Troubleshooting

(Straight drill chuck)

	Details of the trouble	Cause	Pulled out of holder. Unable to attach fast to spindle or holder in case of MT shanl
1	Unable to mount collet.	① Wrong choice of collet.	① Check collet's type and size.
2	Unable to mount to spindle.	① Spindle dimension is different from standard dimension.	① Check spindle dimension.
		② SSMA nut is different from drilling chuck in size in case of using drilling chuck.	② Check the size of SSMA nut and drilling chuck.
		③ Tr nut is used in case of using drilling chuck.	③ Use of SSMA nut in case of using drilling chuck.
	Tool is pulled out during operation	① Large cutting resistance to chucking force.	 Revision of cutting conditions (Decrease cutting resistance. a : Higher rotation speed or lower feed rate (Approx. 20%) b : Lower cutting depth Shorter tool projection length Shorter chuck length
		② Insufficient tightening of cap nut	 ② Keep recommended torque value for tightening cap nut. Use torque wrench.
		③ Insufficient tightening of cup nut fromrotor ring's malfunction	 3 Replacement of cap nut
		 Insufficient tightening of cup nutbecause of increased friction. (Collapse of collet is not big enough.) 	(4) Apply oil (grease) on the thread part.
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ł	Poor runout accuracy during cutting	① Poor chucking accuracy of collet	① Replacement of collets
		② Dust seizing in collet insertion area	② Cleaning of collet insertion area
		③ Scratch or dent in chuck ID	 (3) Replacement of chuck or tool Touching up of area in question (rubbing off with sand pape #1000 and above) Correction (grinding) by NT TOOL is not possible. Ask NT for repair.
		G	④ Replacement of collets
		Insufficient chucking length 6	5 Keep minimum insertion length. (collet ID length must be filled.)
		Insufficient chucking length	© Replacement of tools
		Dust seizing in cap nut thread (8) Malfunction of rotor ring of cap nut (Rotor ring will not rotate smoothly.)	 ⑦ Cleaning of thread part, applying grease ⑧ Cleaning of cap nut (so that rotor ring will rotate smoothly) Replacement of cap nuts
5	Chattering	① Cutting resistance is too high in comparison with chuck's rigidity.	 Revision of cutting conditions (Decrease cutting resistance. a : Higher rotation speed or lower feed rate (Approx. 20%) b : Lower cutting depth Shorter tool projection length Shorter chuck length

-	Unable to lock when combined with drilling chuck.	① Tr nut is used.	① Use of SSMA nut.