

Users Wanted!

Be the first to try the latest
development from NTK.

Swiss Tools for **Medical** Components

New Line up

Shaper insert

• Hexagon : **AF1.0 – AF1.4**



YouTube

Hexagonal hole machining tool for STICK DUO sleeve holder "SHAPER DUO" (Metric ver.)



Applications

- Dental Implants
- Bone Screws
- Medical device components

Work Materials : Titanium / Stainless steel / PEEK / TEFLON



Comparison Chart of HEX Socket Machining

	Tool Pressure	Cycle Time	Flexibility	Tool Cost	
Shaper Duo 		 * Can be off-set by over-wrapping operation			- Less tool pressure - especially on small diameter parts - One size can cover several socket sizes
Broach Tool					Need to have tools for each socket size

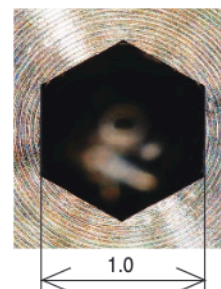
- Rotary-broach is an efficient way for Hexagon socket. But tool pressure is high and often times it pushes part too hard.
- SHAPER DUO can make Hexalobular(6-lobe) socket faster and simpler.



Processing condition

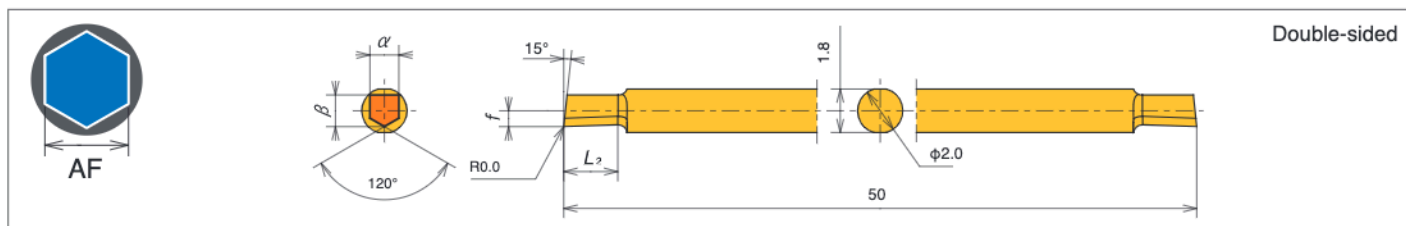
Machine : Swiss type
 Tool : TM4 TEST14-0179FN-1
 Feed : 3000mm/min,
 ap : 0.025mm(Rough), 0.005mm(Finish)

HEX size : 1,0mm
 Material : Ti-6Al-4V



Pilot hole	Starting "X" position	Final "X" position	Roughing pass	Finishing pass
0.9mm	0.895mm	1.155mm	6pass	1pass

Insert Bar -Hexagon-



We are in search of users to try the latest item development by NTK. No official release date yet.

(mm)

Sample items	HEX size range	Base AF	L2	α	β	f	Pilot hole
TM4 TEST14-0179FN-1	1.0 ~ 1.1	1.0	1.5	0.65	0.70	0.35	0.90
TM4 TEST14-0180FN-1	1.1 ~ 1.2	1.1	1.8	0.70	0.80	0.40	1.00
TM4 TEST14-0181FN-1	1.2 ~ 1.3	1.2	1.8	0.75	0.90	0.45	1.10
TM4 TEST14-0182FN-1	1.3 ~ 1.4	1.3	2.0	0.80	1.00	0.50	1.20

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CUTTING TOOLS

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