

CARY

SWISS

BMH & BMF MEASURING BENCH

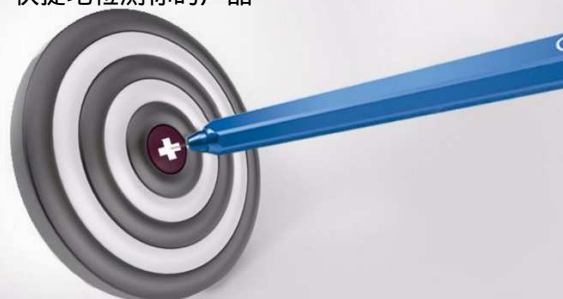
CARY 瑞士CARY牌测量工具、仪器

Control quickly and exactly your bores 精准、快捷地检测你的产品

Secure your ways of measure! CARY is now accredited SCS with an uncertainty of measure of 200 nanometers 确保您的测量结果精确

Discover the www.cary.ch made.

瑞士开利产品被SCS指定为
200纳米级测量产品



瑞士CARY台式精密测量仪

MEASURING BENCH

Perfection through precision
具有完美的精度



Manufacture and sale of measuring benches. The BMH (with a micrometer knob) , the bench with all options. The BMF (fixed head), the bench with excellent value quality price. Measuring range of 10mm. A hole of 8mm gives you the opportunity to put any electronic probing system.

我们制造并销售精密台式测量仪，BMH型（带千分尺旋钮）的台式测量仪，可以选装许多种规格设计测头。BMF型不带千分尺（可选装各种固定测头），有极佳的性价比。测量范围在10mm，并在可移动副测头动尺侧有8mm孔可以选装千分表或海德汉带光栅尺的电子测量头。

<http://www.sgstech.cn> email : sales@sgstech.cn

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BMH TECHNICAL FEATURE

A micrometer screw with rectilinear guiding Controls the movements of the fixed spindle. The element micrometer screw/precision divider is much appreciated by customers. This ingenious device eliminates errors due to the operator's interpretation. It guarantees a displacement's precision of within 1 μm .



Repeatability: < 0.5 μm 带有水平直线运动千分螺丝调整控制着固定端定尺侧的量程，这种机构是大多数顾客喜欢使用的。由于使用了杠杆复测机构，避免了操作人员读尺的误差，显示精度在1 μm 之内，从而保证重复精度 < 0.5 μm 。

Capacity of the micrometer 千分尺有效量程	12 mm
Total capacity 总量程	50 mm
Recoil movement of the adjustable anvil 杠杆复测量程	10 mm
Repeatability of the system 重复精度	< 0.5 μm
Standard measuring pressure 测量压力	700mN 700毫牛顿





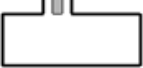




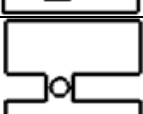
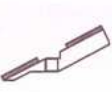
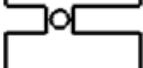

BMF TECHNICAL FEATURE

Using this configuration the micrometer is replaced by a simple spindle with a rectified screw allowing locking in any position. This characteristic allows measuring stand to work as a comparator.



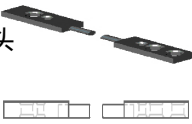
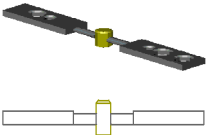
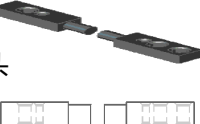
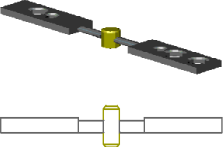
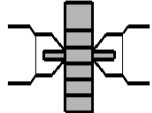
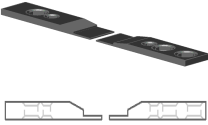
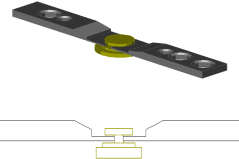
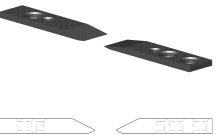
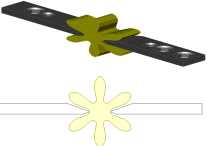
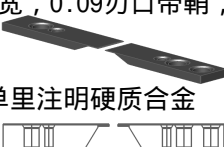
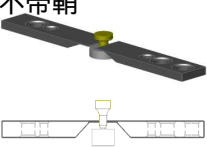
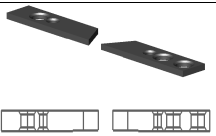
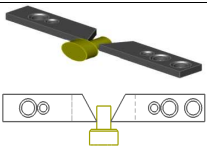
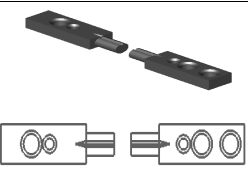
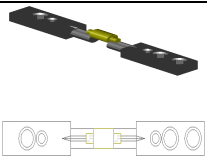
Repeatability: < 0.5 μm 使用这种机构，千分尺被简单由校正螺丝固定的不动定尺轴所取代并可依产品长度被固定螺丝锁紧。这种方式对使用比较测量最有效。重复精度 < 0.5 μm 。

辅助测量支撑台 MEASURE TABLE

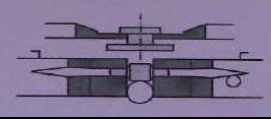
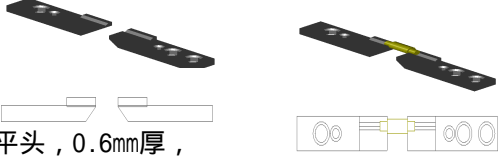
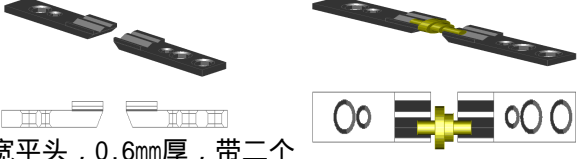
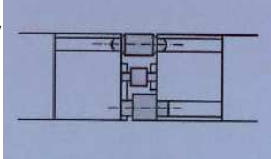
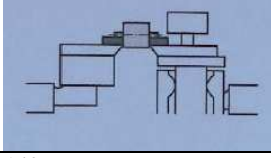
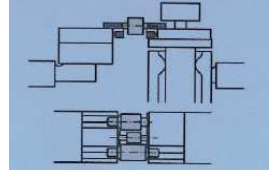
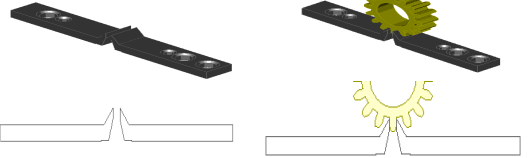
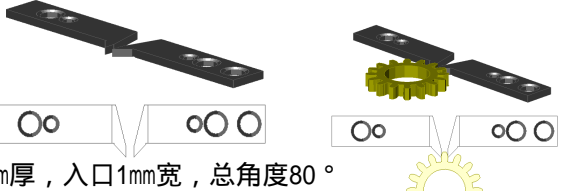
Ref	Tables / BMH-BMF		Tables / BMH-BMF	
BT 1		Small table 简单支撑台 Ø 16 mm	BT 6	 Table BT1 with small plate Tungsten carbide 有硬质合金的支撑台
BT 2		H shaped table with base Tungsten carbide H型有硬质合金的支撑台	BT8	 H shaped table hardened Steel with border H型有淬火钢框的支撑台
BT 21		Same as BT 2 + fine Adjustment for height	BT 81	 Same as BT8 +fine Adjustment for height
BT 4		H shaped table with long Tungsten carbide H型带长条硬质合金的支撑台	BT 9	 H shaped table hardened Steel with 3 bowls + border/ Front H型带三个硬点的支撑台
BT41		Same as BT 4 + fine Adjustment for height		
BT 5		H shaped table, hardened Steel H型淬火钢支撑台	BT 10	 Inclined table with tungsten carbide 可倾斜调整的支撑台
BT 51		Same as BT 5 + fine Adjustment for height	BT101	 same as BT10+ fine adjustment for height

BT X+1 意味着与BT X 是相同产品，但带有高度微调功能。

MEASURING ANVILS FOR OUTSIDE MEASURING

Characteristics 说明	Ref 货号代码	For Measuring of 用于测量什么	Recommended 推荐使用的 Table BT 辅助支撑台
2701.10.111			
Cylindrical diameter 1.2 mm 测量圆柱外径测头 tungsten carbide 硬质合金			Diameters of cylindrical components: pins, axes, stems, balls, spindles 1 - 4 - 5 - 8 - 9 测量圆柱、轴类、球 类零件外径的测头
2701.10.112			
Cylindrical diameter 2.0 mm 硬质合金测头 Tungsten carbide			Thickness fo Prismatic parts, Small plates, Strip and slips 1 - 4 - 5 - 8 - 9 超薄测头，测量超小 平面、条、沟等用途。
2701.10.121			
Diamond plates, Knife edge. 0.4 x 2mm 刀刃型钻石测头 0.4x2mm			Watch jewel Ø tracked counter - pivots Mounted on wire 4 - 10 测量手表宝石、轴类等
2701.10.122			
Flat, 3.5 mm wide, 0.4 mm thick, on request widths 0.1 - 1.5 mm, Tungsten carbide 0.4mm刀刃平头3.5mm宽测头 宽度0.1-1.5mm硬质合金			Ø and thickness of Watch jewels, barrels, squares 1 - 4 - 5 - 8 - 9 测量手表宝石、轴 径直径、厚度专用
2701.10.123			
40° knife edge, Width 3.5 mm Thickness 0.05 mm Tungsten carbide 40° 刀刃口，宽3.5mm，0.05厚的硬质合金测头			Ø of grooves, slot, Spindles, pinion 1 - 5 - 8 - 9 测量圆弧槽、齿轮齿根圆、轴径等
2701.10.124			
Flat, 3.5 mm wide, Bevelled 0.09 mm thick, without bevel 0.12 mm thick (please specify on order) tungsten carbide 3.5mm宽，0.09刃口带鞘，0.12mm不带鞘 在订单里注明硬质合金			Pivot, Ø in watch- making 2 - 21 用于测量轴径
2701.10.125			
Knife edge 0.05 x 1.5 mm Tungsten carbide 刀刃口0.05x1.5mm，硬质合金测头			Plug gauges Ø Measuring wires, axles 6 测轴径根部，测线径、轴类等。
2701.10.131			
Cylindrical Ø 2 mm, With groove at 90°, 0.3 mm deep. Tungsten carbide 带90°半圆形槽， 0.3mm深的硬质合 金测头。			Same as 112 + length between shoulders 1 - 4 - 5 - 8 - 9 用于测量轴肩距

MEASURING ANVILS FOR OUTSIDE MEASURING

Characteristics	Ref	For Measuring of	Recommended Table BT
2701.10.132			
Flat, 3.5 mm with 3.5mm平头, 带90° V型槽 Groove at 90°, 0.35mm深, 硬质合金 0.35 mm deep tungsten carbide		Same as 122 + Length between shoulders 专门用于测量轴径或轴肩距	1-4-5-8-9
2701.10.133			
Flat, 3.5 mm wide, 0.6 mm thick with 3.5mm平头, 0.6mm厚, 90° V型槽, 0.4mm深, 硬质合金 Groove at 90°, 0.4 mm deep tungsten carbide		Length between shoulders of axles, pivots and pinions 专测轴肩、轴径、轴尖和小轴	1-4-5-8-9
2701.10.134			
Flat, 3.5 mm wide, 0.6 mm thick with 3.5mm宽平头, 0.6mm厚, 带二个90° V型槽, 0.4、0.8mm深, 硬质合金 Groove at 90°, 0.40 and 0.80 mm deep tungsten carbide		Length between shoulders of axles, pivots and pinions, pivot Ø up to 1.5mm 专测轴肩、轴径、轴尖直径 1.5mm	1-4-5-8-9
2701.10.135			
Flat, 5mm wide, 0.6 mm thick 1 and 2 V at 90°, 0.4 mm deep, 0.12 mm thick v-supports tungsten carbide (v supports in hardened steel) 5mm平头, 0.6mm厚, 2个V型, 90° 槽深0.4mm, 0.12mm厚, V型槽是淬火钢支架, 整体是硬质合金		Length between Shoulder, length Between pins, Pin bearings, axles, rods, pinions 专测轴肩长度、轴长、滚针、轴类长度	1-5-8-9
2701.10.141			
Two 90° vees, 0.5 and 0.8 mm deep, Adjustable for Ø differences up to 1mm. Tungsten carbide 二个90° V型槽, 0.5mm、0.8mm深, 直径可调至1mm, 硬质合金		Lengths between shoulders of axles shanks and pinions with different pivot Ø 专测轴肩、轴柄长度	
2701.10.142			
1 and 2 v 90°, 0.6 mm deep and V support 0.12mm Thick, adjustable for Ø different up to 1mm, Tungsten carbide (v supports in hardened steel) 1和2槽为90° V型槽, 0.6mm深, V型支撑, 0.12mm厚, 可调直径至1mm, 硬质合金		Same as 135 同135	
2701.10.151			
Anvils 3.5mm wide, 1mm thick, antry 1.5mm, Total angle 70° Tungsten carbide 3.5mm齿厚专用测头, 入口高1.5mm, 总角度70°		Thickness of gear Teeth, smallest Module 0.05mm 专测齿厚, 最小0.05模数	1-5-8-9
2701.10.152			
Anvils 1mm wide, 1.5mm thick, side Entry 1.3mm, Total angle 80°, Tungsten carbide 齿厚专用测头, 1.5mm厚, 入口1mm宽, 总角度80°		Width of gear wheel teeth, smallest module 0.05mm 可测轮片齿厚, 最小0.05模数	6

BMF - HEIDENHAIN PROBE MT 1281 –METROM3 DISPLAY SET



BMF Measuring Bench BMF型台式精密测量仪



HEIDENHAIN-METRO MT 1281 海德汉光栅尺测量头MT 1281

Incremental length gauges with $\pm 0.2 \mu\text{m}$ accuracy s High repeatability s Plunger actuation by cable 重复精度 $\pm 0.2 \mu\text{m}$
release, by the work piece or pneumatically s Ball-bush guided plunger



Travel (12mm) 行程12mm
Plunger actuation (extended by spring force) 弹簧测头
Reference mark (1.7mm) 基准标注1.7mm
Accuracy (0.2um) 精度0.2 μm
Output (1Vpp) 1Vpp输出
Power supply (5+-5%) 电源5 \pm 5% (电压)
Protection (IP50) 防护等级IP50
Cable length (1.5m) 电缆长度1.5mm

METRO M3 专用显示器M3

Touch screen display Unit for 2 probes



The M3 is the last generation tool for
Dimensional control from 1 or 2 probes for the incremental
Heidenhain MT 1281
可以同时显示两台仪器的读值，应与海德汉光栅尺测量头MT1281共同使用。