ mm (mm-version)}$
15 DIATEST laboratory bore gauges, range $0.47 \text{ mm to } 30.60 \text{ mm (mm-version)}$
15 Technical information
16 DIATEST small bore gauges, standard, carbide and blind bore for bore hole $\varnothing 0.0185'' \text{ to } 1.6200'' \text{ (inch-version)}$
19 DIATEST laboratory bore gauges, range $0.0185'' \text{ to } 1.13'' \text{ (inch-version)}$
20 DIATEST-T-probes to measure deeper bores, $\varnothing 2.05 \text{ to } 9.80 \text{ mm (mm-version)}$
20 DIATEST-T-probes and sets to measure deeper bores, $\varnothing 0.081'' \text{ to } 0.388'' \text{ (inch-version)}$
22 DIATEST-3-point-probes for bores from $4.75 \text{ mm to } 150.60 \text{ mm}$ or $0.187'' \text{ to } 5.929'' \text{ (mm- and inch-version)}$
23 DIATEST-PA-probes to measure parallel distances from $4.7 \text{ mm to } 41.1 \text{ mm}$ or $0.185'' \text{ to } 1.618'' \text{ (mm- and inchversion)}$



质量可靠的保证
Safety through quality

两瓣式测量系统 SPLIT-BALL PROBES

两瓣式内径测量系统用于测量内孔直径。采用模块化设计，使用附加附件，量仪可以测量大多数的孔。使用此量仪可以进行连续或分项控制，如大批量的机械生产中进行分组等。

由于量仪有多种不同类型，因此可以测量各种孔，如盲孔、平行距离等。



Split-ball probes are universal bore gauges for indicating internal measurements. The modular design with extensive accessories enables gauging of most common bores. This allows use for serial and individual control as well as preferentially in the plant directly at the production machine. Due to different styles through bores, blind bores, parallel distances, etc. can be gauged.



T-HM



R-



MH-6-73-R

T-FB



T-T-

技术参数

使用范围:

标准测头, 普通碳钢:
 $\varnothing 0.47 - 41.1 \text{ mm}$
 合金测头, 硬质合金测点:
 $\varnothing 1.5 - 41.1 \text{ mm}$
 (用于磨损较大的环境)
 陶瓷测头, 陶瓷测点:
 $\varnothing 3.7 - 41.1 \text{ mm}$
 (用于软材料, 如铝等)
 盲孔测头:
 $\varnothing 1.5 - 41.1 \text{ mm}$
 (测量接近孔的底部)
 三点式测头:
 $\varnothing 4.75 - 150.6 \text{ mm}$
 (测量多边形工件)
 T 系列测头:
 $\varnothing 2.05 - 9.8 \text{ mm}$
 (测量深孔, 孔径小于 8.2 mm)

测量范围:

$0.06 \text{ mm} - 2.2 \text{ mm}$
 (依据测头尺寸)

精度:

重复精度 (标准测头):

手动测量约 $1 \mu\text{m}$
 台架测量 $< 0.5 \mu\text{m}$

线性误差 (标准测头):

尺寸 $0.5 - 1.50$, 最大误差为测量行程的 2%
 尺寸 $1.75 - 40$, 最大误差为测量行程的 1%

使用校对环规校准标定

测量深度:

小于 $\varnothing 4.2 \text{ mm}$ 的孔径, 最大测量深度 750 mm (T 系列测头使用 TV-2/TV-2.5)
 大于 $\varnothing 4.2 - 8.3 \text{ mm}$ 的孔, 最大测量深度 1000 mm (T 系列测头, TV-4)
 大于 $\varnothing 8.3 - 41.1$ 的孔, 测量深度可达几米 (T 系列测头, TV-8)

测点:

标准型式为普通碳钢测点, 还有其他材料的测点, 如硬质合金、陶瓷 (依据尺寸)。对于盲孔、平行距离、沟槽等使用特殊形状测头。特殊形状测头需要询价。

Technical data

Operating range:

Standard split-ball probe in hard chrome:
 $\varnothing 0.47 - 41.1 \text{ mm}$
 Standard split-ball probe with carbide contacts:
 $\varnothing 1.5 - 41.1 \text{ mm}$ (for heavy wear conditions)
 Standard split-ball probe with ceramic contacts:
 $\varnothing 3.7 - 41.1 \text{ mm}$ (for soft materials like aluminium etc.)
 Blind bore split-ball probe:
 $\varnothing 1.5 - 41.1 \text{ mm}$ (for gauging close to bottom of bore)
 3-point split-ball probe:
 $\varnothing 4.75 - 150.6 \text{ mm}$ (gauging of polygon-shaped workpieces)
 T-probes: $\varnothing 2.05 - 9.8 \text{ mm}$ (for gauging deep bores with $\varnothing$ smaller than 8.2 mm)

Measuring range:

0.06 mm up to 2.2 mm
 (according to size of probe)

Accuracies:

Repeatability (standard split-ball probes):

Manual gauging c. $1 \mu\text{m}$,
 Stationary gauging in stand $< 0.5 \mu\text{m}$

Linearity (standard split-ball probes):

Size $0.5 - 1.50$ max. 2% of travel
 Size $1.75 - 40$ max. 1% of travel

Calibration with setting ring

Measuring depth:

Up to $\varnothing 4.2$ max. 750 mm (T-probes with TV-2/TV-2.5)
 $\varnothing > 4.2 - 8.3$ max. 1000 mm (T-probes with TV-4)
 $\varnothing > 8.3 - 41.1$ several metres (standard split-ball probes with TV-8)

Contact points:

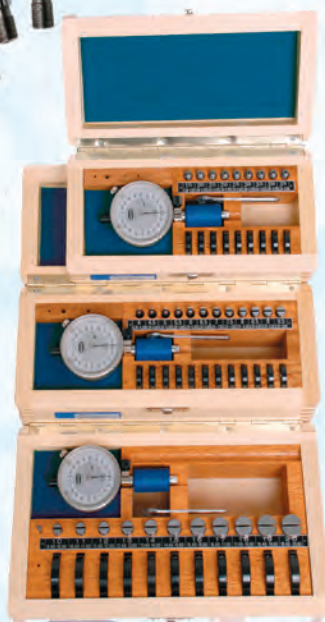
Standard version in hard chrome, different materials like carbide, ceramic (depending on size).
 Special shapes for blind bores, parallel distances (grooves)
 Special shapes on request



T-PA



T-3P



质量可靠的保证
 Safety through quality

设计

一个两瓣式孔径测量仪由 5 部分组成:

测头 (4) 由工具钢制成 - 标准测头镀铬 c.1000HV

测针 (3) 由工具钢或硬质合金钢制成, 研磨出一定锥度。

工具钢测针: 62-64HRC,

硬质合金测针: 约 1600HV

手柄 (2) MH6-51 夹紧部分尺寸 8H6 或 MH-6-51-Z 夹紧部分尺寸 3/8", 可提升指示表测力的手柄 MH6-73-R

显示表 (1) 可使用任何机械或电子显示表、精密比较仪或带显示的电感测头

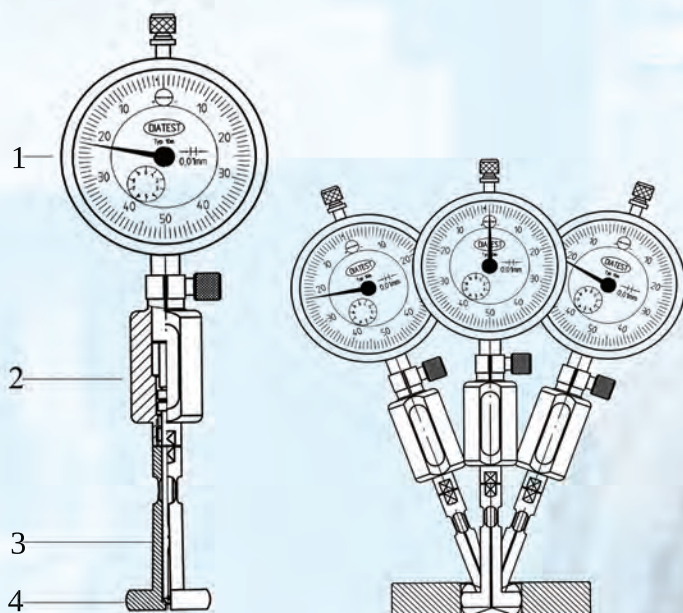
校对环规: DIATEST 可提供公制或英制尺寸校对环规。环规尺寸小于 1.5mm 的, 内嵌一个人造宝石, 其他尺寸的环规均经过时效处理, 采用量具用耐磨特种钢制成。DIATEST 环规依据工厂标准, 提供固定尺寸环规。中间尺寸环规依据 DIN2250-C 标准提供。

行程传递

具有一定锥度的测针以 1: 1 的比例, 将测头的测量行程传递给显示表。

工作原理

由于显示表测量力的作用, 测头的半圆测砧在孔中间伸开。



两瓣式孔径测量仪在环规中进行零点校对。手握两瓣式孔径测量仪, 在孔中摆动测量仪来确定轴向中心 (见下面中间的图)。显示表显示的**最小值**即测量值。当使用测量台架时, 不需要摆动测量仪。

使用范围

DIATEST 两瓣式孔径测量仪除了可以测量标准孔径值外, 还可以测量椭圆孔、同心圆孔、桶状孔的几何形状误差。除此之外, 两瓣式测量仪还可以测量平行距离、凹槽、锯齿、内齿轮等。

特殊形状需询价

需提供图纸、工件样品和测量方法的详细描述。

特殊的 DIATEST 两瓣式孔径测量仪:

-T-ZG: 测量中间有凸台的孔 (询价)

-Super-FB: 测量点距孔底 0.1mm 的盲孔 (询价)

-沟槽测头: 测量沟槽直径 (询价)

-T-PA: 测量平行距离 (见第 6 页)

-T-ZM: 测量齿轮, 从 $M_i=3.5\text{mm}$ (见内齿量仪样本)

-T-3P: 测量多边形, 从 $\varnothing 4.75\text{mm}$ (见第 6 页)

Design

A split-ball probe unit consists of at least 5 parts:

Probe (4) made of hardened steel - in standard version chromed c. 1000 HV

Tapered needle (3) made of hardened steel or carbide with lapped taper.

Hardness steel needle: 62-64 HRC, hardness carbide needle: c. 1600 HV

Indicator holder (2) MH6-51 with clamp 8H6 or MH-6-51-Z with clamp 3/8", retracting indicator holder MH6-73-R

Indicating unit (1) any mechanical or electronic indicator, micro comparator or electronic probe with display

Setting ring: DIATEST setting rings are available in metric or inch sizes.

Rings up to $\varnothing 1.5$ have an insert made of synthetic sapphire, all other sizes are made of artificially aged and wear resistant special steel. DIATEST setting rings can only be supplied in fixed sizes according to works standard. Intermediate sizes can only be supplied as DIN 2250-C setting rings.

Travel transmission

The lapped taper of the needle transfers the spreading movement of the split-ball probe in a 1:1 ratio to the indicator.

Working Principle

The semicircular anvils of the probe are spread by the meas-

uring pressure of the indicating unit and centre themselves in the bore. The gauge is zero-set (calibrated) in a setting ring. When gauging by hand, determine axial centering by rocking gauge assembly in bore (see below ill., middle). Reversal point of Indicator hand shows measured value. When checking stands are used, rocking movement is not required.

Range of operation

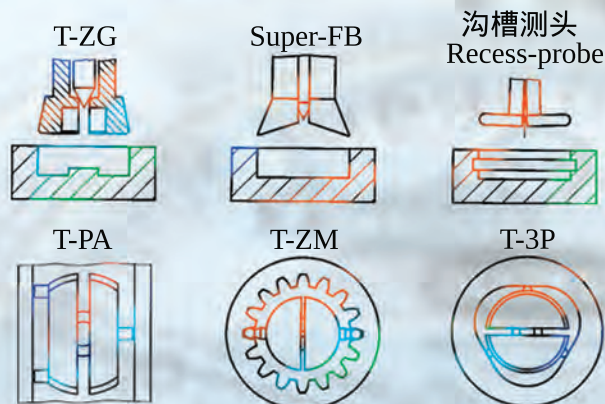
Apart from bore diameters DIATEST split-ball probes can detect geometrical shape defects such as ovality, concentricity, barrel-shape, etc. Besides, splitball probes are available for gauging parallel distances, groove toothing (serration), internal gears and recesses.

Special shapes on request

Send drawing, workpiece sample and description of gauging method with inquiry.

Some special shapes of DIATEST split-ball bore gauges:

- T-ZG: bore gauging with centre stud (on request)
- Super-FB: blind bore gauging up to c. 0.1 mm to bore ground (on request)
- Recess-probe: diameter gauging of recesses (on request)
- T-PA: gauging of parallel distances (see page 6)
- T-ZM: gear gauging from $M_i = 3.5\text{ mm}$ (see leaflet "Internal Gear Gauges")
- T-3P: gauging of polygon shapes from $\varnothing 4.75\text{ mm}$ (see page 6)



附件

多种附件使两瓣式孔径测量仪更加完善。标准连接螺纹 M6 × 0.75，根据测量要求，可将各个部分互联。

可收缩指示表手柄 (MH6-73-R)

可以很容易进入被测孔中。

加长杆 TV-8 (Ø 8.0)

用于深孔测量，从 Ø 8.2 开始。有不同长度从 L=20mm 至 L=1000mm。从 TV-8-80 (L=80) 起，加长杆是隔热的。

T 系列测头加长杆 ...

... 测量孔径小于 Ø 8.3mm 的深孔时，与 T 系列测头连接使用。加长杆的直径与 T 系列测头的设计有关：TV-2 (Ø 2.0)，TV-2.5 (Ø 2.5)，TV-4 (Ø 4.0)。加长杆有多种不同长度，L=20mm - L=1000mm (依据需要测量的深度)。一端的连接螺纹是 M6 × 0.75。可以与所有附件连接。T 系列加长杆是隔热的。

Accessories

A large assortment of accessories complete the split-ball-programme. The standard connection thread M6 x 0.75 enables a multiple combination of the individual gauging elements according to the measuring job.

Retracting indicator holder (MH6-73-R)

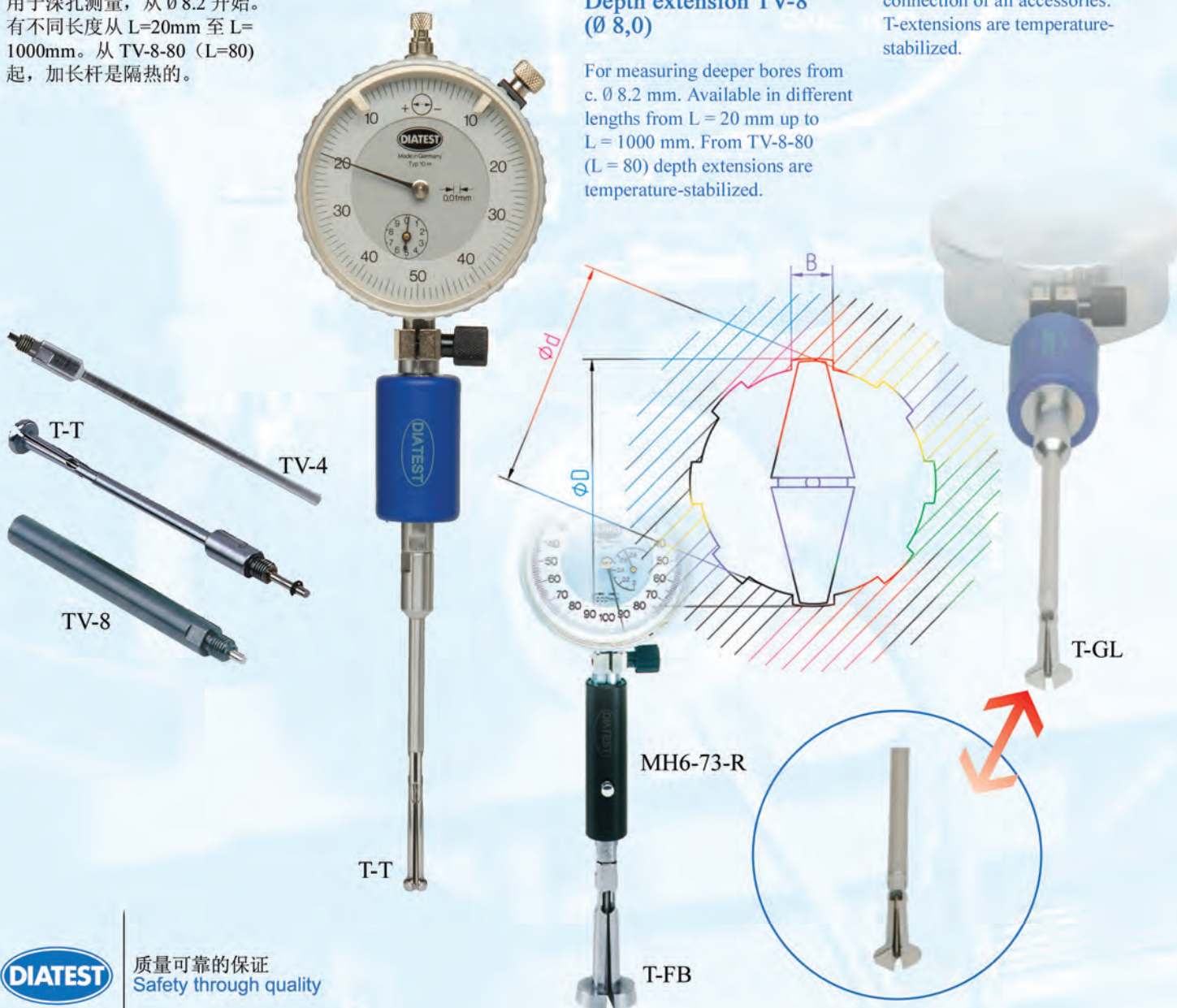
For easy entry in bore.

Depth extension TV-8 (Ø 8,0)

For measuring deeper bores from c. Ø 8.2 mm. Available in different lengths from L = 20 mm up to L = 1000 mm. From TV-8-80 (L = 80) depth extensions are temperature-stabilized.

Depth extensions for T-probes ...

... are required in combination with T-probes for measuring deeper bores smaller than Ø 8.3 mm. Diameter of extension depends on design of T-probe: TV-2 (Ø 2.0), TV-2.5 (Ø 2.5), TV-4 (Ø 4.0). Extensions are available in different lengths from L = 20 mm up to L = 1000 mm (depending on extension). Connection thread of one side is always M6 x 0.75. This allows connection of all accessories. T-extensions are temperature-stabilized.



质量可靠的保证
Safety through quality

转角 (W-6)

当量仪和工件之间间隙有限时，通过螺纹连接手柄和测头。转角附件和障碍物之间的最小距离是 27mm+ 测头长度 (见第 14 页表格)。

旋转接头 (TV-64-D)

测头可以在孔中旋转，而显示表保持不动。特别适合测量不能旋转工件的圆度。

深度限位块 (TA-8...)

在特定深度测量孔径时使用。寻找拐点的过程也可以省略。深度限位 TA-8-24 夹紧在加长杆 TV-8 上。限位环 Ø24 可以更换为 Ø45 或 Ø60。也可以通过螺纹拧到一个特定的限位环上，以此代替圆盘。

Right angle attachment (W-6)

Screwed between holder and probe where clearance between tool and workpiece is limited. Minimum distance between right angle attachment and obstacle: 27 mm plus length of probe (see table page 14).

Rotary adapter (TV-64-D)

Probe can be turned in bore while dial indicator remains stationary. Specially suitable for roundness measuring of workpieces which cannot be turned.

Depth stops (TA-8...)

Ideal for gauging bores at a specific depth. Also search for reversal point can be omitted. The depth stop TA-8-24 is clamped onto depth extension TV-8. The stop ring Ø 24 is interchangeable with stop rings Ø 45 or Ø 60. It is also possible to screw on a special stop ring instead of the discs.



测量台架

测量台架与两瓣式测头配合使用，为保证测量精度和快速测量（测量直径、喇叭口、锥度、桶型、圆度等）提供了可靠基础。不需要寻找拐点的过程。可进行精确测量。

这对于测量形状误差非常重要。使用浮动夹头，V型夹紧装置等附件，使不熟练的工人也可以快速操作测量。使用深度限位附件，可以在深度上的确定点进行测量。

测量台架的特殊优点是可以在车间使用，在生产过程中对孔径进行控制。

以大型台架为基础研制开发的孔径自动测量及评定系统，通过软件对各种孔进行分析，可测量孔的直径、最大最小值、定点值、锥度、圆度、平行度、直线度等，并保存所有测量值、绘制出孔的母线图形。

Checking stands

In combination with split-ball probes checking stands offer a safe basis for an exact and fast bore gauging (measuring of $\emptyset$, bell mouth, conical form, barrel shape, roundness etc.). Search for reversal point is omitted. Amount of stroke can be set precisely.

This is particularly important when shape defects are detected.

Accessories like e.g. floating holder and vee attachment enable a reliable and fast transaction of gauging also for unskilled workers.

By using adjustable depth stops one can carry through measurements in indicated depths.

Specially beneficial is the use of stands directly on the working place for bore control during production.

Base of universal checking stand, we designed the "Automatic Bore Diameter Measuring and Analysis System". The device can measure and analysis bore diameter, max. and min. diameter, fixed-point diameter, taper, roundness, parallelism, straightness etc. And this machine can also save all the measure values even curves of bore.

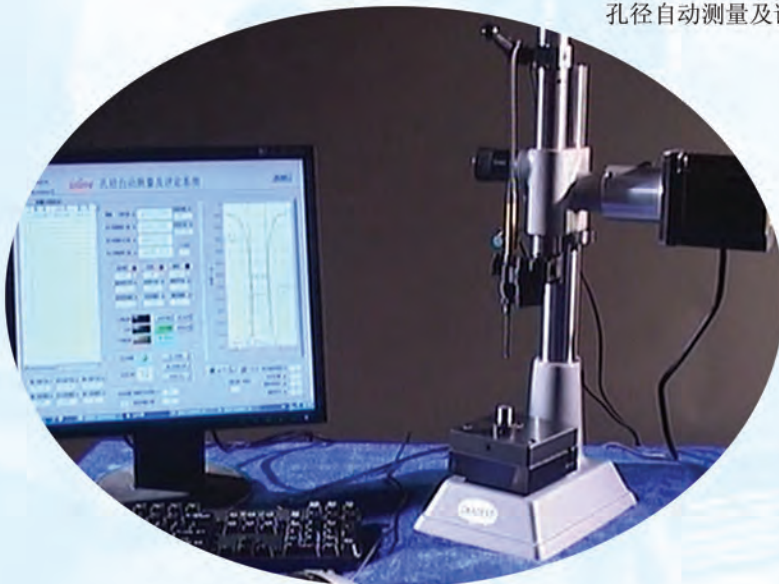
MST-102



MST-58



孔径自动测量及评定系统



质量可靠的保证
Safety through quality

浮动夹头 (SH-T)

将两瓣式测头夹紧在测量台架上，在水平面内有一个微小的浮动量。使测头在进入孔时可以很容易找到正确的轴线。浮动范围从 0-1.5mm 连续可调。（直至 3mm 无调节）

型号 SH-T-F 为测力可调。

测量台架 (MST-58)

MST-58 使用方便，非常适合测量小工件。测量行程从 0-40mm 连续可调。使用测量螺母，可以很方便并精确的调整高度。工作台直径 58mm。

附件:

- 在工作台上使用 V 型夹紧装置 (MST-WA)，方便定位。
- 带孔工作台 (MST-MT-80)，用于测量直径小于 13mm 的孔。

通用测量台架 (MST-102)

该测量台架适合测量大工件。测量行程从 0-130mm 连续可调。V 型夹紧装置（台架附件）或其他定中心设备可以安装在工作台（100×100）的 T 型槽上。

附件:

- 带量表接收装置的 Ø30mm 转动手轮，用于精确调整高度。
- 不同宽度的工作台（130mm 和 160mm）。
- 升降臂（150mm 和 200mm）用于测量大工件和配合 BMD-浮动夹头时使用。

Floating holder (SH-T)

It allows the split-ball probe, which is clamped in the checking probe, a slight "floating" in horizontal plane. A probe easily finds the exact axis when entering into the bore. Floating range continuously adjustable from 0 to 1.5 mm (until 3 mm without regulation).

Version SH-T-F for adjustment of measuring pressure.

Checking stand (MST-58)

The MST-58 is easy to handle and especially suitable for small workpieces. The measuring stroke is continuously adjustable from 0 - 40 mm. With the checking nut you can easily and exactly adjust the height. The diameter of platen is 58 mm.

Extras:

- For easy positioning a clamp on- vee (MST-WA) can be fixed to platen
- Perforated platen (MST-MT-80) for measuring through bores up to Ø 13 mm

Universal checking stand (MST-102)

This checking stand is suitable for larger sizes. The measuring stroke is continuously adjustable from 0 - 130 mm. The vee attachment (standard accessory) or other centering devices can be mounted on the platen (100 x 100) in a T-slot.

Extras:

- Collar for Ø 30 mm c/w dial gauge bracket for precise height adjustment
- Platens in different widths (130 mm and 160 mm)
- Jib arms (150 mm and 200 mm) for larger workpieces and BMD-floating holders (SH-BMD-30)



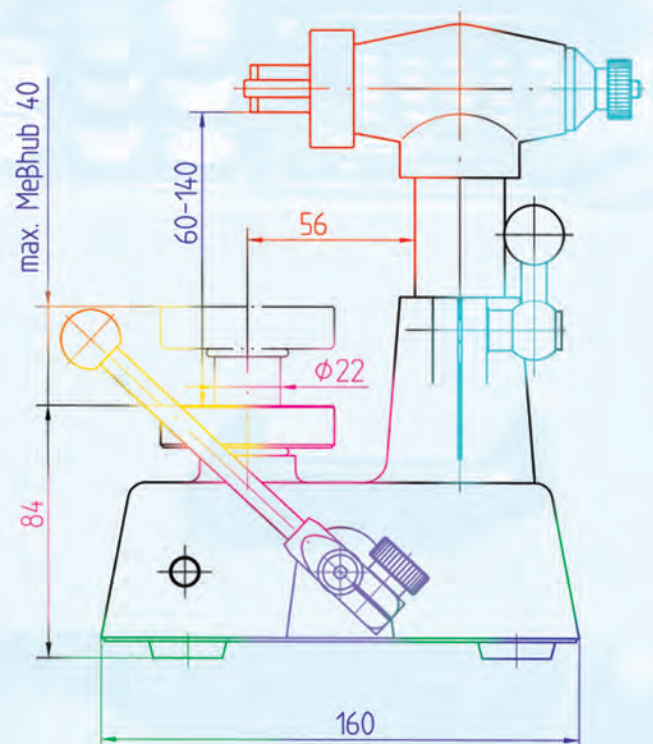
SH-T



MST-MT-80



MST-WA



DIATEST 小孔测量仪, 标准测头、硬质合金测头、盲孔测头
测量孔径范围 Ø 0.47 mm - 41.1 mm

**DIATEST small bore gauges, standard, carbide and blind bore
for bore hole Ø 0.47 mm to 41.1 mm.**

两瓣式测头, 成套量仪¹⁾, 成套校对环规²⁾
Split-ball probes, complete sets¹⁾, setting ring sets²⁾

测量范围 (黑体=成套 测量范围) Range (Bold type = measuring range of set) mm	标准测头 普通碳钢镀硬铬 Standard probes hard chrome plated		标准测头 硬质合金测点 Standard probes carbide inserted		标准测头 陶瓷测点 Standard probes ceramic inserted		盲孔测头 普通碳钢镀硬铬 Blind bore probes hard chrome plated	
	单个 Single	成套 Set ¹⁾	单个 Single	成套 Set ¹⁾	单个 Single	成套 Set ¹⁾	单个 Single	成套 Set ¹⁾
	订货号 Order Code	订货号 Order Code	订货号 Order Code	订货号 Order Code	订货号 Order Code	订货号 Order Code	订货号 Order Code	订货号 Order Code
0,47 – 0,53 0,52 – 0,58	T-0,50 T-0,55	M-00						
0,57 – 0,67 0,65 – 0,77 0,75 – 0,87 0,85 – 0,97	T-0,60 T-0,70 T-0,80 T-0,90							
0,95 – 1,15 1,07 – 1,25 1,17 – 1,35 1,27 – 1,45 1,37 – 1,55	T-1,0 T-1,1 T-1,2 T-1,3 T-1,4							
1,50 – 1,90 1,80 – 2,20 2,05 – 2,45	T-1,75 T-2,00 T-2,25		T-HM-1,75 T-HM-2,00 T-HM-2,25				T-FB-1,75 T-FB-2,00 T-FB-2,25	
2,30 – 2,70 2,55 – 2,95 2,80 – 3,20 3,05 – 3,45 3,30 – 3,70 3,55 – 3,95	T-2,50 T-2,75 T-3,00 T-3,25 T-3,50 T-3,75	M-1	T-HM-2,50 T-HM-2,75 T-HM-3,00 T-HM-3,25 T-HM-3,50 T-HM-3,75	M1-HM			T-FB-2,50 T-FB-2,75 T-FB-3,00 T-FB-3,25 T-FB-3,50 T-FB-3,75	M1-FB
3,80 – 4,20	T-4,00/1		T-HM-4,00/1				T-FB-4,00/1	
3,70 – 4,30 4,20 – 4,80 4,70 – 5,30 5,20 – 5,80 5,70 – 6,30 6,20 – 6,80 6,70 – 7,30 7,20 – 7,80 7,70 – 8,30 8,20 – 8,80 8,70 – 9,30 9,20 – 9,80	T-4,0 T-4,5 T-5,0 T-5,5 T-6,0 T-6,5 T-7,0 T-7,5 T-8,0 T-8,5 T-9,0 T-9,5	M-2	T-HM-4,0 T-HM-4,5 T-HM-5,0 T-HM-5,5 T-HM-6,0 T-HM-6,5 T-HM-7,0 T-HM-7,5 T-HM-8,0 T-HM-8,5 T-HM-9,0 T-HM-9,5	M2-HM	T-KE-4,0 T-KE-4,5 T-KE-5,0 T-KE-5,5 T-KE-6,0 T-KE-6,5 T-KE-7,0 T-KE-7,5 T-KE-8,0 T-KE-8,5 T-KE-9,0 T-KE-9,5	M2-KE	T-FB-4,0 T-FB-4,5 T-FB-5,0 T-FB-5,5 T-FB-6,0 T-FB-6,5 T-FB-7,0 T-FB-7,5 T-FB-8,0 T-FB-8,5 T-FB-9,0 T-FB-9,5	M2-FB
9,70 – 10,30	T-10,0/2		T-HM-10,0/2		T-KE-10,0/2		T-FB-10,0/2	
9,40 – 10,60 10,40 – 11,60 11,40 – 12,60 12,40 – 13,60 13,40 – 14,60 14,40 – 15,60 15,40 – 16,60 16,40 – 17,60 17,40 – 18,60 18,40 – 19,60 19,40 – 20,60	T-10 T-11 T-12 T-13 T-14 T-15 T-16 T-17 T-18 T-19 T-20	M-3	T-HM-10 T-HM-11 T-HM-12 T-HM-13 T-HM-14 T-HM-15 T-HM-16 T-HM-17 T-HM-18 T-HM-19 T-HM-20	M3-HM	T-KE-10 T-KE-11 T-KE-12 T-KE-13 T-KE-14 T-KE-15 T-KE-16 T-KE-17 T-KE-18 T-KE-19 T-KE-20	M3-KE	T-FB-10 T-FB-11 T-FB-12 T-FB-13 T-FB-14 T-FB-15 T-FB-16 T-FB-17 T-FB-18 T-FB-19 T-FB-20	M3-FB
20,40 – 21,60 21,40 – 22,60 22,40 – 23,60 23,40 – 24,60 24,40 – 25,60 25,40 – 26,60 26,40 – 27,60 27,40 – 28,60 28,40 – 29,60 29,40 – 30,60	T-21 T-22 T-23 T-24 T-25 T-26 T-27 T-28 T-29 T-30	M-4	T-HM-21 T-HM-22 T-HM-23 T-HM-24 T-HM-25 T-HM-26 T-HM-27 T-HM-28 T-HM-29 T-HM-30	M4-HM	T-KE-21 T-KE-22 T-KE-23 T-KE-24 T-KE-25 T-KE-26 T-KE-27 T-KE-28 T-KE-29 T-KE-30	M4-KE	T-FB-21 T-FB-22 T-FB-23 T-FB-24 T-FB-25 T-FB-26 T-FB-27 T-FB-28 T-FB-29 T-FB-30	M4-FB
28,90 – 31,10 30,90 – 33,10 32,90 – 35,10 34,90 – 37,10 36,90 – 39,10 38,90 – 41,10	T-30/5 T-32 T-34 T-36 T-38 T-40	M-5	T-HM-30/5 T-HM-32 T-HM-34 T-HM-36 T-HM-38 T-HM-40	M5-HM	T-KE-30/5 T-KE-32 T-KE-34 T-KE-36 T-KE-38 T-KE-40	M5-KE	T-FB-30/5 T-FB-32 T-FB-34 T-FB-36 T-FB-38 T-FB-40	M5-FB

测针 Needles				校对环规 Setting rings			技术信息 Technical information				
标准测针 Standard needles		盲孔测针 Blind bore needles		成套校对环规 Set of setting rings ²⁾	标准名义尺寸 Standard nominal sizes	中间名义尺寸 inter-mediate sizes	测头长度 Length of probes	最大测量深度 Max. measuring depth	最小测量高度 (标准测头) Min. measuring height (Standard probe)	最小测量高度 (盲孔测头) Min. measuring height (Blind bore probe)	显示表的测量力 Measuring pressure of dial gauge
普通碳钢 Steel	硬质合金 Carbide	普通碳钢 Steel	硬质合金 Carbide	订货号 Order Code	订货号 Order Code	订货号 Order Code	L ³⁾	M ¹⁾	H1 ³⁾	H2 ³⁾	N(ca)
N00-030				RM-00	R-0,500 R-0,550 R-0,600 R-0,700 R-0,800 R-0,900		19,5	1,5 1,8 2,0 2,5 2,8 3,0	0,25 0,27 0,29 0,31 0,33 0,35		0,3 – 0,6
N00-040											
N0-070	NHM0-070			RM-0	R-1,000 R-1,100 R-1,200 R-1,300 R-1,400	R-1,500	19,5	11	0,6		0,5 – 0,8
N1-100	NHM1-100	NFB1-100	NFB-HM 1-100	RM-1	R-1,750 R-2,000 R-2,250 R-2,500 R-2,750 R-3,000 R-3,250 R-3,500 R-3,750		25,3	17	0,9		0,8 – 1
N1-150	NHM1-150	NFB1-150	NFB-HM 1-150		30,6		22	1,2			
N2-270	NHM2-270	NFB2-270	NFB-HM 2-270	RM-2	R-4,000 R-4,500 R-5,000 R-5,500 R-6,000 R-6,500 R-7,000 R-7,500 R-8,000 R-8,500 R-9,000 R-9,500	R-5,750 R-7,750	47,3	40	2	0,5	1,2 – 1,8
								50			
N3-310	NHM3-310	NFB3-310	NFB-HM 3-310	RM-3	R-10,000 R-11,000 R-12,000 R-13,000 R-14,000 R-15,000 R-16,000 R-17,000 R-18,000 R-19,000 R-20,000	R-10,500 R-11,500 R-12,500 R-13,500 R-14,500 R-15,500 R-16,500 R-17,500 R-18,500 R-19,500	48,5	50	3,3	1,0	1,5 – 2
								90			
N3-310	NHM3-310	NFB3-310	NFB-HM 3-310	RM-4	R-21,000 R-22,000 R-23,000 R-24,000 R-25,000 R-26,000 R-27,000 R-28,000 R-29,000 R-30,000	R-20,500 R-21,500 R-22,500 R-23,500 R-24,500 R-25,500 R-26,500 R-27,500 R-28,500 R-29,500	48,5	90	3,6	1,2	1,5 – 2,5
N5-350	NHM5-350	NFB5-350	NFB-HM 5-350	RM-5	R-30,000 R-32,000 R-34,000 R-36,000 R-38,000 R-40,000	R-31,000 R-33,000 R-35,000 R-37,000 R-39,000	48,5	100	4	1,5	1,5 – 2,5



1) 成套量仪包括:
带测量范围表的木盒
(留有放校对环规的空间)
两瓣式测头和测针,
标准手柄 MH6-S1 和
扳手 SW7-G。

2) 校对范围: 见校对环规
标准名义尺寸。

3) 见 15 页草图。

1) A complete set contains:
Wooden box with range chart
(space for setting rings is left),
split-ball probes and needles,
standard holder MH6-S1 and
wrench SW7-G.

2) Extent of set: See setting rings
standard nominal sizes.

3) See sketch page 15.

DIATEST 实验室孔径量仪，
测量范围 0.47mm-30.60mm。

DIATEST laboratory bore gauges,
range 0.47 mm to 30.60 mm.

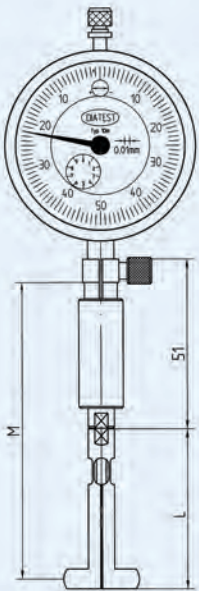
几个基本组成部分，装在一个木箱中 Several basic sets in one box					
测量范围 Range	标准测头 普通碳钢镀硬铬 Standard probes hard chrome plated	标准测头 硬质合金测点 Standard probes carbide inserted	标准测头 陶瓷测点 Standard probes ceramic inserted	盲孔测头 普通碳钢镀硬铬 Blind bore probes hard chrome plated	成套校对环规 Set of setting rings ²⁾
mm	成套 ¹⁾ Sets ¹⁾ 订货号 Order Code	成套 ¹⁾ Sets ¹⁾ 订货号 Order Code	成套 ¹⁾ Sets ¹⁾ 订货号 Order Code	成套 ¹⁾ Sets ¹⁾ 订货号 Order Code	订货号 Order Code
0,47 – 1,55 0,95 – 3,95 1,50 – 9,80 1,50 – 20,60 3,70 – 30,60	M-000 M-01 M-12 M-123 M-234	M12-HM M123-HM M234-HM	M234-KE	M12-FB M123-FB M234-FB	RM-000 RM-01 RM-12 RM-123 RM-234

- 1) 成套包括：
带有测量范围表的木箱
(留有放校对环规的空间)
两瓣式测头和测针
标准手柄 MH6-51 和
扳手 SW7-G。

2) 成套包括：见环规标准
名义尺寸。
- 1) A complete set contains:
Wooden box with range chart
(space for setting rings is left),
split-ball probes and needles,
standard holder MH6-51 and
wrench SW7-G.

2) Extent of set: See setting rings
standard nominal sizes.

技术信息
Technical information



最大测量深度 M

测头尺寸决定最大测量深度。
测量深度指伸入孔内深度尺寸，
部分可以达到指示表。
较大的测量深度可以通过如
下方法获得：
Ø 8.20mm 以上使用加长杆
Ø 2.05mm 以上使用 T 系列测头
Ø 0.95mm 以上使用特殊测头

测头长度 L

当空间有限使用转角附件时，
孔和障碍物之间的最小距离
= 27mm + 测头长度 (L)。

最小测量高度 H

指的是测头进入孔最深时，
测点与孔底之间的距离。

Maximum measuring depth M

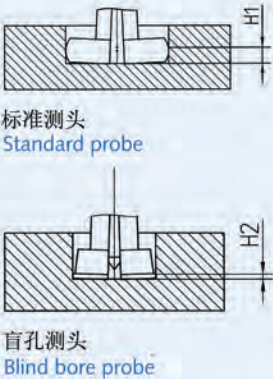
Depends on probe size. For deter-
mination of max. measuring depth.
Insert bore gauge partly into bore
up to indicator.
Larger measuring depths from:
Ø 8.20 mm with extension
Ø 2.05 mm with T-probes
Ø 0.95 mm with special probes

Length of probes L

When space is limited and right
angle attachment is used, minimum
distance between bore obstruction
= 27 mm + length of probes (L).

Minimum measuring height H

Indicates how close to bore ground
can be gauged when probe is
spread to maximum.



标准测头
Standard probe

盲孔测头
Blind bore probe

DIATEST 小孔测量仪，标准测头、硬质合金测头、盲孔测头
测量孔径范围 Ø 0.0185" - 1.6200"

DIATEST small bore gauges, standard, carbide and blind bore
for bore hole Ø 0.0185" to 1.6200".

两瓣式测头，成套量规 ¹⁾ ，成套校对环规 ²⁾ Split-ball probes, complete sets ¹⁾ , setting ring sets ²⁾									
测量范围 (黑体=成套 测量范围) Range (Bold type = measuring range of set)	标准测头 普通碳钢镀硬铬 Standard probes hard chrome plated	标准测头 硬质合金测点 Standard probes carbide inserted	标准测头 陶瓷测点 Standard probes ceramic inserted	盲孔测头 普通碳钢镀硬铬 Blind bore probes hard chrome plated					
inch	单个 Single 订货号 Order Code	成套 ¹⁾ Set ¹⁾ 订货号 Order Code	单个 Single 订货号 Order Code	成套 ¹⁾ Set ¹⁾ 订货号 Order Code	单个 Single 订货号 Order Code	成套 ¹⁾ Set ¹⁾ 订货号 Order Code	单个 Single 订货号 Order Code	成套 ¹⁾ Set ¹⁾ 订货号 Order Code	
0.0185 – 0.0210 0.0205 – 0.0228	T-0X T-00								
0.0224 – 0.0264 0.0256 – 0.0300 0.0295 – 0.0343 0.0335 – 0.0380	T-01 T-02 T-03 T-04	E-00							
0.0375 – 0.0450 0.0430 – 0.0490 0.0470 – 0.0530 0.0510 – 0.0570 0.0540 – 0.0610	T-05 T-06 T-07 T-08 T-09	E-0							
0.057 – 0.075 0.067 – 0.085 0.081 – 0.096	T-011 T-012 T-013	E-1	T-HM-011 T-HM-012 T-HM-013	E-1-HM			T-FB-011 T-FB-012 T-FB-013	E-1-FB	
0.091 – 0.110 0.105 – 0.126 0.120 – 0.140 0.134 – 0.155 0.149 – 0.169	T-014 T-015 T-016 T-017 T-018		T-HM-014 T-HM-015 T-HM-016 T-HM-017 T-HM-018				T-FB-014 T-FB-015 T-FB-016 T-FB-017 T-FB-018		
0.165 – 0.200 0.185 – 0.220 0.209 – 0.244 0.235 – 0.270 0.260 – 0.295 0.288 – 0.323 0.313 – 0.347 0.335 – 0.370 0.360 – 0.394	T-021 T-022 T-023 T-024 T-025 T-026 T-027 T-028 T-029	E-2	T-HM-021 T-HM-022 T-HM-023 T-HM-024 T-HM-025 T-HM-026 T-HM-027 T-HM-028 T-HM-029	E-2-HM	T-KE-021 T-KE-022 T-KE-023 T-KE-024 T-KE-025 T-KE-026 T-KE-027 T-KE-028 T-KE-029	E-2-KE	T-FB-021 T-FB-022 T-FB-023 T-FB-024 T-FB-025 T-FB-026 T-FB-027 T-FB-028 T-FB-029	E-2-FB	
0.380 – 0.425 0.420 – 0.480 0.474 – 0.531 0.524 – 0.583 0.573 – 0.634 0.622 – 0.681 0.672 – 0.730 0.721 – 0.780 0.772 – 0.830	T-031 T-032 T-033 T-034 T-035 T-036 T-037 T-038 T-039	E-3	T-HM-031 T-HM-032 T-HM-033 T-HM-034 T-HM-035 T-HM-036 T-HM-037 T-HM-038 T-HM-039	E-3-HM	T-KE-031 T-KE-032 T-KE-033 T-KE-034 T-KE-035 T-KE-036 T-KE-037 T-KE-038 T-KE-039	E-3-KE	T-FB-031 T-FB-032 T-FB-033 T-FB-034 T-FB-035 T-FB-036 T-FB-037 T-FB-038 T-FB-039	E-3-FB	
0.833 – 0.880 0.872 – 0.930 0.922 – 0.980 0.972 – 1.036 1.022 – 1.080 1.072 – 1.130	T-041 T-042 T-043 T-044 T-045 T-046	E-4	T-HM-041 T-HM-042 T-HM-043 T-HM-044 T-HM-045 T-HM-046	E-4-HM	T-KE-041 T-KE-042 T-KE-043 T-KE-044 T-KE-045 T-KE-046	E-4-KE	T-FB-041 T-FB-042 T-FB-043 T-FB-044 T-FB-045 T-FB-046	E-4-FB	
1.130 – 1.220 1.210 – 1.300 1.290 – 1.380 1.370 – 1.460 1.450 – 1.540 1.530 – 1.620	T-051 T-052 T-053 T-054 T-055 T-056	E-5	T-HM-051 T-HM-052 T-HM-053 T-HM-054 T-HM-055 T-HM-056	E-5-HM	T-KE-051 T-KE-052 T-KE-053 T-KE-054 T-KE-055 T-KE-056	E-5-KE	T-FB-051 T-FB-052 T-FB-053 T-FB-054 T-FB-055 T-FB-056	E-5-FB	

测针 Needles				校对环规 Setting rings			技术信息 Technical information				
标准测针 Standard needles		盲孔测针 Blind bore needles		成套校对环规 Set of setting rings ²⁾	标准名义尺寸 Standard nominal sizes	中间名义尺寸 inter-mediate sizes	测头长度 Length of probes	最大测量深度 Max. measuring depth	最小测量高度 (标准测头) Min. measuring height (Standard probe)	最小测量高度 (盲孔测头) Min. measuring height (Blind bore probe)	显示表的测量力 Measuring pressure of dial gauge
普通碳钢 Steel	硬质合金 Carbide	普通碳钢 Steel	硬质合金 Carbide	订货号 Order Code	订货号 Order Code	订货号 Order Code	L ³⁾ mm	M ³⁾ mm	H1 ³⁾ mm	H2 ³⁾ mm	N(ca)
N00-030				RE-00	R-0X	0.020	19,5				0,3 – 0,6
N00-040					R-00	0.022					
N0-070	NHM0-070			RE-0	R-05	0.040	19,5	11	0,6		0,5 – 0,8
					R-06	0.045					
					R-07	0.050					
					R-08	0.055					
					R-09	0.060					
N1-100	NHM1-100	NFB1-100	NFB-HM 1-100	RE-1	R-011	0.0625	25,3	17	0,9		0,8 – 1
					R-012	0.0750					
					R-013	0.0875					
					R-014	0.1000					
					R-015	0.1150					
N1-150	NHM1-150	NFB1-150	NFB-HM 1-150		R-016	0.1300	30,6	22	1,2	0,3	
					R-017	0.1450					
					R-018	0.1600					

1) 成套量仪包括：
带测量范围表的木盒
(留有放校对环规的空间)
两瓣式测头和测针，
标准手柄 MH6-51 和
扳手 SW7-G。

2) 校对范围：见校对环规
标准名义尺寸。

3) 见 19 页草图。

1) A complete set contains:
Wooden box with range chart
(space for setting rings is left),
split-ball probes and needles,
standard holder MH6-51 and
wrench SW7-G.

2) Extent of set: See setting rings
standard nominal sizes.

3) See sketch page 19.

DIATEST 实验室孔径量仪，
测量范围 0.0185”-1.13”
DIATEST laboratory bore gauges,
range 0.0185" to 1.13".

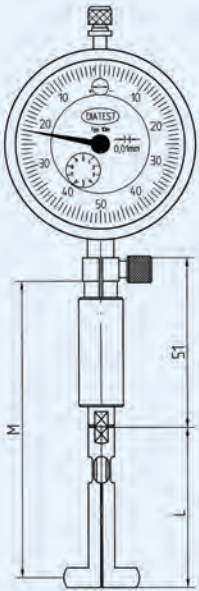
几个基本组成部分，装在一个木箱中 Several basic sets in one box					
测量范围 Range	标准测头 普通碳钢镀硬铬 Standard probes hard chrome plated	标准测头 硬质合金测点 Standard probes carbide inserted	标准测头 陶瓷测点 Standard probes ceramic inserted	盲孔测头 普通碳钢镀硬铬 Blind bore probes hard chrome plated	成套校对环规 Set of setting rings ¹⁾
inch	成套 ¹⁾ Sets ¹⁾ 订货号 Order Code	成套 ¹⁾ Sets ¹⁾ 订货号 Order Code	成套 ¹⁾ Sets ¹⁾ 订货号 Order Code	成套 ¹⁾ Sets ¹⁾ 订货号 Order Code	订货号 Order Code
0.0185 – 0.0610 0.0375 – 0.1690 0.0570 – 0.3940 0.0570 – 0.8300 0.1650 – 1.1300	E-000 E-01 E-12 E-123 E-234	E-12-HM E-123-HM E-234-HM	E-234-KE	E-12-FB E-123-FB E-234-FB	RE-000 RE-01 RE-12 RE-123 RE-234

- 1) 成套量仪包括：
带有测量范围表的木箱
（留有放校对环规的空间）
两瓣式测头和测针
标准手柄 MH6-51 和
扳手 SW7-G。

2) 成套包括：见环规标准
名义尺寸。
- 1) A complete set contains:
Wooden box with range chart
(space for setting rings is left),
split-ball probes and needles,
standard holder MH6-51 and
wrench SW7-G.

2) Extent of set: See setting rings
standard nominal sizes.

技术信息
Technical information



最大测量深度 M
测头尺寸决定最大测量深度。
测量深度指伸入孔内深度尺寸，
部分可以达到指示表。
较大的测量深度可以通过如下方法获得：
Ø 8.20mm 以上使用加长杆
Ø 2.05mm 以上使用 T 系列测头
Ø 0.95mm 以上使用特殊测头

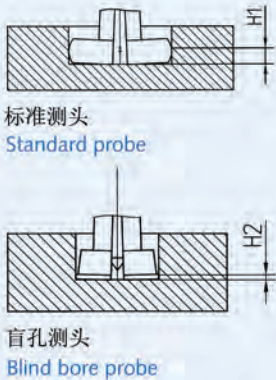
测头长度 L
当空间有限使用转角附件时，
孔和障碍物之间的最小距离
= 27mm + 测头长度 (L)。

最小测量高度 H
指的是测头进入孔最深时，
测点与孔底之间的距离。

Maximum measuring depth M
Depends on probe size. For determination of max. measuring depth. Insert bore gauge partly into bore up to indicator.
Larger measuring depths from:
Ø 8.20 mm with extension
Ø 2.05 mm with T-probes
Ø 0.95 mm with special probes

Length of probes L
When space is limited and right angle attachment is used, minimum distance between bore obstruction = 27 mm + length of probes (L).

Minimum measuring height H
Indicates how close to bore ground can be gauged when probe is spread to maximum.



DIATEST-T 系列测头，测量深孔，
Ø 2.05 - 9.80 mm
DIATEST-T-probes to measure deeper bores,
Ø 2.05 mm to 9.80 mm.

测量范围 (黑体为成套 测量范围) Range (Bold type = measuring range of set) mm	标准 T 系列测头 普通碳钢镀硬铬 Standard-T-probes hard chrome plated		标准 T 系列测头 硬质合金测点 Standard-T-probes carbide inserted		校对环规 Setting rings		标准测针 Standard needles	
	单个 Single 订货号 Order Code	成套 ¹⁾ Set ¹⁾ 订货号 Order Code	单个 Single 订货号 Order Code	成套 ¹⁾ Set ¹⁾ 订货号 Order Code	单个 Single 订货号 Order Code	成套 Set 订货号 Order Code	碳钢 Steel 订货号 Order Code	硬质合金 Carbide 订货号 Order Code
2,05 – 2,45 2,30 – 2,70	T-T-2,25 T-T-2,50				R-2,250 R-2,500		NT1-100	NT-HM1-100
2,55 – 2,95 2,80 – 3,20 3,05 – 3,45 3,30 – 3,70 3,55 – 3,95 3,80 – 4,20	T-T-2,75 T-T-3,00 T-T-3,25 T-T-3,50 T-T-3,75 T-T-4,00	M1-T	T-T-HM-2,75 T-T-HM-3,00 T-T-HM-3,25 T-T-HM-3,50 T-T-HM-3,75 T-T-HM-4,00	M1-T-HM	R-2,750 R-3,000 R-3,250 R-3,500 R-3,750 R-4,000	RM-1T	NT1-150	NT-HM1-150
4,20 – 4,80 4,70 – 5,30 5,20 – 5,80 5,70 – 6,30 6,20 – 6,80 6,70 – 7,30 7,20 – 7,80 7,70 – 8,30 8,20 – 8,80 8,70 – 9,30 9,20 – 9,80	T-T-4,5 T-T-5,0 T-T-5,5 T-T-6,0 T-T-6,5 T-T-7,0 T-T-7,5 T-T-8,0 T-T-8,5 T-T-9,0 T-T-9,5	M2-T	T-T-HM-4,5 T-T-HM-5,0 T-T-HM-5,5 T-T-HM-6,0 T-T-HM-6,5 T-T-HM-7,0 T-T-HM-7,5 T-T-HM-8,0 T-T-HM-8,5 T-T-HM-9,0 T-T-HM-9,5	M2-T-HM	R-4,500 R-5,000 R-5,500 R-6,000 R-6,500 R-7,000 R-7,500 R-8,000 R-8,500 R-9,000 R-9,500	RM-2T	NT2-150	NT-HM2-150

DIATEST-T 系列测头，测量深孔，
Ø 0.081” - 0.388”
DIATEST-T-probes to measure deeper bores,
Ø 0.081" to 0.388".

测量范围 (黑体为成套 测量范围) Range (Bold type = measuring range of set) inch	标准 T 系列测头 普通碳钢镀硬铬 Standard-T-probes hard chrome plated		标准 T 系列测头 硬质合金测点 Standard-T-probes carbide inserted		校对环规 Setting rings		标准测针 Standard needles	
	单个 Single 订货号 Order Code	成套 ¹⁾ Set ¹⁾ 订货号 Order Code	单个 Single 订货号 Order Code	成套 ¹⁾ Set ¹⁾ 订货号 Order Code	单个 Single 订货号 Order Code	成套 Set 订货号 Order Code	碳钢 Steel 订货号 Order Code	硬质合金 Carbide 订货号 Order Code
0.081 – 0.094 0.092 – 0.107	T-T-013 T-T-014				R-013 R-014		NT1-100	NT-HM1-100
0.107 – 0.122 0.122 – 0.137 0.137 – 0.152 0.152 – 0.167	T-T-015 T-T-016 T-T-017 T-T-018	E-1-T			R-015 R-016 R-017 R-018	RE-1-T	NT1-150	NT-HM1-150
0.166 – 0.187 0.186 – 0.212 0.211 – 0.237 0.236 – 0.262 0.261 – 0.287 0.286 – 0.312 0.311 – 0.337 0.336 – 0.362 0.361 – 0.388	T-T-021 T-T-022 T-T-023 T-T-024 T-T-025 T-T-026 T-T-027 T-T-028 T-T-029	E-2-T	T-T-HM-021 T-T-HM-022 T-T-HM-023 T-T-HM-024 T-T-HM-025 T-T-HM-026 T-T-HM-027 T-T-HM-028 T-T-HM-029	E-2-T-HM	R-021 R-022 R-023 R-024 R-025 R-026 R-027 R-028 R-029	RE-2-T	NT2-150	NT-HM2-150

- 1) 成套包括：
带有测量范围的木箱
（留有放校对环规的空间）
标准手柄 MH6-51，
T 系列两瓣式测头，
T 系列测针

加长杆（长 64mm）
扳手 SW7-G 和 SW2-3-G。
- 1) A complete set contains:
Wooden box with range chart
(space for setting rings is left),
standard holder MH6-51, T-split-
ball probes, T-needles and depth
extension TV (length 64 mm),
wrenches SW7-G and SW 2-3-G.

技术信息
Technical information

测头长度 Length of probes	最小测量高度 (标准测头) Min. measuring height (Standard probe)	需要的 T 系列加长杆 Required T-extension	使用 T 系列加长杆 的测量深度 Measuring depth with T-extension L = 64 mm	显示表的 测量力 Measuring pressure of dial gauge N(ca)
25,3	0,9	TV-2	90	0,8 – 1
30,6	1,2	TV-2,5	95	0,8 – 1
31	1,7	TV-4	95	1 – 1,5

技术信息
Technical information

测头长度 Length of probes mm	最小测量高度 (标准测头) Min. measuring height (Standard probe) mm	需要的 T 系列加长杆 Required T-extension mm	使用 T 系列加长杆 的测量深度 Measuring depth with T-extension L = 64 mm mm	显示表的 测量力 Measuring pressure of dial gauge N(ca)
25,3	0,9	TV-2	90	0,8 – 1
30,6	1,2	TV-2,5	95	0,8 – 1
31	1,7	TV-4	95	1 – 1,5



DIATEST-3 点式测头，测量孔径
4.75mm-150.6mm/0.187"-5.929"

DIATEST-3-point-probes for bores
from 4.75 mm to 150.6 mm/0.187" to 5.929".

测量范围 Range	3 点式测头 ¹⁾ 3-point probes ¹⁾	测量范围 Range	3 点式测针 3-point needles
mm	订货号 Order Code	inch	订货号 Order Code
4,75 – 5,30 5,25 – 5,80 5,75 – 6,30 6,25 – 6,80 6,75 – 7,30 7,25 – 7,80 7,75 – 8,30 8,25 – 8,80 8,75 – 9,30 9,25 – 9,80 9,75 – 10,30	T-3P-5,0 T-3P-5,5 T-3P-6,0 T-3P-6,5 T-3P-7,0 T-3P-7,5 T-3P-8,0 T-3P-8,5 T-3P-9,0 T-3P-9,5 T-3P-10,0	0.187 – 0.209 0.207 – 0.228 0.226 – 0.248 0.246 – 0.268 0.266 – 0.287 0.285 – 0.307 0.305 – 0.327 0.325 – 0.346 0.344 – 0.366 0.364 – 0.386 0.384 – 0.406	N3P-2-270 或 /or N3P-HM2-270
10,25 – 10,80 10,75 – 11,30 11,25 – 11,80 11,75 – 12,30 12,25 – 12,80 12,75 – 13,30 13,25 – 13,80 13,75 – 14,30 14,25 – 14,80 14,75 – 15,30 15,25 – 15,80 15,75 – 16,30 16,25 – 16,80 16,75 – 17,30 17,25 – 17,80 17,75 – 18,30 18,25 – 18,80 18,75 – 19,30 19,25 – 19,80 19,75 – 20,30	T-3P-10,5 T-3P-11 T-3P-11,5 T-3P-12 T-3P-12,5 T-3P-13 T-3P-13,5 T-3P-14 T-3P-14,5 T-3P-15 T-3P-15,5 T-3P-16 T-3P-16,5 T-3P-17 T-3P-17,5 T-3P-18 T-3P-18,5 T-3P-19 T-3P-19,5 T-3P-20	0.404 – 0.425 0.423 – 0.445 0.443 – 0.465 0.463 – 0.484 0.482 – 0.504 0.502 – 0.524 0.522 – 0.543 0.541 – 0.563 0.561 – 0.583 0.581 – 0.602 0.600 – 0.622 0.620 – 0.642 0.640 – 0.661 0.659 – 0.681 0.679 – 0.701 0.699 – 0.720 0.719 – 0.740 0.738 – 0.760 0.758 – 0.780 0.778 – 0.799	N3P-3-310 或 /or N3P-HM3-310
20,25 – 20,80 20,75 – 21,30 21,25 – 21,80 21,75 – 22,30 22,25 – 22,80 22,75 – 23,30 23,25 – 23,80 23,75 – 24,30 24,25 – 24,80 24,75 – 25,30 25,25 – 25,80	T-3P-20,5 T-3P-21 T-3P-21,5 T-3P-22 T-3P-22,5 T-3P-23 T-3P-23,5 T-3P-24 T-3P-24,5 T-3P-25 T-3P-25,5	0.797 – 0.819 0.817 – 0.839 0.837 – 0.858 0.856 – 0.878 0.876 – 0.898 0.896 – 0.917 0.915 – 0.937 0.935 – 0.957 0.955 – 0.976 0.974 – 0.996 0.994 – 1.016	N3P-3-310 或 /or N3P-HM3-310
测量范围 Range = ± 0,6 mm 25,4 – 26,6 26,4 – 27,6 等等, 直到 /etc. till 54,4 – 55,6 55,4 – 56,6 56,4 – 57,6 等等, 直到 /etc. till 74,4 – 75,6 75,4 – 76,6 76,4 – 77,6 等等, 直到 /etc. till 99,4 – 100,6 100,4 – 101,6 101,4 – 102,6 等等, 直到 /etc. till 149,4 – 150,6	T-3P-26 T-3P-27 等等, 直到 /etc. till T-3P-55 T-3P-56 T-3P-57 等等, 直到 /etc. till T-3P-75 T-3P-76 T-3P-77 等等, 直到 /etc. till T-3P-100 T-3P-101 T-3P-102 等等, 直到 /etc. till T-3P-150	测量范围 Range = ± 0,024" 1.000 – 1.047 1.039 – 1.087 等等, 直到 /etc. till 2.142 – 2.189 2.181 – 2.228 2.220 – 2.268 等等, 直到 /etc. till 2.929 – 2.976 2.969 – 3.016 3.008 – 3.055 等等, 直到 /etc. till 3.913 – 3.961 3.953 – 4.000 3.992 – 4.039 等等, 直到 /etc. till 5.882 – 5.929	N3P-3-310 或 /or N3P-HM3-310

1) 3 点式测头测点嵌入硬质合金，夹角为 120°。
3 点式测头采用不同夹角的，及 3 点式盲孔
测头（碳钢测点）需要定制。

1) 3-point probes are carbide inserted, angular position 120°.
3-point probes with different angular position and
3-point blind bore probes (hard chromed) on request.



DIATEST-PA 测头，测量平行尺寸
4.7mm-41.1mm/0.185"-1.618"



质量可靠的保证
Safety through quality

**DIATEST-PA-probes to measure parallel distances
from 4.7 mm to 41.1mm/0.185" to 1.618".**

测量范围 Range	标准型式 Standard version		测量范围 Range	盲孔型式 Blind bore version	
mm	PA- 测头 ¹⁾ PA-probes ¹⁾ 订货号 Order Code	测针 Needles 订货号 Order Code	inch	PA- 测头 ¹⁾ PA-probes ¹⁾ 订货号 Order Code	测针 Needles 订货号 Order Code
4,7 – 5,3 5,2 – 5,8 5,7 – 6,3 6,2 – 6,8 6,7 – 7,3 7,2 – 7,8 7,7 – 8,3 8,2 – 8,8 8,7 – 9,3 9,2 – 9,8	T-PA-5,0 T-PA-5,5 T-PA-6,0 T-PA-6,5 T-PA-7,0 T-PA-7,5 T-PA-8,0 T-PA-8,5 T-PA-9,0 T-PA-9,5	N2-270 或 /or N-HM2-270	0.185 – 0.209 0.205 – 0.228 0.224 – 0.248 0.244 – 0.268 0.264 – 0.287 0.283 – 0.307 0.303 – 0.327 0.323 – 0.346 0.343 – 0.366 0.362 – 0.386	T-FB-PA-5,0 T-FB-PA-5,5 T-FB-PA-6,0 T-FB-PA-6,5 T-FB-PA-7,0 T-FB-PA-7,5 T-FB-PA-8,0 T-FB-PA-8,5 T-FB-PA-9,0 T-FB-PA-9,5	NFB2-270 或 /or NFB-HM2-270
9,4 – 10,6 10,4 – 11,6 11,4 – 12,6 12,4 – 13,6 13,4 – 14,6 14,4 – 15,6 15,4 – 16,6 16,4 – 17,6 17,4 – 18,6 18,4 – 19,6 19,4 – 20,6 20,4 – 21,6 21,4 – 22,6 22,4 – 23,6 23,4 – 24,6 24,4 – 25,6 25,4 – 26,6 26,4 – 27,6 27,4 – 28,6 28,4 – 29,6 29,4 – 30,6	T-PA-10 T-PA-11 T-PA-12 T-PA-13 T-PA-14 T-PA-15 T-PA-16 T-PA-17 T-PA-18 T-PA-19 T-PA-20 T-PA-21 T-PA-22 T-PA-23 T-PA-24 T-PA-25 T-PA-26 T-PA-27 T-PA-28 T-PA-29 T-PA-30	N3-310 或 /or N-HM3-310	0.370 – 0.417 0.409 – 0.457 0.449 – 0.496 0.488 – 0.535 0.528 – 0.575 0.567 – 0.614 0.606 – 0.654 0.646 – 0.693 0.685 – 0.732 0.724 – 0.772 0.764 – 0.811 0.803 – 0.850 0.843 – 0.890 0.882 – 0.929 0.921 – 0.969 0.961 – 1.008 1.000 – 1.047 1.039 – 1.087 1.079 – 1.126 1.118 – 1.165 1.157 – 1.205	T-FB-PA-10 T-FB-PA-11 T-FB-PA-12 T-FB-PA-13 T-FB-PA-14 T-FB-PA-15 T-FB-PA-16 T-FB-PA-17 T-FB-PA-18 T-FB-PA-19 T-FB-PA-20 T-FB-PA-21 T-FB-PA-22 T-FB-PA-23 T-FB-PA-24 T-FB-PA-25 T-FB-PA-26 T-FB-PA-27 T-FB-PA-28 T-FB-PA-29 T-FB-PA-30	NFB3-310 或 /or NFB-HM3-310
28,9 – 31,1 30,9 – 33,1 32,9 – 35,1 34,9 – 37,1 36,9 – 39,1 38,9 – 41,1	T-PA-30/5 T-PA-32 T-PA-34 T-PA-36 T-PA-38 T-PA-40	N5-350 或 /or N-HM5-350	1.138 – 1.224 1.217 – 1.303 1.295 – 1.382 1.374 – 1.461 1.453 – 1.539 1.531 – 1.618	T-FB-PA-30/5 T-FB-PA-32 T-FB-PA-34 T-FB-PA-36 T-FB-PA-38 T-FB-PA-40	NFB5-350 或 /or NFB-HM5-350

1) P 系列测头为普通碳钢镀硬铬
特殊设计可询价

1) P-probes are hard chrome plated
Special designs on request



服务于全世界的高质量产品
QUALITY PRODUCTS SERVING THE WORLD



islive 北京伊斯来福机电设备有限公司

北京市朝阳区八里庄西里1号远洋天地61号楼603室
邮编: 100025
Tel: 010-85868342/8, 85865481/2, 13701161985
Fax: 010-85865483;
E-mail: islive@china.com
Website: www.islive.com.cn

**DIATEST
Hermann Koltgen GmbH**

Schottener Weg 6
D-64289 Darmstadt
Tel. +49-6151-979-0
Fax +49-6151-979-111
E-mail: info@diatest.com
internet: www.diatest.com
Germany

DIATEST (U.K.) Ltd.

18 Avondale Ave
Hinchley Wood
Surrey KT 10 0DA
Phone +44-20-8398-1100
Fax +44-20-8398-9887
E-mail:
diatest@ukgateway.net
England

DIATEST-FRANCE S.A.R.L.

Z.I. Les Richardets
14, rue du Ballon
93165 Noisy-Le-Grand Cedex
Tél. +33-1-45.92.41.65
Fax +33-1-43.04.93.99
E-mail: info@diatest.fr
internet: www.diatest.fr
France

DIATEST Sverige

AB Hans Ehlers
Ranhammarsvägen 24
168 67 Bromma
Tel. 08-363060
Fax 08-362279
E-mail: m.ehlers@diatest.se
internet: www.diatest.se
Sweden

DIATEST USA

11 West College Drive
Arlington Heights, IL 60004
Phone 1-800-DIATEST
Phone +1-847-392-2060
Fax +1-847-392-2197
E-mail: diatest@aol.com
USA

DIATEST JAPAN Ltd.

15-29, 1-Chome Hitotsuya
Matsubara City
Osaka 580-0003
Phone +81-723-30-6661
Fax +81-723-33-8223
E-mail: info@diatest.jp
Internet: www.diatest.jp
Japan

**DIATEST DO BRASIL
Produtos de Medição Ltda**

R. Ulisses Cruz, nº 1.050/1052 -
CJ.06 - Tatuapé
Zip: 03077-000-São Paulo-SP-Brazil
Phone +55-11-6195-3100
Fax +55-11-6195-3101
E-mail: pedrols@celmar.com
Internet: www.diatest.com.br
Brazil

DIATEST BEIJING

Room 603, Ocean Business Center
No. 61 Balizhuang Xili, Chaoyang
District 100025 Beijing
Phone +86 1085865481/82
Fax +86 1085865483
E-Mail: islive@china.com
www.islive.com.cn