

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

nonsert®

4th Generation self tapping screw
for soft, thermo plastic!



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



Sharp Thread
Angle 30°

Repeatable

Low driving &
High Failure Torque

No idling!
No cracking!



— HIGH SPEED & HIGH QUALITY —
SAIMA CORPORATION



4th Generation Self tapping screw for soft, thermo plastic!



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



Contact us



HIGH SPEED & HIGH QUALITY

SAIMA CORPORATION

2-9-17 Tsujido, Fujisawa, Kanagawa, 251-0047, Japan
TEL:+81-466-36-3656 FAX:+81-466-36-0009

www.en.saima.co.jp

export@saima.co.jp



Non-sert is all ROHS compliance



Feature

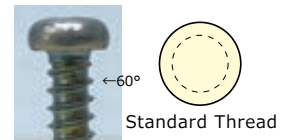
- ★No metal insert required. Cost reduction.
- ★Easy to recycle without metal insert.
- ★Less cracking.
- ★Repeatable on the same pilot hole.
- ★Low torque driving, low stress for plastic.

Fastening about Resin, Plastic and Engineering Plastic

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

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.

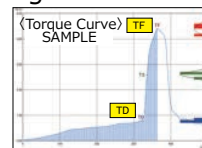


2nd Generation: B-type

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. Fastening speed is high due to double thread but it also means losing quickly.

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

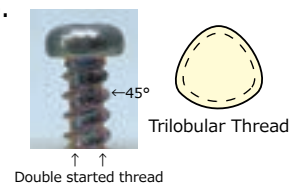
Min. Torque for fastening

TF: Torque of Failure

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

TS: Torque of Setting

Best Torque of Setting

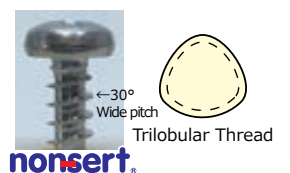


4th Generation: non-sert®

Single threaded same as 1st and 2nd Generation but difference is **30 degree thread angle, trilobular thread and large pitch.**

Lowest TD in all generations.

Low stress against the mating material. 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.





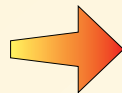
1
Point

No metal insert required

Possible to reduce the cost without metal insert.
 No need to remove metal insert when you recycle.
 → **non-sert® will help you to save total cost and time.**



Metal insert



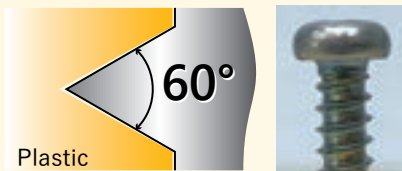
No metal insert required!

2
Point

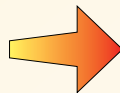
Sharp thread angle "30°"

Less stress and cracking on your plastic product.

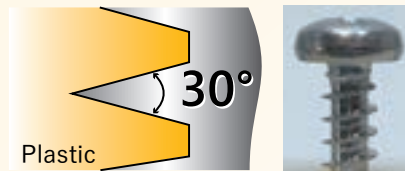
JIS Tapping Screw



High Stress



nonsert®



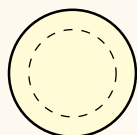
Low Stress

3
Point

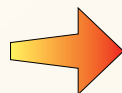
Best for repeat use

Trilobular thread = Low driving torque = less stress on the plastic.
 → **non-sert® can be used repeatedly on the same pilot hole.**

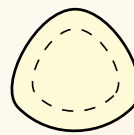
JIS Tapping Screw



Standard thread



nonsert®



Trilobular thread

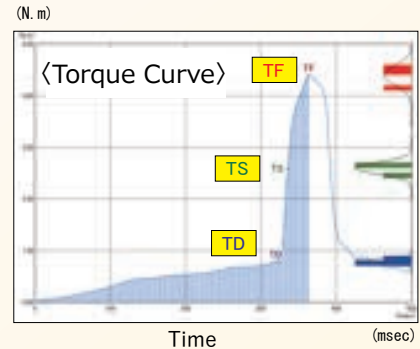


4
Point

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
- ◆ Tapping screw

Please feel free to ask us if you're annoyed
when development doesn't go well or need
to shorten development time.



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 our web site for more detail.



Applications

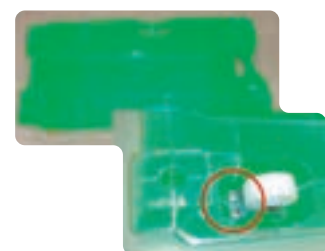
Small tube pump
by Welco Co., Ltd



Gas Alarm by Hochiki Corporation

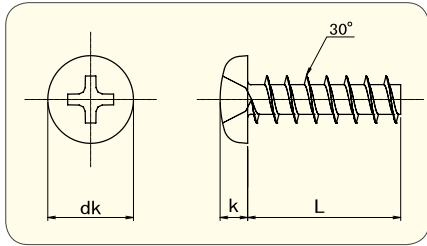


Push Cart



nonsert® Self Tapping Screw for Soft, Thermo Plastic

Cross recess pan head non-sert®



◆ 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

◆ #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

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
	14	NS012514	100	1,800
3	6	NS010306	100	5,000
	8	NS010308	100	4,000
	10	NS010310	100	3,500
	12	NS010312	100	3,000
	14	NS010314	100	2,500
	16	NS010316	100	2,000
4	20	NS010320	100	1,600
	8	NS010408	100	2,000
	10	NS010410	100	1,500
	12	NS010412	100	1,500
	14	NS010414	100	1,300
	16	NS010416	100	1,000
	20	NS010420	100	800
5	25	NS010425	100	800
	10	NS010510	100	1,000
	12	NS010512	100	900
	14	NS010514	100	800
	16	NS010516	100	700
	20	NS010520	100	600
6	25	NS010525	100	500
	12	NS010612	100	500
	14	NS010614	100	500
	16	NS010616	100	400
	20	NS010620	100	400

Small tube pump
by Welco Co. Ltd.



Cross recess pan head non-sert®

◆ JIS spec. Pan Head ◆

Material Steel
Surface 3Cr
Standard JIS spec. pan head



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



	3
dk	5.5
k	2.0
drive#	2

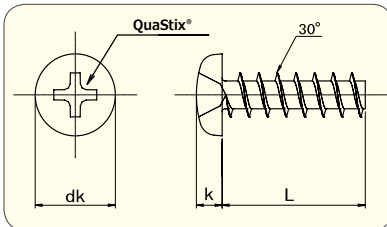
	3	4
dk	5.5	7
k	2.0	2.6
drive#	2	2

Size		Part#	Pkg Q'ty	Box Q'ty
d	L			
3	6	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	

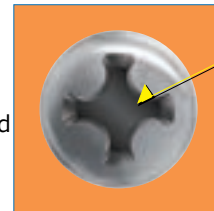
Size		Part#	Pkg Q'ty	Box Q'ty
d	L			
3	6	NS010306JA2	100	6,000
	8	NS010308JA2	100	5,000
	10	NS010310JA2	100	4,000
	12	NS010312JA2	100	3,500
	14	NS010314JA2	100	3,000
	16	NS010316JA2	100	2,500
4	8	NS010408JA2	100	2,600
	10	NS010410JA2	100	2,200
	12	NS010412JA2	100	2,000
	14	NS010414JA2	100	1,700
	16	NS010416JA2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



QuaStix

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

	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	



"Qua" Special bit tool

◎ Prevent tools CAM-OUT

Recess is circular-curved with no draft angle.

[QuaStix]

Almost no draft angle



No CAM-OUT even no load

[Standard cross recess]

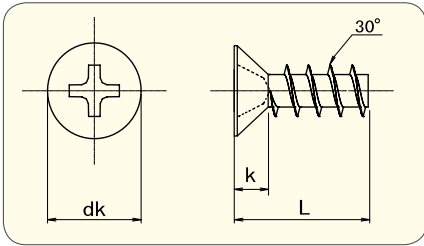
Large draft angle



Easily CAM-OUT with standard tool

nonsert® Self Tapping Screw for Soft, Thermo Plastic

Cross recess flat head non-sert®



- Material Steel
- Surface 3Cr

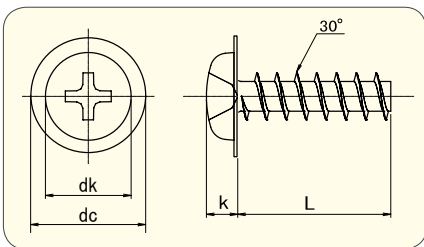


	3	4
dk	6	8
k	1.75	2.3
drive#	2	2



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 Pan washer head non-sert®



- Material Steel
- Surface 3Cr

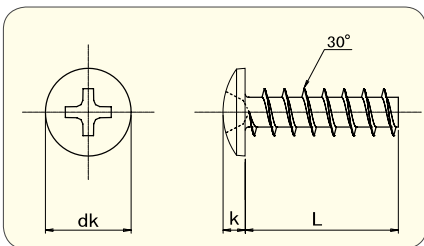


	3
dk	5.5
dc	8
k	2.3
drive#	2



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-sert®



- Material Steel
- Surface 3Cr

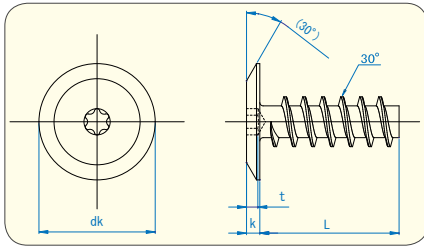


	3
dk	6.3
k	1.9
drive#	2



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

310Slim® 6-lobe 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)

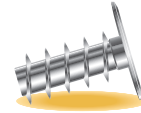
	3	4	5
dk	7	8	9
k	0.8	0.9	1.0
t(min)	0.5	0.5	0.6
drive#	T6	T8	T10



- 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.



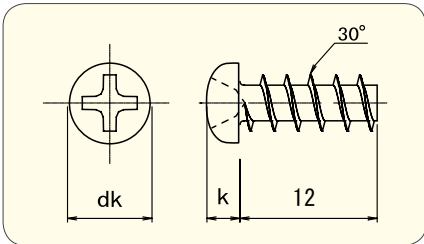
SY non-sert® for SANYO DENKI FAN "SAN ACE"

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.



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

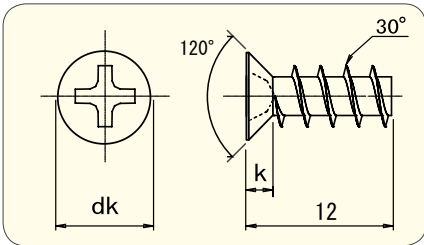


- Material Steel
- Surface 3Cr/Black 3Cr

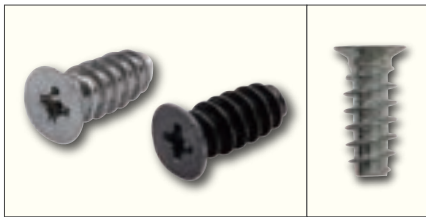


Part #		nominal dia.	L (mm)	dk (mm)	k (mm)	drive #	Box Q'ty
Steel 3Cr	Steel Black 3Cr						
SY-NS010412P11	SY-NS010412P11BK	4	12	5.5	2.0	2	2,000
SY-NS014812P15	SY-NS014812P15BK	4.8	12	7.0	2.6	2	1,400
SY-NS010512P15	SY-NS010512P15BK	5	12	7.0	2.6	2	1,200

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



- Material Steel
- Surface 3Cr/Black 3Cr



Part #		nominal dia.	L (mm)	dk (mm)	k (mm)	drive #	Box Q'ty
Steel 3Cr	Steel Black 3Cr						
SY-NS020412P11	SY-NS020412P11BK	4	12	6.2	MAX1.1	2	2,000
SY-NS024812P15	SY-NS024812P15BK	4.8	12	6.8	MAX1.2	2	1,800
SY-NS020512P15	SY-NS020512P15BK	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-

Address Head Quarter 2-9-17 Tsujido, Fujisawa, Kanagawa, 251-0047, Japan
TEL:+81-466-36-3656 FAX:+81-466-36-0009
Email:export@saima.co.jp <http://www.en.saima.co.jp>

Overseas China
(100% Subsidiary) **KOAS Corporation**
[Head Quarter]
1206 Xindu Bldg. No50 Jugian Street Changzhou City, Jiangsu, China 213000
TEL:+86-519-88101398 FAX:+81-519-88108938
【Warehouse & Distribution Center】
3F,No.9 Fukang Road,Xinbei District,Changzhou,Jiangsu China, 213125
TEL:+86-519-86672033 FAX:+86-519-88108938

SPC Members* Singapore **SYNERGIX SAIMA (S) PTE. LTD.**
52 Ubi Ave 3, #05-37FRONTIER Singapore 408867
TEL:+65-6316-2630 Email:sales@synergixfast.com

Malaysia **ANT INDUSTRIAL SDN BHD**
No 4, Jalan Industri USJ1/4, Taman PerindustrianUSJ, 47610 Subang Jaya,
Selangor,Malaysia
TEL:+603-8023-2010 Email:inquiry@ant-ind.com

*SPC Members : Saima Premium Club Members



— HIGH SPEED & HIGH QUALITY —
SAIMA CORPORATION

2-9-17 Tsujido, Fujisawa, Kanagawa, 251-0047, Japan

TEL:+81-466-36-3656 FAX:+81-466-36-0009

export@saima.co.jp www.en.saima.co.jp

2024.06

