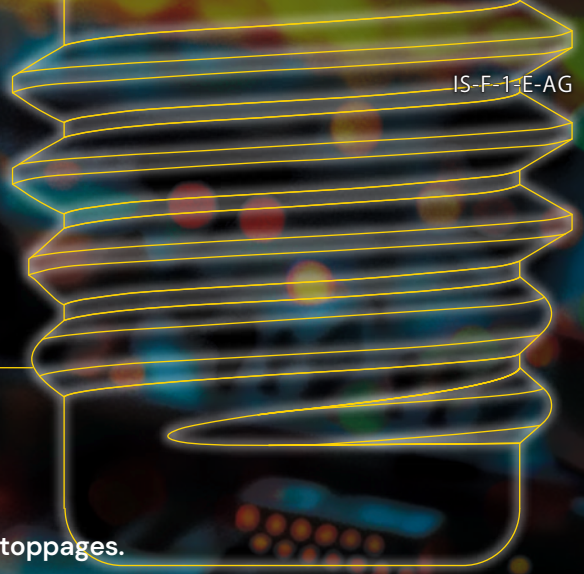
NITTOSEIKO

IS-F-1-E-AG



Are you facing any of these challenges?

- Screws enter at an angle and become cross-threaded.
- Expensive products must be scrapped when defects occur.
- Automated fastening equipment experiences frequent minor stoppages.
- Rework is difficult for AI servers and precision equipment.
- Assembly quality varies from operator to operator.

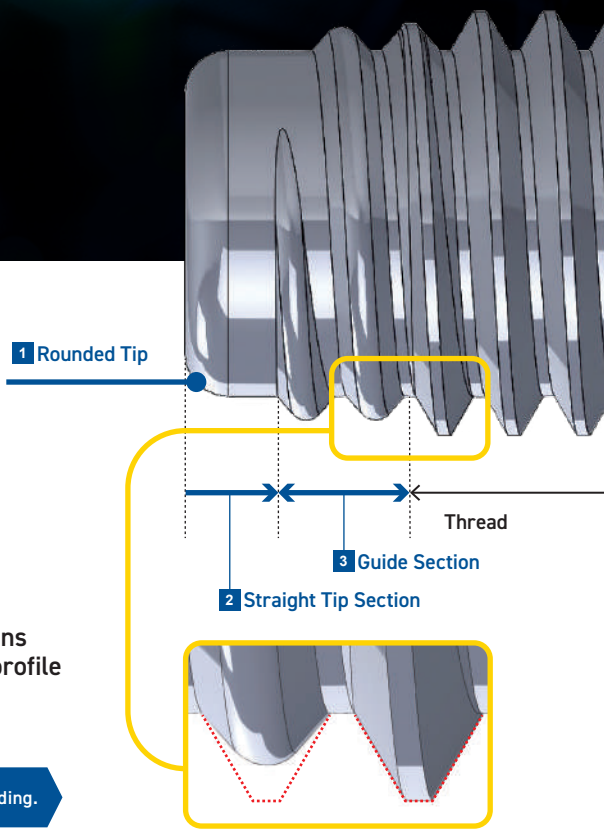
A Better Screw Point for Better Assembly Quality.

Anti-cross-threading screw

AG point

AGpoint Solution !

Comprehensively addresses the typical causes of cross-threading.



Unique “Alignment Guide” tip profile

1 Rounded Tip	→ Smooth insertion	Integrates three functions into one tip profile
2 Straight Tip Section	→ Stabilizes screw orientation	
3 Guide Section	→ Helps prevent cross-threading	

Reduces the risk of rework, product waste, and production line stoppages caused by cross-threading.

Product Specifications

Anti-cross-threading screw

AGpoint

- Nominal diameter : M3–M6
- Materials : Steel, copper, aluminum, etc.



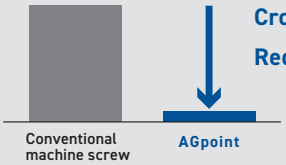
Other specifications are also available upon request.

Quantitative Results

Test Results

Screws used in the test : M5 × 20 Phillips pan head machine screws and AGpoint of the same dimensions.

Screws Used in the Test	Cross-Threading Occurrences
Conventional machine screw	**95/100**
AGpoint	**4/100**



Cross-Threading Occurrence Rate Reduced by 91%

Screw Fastening Conditions

Test Equipment : AX-050 (in-house equipment), Thrust Force : 49N, Rotational Speed : 300 rpm, Torque : 0.7 N·m,
Mating Part : M5 tapped hole (thread-rolled), Screw Axis Inclination : 5°

Benefits

Improved Quality

Reduces fastening defects caused by cross-threading

Cost Reduction

Reduces rework time

Reduced Product Waste

Reduces losses of high-value products

Improved Productivity

Reduces the risk of production line stoppages

Applications



AI Servers & Data Centers

Improves assembly quality for high-value electronic equipment



Automotive

Stabilizes high-volume production processes



Consumer Electronics & Precision Equipment

Reduces variation in fastening quality



Automatic Screw Driving Equipment

Improves compatibility with unmanned and labor-saving production lines

NITTOSEIKO CO.,LTD.

Fastener Division
Global Sales Section

Website : https://global.nittoseiko.com/

【Website】 【Inquiry Form】

IATF16949 JP18/063026

ISO9001 JP17/062866

ISO14001 E0954
*Registered Scope
·Main Factory
·Yata Factory

Trademarks which attached "®" are registered in Japan and/or other countries.