

# Troubleshooting

## (Adjustable adapter)

	Details of the trouble	Cause	Pulled out of holder. Unable to attach fast to spindle or holder in case of MT shank.
1	Unable to install or fasten tool.	① Seized or adhered chip and dust to adapter ID and tool shank part.  ② Adhered oil to adapter ID and tool shank part.  ③ Wrong morse taper size.  ④ Scratch or dent in adapter ID and tool shank  ⑤ Poor taper contact in tool shank part.	① Cleaning of adapter ID and tool shank  ② Cleaning (degreasing) of adapter ID and tool shank part.  ③ Check morse taper size.  ④ ・Replacement of adapter or tool ・Touching up of area in question (rubbing off with sand paper #1000 and above) Correction (grinding) by NT TOOL is not possible.  ⑤ Replacement of tools.
2	Poor holding accuracy	① Seized or adhered chip and dust to adapter ID and tool shank part.  ② Scratch or dent in adapter ID and tool shank  ③ Poor accuracy of tool	① Cleaning of adapter ID and tool shank  ② ・Replacement of adapter or tool ・Touching up of area in question (rubbing off with sand paper #1000 and above) Correction (grinding) by NT TOOL is not possible.  ③ Replacement of tools.
3	Unable to pull out cutting tool.	① Large thrust resistance causes taper to stick fast to cutting tool.	① ・Use of cotter or hitting hard from tool tongue side. ・Revision of cutting conditions (Decrease cutting resistance.) a. Higher rotation or lower feed rate (Approx. 20%)
4	Unable to turn nut.	① Seizing of foreign matters in threadarea  ② Lock screw is not loosened.  ③ Internal part (spring ring) breakage caused by over-tightened lock screw.	① Cleaning of thread part  ② Loosening of lock screw.  ③ Ask NT for repair.
5	Key is pulled out.	① Abrasion and deformation of key.	① Replacement of key.
6	Unable to set adapter in spindle or side lock holder (SLB type).	① Inappropriate key dimension. ・Wrong holder selection.  ・Defective spindle.  ② Chosen adapter is not fitting to spindle shape.	① ・Check key dimension.  ・Check spindle dimension. (Contact the manufacturer.)  ② Check spindle dimension.
7	Unable to set adapter in drilling chuck.	① Different SSMA nut size.  ② Tr nut is used.	① Check SSMA nut size.  ② Replacement with SSMA nut.
8	Tool is pulled out during machining.	① Seized or adhered chip and dust to adapter ID and tool shank part.  ② Adhered oil to adapter ID and tool shank part.  ③ Poor taper contact in tool shank part.	① Cleaning of adapter ID and tool shank  ② Cleaning (degreasing) of adapter ID and tool shank part.  ③ Replacement of tools.

9	Adapter is pulled out of spindle or sunk during machining.	<p>① Tr nut is not in contact with spindle end surface.</p> <p>② Loosened side lock screw caused by machining vibration.</p> <p>③ Nut's lock screw is left untightened.</p>	<p>① Insert adapter until Tr nut touches spindle end surface.</p> <p>② Revision of cutting conditions (Decrease cutting resistance.) a. Higher rotation or lower feed rate (Approx. 20%)</p> <p>③ Tightening of nut's lock screw.</p>
10	Machining accuracy is not stable.	<p>① Cutting resistance is too large.</p>	<p>① Revision of cutting conditions (Decrease cutting resistance.) a. Higher rotation or lower feed rate (Approx. 20%)</p>
11	Body is cracked.	<p>① Thrust load from cutting is too big.</p>	<p>① Revision of cutting conditions (Decrease cutting resistance.) a. Higher rotation or lower feed rate (Approx. 20%)</p>