

超高精度一体型热装刀柄

SHRINK-FIT HOLDER for superior accuracy solid type

热装式刀柄

SLIMLINE UNO

1 μm

偏摆精度. Run-out accuracy

★极限追求刀柄的加工精度，通过严格限制刀具柄径使用条件，实现最高等级的偏摆精度。

★最适于在超高速，超高精度加工中心上使用超小径微细刀具进行的加工。

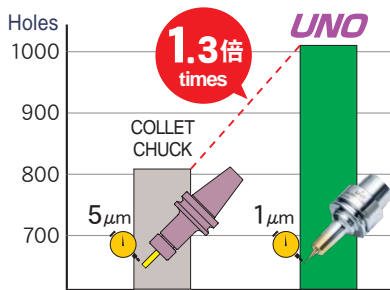
★Achieves a new degree of run-out accuracy thanks to improved holder production accuracy and cutter shank tolerance.

★Ideal for ultra high speed and high precision machining centers. Especially suitable for small and micro cutting tools.

偏摆精度
Run-out accuracy
0.5 μm



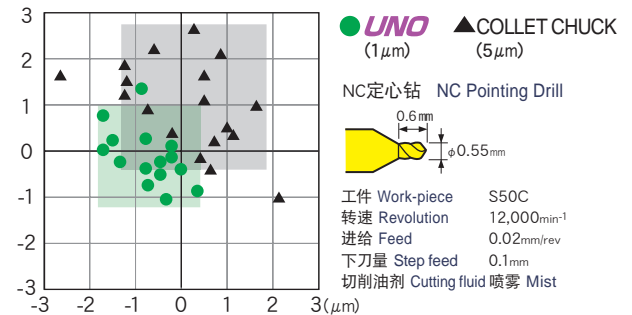
延长了刀具寿命 Extending cutter life



微钻 Micro Drill
0.6mm
 $\phi 0.04\text{mm}$

工件 Work-piece 陶瓷 Ceramics
转速 Revolution 12,000 min^{-1}
进给 Feed 0.7 $\mu\text{m}/\text{rev}$
下刀量 Step feed 4 μm
切削油剂 Cutting fluid 风冷 Dry

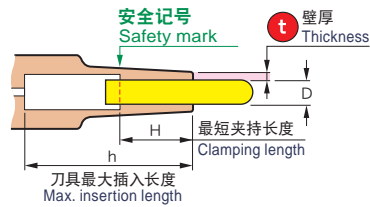
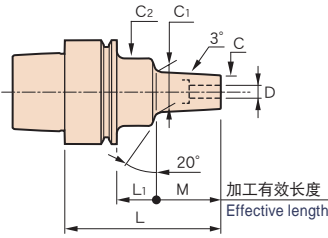
提高孔的位置精度 Positioning accuracy improvement



PAT.

MST corporation

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BLACK UNO

CODE	φD	φC	t	L	M	L ₁	φC ₁	φC ₂	H	h	Kg	(N)	S
E25-SLRA3-35 BU	3	7.5	2.25	35	17	8	9.3	18	9	29	0.05	0.37	2.3
-SLRA4-35 BU	4	10	3				11.8		12		0.06	0.38	1.4
-SLSA3.175-35 BU	3.175	6.175	1.5				8		9		0.05	0.37	3.5
E32-SLRA3-50-M22 BU	3	7.5	2.25	50	22	8	9.8	20	9	42	0.14	0.4	2.8
-SLRA4-50-M22 BU	4	10	3				12.3		12		0.15	1.7	
-SLSA3.175-50-M22 BU	3.175	6.175	1.5				8.5		9		0.14	4.4	

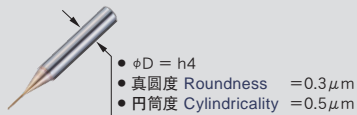
UNO

CODE	φD	φC	t	L	M	L ₁	φC ₁	φC ₂	H	h	Kg	(N)	S
E25-SLRA3-35 U	3	7.5	2.25	35	17	8	9.3	18	9	29	0.05	0.37	2.3
-SLRA4-35 U	4	10	3				11.8		12		0.06	0.38	1.4
-SLRA6-35 U	6	12	1.5				13.8		18		0.07	0.39	1.1
-SLSA3.175-35 U	3.175	6.175					8		9		0.05	0.37	3.5
E32-SLRA3-50-M22 U	3	7.5	2.25	50	22	8	9.8	20	9	42	0.14	0.4	2.8
-SLRA4-50-M22 U	4	10	3				12.3		12		0.15	1.7	
-SLRA6-50-M22 U	6	12	1.5				14.3		26		0.2	0.5	1.2
-SLSA3.175-50-M22 U	3.175	6.175					8.5		20		9	0.14	0.4
E40-SLRA3-50-M22 U	3	7.5	2.25	50	22	8	9.8	20	9	42	0.2	0.7	2.8
-SLRA4-50-M22 U	4	10	3				12.3		12		1.6		
-SLRA6-50-M22 U	6	12	1.5				14.3		26		1.2		
-SLSA3.175-50-M22 U	3.175	6.175					8.5		20		9	4.4	
E50-SLRA3-75-M22 U	3	7.5	2.25	75	22	27	9.8	25	9	65	0.5	1.7	2.8
-SLRA4-75-M22 U	4	10	3				12.3		12		1.7		
F63-SLRA3-75-M22 U	3	7.5	2.25	75	22	27	9.8	25	9	54	0.7	1.8	2.8
-SLRA4-75-M22 U	4	10	3				12.3		12		1.7		

- 选购品 ●3S气球 灰色(UNO)
- 标准附属品 ●3S气球 黑色(BLACK UNO) ●精度检查表
- 备考 ●可对应制作上表中没有的刀柄柄径和孔径(φD)。具体请向敝司垂询。(UNO)
- 注意事项 ●HSK-E, F锥柄的刀柄没有附带冷却液导管。如需使用, 请向敝司垂询。
- 刀具安装... 插入刀具时, 请务必将刀具插入比安全记号更深的位置。

- Option -3S balloon gray(UNO)
- Std. Access -3S balloon black(BLACK UNO) -Accuracy inspection sheet
- Note -Available for other shank designs and internal bore sizes(φD) not listed in this chart. For more information, please contact us.(UNO)
- Caution -A coolant duct is not installed on HSK-E and F type. Consult us if you need it.
- Setting cutters... Be sure to insert the tool beyond the Safety mark.

关于可使用刀具要求 Required cutter shank tolerance



推荐刀具厂商 Recommended cutting tools



3S 气球 3S balloon

可清扫热装刀柄内孔, 日常防止垃圾进入内孔。
Cleans the heat shrink internal bore and prevents the introduction of dust.

黑色(BLACK UNO)
Black

CODE	φd
BLB3	3
3.175	3.175
4	4
6	6



灰色(UNO)
Gray

CODE	φd
BLG3	3
3.175	3.175
4	4
6	6



BLACK UNO标准附属品
It comes with the BLACK UNO as a standard accessory.

主轴锥孔用 清洁工具 STAR DUST

For a spindle taper hole, cleaning tool STAR DUST



刀柄台 Holder Stand



请垂询弊司。Contact us if you need it.

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