

Self tapping fastener for soft, thermo plastic
(No metal insert required)

nonsert®

**4th Generation self tapping fastener
for soft, thermo plastic!**



SY non-sert® for SANYO DENKI FAN "SAN ACE"



Page 10

**Sharp Thread
Angle 30°**

Repeatable

**Low driving &
High Failure Torque**

**No idling!
No cracking!**



— HIGH SPEED & HIGH QUALITY —
SAIMA CORPORATION



4th Generation tapping screw for soft, thermo plastic!



SY non-sert® for SANYO DENKI fan "SAN ACE"



See page 10 for more detail.

Contact us



HIGH SPEED & HIGH QUALITY

SAIMA CORPORATION

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 www.saima.co.jp

 info@saima.co.jp



Applicable:
SAJ Head Quarter



Non-sert is all ROHS compliance



Feature

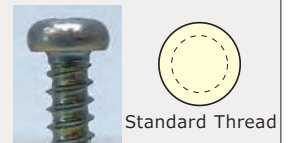
- ★No metal insert required. Cost reduction.
- ★Easy to recycle without metal insert.
- ★Cracking is not expected.
- ★Repeatable on the same pilot hole.
- ★Low torque driving, low stress for plastic.

Fastening about Resin, Plastic and Engineering Plastic

Plastics are much weaker than steel screw. Therefore, to prevent the plastic from breaking or cracking, SAIMA strongly recommend to use "specialized screw for plastic."

1st Generation: JIS B 1122 class 2

Suitable for thin plate and plastic fastening as per JIS B 1122 appendix. Widely distributed as a standard tapping screw. Average performance.

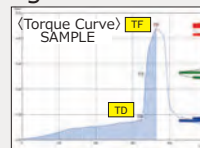


2nd Generation: B-type

Advanced form of JIS B 1122 Class 2, with trilobular thread, same thread angle (60 degree) and pitch.

Tightening Torque is lower than 1st generation according to torque analysis result.

Suitable for thin plate and plastic fastening.



3rd Generation: P-type

Double threaded with 45° thread angle, wider thread compared with B-type and trilobular thread.

Double started thread makes the fastening speed twice as high, but loosens faster once the screw starts loosening.

TF* point and TD* point higher, so we have to pay attention to F/D ratio. Using repeatedly on the same pilot hole is not recommended.

TD: Torque of Driving

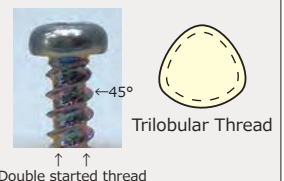
Min. Torque for fastening

TF: Torque of Failure

Torque for breaking counter material. It includes idling and cracking.

TS: Torque of Setting

Best Torque of Setting



Double started thread

4th Generation: non-sert®

Single threaded same as 1st and 2nd Generation with 30 degree thread angle, trilobular thread shape and large pitch. Lowest TD in all generations.

Low stress against the plastic part. TF is lower than 3rd Generation, but mostly F/D ratio indicate higher, these results conclude that using

non-sert® is safe and best for plastic fastening. Above all, non-sert® is the best screw for repeat use on the same pilot hole.



non-sert®



1

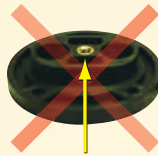
Point

No metal insert required

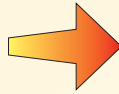
Possible to reduce the cost without metal insert.

No need countersinking process & expense for the metal insert.

→ nonsert® will help you to save total cost and time.



Metal insert



No metal insert required!

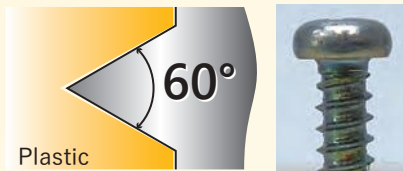
2

Point

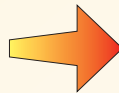
Sharp thread angle "30°"

Less stress and cracking on your plastic product.

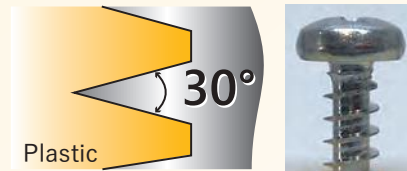
JIS Tapping Screw



High Stress



nonsert®



Low Stress

3

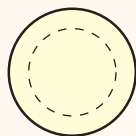
Point

Best for repeat use

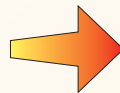
Trilobular thread = Low driving torque = less stress on the plastic.

→ nonsert® can be used repeatedly on the same pilot hole.

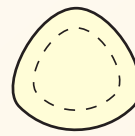
JIS Tapping Screw



Standard thread



nonsert®



Trilobular thread

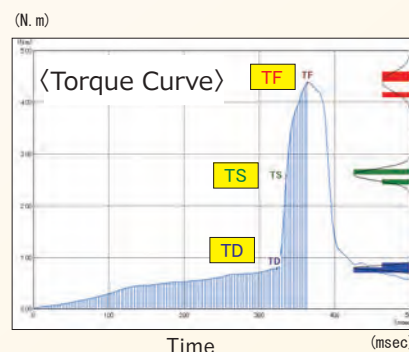


4
Point

Low driving torque[TD] & High failure torque[TF]

Trilobular thread & sharp thread angle "30°"
achive low TD & high TF.

That provide you more safety for designing.



5
Point

Pilot hole dia. & Torque of setting

Torque Analyzer will...

- ◆ Find the best hole dia.
- ◆ Find the best setting torque

Please feel free to ask us if you're annoyed
with cracking & idling.



6
Point

Special Seminar for Torque Analysis

SAIMA is holding a special seminar of torque analyzer
about 3 major topics(Hole dia., torque, and tapping
screw) to decide which tapping screw is the best on
your product. Visit [www.saima.co.jp/en/top.php] for
more detail.



Applications

Small tube pump
by Welco Co., Ltd



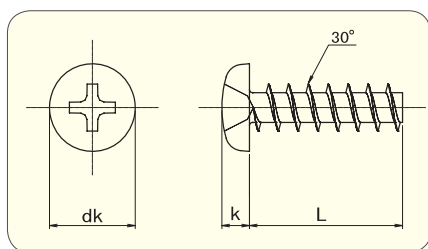
Gas Alarm by Hochiki Corporation



Warehouse trolley



Cross recess pan head non-sert®



◆ #0 Pan Head ◆

- Material Steel
- Surface Black Ni
- Standard #0 Pan Head



	1.4	1.6
dk	2.5	3
k	0.5	0.5
drive#	0	0

Size		Part#	Pkg Q'ty	Box Q'ty
d	L			
1.4	3	NS011403BNi	100	1,000
	4	NS011404BNi	100	1,000
	5	NS011405BNi	100	1,000
	6	NS011406BNi	100	1,000
1.6	4	NS011604BNi	100	1,000
	5	NS011605BNi	100	1,000
	6	NS011606BNi	100	1,000
	8	NS011608BNi	100	1,000

Small tube pump
by Welco Co. Ltd.



◆ ISO spec. Pan Head ◆

- Material Steel
- Surface 3Cr
- Standard ISO spec. Pan Head



	2	2.5	3	4	5	6
dk	4	5	5.6	8	9.5	12
k	1.6	2.1	2.4	3.1	3.7	4.6
drive#	0	1	1	2	2	3

Size		Part#	Pkg Q'ty	Box Q'ty
d	L			
2	5	NS010205	100	3,500
	6	NS010206	100	3,000
	8	NS010208	100	2,500
	10	NS010210	100	2,000
2.5	6	NS012506	100	1,700
	8	NS012508	100	1,400
	10	NS012510	100	2,400
	12	NS012512	100	2,000
3	14	NS012514	100	1,800
	6	NS010306	100	5,000
	8	NS010308	100	4,000
	10	NS010310	100	3,500
4	12	NS010312	100	3,000
	14	NS010314	100	2,500
	16	NS010316	100	2,000
	20	NS010320	100	1,600
5	8	NS010408	100	2,000
	10	NS010410	100	1,500
	12	NS010412	100	1,500
	14	NS010414	100	1,300
6	16	NS010416	100	1,000
	20	NS010420	100	800
	25	NS010425	100	800
10	10	NS010510	100	1,000
	12	NS010512	100	900
	14	NS010514	100	800
	16	NS010516	100	700
12	20	NS010520	100	600
	25	NS010525	100	500
14	12	NS010612	100	500
	14	NS010614	100	500
	16	NS010616	100	400
	20	NS010620	100	400

Cross recess pan head non-sert®

◆ JIS spec. Pan Head ◆

- Material Steel
- Surface 3Cr
- Standard JIS spec. pan head



	3
dk	5.5
k	2.0
drive#	2

Size		Part#	Pkg Q'ty	Box Q'ty
d	L			
3	6	NS010306#2	100	5,000
	8	NS010308#2	100	4,000
	10	NS010310#2	100	3,500
	12	NS010312#2	100	3,000
	14	NS010314#2	100	2,500
	20	NS010320#2	100	1,500
	22	NS010322#2	100	1,500

- Material StainlessA2
- Surface Passivation
- Standard JIS spec. pan head

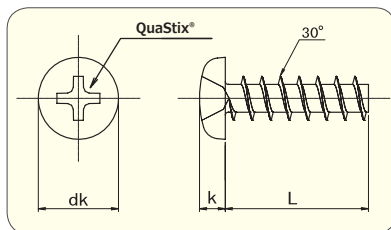


	3	4
dk	5.5	7
k	2.0	2.6
drive#	2	2

Size		Part#	Pkg Q'ty	Box Q'ty
d	L			
3	6	NS010306JA2	100	6,000
	8	NS010308JA2	100	5,000
	10	NS010310JA2	100	4,000
	12	NS010312JA2	100	3,500
	14	NS010314JA2	100	3,000
	16	NS010316JA2	100	2,500
4	8	NS010408JA2	100	2,600
	10	NS010410JA2	100	2,200
	12	NS010412JA2	100	2,000
	14	NS010414JA2	100	1,700
	16	NS010416JA2	100	1,400
	20	NS010420JA2	100	1,200

Prevent tools from CAM-OUT

◆ "QUA" non-sert® ◆



- Material Steel
- Surface 3Cr
- Standard JIS spec. pan head



	3	4
dk	5.5	7
k	2.0	2.6
QS Bit No.	2	2



Size		Part#	Pkg Q'ty	Box Q'ty
d	L			
3	6	NS010306JQ	100	5,000
	8	NS010308JQ	100	4,000
	10	NS010310JQ	100	3,500
	12	NS010312JQ	100	3,000
4	8	NS010408JQ	100	2,600
	10	NS010410JQ	100	2,200
	12	NS010412JQ	100	2,000
	14	NS010414JQ	100	1,700
	16	NS010416JQ	100	1,400



QuaStix®

- ◎ Hardly ever CAM-OUT
- ◎ Good torque transmission
- ◎ Bit fit stably
- ◎ Standard cross recess driver is also applicable

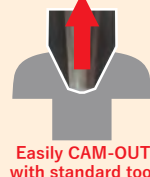
◎ Prevent tools CAM-OUT

Recess is circular-curved with no draft angle.

[QuaStix®]

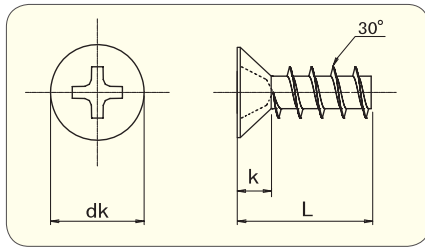


[Standard cross recess]



"Qua" Special bit tool

Cross recess flat head non-ser[®]



- Material Steel
- Surface 3Cr

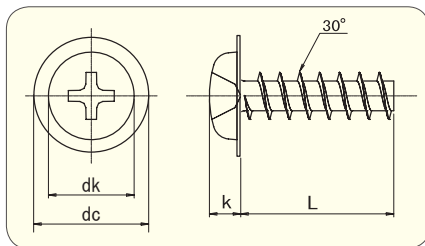


	3	4
dk	6	8
k	1.75	2.3
drive#	2	2



Size		Part#	Pkg Q'ty	Box Q'ty
d	L			
3	8	NS020308	100	5,000
	10	NS020310	100	4,000
	12	NS020312	100	3,500
4	8	NS020408	100	2,500
	10	NS020410	100	2,000
	12	NS020412	100	1,800

Cross recess washer head non-ser[®]



- Material Steel
- Surface 3Cr

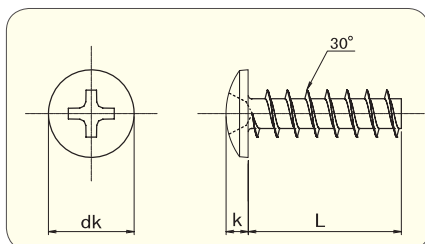


	3
dk	5.5
dc	8
k	2.3
drive#	2

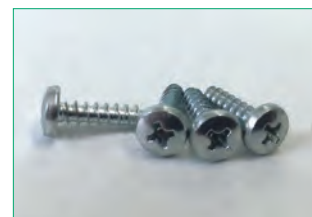


Size		Part#	Pkg Q'ty	Box Q'ty
d	L			
3	6	NS010306WH#2	100	3,000
	8	NS010308WH#2	100	2,500
	10	NS010310WH#2	100	2,000
	12	NS010312WH#2	100	2,000
	14	NS010314WH#2	100	1,500
	20	NS010320WH#2	100	1,000
	22	NS010322WH#2	100	1,000

Cross recess binding head non-ser[®]



- Material Steel
- Surface 3Cr



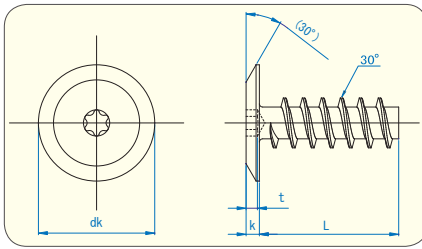
	3
dk	6.3
k	1.9
drive#	2



Size		Part#	Pkg Q'ty	Box Q'ty
d	L			
3	6	NS030306	100	4,500
	8	NS030308	100	3,500
	10	NS030310	100	3,000
	12	NS030312	100	2,500
	14	NS030314	100	2,000
	20	NS030320	100	1,500
	22	NS030322	100	1,300

Self Tapping Fastener for Soft, Thermo Plastic **nonsert®**

310Slim® non-sert®



- Help to optimize a compact design by making the head part nearly flat.
- No countersinking required. Save the cost.
- 6-lobe recess(hexalobular JIS B 1015/ISO 10664)

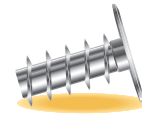
	3	4	5
dk	7	8	9
k	0.8	0.9	1.0
t(min)	0.5	0.5	0.6
drive#	T6	T8	T10



- Material Steel
- Surface 3Cr
3Cr Black



Size		Part#		Pkg Q'ty	Box Q'ty
d	L	3Cr	3Cr Black		
3	6	NS010306SH	NS010306SHBK	100	5,000
	8	NS010308SH	NS010308SHBK	100	4,000
	10	NS010310SH	NS010310SHBK	100	3,000
4	8	NS010408SH	NS010408SHBK	100	2,500
	10	NS010410SH	NS010410SHBK	100	2,000
	12	NS010412SH	NS010412SHBK	100	1,900
5	10	NS010510SH	NS010510SHBK	100	1,700
	12	NS010512SH	NS010512SHBK	100	1,400



Alcohol Detection System
by Tokai Denshi Inc.



SY non-sert® for SANYO DENKI FAN "SAN ACE"

This is a special non-sert® developed together with SANYO DENKI for SANYO DENKI FAN "SAN ACE." Small Pan Head type and 120° Flat Head type.

These SY non-sert® are recommended by SANYO DENKI Co., Ltd for assembling SAN ACE.

Please refer to SANYO DENKI's technical data for fastening torque & hole dia information.



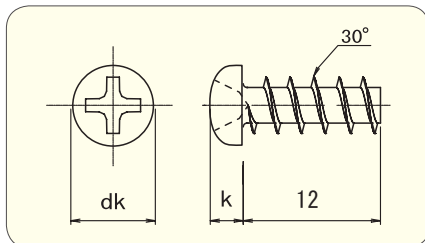
Small Pan Head



120° Flat Head



Cross recess pan head self tapping screw for SANYO DENKI FAN [SY non-sert®]



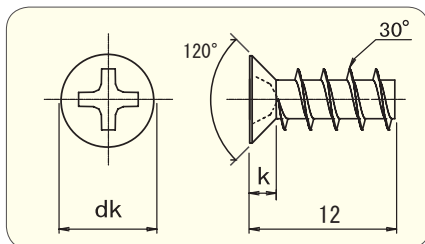
- Material Steel
- Surface 3Cr



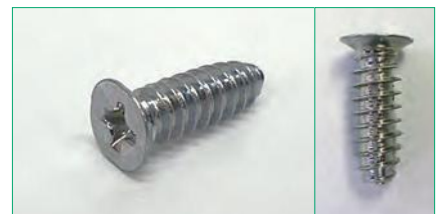
Part#	nominal dia.	L	dk	k	drive#	Box Q'ty
SY-NS010412P11	4	12	5.5	2.0	2	2,000
SY-NS014812P15	4.8	12	7.0	2.6	2	1,400
SY-NS010512P15	5	12	7.0	2.6	2	1,200



Cross recess 120° flat head self tapping screw for SANYO DENKI FAN [SY non-sert®]



- Material Steel
- Surface 3Cr



Part#	nominal dia.	L	dk	k	drive#	Box Q'ty
SY-NS020412P11	4	12	6.2	MAX1.1	2	2,000
SY-NS024812P15	4.8	12	6.8	MAX1.2	2	1,800
SY-NS020512P15	5	12	6.8	MAX1.2	2	1,600



About us

Company **SAIMA CORPORATION(SAJ)**

Overseas Trading Division **310express Company**

Established January, 1952

Board Members
 CEO Takashi Saima
 SMD Hiroshi Saima
 Chairman Masaru Saima
 Director GM Toshinori Ooba
 Director Sales & Marketing Manager Tadao Matsumoto
 Director Accounting Manager Hitomi Saima
 Auditor Tomiko Saima

Number of Employee 50(Whole group)

Capital JPY 10,000,000-



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*SPC Members : Saima Premium Club Members



— HIGH SPEED & HIGH QUALITY —
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2020.02



Applied:
SAJ Head Quarter