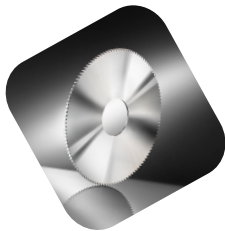




Saw Arbors

PRODUCT CATALOG



WWW.GENSWISS.COM

GenSwiss Signature Series Saw Arbors

Introduction

GenSwiss® provides a full line of Saw Arbors available in different styles with the highest accuracy standard in the industry. Our ultra precision arbors feature .0002" TIR or better. Available with Nut mount, Flange mount or Combination style from stock in both Metric and Standard sizes.



Signature
SERIES

About Ti-Loc®

Precision Micro Tool Holding

Ti-Loc® is a patented design of GenSwiss® Signature Series Line of Premium Products. Standard and custom orders are available.

Best Case Uses

Ti-Loc Slitting Saw Arbors are commonly used in rotary cutting a variety of materials including metal, plastic, wood, and composites.

Primarily used in manufacturing aerospace and automotive, medical and dental industries.

Saw Sizes

Available for 3mm, 5mm, 8mm, 10mm, 16mm and 1/8", 1/4", 5/16", 3/8", 1/2", 1" ID saws.

*Custom sizes available on request.

Why Choose Ti-Loc Saw Arbors

- High accuracy, general purpose slitting/sawing applications
- ID grooving operations
- Reduced vibration
- TIR held to <.0002" or better guaranteed
- Precision ground ER taper & Saw Mounting Journal
- Repeatable positioning of Saw Journal
- Integrated ER taper for maximum rigidity & accuracy
- Directly mounts to any ER taper live or static tool position
- Enables quick change of tooling
- Snap groove fits into most standard ER clamping nuts
- Large variety of solid carbide slotting saws down to .005" in thickness (Metric OD x ID combinations)

Table Of Contents

Combination Saw Arbors

Provides an additional live tool position with your saw for a drill or an end mill.

Flange Type & Ultra Precision

Our ground saw arbors offer the highest precision and maximum holding support.

One Piece Ti-Loc® Saw Arbor

Integrates the ER taper with the arbor reducing tolerance stack while increasing rigidity.



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Ti-Loc Saw Arbors

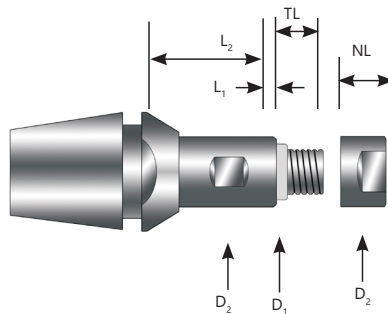
ER11 Saw Arbors

05

Ti-Loc Saw Arbors

ER16 Saw Arbors

ER20 Saw Arbors



TIR Held to .0002" or better
repeatable positioning of saw edge.
Ground ER taper and saw journal.
Integrated ER taper for maximum rigidity.

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Signature Series

Custom Saw Arbors

Combination 5015 Series

07

Signature Series

Flange Mounted

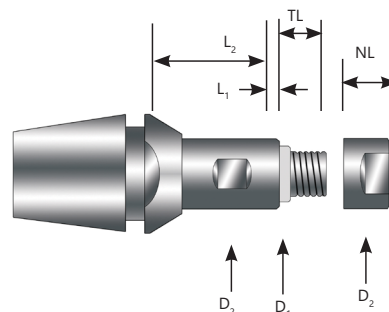
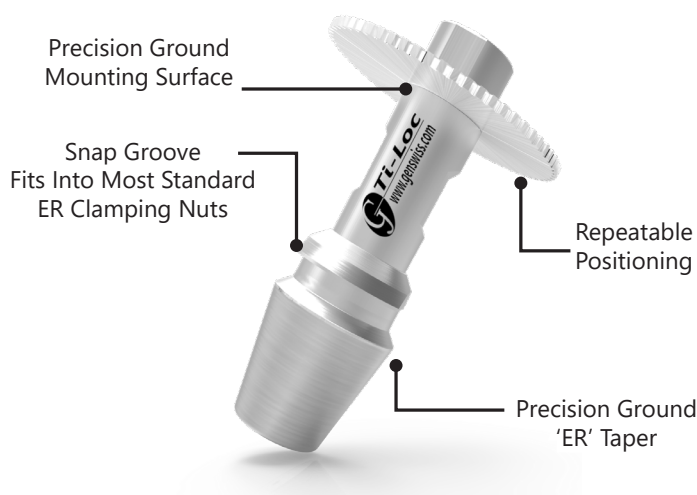
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Signature Series

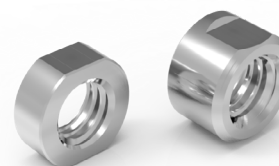
Precision 5025 Series



Ti-Loc® Slitting Saw Arbors



All Ti-Loc Saw Arbors Include
(2) Saw Clamping Nuts



Nut w/Smaller Width For
Clamping Thicker Saws

Standard Nut For Clamping
Standard Saws

The Ti-Loc tool directly mounts into any ER Taper Live or Static Tool Position. Simply insert the Ti-Loc holder into most ER nuts and twist to align the locking cam profile just as you would any ER collet. It comes standard with ER11, ER16 and ER20 taper arbors that serve as their own collet, eliminating the need for a two-piece arbor system.

ER11 Saw Arbors (Inch)		SAW ID	BODY DIAMETER	JOURNAL THICKNESS	EXTENSION LENGTH	NUT LENGTH	THREAD LENGTH
Item No.	Description	D_1	D_2	L_1	L_2	NL	TL
4800-000208	SAT-11-3.18-064100	.1250in	6.40mm	.045mm	10.00mm	5.00mm	5.00mm
4800-000209	SAT-11-3.18-064140	.1250in	6.40mm	.045mm	14.00mm	5.00mm	5.00mm
4800-000210	SAT-11-3.18-064190	.1250in	6.40mm	.045mm	19.00mm	5.00mm	5.00mm
4800-000224	SAT-11-3.18-064250	.1250in	6.40mm	.045mm	25.00mm	5.00mm	5.00mm
4800-000212	SAT-11-4.76-080100	.1875in	8.00mm	.045mm	10.00mm	5.00mm	6.35mm
4800-000213	SAT-11-4.76-080140	.1875in	8.00mm	.045mm	14.00mm	5.00mm	6.35mm
4800-000214	SAT-11-4.76-080190	.1875in	8.00mm	.045mm	19.00mm	5.00mm	6.35mm
4800-000225	SAT-11-4.76-080250	.1875in	8.00mm	.045mm	25.00mm	5.00mm	6.35mm

ER11 Saw Arbors (Metric)		SAW ID	BODY DIAMETER	JOURNAL THICKNESS	EXTENSION LENGTH	NUT LENGTH	THREAD LENGTH
Item No.	Description	D_1	D_2	L_1	L_2	NL	TL
4800-000205	SAT-11-3.00-064100	3.00mm	6.40mm	1.00mm	10.00mm	5.00mm	5.00mm
4800-000206	SAT-11-3.00-064140	3.00mm	6.40mm	1.00mm	14.00mm	5.00mm	5.00mm
4800-000207	SAT-11-3.00-064190	3.00mm	6.40mm	1.00mm	19.00mm	5.00mm	5.00mm
4800-000223	SAT-11-3.00-064250	3.00mm	6.40mm	1.00mm	25.00mm	5.00mm	5.00mm
4800-000216	SAT-11-5.00-080100	5.00mm	8.00mm	1.00mm	10.00mm	5.00mm	6.35mm
4800-000217	SAT-11-5.00-080140	5.00mm	8.00mm	1.00mm	14.00mm	5.00mm	6.35mm
4800-000218	SAT-11-5.00-080190	5.00mm	8.00mm	1.00mm	19.00mm	5.00mm	6.35mm
4800-000226	SAT-11-5.00-080250	5.00mm	8.00mm	1.00mm	25.00mm	5.00mm	6.35mm
4800-000220	SAT-11-6.00-080100	6.00mm	8.00mm	1.00mm	10.00mm	6.35mm	8.00mm
4800-000221	SAT-11-6.00-080140	6.00mm	8.00mm	1.00mm	14.00mm	6.35mm	8.00mm
4800-000222	SAT-11-6.00-080190	6.00mm	8.00mm	1.00mm	19.00mm	6.35mm	8.00mm
4800-000227	SAT-11-6.00-080250	6.00mm	8.00mm	1.00mm	25.00mm	6.35mm	8.00mm

Ti-Loc® Slitting Saw Arbors

ER16 Saw Arbors (Inch)		SAW ID	BODY DIAMETER	JOURNAL THICKNESS	EXTENSION LENGTH	NUT LENGTH	THREAD LENGTH
Item No.	Description	D ₁	D ₂	L ₁	L ₂	NL	TL
4800-000148	SAT-16-3.18-064180	.1250in	.2519in	.0017in	.7086in	0.25in	.2559in
4800-000149	SAT-16-3.18-064240	.1250in	.2519in	.0017in	.9448in	0.25in	.2559in
4800-000151	SAT-16-4.76-095180	.1875in	.3740in	.0017in	.7086in	0.25in	.2559in
4800-000154	SAT-16-4.76-095240	.1875in	.3740in	.0017in	.9448in	0.25in	.2559in
4800-000158	SAT-16-6.35-095180	.2500in	.3740in	.0017in	.7086in	0.25in	.2559in
4800-000162	SAT-16-6.35-095240	.2500in	.3740in	.0017in	.9448in	0.25in	.2559in
4800-000190	SAT-16-7.94-100180	.3125in	.3937in	.0017in	.7086in	0.25in	.2559in
4800-000168	SAT-16-7.94-100240	.3125in	.3937in	.0017in	.9448in	0.25in	.2559in
4800-000294	SAT-16-7.94-100500	.3125in	.3937in	.0017in	1.9685in	0.25in	.2559in

ER16 Saw Arbors (Metric)		SAW ID	BODY DIAMETER	JOURNAL THICKNESS	EXTENSION LENGTH	NUT LENGTH	THREAD LENGTH
Item No.	Description	D ₁	D ₂	L ₁	L ₂	NL	TL
4800-000146	SAT-16-3.00-064180	3.00mm	6.40mm	1.00mm	18.00mm	6.35mm	6.50mm
4800-000147	SAT-16-3.00-064240	3.00mm	6.40mm	1.00mm	24.00mm	6.35mm	6.50mm
4800-000152	SAT-16-5.00-095180	5.00mm	9.50mm	1.00mm	18.00mm	6.35mm	6.50mm
4800-000185	SAT-16-5.00-095240	5.00mm	9.50mm	1.00mm	24.00mm	6.35mm	6.50mm
4800-000156	SAT-16-6.00-095180	6.00mm	9.50mm	1.00mm	18.00mm	6.35mm	6.50mm
4800-000159	SAT-16-6.00-095240	6.00mm	9.50mm	1.00mm	24.00mm	6.35mm	6.50mm
4800-000191	SAT-16-8.00-100180	8.00mm	10.00mm	1.00mm	18.00mm	6.35mm	6.50mm
4800-000186	SAT-16-8.00-100240	8.00mm	10.00mm	1.00mm	24.00mm	6.35mm	6.50mm

ER20 Saw Arbors (Inch)		SAW ID	BODY DIAMETER	JOURNAL THICKNESS	EXTENSION LENGTH	NUT LENGTH	THREAD LENGTH
Item No.	Description	D ₁	D ₂	L ₁	L ₂	NL	TL
4800-000236	SAT-20-3.18-064180	.125in	.2519in	.0017in	.7086in	.25in	.2559in
4800-000237	SAT-20-3.18-064300	.125in	.2519in	.0017in	1.181in	.25in	.2559in
4800-000242	SAT-20-4.76-095180	.1875in	.2519in	.0017in	.7086in	.25in	.3051in
4800-000243	SAT-20-4.76-095300	.1875in	.2519in	.0017in	1.1811in	.25in	.3051in
4800-000257	SAT-20-6.35-095180	.2500in	.3740in	.0017in	.7086in	.25in	.3051in
4800-000258	SAT-20-6.35-095300	.2500in	.3740in	.0017in	1.1811in	.25in	.3051in
4800-000262	SAT-20-7.94-100180	.3125in	.3937in	.0017in	.7086in	.25in	.3051in
4800-000263	SAT-20-7.94-100300	.3125in	.3937in	.0017in	1.1811in	.25in	.3051in
4800-000270	SAT-20-9.52-125180	.3750in	.4921in	.0017in	.7086in	.27in	.3543in
4800-000271	SAT-20-9.52-125300	.3750in	.4921in	.0017in	1.1811in	.27in	.3543in

ER20 Saw Arbors (Metric)		SAW ID	BODY DIAMETER	JOURNAL THICKNESS	EXTENSION LENGTH	NUT LENGTH	THREAD LENGTH
Item No.	Description	D ₁	D ₂	L ₁	L ₂	NL	TL
4800-000232	SAT-20-3.00-064180	3.00mm	6.40mm	1.00mm	18.00mm	6.35mm	6.50mm
4800-000233	SAT-20-3.00-064300	3.00mm	6.40mm	1.00mm	30.00mm	6.35mm	6.50mm
4800-000246	SAT-20-5.00-095180	5.00mm	9.50mm	1.00mm	18.00mm	6.35mm	7.75mm
4800-000247	SAT-20-5.00-095300	5.00mm	9.50mm	1.00mm	30.00mm	6.35mm	7.75mm
4800-000252	SAT-20-6.00-095180	6.00mm	9.50mm	1.00mm	18.00mm	6.35mm	8.50mm
4800-000253	SAT-20-6.00-095300	6.00mm	9.50mm	1.00mm	30.00mm	6.35mm	8.50mm
4800-000266	SAT-20-8.00-100180	8.00mm	10.00mm	1.00mm	18.00mm	6.35mm	7.75mm
4800-000267	SAT-20-8.00-100300	8.00mm	10.00mm	1.00mm	30.00mm	6.35mm	7.75mm
4800-000274	SAT-20-10.0-125180	10.00mm	12.50mm	1.00mm	18.00mm	7.00mm	9.00mm
4800-000275	SAT-20-10.0-125300	10.00mm	12.50mm	1.00mm	30.00mm	7.00mm	9.00mm

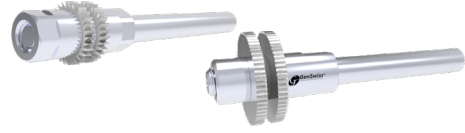
Signature Series Saw Arbors

Custom Slitting Saw Arbors

GenSwiss has the capability to assist with the engineering and manufacture of special gang slotting arbors that also feature the option of holding an end mill, spot drill or other small round shank rotary tool.

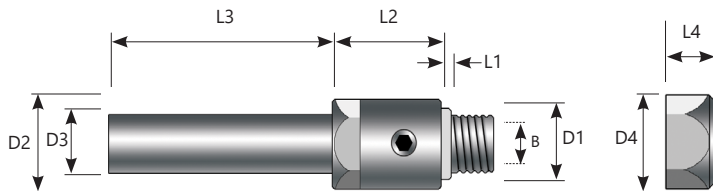
Some features we provide:

- Spacers for gang slotting with multiple blades.
- Custom hub widths (L1 dim.) for oversize blade thicknesses.
- Optional shank sizes for special applications.



Combination Saw Arbors

GenSwiss combination arbors are made from pre-hardened material and exemplify what it means to be called "Swiss Precision". The addition of the combined mill or center drill provides additional tool capacity and setup flexibility.



Combination Saw Arbors - 5015 Series (Inch)

Tool Bore (B)	Hub		Body		Shaft		Nut		Item No.	Description
	D1	L1	D2	L2	D3	L3	D4	L4		
.1181in	.250in	.125in	.375in	.625in	.250in	1.375in	.375in	.375in	5015-000109	SAC-N250-250118
	.312in	.125in	.375in	.625in	.312in	1.375in	.375in	.375in	5015-000111	SAC-N312-312118
	.375in	.125in	.500in	.625in	.375in	1.375in	.500in	.374in	5015-000114	SAC-N375-375118
.1250in	.250in	.125in	.375in	.625in	.250in	1.375in	.375in	.375in	5015-000108	SAC-N250-250125
	.312in	.125in	.375in	.625in	.312in	1.375in	.375in	.375in	5015-000110	SAC-N312-312125
	.375in	.125in	.500in	.625in	.375in	1.375in	.500in	.375in	5015-000101	SAC-N375-375125
.1875in	.312in	.125in	.375in	.625in	.312in	1.375in	.375in	.375in	5015-000112	SAC-N312-312187
	.375in	.125in	.500in	.625in	.375in	1.375in	.500in	.375in	5015-000102	SAC-N375-375187

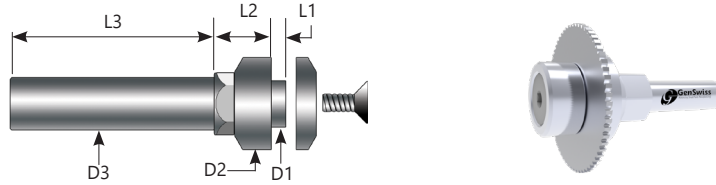
Combination Saw Arbors - 5015 Series (Metric)

Tool Bore (B)	Hub		Body		Shaft		Nut		Item No.	Description
	D1	L1	D2	L2	D3	L3	D4	L4		
3.00mm	8.00mm	3.00mm	8.00mm	16.00mm	8.00mm	35.00mm	9.50mm	9.50mm	5015-000113	SAC-N315-315118
	10.00mm	3.00mm	12.70mm	16.00mm	10.00mm	35.00mm	12.70mm	9.50mm	5015-000115	SAC-N394-394118
.0049mm	8.00mm	3.00mm	9.50mm	16.00mm	8.00mm	35.00mm	9.50mm	9.50mm	5015-000105	SAC-N315-315125
	10.00mm	3.00mm	12.70mm	16.00mm	10.00mm	35.00mm	12.70mm	9.50mm	5015-000106	SAC-N394-394125
.0073mm	8.00mm	3.00mm	9.50mm	16.00mm	8.00mm	35.00mm	9.50mm	9.50mm	5015-000100	SAC-N315-315187
	10.00mm	3.00mm	12.70mm	16.00mm	10.00mm	35.00mm	12.70mm	9.50mm	5015-000103	SAC-N394-394187

Signature Series Saw Arbors

Flange Mount Saw Arbors - 5020 (SAF)

These flanged saw arbors provide maximum saw balance and stability with the flange mount design. The unique design applies pressure to the outward edge of the flange ensuring the greatest gripping power at the outer most edge to prevent slipping. Uses countersunk screw and flange washer to apply holding force. Measured TIR is less than .0002".



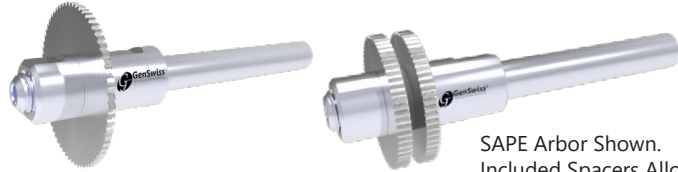
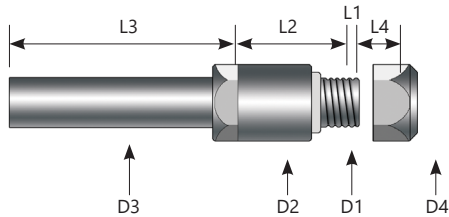
Flange Mount (Inch)		SAW ID	JOURNAL THICKNESS	BODY DIAMETER	EXTENSION LENGTH	SHANK DIAMETER	SHANK LENGTH
Item No.	Description	D1	L1	D2	L2	D3	L3
5021-000006	SAF-047013-473895-M3F	.1874in	.05in	.37in	.47in	.187in	1.50in
5021-000008	SAF-079016-793816-M5F	.3125in	.065in	.625in	.53in	.312in	1.50in
5021-000009	SAF-095025-953816-M6F	.375in	.098in	.625in	.54in	.374in	1.50in
5021-000007	SAF-063013-633811-M4F	.250in	.05in	.448in	.47in	.25in	1.50in
5021-000014	SAF-063028-041611-M4F	.250in	.108in	.448in	.44in	.157in	1.00in
5021-000002	SAF-095011-042511-C11	.3750in	.045in	.450in	.751in	.156in	1.00in

Flange Mount (Metric)		SAW ID	JOURNAL THICKNESS	BODY DIAMETER	EXTENSION LENGTH	SHANK DIAMETER	SHANK LENGTH
Item No.	Description	D1	L1	D2	L2	D3	L3
5020-000100	SAF-050010-503809-M4F	5.00mm	1.00mm	9.00mm	12.00mm	5.00mm	38.0mm
5020-000101	SAF-050010-703812-M4F	5.00mm	1.00mm	12.00mm	12.00mm	7.00mm	38.0mm
5020-000111	SAF-050010-704212-M4F	5.00mm	1.00mm	12.00mm	7.60mm	7.00mm	42.0mm
5020-000103	SAF-080016-703818-M5F	8.00mm	1.60mm	18.00mm	13.00mm	7.00mm	38.00mm
5020-000104	SAF-080016-104514-M5F	8.00mm	1.60mm	14.00mm	14.00mm	10.00mm	45.00mm
5020-000105	SAF-080040-104514-M5F	8.00mm	4.00mm	14.00mm	14.00mm	10.00mm	45.00mm
5021-000010	SAF-095025-071918-M5F	9.52mm	2.50mm	18.00mm	14.00mm	7.00mm	19.00mm
5020-000108	SAF-100025-134520-M6F	10.00mm	2.50mm	20.00mm	16.00mm	13.00mm	45.00mm
5021-000001	SAF-100025-071918-C15	10.00mm	2.50mm	19.00mm	14.00mm	7.00mm	19.00mm
5021-000004	SAF-100025-071918-C18	10.00mm	2.50mm	18.00mm	14.00mm	7.00mm	19.00mm
5020-000106	SAF-130025-134522-M6F	13.00mm	2.50mm	22.00mm	16.00mm	13.00mm	45.00mm
5021-000011	SAF-160025-071919-C19	16.00mm	2.50mm	19.00mm	14.00mm	7.00mm	19.00mm
5020-000107	SAF-160025-134525-M6F	16.00mm	2.50mm	25.00mm	16.00mm	13.00mm	45.00mm

Signature Series Saw Arbors

Precision Saw Arbors - 5025 Series

Our most popular style of slitting saw arbor is available in guaranteed TIR grade SAP (border .0002" TIR) and the extended journal version SAPE. When ULTRA Precision is required the SAP guide is suggested as they are held to stringent quality standards required by discerning Swiss-type machinists.



SAPE Arbor Shown.
Included Spacers Allow For
Double Saw Configuration.

ULTRA Precision (Inch)		SAW ID	JOURNAL THICKNESS	BODY Ø	EXTENSION LENGTH	SHANK DIAMETER	SHANK LENGTH	NUT DIAMETER	NUT LENGTH	
Item No.	Description	D1	L1	D2	L2	D3	L3	D4	L4	Includes Spacer
5025-000102	SAP-N1250-1250	.1250in	.025in	.197in	.500in	.125in	1.0in	.197in	.185in	No
5025-000103	SAP-N1875-1875	.1875in	.045in	.315in	.500in	.187in	1.4in	.315in	.305in	No
5025-000104	SAP-N2500-2500	.2500in	.045in	.394in	.500in	.250in	1.4in	.394in	.305in	No
5025-000105	SAP-N3125-3125	.3125in	.045in	.450in	.500in	.312in	1.4in	.450in	.305in	No
5025-000106	SAP-N3750-3750	.3750in	.045in	.500in	.500in	.375in	1.4in	.500in	.305in	No
5025-000107	SAP-N5000-5000	.5000in	.045in	.625in	.500in	.500in	1.4in	.625in	.305in	No
5025-000113	SAPE-N2500-2500-6.0	.2500in	.236in	.453in	.500in	.250in	1.4in	.453in	.349in	Yes

ULTRA Precision (Metric)		SAW ID	JOURNAL THICKNESS	BODY Ø	EXTENSION LENGTH	SHANK DIAMETER	SHANK LENGTH	NUT Ø	NUT LENGTH	
Item No.	Description	D1	L1	D2	L2	D3	L3	D4	L4	Includes Spacer
5025-000114	SAP-N0500-0300	5.00mm	1.00mm	8.00mm	11.50mm	3.00mm	38.00mm	8.00mm	6.35mm	No
5025-000100	SAP-N0500-0500	5.00mm	1.00mm	8.0mm	11.50mm	5.00mm	38.00mm	8.00mm	6.35mm	No
5025-000116	SAP-N0507-0738	5.00mm	3.00mm	7.00mm	13.20mm	7.00mm	25.65mm	7.00mm	9.50mm	No
5025-000117	SAP-N1970-1970	5.00mm	3.00mm	7.00mm	16.50mm	5.00mm	30.00mm	7.00mm	9.50mm	No
5025-000101	SAP-N0800-0800	8.00mm	1.00mm	11.50mm	11.30mm	8.00mm	35.00mm	11.50mm	8.00mm	No
5025-000109	SAP-N1000-1000	10.00mm	1.00mm	13.50mm	16.60mm	10.00mm	30.00mm	13.50mm	8.00mm	No
5025-000111	SAPE-N0500-0500-6.0	5.00mm	6.00mm	8.00mm	12.70mm	5.00mm	35.60mm	8.00mm	8.85mm	Yes
5025-000112	SAPE-N0800-0800-6.0	8.00mm	6.00mm	10.00mm	12.70mm	8.00mm	35.60mm	10.00mm	8.85mm	Yes