

■Introduction

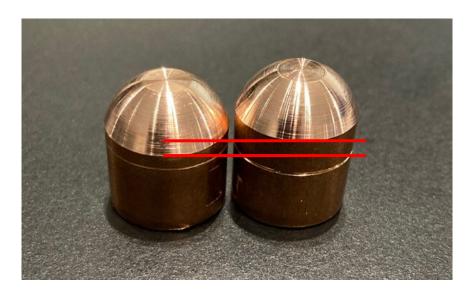
This manual indicates "Effects on Cutter / Holder by Improper Teaching" and describes about proper dressing method what we have known by our experiment.

**Only for results occurred by Push-up motion.

■Result of repetitive Push-up motions

1 Difference of dressing amount appeared (Moveable /Fixed)

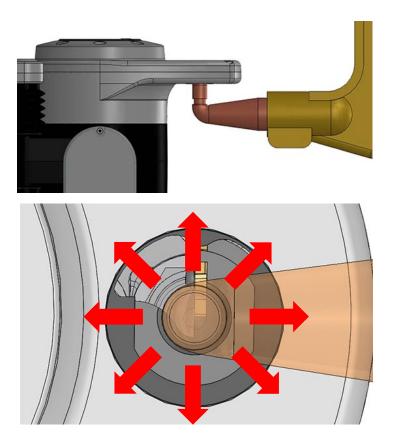
Since the fixed side tip is in contact with the cutter for a long time, there is a difference in the amount of grinding if repetitive Push-up motions are held.



%L: Fixed R: Moveable

2 Black residue remains on tip surface by deflection

Deflection occurs on gun / dresser by cap tip attaching only on one side of the holder.



Poor dress occurs by lack of dress time since a certain amount of time passes before the deflection is fixed.



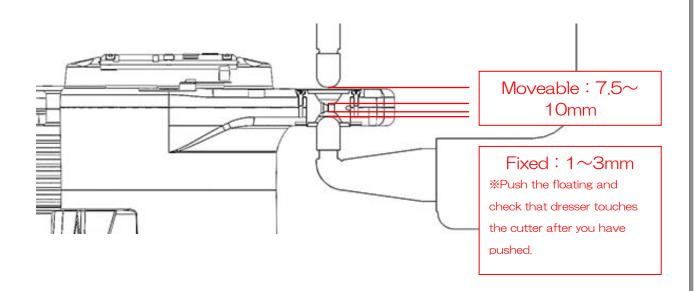
*Figure above shows the chip after repeated push-up motions. Radial marks can be confirmed.

Although not confirmed in this experiment, tips may remain surface-black or not circular.

■Proper Way to Dress

1 Proper position when starting to dress

*Start pressing as the image below. Do not push-up the lower side.



2 Pressing conditions.

Kyokutoh recommended pressing condition

Pressure	1470N (150kgf)	
	1sec	
Dress time	(1sec after reaching to the indicated	
	pressure)	
Abut speed	80~100mm/sec	
Release speed	50~80mm/sec	

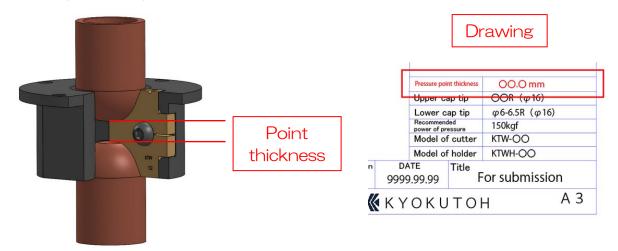
^{*}Insert speed should be fast to maintain the performance of cutter.

• About dressing time (Yasukawa, .etc)

Press type	Pressure	Note
Pre-press	150kgf	_
Main-press	150kgf	1sec
Finish-press	100kgf	-

*For dressing time / Abut speed setting unavailable robots, adjust the pressure / dress time based on actual dressing amount.

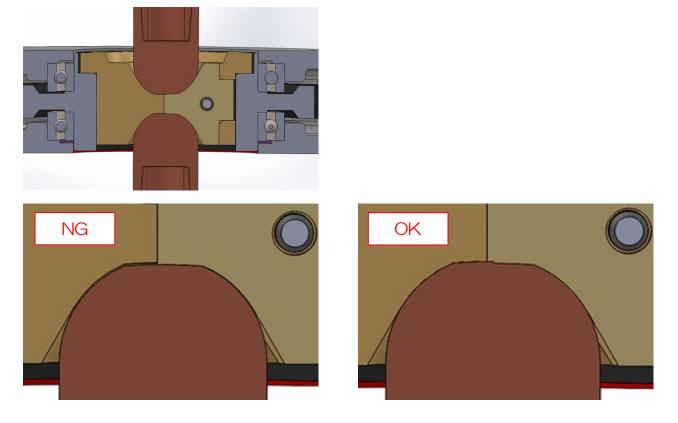
• About pressure point thickness (Fanuc, .etc) .



**For thickness setting available robots (Fanuc), see "Pressure point thickness" shown on our cutter / holder drawing.

3 About abutment.

Life of cutter may be shortened if pre-pressure is lower, which is often applied for equipment protection, but 150kgf is recommended.



In order to extend the life of the cutter, a certain power of pressure is necessary so that the cutter bites into the tip.