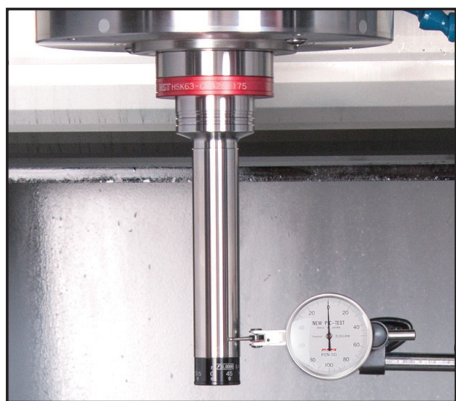




机床主轴保养用

测试棒 CHECKMATE

For machine spindle maintenance

TEST BAR CHECKMATE

推荐每月进行一次主轴检测

通过管理机床主轴的偏摆精度
实现更高精度的加工！
最大限度发挥刀柄性能！

- ☐ 中空, 轻量! (比传统产品轻20%) 操作简单!
- ☐ Z轴原点校正也很方便
- ☐ 价格合理

Periodically checking the run-out accuracy will result in superior machining.

The maintaining machine spindle run-out accuracy allows superior machining quality.
Maximizes tool holder performance!

- ☐ Light-weight(20% lighter), hollow design makes it easy to use.
- ☐ Ideal for setting Z axis datum.
- ☐ Reasonable price.



轻巧 CMA型

动平衡修正 (选配)
利用G2.5以下/30,000min⁻¹,
可检测动态精度 (标准品为10,000min⁻¹)

Handy CMA type

Allows you to check the dynamic accuracy thanks to optional balance adjustment to achieve less than G2.5 at 30,000min⁻¹. (standard: up to 10,000min⁻¹)

本体标注实际检测值!

长度	直径
偏摆精度	偏摆相位



The actual measurement values are marked on the body.

Length	Diameter
Runout accuracy	Phase of run-out

专业 CMB型

可以测试Z轴的垂直度及移动精度

Full-fledged CMB type

Z-axis deflection and spindle travel accuracy can be measured.



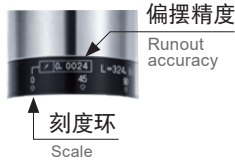
MST corporation

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测试棒 CHECKMATE的特长 Features of TEST BAR CHECKMATE

可精准检测主轴的偏摆精度及偏摆相位

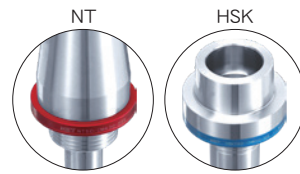
利用本体上所标注的实际检测值(偏摆精度和相位)可以进行精准检测。



You can recognize the exact run-out accuracy and the highest run-out of the spindle. You can check the spindle condition more precisely using the run-out value and position marked on the body.

任何相位都可安装

无驱动键槽, 任何相位均可检测。



It can be installed into the spindle in every phase.

There is no drive-key groove, so measurements can be made without worrying about the phase.

安心! 附带精度检查表

- 偏摆
- 长度
- 直径
- 圆柱度
- 真圆度

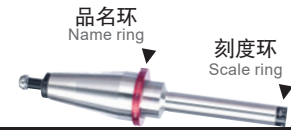
检查表
Inspection sheet

Reliable! The inspection sheet comes with the test bar.

- Run-out
- Length
- Diameter
- Cylindricity
- Roundness

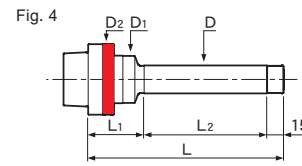
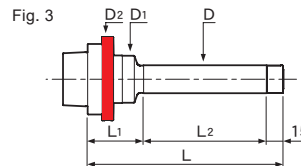
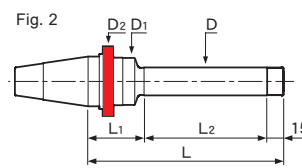
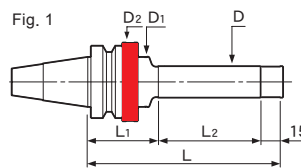
品名环和刻度环保护本体防止撞伤

即使横向放置锥柄部和直柄部也不会同桌面等直接接触。



The name ring and scale ring protect it from scratches and dents.

The taper area and straight area do not touch the table surface even if they are placed horizontally.



全品深冷处理, 延长使用寿命。
The sub-zero treatment prevents secular change.

	CODE	Fig.	φD	φD1	φD2	L	L1	L2	Kg
BT/CAT./DIN 专用 For both BT/CAT./DIN	NT30 -CMA20-125	1	20	32	50	125	45	65	0.7
	NT40 -CMA25-175	2	25	42	63	175	50	110	1.3
	NT50 -CMA30-225		30	53	80	225	65	145	3.5
	NT30 -CMB30-175	1	30	32	50	175	45	115	1.0
	NT40 -CMB40-325	2	40	42	63	325		265	2.8
HSK-A, HSK-E 专用 For both HSK-A and HSK-E	NT50 -CMB50-325		50	53	80		60	250	5.7
	HSK32 -CMA20-125	3	20	26	37	125	35	75	0.4
	HSK40 -CMA20-125			32	50		45	65	0.5
	HSK50 -CMA25-175		25	42	63	175	50	110	1.0
	HSK63 -CMA25-175	4							1.2
	HSK80 -CMA30-225		30	53	80	225	65	145	2.2
	HSK100 -CMA30-225				100				3.0
	HSK125 -CMA30-225				125				4.1
	HSK32 -CMB25-175	3	25	26	37	175	35	125	0.7
	HSK40 -CMB30-175		30	32	50		40	120	0.9
	HSK50 -CMB40-225		40	42	63	225	45	165	1.8
	HSK63 -CMB40-325	4				325		265	2.7
HSK-F 专用 Exclusive use for HSK-F	HSK80 -CMB50-325		50	53	80		60	250	4.4
	HSK100 -CMB50-325				100				5.2
	HSK125 -CMB50-325				125				6.3
	HSK63F -CMA25-175	4	25	42	63	175	50	110	1.2
	HSK80F -CMA30-225		30	53	80	225	65	145	2.3
	HSK63F -CMB40-325	4	40	42	63	325	45	265	2.7
	HSK80F -CMB50-325		50	53	80		60	250	4.5

■标准附属品

- 精度检查表

■选购品

- 冷却液导管(HSK-A) • 拉钉(BT/CAT./DIN)
- 动平衡修正 (仅限CMA型) G2.5以下/30000min⁻¹.
- NT50, HSK80, HSK100, HSK125为G2.5以下/20,000min⁻¹.
- ※订购时请在产品型号末尾标注BL (NT40-CMA25-175BL)

■备注

- NT锥柄系列通过更换拉钉, 也可用于BT/CAT./DIN主轴。
- HSK锥柄系列可对应HSK-A和HSK-E主轴。
- BT锥柄系列可使用市售拉钉。
- CAT./DIN锥柄系列需使用专用拉钉(下记)。
- ANSI, DIN, ISO锥柄系列无法使用市售拉钉。
- HSK-F锥柄系列是HSK-F主轴专用。
- 360° 任何相位均可安装(NT30系列仅限0° 和180°)。

■注意事项

- 无法进行ATC自动换刀(NT30除外)。

■Std. Access

- Accuracy inspection sheet

■Option

- Coolant duct(HSK-A) • Retention knob(BT/CAT./DIN)
- Balance adjustment (only for CMA type) G2.5 less than/30000min⁻¹.
- NT50, HSK80, HSK100 and HSK125 : G2.5 less than/20000min⁻¹.
- ※ Please order by adding "BL" to the end of the code.
- (Ex. : HSK63-CMA25-175BL)

■Note

- The NT shank is attachable to BT, CAT, and DIN spindles by changing a retention knob.
- The HSK shank is attachable to HSK-A and HSK-E spindles.
- Use a market standard retention knob for the BT spindle.
- Exclusive-use extension knobs are needed for CAT, and DIN spindles. (below)
- Commercial available ANSI, DIN and ISO pull studs cannot be used.
- The HSK-F shank is exclusive-use for the HSK-F spindle.
- Attachable to any phase in all directions of 360°.
- (The NT30 type is attachable only in the direction of 0° or 180°.)

■Caution

- A.T.C is not available. (except for NT30)

专用拉钉 Exclusive retention knob

CODE	柄锥 Shank
P-576	CAT.40
-575	CAT.50
-578	DIN40
-577	DIN50

MST corporation
日本恩司迪公司

1738 Kitatahara Ikoma Nara 630-0142 Japan
TEL: +81-743-78-1931 e-mail: info@mst-corp.co.jp

www.mst-corp.co.jp