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SABRE AIRCRAFT TOOLS

Warranty

Sabre Aircraft Tools are warranted for a period of one year from date of purchase. Warranty covers defective material and workmanship only.

WARRANTY DOES NOT COVER:

Tool failure due to improper use or maintenance, (i.e. inadequate filtration and /or lubrication, the use of a rivet hammer with out a rivet set present).

Tool failure due to normal wear and tear.

Tool failure due to abuse, misuse, modification or accident.

The repair of a tool, if the tool has been dismantled, or attempted repairs undertaken by anyone, other than Sabre Tools, or an authorized repair depot.

When returning tools for warranty inspection; ship the complete tool **Transportation Prepaid** to Sabre Aircraft Tools or the nearest authorized repair depot. A purchase receipt (invoice) or other proof the tool is within the warranty period must accompany the tool. When ever possible please give a brief description of the problem.

Sabre Aircraft Tools makes no other warranty, and the company's maximum liability is limited to the purchase price of the tool. In no event shall the company be liable for any consequential, indirect, incidental or special damages of any nature arising from the sale, or use of the product whether by contract or otherwise.

DATE: 10/15/2010

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

Products and specifications subject to change without prior notice.

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A DRILLING

SABRE AIRCRAFT TOOLS

Pistol Grip Drills 0.4HP (0.30KW) & 1.0HP (0.745KW)



S12318



S12340



SMX2PD

0.4HP (0.30KW)

Model Number		Free Speed RPM	Drill Chuck Capacity inch/mm	Weight lbs/kg	Length inch/mm	Vibration Level	Sound Level dB(A)
Non Reversible	Reversible						
S12316		5,200	1/4" (6.35mm)	1.5lbs (0.72kg)	5.63" (148mm)	<2.5m/s ²	83
S12317		4,000	1/4" (6.35mm)	1.5lbs (0.72kg)	5.63" (148mm)	<2.5m/s ²	83
S12318		3,200	5/16" (8.0mm)	1.5lbs (0.72kg)	5.63" (148mm)	<2.5m/s ²	83
S12321		2,600	5/16" (8.0mm)	1.5lbs (0.72kg)	5.63" (148mm)	<2.5m/s ²	83
	S12330	2,000	5/16" (8.0mm)	1.5lbs (0.72kg)	5.63" (148mm)	<2.5m/s ²	83

SMX4PD

1.0HP (0.745KW)

Model Number		Free Speed RPM	Drill Chuck Capacity inch/mm	Weight lbs/kg	Length inch/mm	Vibration Level	Sound Level dB(A)
Non Reversible	Reversible						
S12340		5,200	3/8" (10.0mm)	2.24lbs (1.02kg)	8.2" (208mm)	<2.5m/s ²	83

Add the following termination to the model number for optional chuck.

Eg. S12317-10

-10 No Chuck
-15 Keyless 1/4"
-20 Geared 3/8"
-25 Keyless 3/8"

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Pistol Grip Drills 0.4HP (0.30KW)



SMX2PD
0.4HP (0.30KW) Non-Reversible

Part No.	Free Speed RPM	Drill Chuck Capacity inch/mm	Weight lbs/kg	Length inch/mm	Vibration Level	Sound Level dB(A)
S12300	20,000	5/16" (8.0mm)	1.76lbs (0.8kg)	6.1" (155mm)	<2.5m/s2	83
S12301	5,000	5/16" (8.0mm)	1.76lbs (0.8kg)	6.1" (155mm)	<2.5m/s2	83
S12302	3,000	5/16" (8.0mm)	1.76lbs (0.8kg)	6.1" (155mm)	<2.5m/s2	83
S12303	800	5/16" (8.0mm)	2.2lbs (1.0kg)	7.9" (200mm)	<2.5m/s2	83
S12304	500	5/16" (8.0mm)	2.2lbs (1.0kg)	7.9" (200mm)	<2.5m/s2	83
S12305	350	5/16" (8.0mm)	2.2lbs (1.0kg)	7.9" (200mm)	<2.5m/s2	83

Add the following termination to the model number for optional chuck.
Eg. S12300-10

- 10 No Chuck
 - 15 Keyless 1/4"
 - 20 Geared 3/8"
 - 25 Keyless 3/8"
 - 40 Collet Chuck (specify collet size)

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.
Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.
WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Pistol Grip Drills 0.6HP (0.45KW)



SMX3PD

0.6HP (0.45KW)

Model Number		Free Speed RPM	Drill Chuck Capacity inch/mm	Weight lbs/kg	Length inch/mm	Vibration Level	Sound Level dB(A)
Non Reversible	Reversible						
S12501		6,000	1/4" (6.35mm)	2.09lbs (0.95kg)	7.0" (185mm)	<2.5m/s2	85
S12502		4,000	1/4" (6.35mm)	2.09lbs (0.95kg)	7.0" (185mm)	<2.5m/s2	85
S12503		3,800	1/4" (6.35mm)	2.09lbs (0.95kg)	7.0" (185mm)	<2.5m/s2	85
	S12504	2,100	3/8" (9.52mm)	1.00lbs (2.2kg)	8.5" (215mm)	<2.5m/s2	85
S12505	S12506	700	3/8" (9.52mm)	3.08lbs (1.4kg)	9.9" (252mm)	<2.5m/s2	85
S12507		500	1/2" (12.7mm)	3.08lbs (1.4kg)	9.4" (240mm)	<2.5m/s2	85
	S12508	350	1/2" (12.7mm)	3.08lbs (1.4kg)	9.4" (240mm)	<2.5m/s2	85

*Side handle included with all 1/2" models

Add the following termination to the model number for optional chuck.

Eg. 12501-10

-10 No Chuck -15 Keyless 1/4" -20 Geared 3/8" -25 Keyless 3/8"	-30 Geared 1/2" -35 Keyless 1/2" -40 Collet Chuck (specify collet size)
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Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Pistol Grip Drills 0.8HP (0.60KW)



SMX3PD

0.8HP (0.60KW)

Model Number		Free Speed RPM	Drill Chuck Capacity inch/mm	Weight lbs/kg	Length inch/mm	Vibration Level	Sound Level dB(A)
Non Reversible	Reversible						
S12840		3,500	3/8" (9.5mm)	2.6lbs (1.2kg)	7.0" (185mm)	<2.5m/s2	85
	S12841	2,400	3/8" (9.5mm)	2.6lbs (1.2kg)	7.0" (185mm)	<2.5m/s2	85
	S12842	1,600	3/8" (9.5mm)	2.6lbs (1.2kg)	7.0" (185mm)	<2.5m/s2	85
S12843		900	1/2" (12.7mm)	3.7lbs (1.7kg)	9.0" (230mm)	<2.5m/s2	85
	S12844	700	1/2" (12.7mm)	3.7lbs (1.7kg)	9.0" (230mm)	<2.5m/s2	85
S12845		600	1/2" (12.7mm)	3.7lbs (1.7kg)	9.0" (230mm)	<2.5m/s2	85
	S12846	410	1/2" (12.7mm)	3.7lbs (1.7kg)	9.0" (230mm)	<2.5m/s2	85
S12847		300	1/2" (12.7mm)	3.7lbs (1.7kg)	9.0" (230mm)	<2.5m/s2	85
	S12848	220	1/2" (12.7mm)	3.7lbs (1.7kg)	9.0" (230mm)	<2.5m/s2	85

*Side handle included with all 1/2" models

Add the following termination to the model number for optional chuck.

Eg. 12840-10

-10 No Chuck -15 Keyless 1/4" -20 Geared 3/8" -25 Keyless 3/8"	-30 Geared 1/2" -35 Keyless 1/2" -40 Collet Chuck (specify collet size)
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Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Pistol Grip Drills 0.9HP (0.67KW)



SMX4PD

0.9HP (0.67KW) Non-Reversible

Part No.	Free Speed RPM	Drill Chuck Capacity inch/mm	Weight lbs/kg	Length inch/mm	Vibration Level	Sound Level dB(A)
S13120	6,000	5/16" (8.0mm)	2.5lbs (1.15kg)	6.93" (176mm)	<2.5m/s2	80
S13121	4,000	5/16" (8.0mm)	2.5lbs (1.15kg)	6.93" (176mm)	<2.5m/s2	80
S13122	3,150	5/16" (8.0mm)	2.5lbs (1.15kg)	6.93" (176mm)	<2.5m/s2	80
S13123	1,900	3/8" (9.5mm)	2.7lbs (1.23kg)	7.28" (185mm)	<2.5m/s2	80
S13124	1,250	3/8" (9.5mm)	2.7lbs (1.23kg)	7.28" (185mm)	<2.5m/s2	80
S13125	650	1/2" (12.7mm)	3.63lbs (1.65kg)	8.86" (225mm)	<2.5m/s2	80

Add the following termination to the model number for optional chuck.

Eg. S13120-10

-10 No Chuck -15 Keyless 1/4" -20 Geared 3/8" -25 Keyless 3/8"	-30 Geared 1/2" -35 Keyless 1/2" -40 Collet Chuck (specify collet size)
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Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Pistol Grip Drills 1.0HP (0.745KW)



SMX4PD

1.0HP (0.745KW)

Model Number		Free Speed RPM	Drill Chuck Capacity inch/mm	Weight lbs/kg	Length inch/mm	Vibration Level	Sound Level dB(A)
Non Reversible	Reversible						
S12510		21,000	1/4" (6.35mm)	2.2lbs (1.0kg)	7.87" (200mm)	<2.5m/s ²	85
S12511		4,000	1/4" (6.35mm)	2.3lbs (1.05kg)	7.87" (200mm)	<2.5m/s ²	85
	S12512	3,800	1/4" (6.35mm)	2.3lbs (1.05kg)	7.87" (200mm)	<2.5m/s ²	85
S12513		3,300	3/8" (9.52mm)	2.4lbs (1.1kg)	8.58" (218mm)	<2.5m/s ²	85
	S12514	3,000	3/8" (9.52mm)	2.4lbs (1.1kg)	8.58" (218mm)	<2.5m/s ²	85
S12515		2,600	3/8" (9.52mm)	2.4lbs (1.1kg)	8.58" (218mm)	<2.5m/s ²	85
	S12516	2,000	3/8" (9.52mm)	2.4lbs (1.1kg)	8.58" (218mm)	<2.5m/s ²	85
S12517	S12518	1,000	1/2" (12.7mm)	3.3lbs (1.5kg)	9.05" (230mm)	<2.5m/s ²	85
S12519		600	1/2" (12.7mm)	3.3lbs (1.5kg)	9.05" (230mm)	<2.5m/s ²	85
	S12520	300	1/2" (12.7mm)	3.3lbs (1.5kg)	9.05" (230mm)	<2.5m/s ²	85

*Side handle included with all 1/2" models

Add the following termination to the model number for optional chuck.

Eg. 12510-10

-10 No Chuck	-30 Geared 1/2"
-15 Keyless 1/4"	-35 Keyless 1/2"
-20 Geared 3/8"	-40 Collet Chuck (specify collet size)
-25 Keyless 3/8"	

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

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SABRE AIRCRAFT TOOLS

Flat Offset Pistol Drills

SMX2PD Series

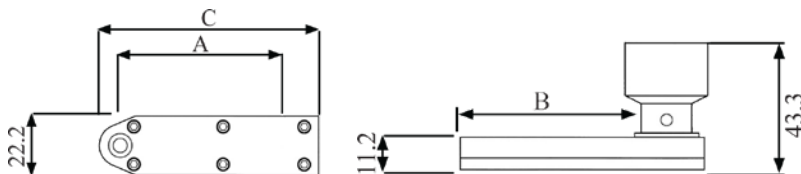
0.4HP (0.30KW) Non-Revirsible

Model Number Spindle Thread		Free Speed RPM	Weight lbs/kg	Length inch/mm Short
1/4"-28	9/32"-40			
S12355	S12356	4,500	1.7lbs (0.77kg)	7.25" (184mm)
S12357	S12358	3,000	1.7lbs (0.77kg)	7.25" (184mm)
S12359	S12360	800	1.9lbs (0.86kg)	9.0" (227mm)
S12361	S12362	500	1.9lbs (0.86kg)	9.0" (227mm)

Model Number Spindle Thread		Free Speed RPM	Weight lbs/kg	Length inch/mm Medium
1/4"-28	9/32"-40			
S12363	S12364	4,500	1.8lbs (0.82kg)	7.25" (184mm)
S12365	S12366	3,000	1.8lbs (0.82kg)	7.25" (184mm)
S12367	S12368	800	2.0lbs (0.9kg)	9.0" (227mm)
S12369	S12370	500	2.0lbs (0.9kg)	9.0" (227mm)

Model Number Spindle Thread		Free Speed RPM	Weight lbs/kg	Length inch/mm Long
1/4"-28	9/32"-40			
S12371	S12372	4,500	1.9lbs (0.86kg)	7.25" (184mm)
S12373	S12374	3,000	1.9lbs (0.86kg)	7.25" (184mm)
S12375	S12376	800	2.1lbs (0.95kg)	9.0" (227mm)
S12377	S12378	500	2.1lbs (0.95kg)	9.0" (227mm)

Attachment #		Ref Length	Dimensions		
1/4"-28	9/32"-40		A	B	C
SPA40225	SPA40226	Short	2.49" (63.14mm)	2.44" (62mm)	4.8" (122.20mm)
SPA40235	SPA40236	Medium	3.83" (97.30mm)	3.79" (96.16mm)	6.2" (156.36mm)
SPA40245	SPA40246	Long	5.18" (131.46mm)	5.13" (130.32mm)	7.5" (190.52mm)



Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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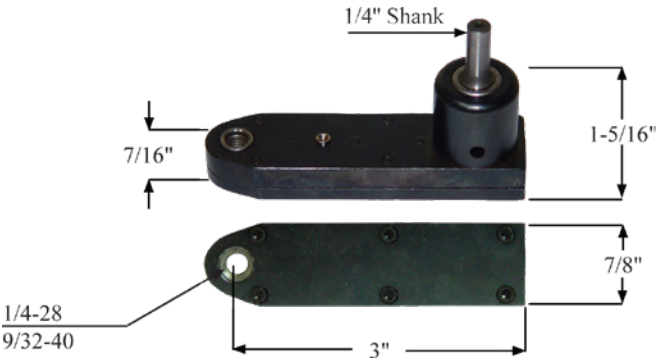
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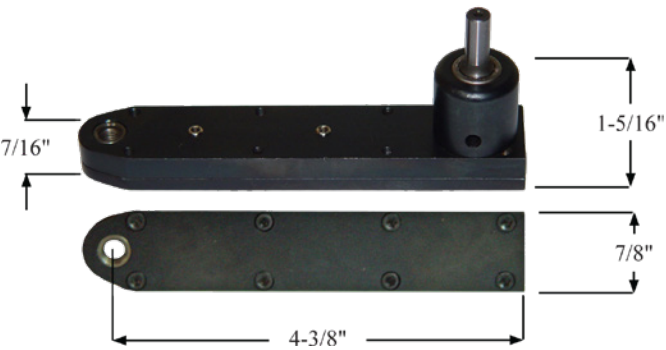
SABRE AIRCRAFT TOOLS

Flat Offset Angle Attachments

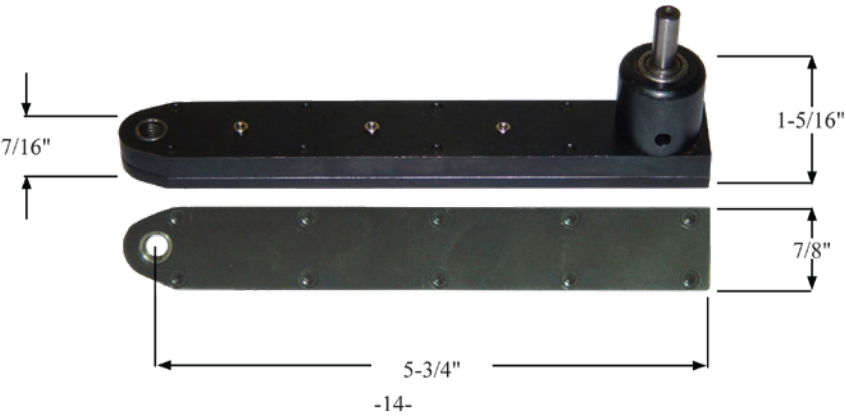
Model Number Spindle Thread	
1/4"-28	9/32"-40
SA12320	SA12321



Model Number Spindle Thread	
1/4"-28	9/32"-40
SA12330	SA12331



Model Number Spindle Thread	
1/4"-28	9/32"-40
SA12340	SA12341



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Safety Precaution: Read and follow all safety and operating instructions.
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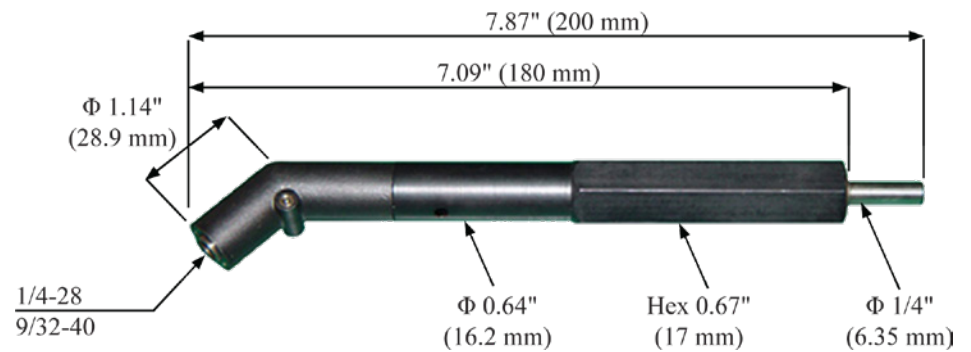


SABRE AIRCRAFT TOOLS

Drill Attachments

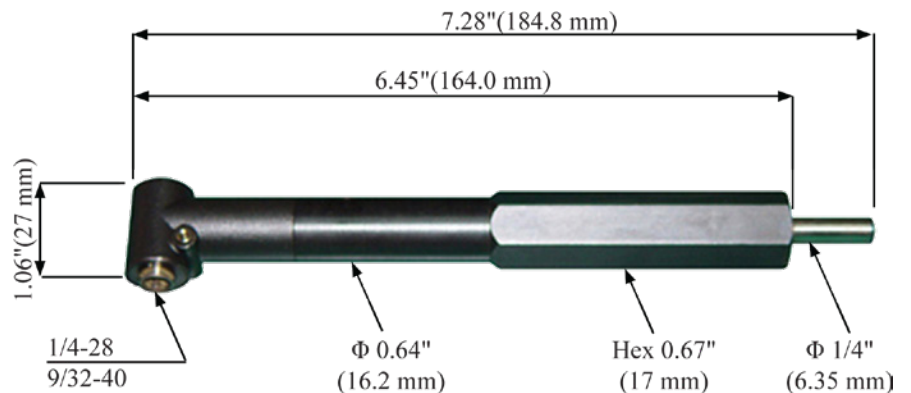
45 Deg. Drill Attachment

Model Number Spindle Thread	
1/4"-28	9/32"-40
SA12315	SA12316



90 Deg. Drill Attachment

Model Number Spindle Thread	
1/4"-28	9/32"-40
SA12310	SA12311



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SABRE AIRCRAFT TOOLS

Piloted Double Margin Jobber Drills

NAS-937 • M35 **Cobalt** 135 Degree Split Point



Double margin drills have an additional margin ground behind the leading margin, providing twice the number of contact points. This second margin performs various functions to improve hole quality.

When the drill point penetrates enough for the second margin to contact the wall of the hole, the point is stabilized and true cylindrical geometry is established. Smooth accurate holes are produced and reaming can often be eliminated.

Part Number	Size	Drill Diameter	Pilot Diameter	Flute Length Inches	Pilot Length Inches	OAL Inches
SA144100	#30 x #40	.1285	.0980	1-5/8	1/4	2-3/4
SA144101	#27 x #40	.1440	.0980	1-7/8	1/4	3
SA144102	#21 x #40	.1590	.0980	2-5/16	1/4	3-1/4
SA144103	#21 x #30	.1590	.1285	2-1/8	1/4	3-1/4
SA144104	#20 x #40	.1610	.0980	2-1/8	1/4	3-1/4
SA144105	#20 x #30	.1610	.1285	2-1/8	1/4	3-1/4
SA144106	#16 x #40	.1770	.0980	2-3/16	1/4	3-3/8
SA144107	#16 x #30	.1770	.1285	2-3/16	1/4	3-3/8
SA144108	#13 x #40	.1850	.0980	2-5/16	1/4	3-1/2
SA144109	#13 x #30	.1850	.1285	2-5/16	1/4	3-1/2
SA144110	#13 x #21	.1890	.1590	2-5/16	1/4	3-1/2
SA144111	#12 x #40	.1890	.0980	2-5/16	1/4	3-1/2
SA144112	#12 x #30	.1890	.1285	2-5/16	1/4	3-1/2
SA144113	#12 x #21	.1890	.1590	2-5/16	1/4	3-1/2
SA144114	#11 x #40	.1910	.0980	2-5/16	1/4	3-1/2
SA144115	#11 x #30	.1910	.1285	2-5/16	1/4	3-1/2
SA144116	#11 x #21	.1910	.1590	2-5/16	1/4	3-1/2
SA144117	#10 x #40	.1935	.0980	2-3/4	1/4	3-5/8
SA144118	#10 x #30	.1935	.1285	2-7/16	1/4	3-5/8
SA144119	#10 x #21	.1935	.1590	2-3/4	1/4	3-5/8
SA144120	D x #13	.2460	.1850	2-3/4	5/16	4
SA144121	D x 3/16	.2460	.1875	2-3/4	5/16	4
SA144122	1/4 x #30	.2500	.1285	2-3/4	5/16	4
SA144123	1/4 x #21	.2500	.1590	2-3/4	5/16	4
SA144124	1/4 x #11	.2500	.1910	2-3/4	5/16	4
SA144125	1/4 x #10	.2500	.1935	2-3/4	5/16	4
SA144126	5/16 x 1/4	.3125	.2500	3-1/16	5/16	4
SA144127	3/8 x 1/4	.3750	.2500	3-5/8	3/8	5
SA144128	3/8 x 5/16	.3750	.3125	3-5/8	3/8	5

Other sizes available upon request.

Safety Precaution: Read and follow all safety and operating instructions.

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SABRE AIRCRAFT TOOLS

Piloted Double Margin 6" Extension Drills

NAS-937 • M35 **Cobalt** 135 Degree Split Point



Double margin drills have an additional margin ground behind the leading margin, providing twice the number of contact points. This second margin performs various functions to improve hole quality.

When the drill point penetrates enough for the second margin to contact the wall of the hole, the point is stabilized and true cylindrical geometry is established. Smooth accurate holes are produced and reaming can often be eliminated.

Part Number	Size	Drill Diameter	Pilot Diameter	Flute Length Inches	Pilot Length Inches	OAL Inches
SA145100	#30 x #40	.1285	.0980	1-5/8	1/4	6
SA145101	#27 x #40	.1440	.0980	1-7/8	1/4	6
SA145102	#21 x #40	.1590	.0980	2-5/16	1/4	6
SA145103	#21 x #30	.1590	.1285	2-1/8	1/4	6
SA145104	#20 x #40	.1610	.0980	2-1/8	1/4	6
SA145105	#20 x #30	.1610	.1285	2-1/8	1/4	6
SA145106	#16 x #40	.1770	.0980	2-3/16	1/4	6
SA145107	#16 x #30	.1770	.1285	2-3/16	1/4	6
SA145108	#13 x #40	.1850	.0980	2-5/16	1/4	6
SA145109	#13 x #30	.1850	.1285	2-5/16	1/4	6
SA145110	#13 x #21	.1890	.1590	2-5/16	1/4	6
SA145111	#12 x #40	.1890	.0980	2-5/16	1/4	6
SA145112	#12 x #30	.1890	.1285	2-5/16	1/4	6
SA145113	#12 x #21	.1890	.1590	2-5/16	1/4	6
SA145114	#11 x #40	.1910	.0980	2-5/16	1/4	6
SA145115	#11 x #30	.1910	.1285	2-5/16	1/4	6
SA145116	#11 x #21	.1910	.1590	2-5/16	1/4	6
SA145117	#10 x #40	.1935	.0980	2-3/4	1/4	6
SA145118	#10 x #30	.1935	.1285	2-7/16	1/4	6
SA145119	#10 x #21	.1935	.1590	2-3/4	1/4	6
SA145120	D x #13	.2460	.1850	2-3/4	5/16	6
SA145121	D x 3/16	.2460	.1875	2-3/4	5/16	6
SA145122	1/4 x #30	.2500	.1285	2-3/4	5/16	6
SA145123	1/4 x #21	.2500	.1590	2-3/4	5/16	6
SA145124	1/4 x #11	.2500	.1910	2-3/4	5/16	6
SA145125	1/4 x #10	.2500	.1935	2-3/4	5/16	6
SA145126	5/16 x 1/4	.3125	.2500	3-1/16	5/16	6
SA145127	3/8 x 1/4	.3750	.2500	3-5/8	3/8	6
SA145128	3/8 x 5/16	.3750	.3125	3-5/8	3/8	6

Other sizes available upon request.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Double Margin Jobber Drills

NAS-937 • M35 **Cobalt** 135 Degree Split Point



Double margin drills have an additional margin ground behind the leading margin, providing twice the number of contact points. This second margin performs various functions to improve hole quality.

When the drill point penetrates enough for the second margin to contact the wall of the hole, the point is stabilized and true cylindrical geometry is established. Smooth accurate holes are produced and reaming can often be eliminated.

Part Number	Size	Drill Diameter	Flute Length Inches	OAL Inches
SA1410980	#40	.0980	1-3/8	2-3/8
SA1411285	#30	.1285	1-5/8	2-3/4
SA1411440	#27	.1440	1-7/8	3
SA1411590	#21	.1590	2-1/8	3-1/4
SA1411610	#20	.1610	2-1/8	3-1/4
SA1411660	#19	.1660	2-1/8	3-1/4
SA1411770	#16	.1770	2-3/16	3-3/8
SA1411800	#15	.1800	2-3/16	3-3/8
SA1411850	#13	.1850	2-5/16	3-1/2
SA1411890	#12	.1890	2-5/16	3-1/2
SA1411910	#11	.1910	2-5/16	3-1/2
SA1411935	#10	.1935	2-7/16	3-5/8
SA1411990	#8	.1990	2-7/16	3-5/8
SA1412040	#6	.2040	2-1/2	3-3/4
SA1412055	#5	.2055	2-1/2	3-3/4
SA1410938	3/32	.0938	1-1/4	2-1/4
SA1411094	7/64	.1094	1-1/2	2-5/8
SA1411250	1/8	.1250	1-5/8	2-3/4
SA1411406	9/64	.1406	1-3/4	2-7/8
SA1411562	5/32	.1562	2	3-3/8
SA1411719	11/64	.1719	2-1/8	3-1/4
SA1411875	3/16	.1875	2-5/16	3-1/2
SA1412188	7/32	.2188	2-1/2	3-3/4
SA1412460	D	.2460	2-3/4	4
SA1412500	1/4	.2500	2-3/4	4
SA1412570	F	.2570	2-7/8	4-1/8
SA1412610	G	.2610	2-7/8	4-1/8
SA1413125	5/16	.3125	3-3/16	4-1/2
SA1413750	3/8	.3750	3-5/8	5

Other sizes available upon request.

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SABRE AIRCRAFT TOOLS

Double Margin 6" Extension Drills

NAS-937 • M35 **Cobalt** 135 Degree Split Point



Double margin drills have an additional margin ground behind the leading margin, providing twice the number of contact points. This second margin performs various functions to improve hole quality.

When the drill point penetrates enough for the second margin to contact the wall of the hole, the point is stabilized and true cylindrical geometry is established. Smooth accurate holes are produced and reaming can often be eliminated.

Part Number	Size	Drill Diameter	Flute Length Inches	OAL Inches
SA1420980	#40	.0980	1-3/8	6
SA1421285	#30	.1285	1-5/8	6
SA1421440	#27	.1440	1-7/8	6
SA1421590	#21	.1590	2-1/8	6
SA1421610	#20	.1610	2-1/8	6
SA1421660	#19	.1660	2-1/8	6
SA1421770	#16	.1770	2-3/16	6
SA1421800	#15	.1800	2-3/16	6
SA1421850	#13	.1850	2-5/16	6
SA1421890	#12	.1890	2-5/16	6
SA1421910	#11	.1910	2-5/16	6
SA1421935	#10	.1935	2-7/16	6
SA1421990	#8	.1990	2-7/16	6
SA1422040	#6	.2040	2-1/2	6
SA1422055	#5	.2055	2-1/2	6
SA1420938	3/32	.0938	1-1/4	6
SA1421094	7/64	.1094	1-1/2	6
SA1421250	1/8	.1250	1-5/8	6
SA1421406	9/64	.1406	1-3/4	6
SA1421562	5/32	.1562	2	6
SA1421719	11/64	.1719	2-1/8	6
SA1421875	3/16	.1875	2-5/16	6
SA1422188	7/32	.2188	2-1/2	6
SA1422460	D	.2460	2-3/4	6
SA1422500	1/4	.2500	2-3/4	6
SA1422570	F	.2570	2-7/8	6
SA1422610	G	.2610	2-7/8	6
SA1423125	5/16	.3125	3-3/16	6
SA1423750	3/8	.3750	3-5/8	6

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SABRE AIRCRAFT TOOLS

Aircraft Jobber Length Drills

Size		Decimal Equivalent	Flute Length	OAL	Type B-135° Split Point HSS NAS-907 Part No.	Type J-135° Split Point Cobalt NAS-907 Part No.
Fractional	Wire Gage					
1/64	80	.0135	1/8	3/4	SA131351	SA137079
	79	.0145	1/8	3/4	SA131352	SA137080
		.0156	3/16	3/4	SA131353	SA137081
	78	.0160	3/16	7/8	SA131354	SA137082
	77	.0180	3/16	7/8	SA131355	SA137083
	76	.0200	3/16	7/8	SA131356	SA137084
	75	.0210	1/4	1	SA131357	SA137085
	74	.0225	1/4	1	SA131358	SA137086
	73	.0240	5/16	1-1/8	SA131359	SA137087
	72	.0250	5/16	1-1/8	SA131360	SA137088
	71	.0260	3/8	1-1/4	SA131361	SA137089
	70	.0280	3/8	1-1/4	SA131362	SA137090
1/32	69	.0292	1/2	1-3/8	SA131363	SA137091
	68	.0310	1/2	1-3/8	SA131364	SA137092
		.0312	1/2	1-3/8	SA131365	SA137093
	67	.0320	1/2	1-3/8	SA131366	SA137094
	66	.0330	1/2	1-3/8	SA131367	SA137095
	65	.0350	5/8	1-1/2	SA131368	SA137096
	64	.0360	5/8	1-1/2	SA131369	SA137097
	63	.0370	5/8	1-1/2	SA131370	SA137098
	62	.0380	5/8	1-1/2	SA131371	SA137099
	61	.0390	11/16	1-5/8	SA131372	SA137100
	60	.0400	11/16	1-5/8	SA131373	SA137101
	59	.0410	11/16	1-5/8	SA131374	SA137102
3/64	58	.0420	11/16	1-5/8	SA131375	SA137103
	57	.0430	3/4	1-3/4	SA131376	SA137104
	56	.0465	3/4	1-3/4	SA131377	SA137105
		.0469	3/4	1-3/4	SA131378	SA137106
	55	.0520	7/8	1-7/8	SA131379	SA137107
	54	.0550	7/8	1-7/8	SA131380	SA137108
	53	.0595	7/8	1-7/8	SA131381	SA137109
	1/16	.0625	7/8	1-7/8	SA131382	SA137110
		.0635	7/8	1-7/8	SA131383	SA137111
		.0670	1	2	SA131384	SA137112
	50	.0700	1	2	SA131385	SA137113
	49	.0730	1	2	SA131386	SA137114
5/64	48	.0760	1	2	SA131387	SA137115
		.0781	1	2	SA131388	SA137116
	47	.0785	1	2	SA131389	SA137117
3/32	46	.0810	1-1/8	2-1/8	SA131390	SA137118
	45	.0820	1-1/8	2-1/8	SA131391	SA137119
	44	.0860	1-1/8	2-1/8	SA131392	SA137120
	43	.0890	1-1/4	2-1/4	SA131393	SA137121
	42	.0935	1-1/4	2-1/4	SA131394	SA137122
		.0937	1-1/4	2-1/4	SA131395	SA137123
	41	.0960	1-3/8	2-3/8	SA131396	SA137124
	40	.0980	1-3/8	2-3/8	SA131397	SA137125
	39	.0995	1-3/8	2-3/8	SA131398	SA137126
	38	.1015	1-7/16	2-1/2	SA131399	SA137127
	37	.1040	1-7/16	2-1/2	SA131400	SA137128
	36	.1065	1-7/16	2-1/2	SA131401	SA137129



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SABRE AIRCRAFT TOOLS

Aircraft Jobber Length Drills



Size		Decimal Equivalent	Flute Length	OAL	Type B-135° Split Point HSS NAS-907 Part No.	Type J-135° Split Point Cobalt NAS-907 Part No.
Fractional	Wire Gage					
7/64		.1094	1-1/2	2-5/8	SA131402	SA137132
	35	.1100	1-1/2	2-5/8	SA131403	SA137133
	34	.1110	1-1/2	2-5/8	SA131404	SA137134
	33	.1130	1-1/2	2-5/8	SA131405	SA137135
	32	.1160	1-5/8	2-3/4	SA131406	SA137136
1/8	31	.1200	1-5/8	2-3/4	SA131407	SA137137
		.1250	1-5/8	2-3/4	SA131408	SA137138
	30	.1285	1-3/4	2-3/4	SA131409	SA137139
	29	.1360	1-3/4	2-7/8	SA131410	SA137140
	28	.1405	1-3/4	2-7/8	SA131411	SA137141
9/64		.1406	1-3/4	2-7/8	SA131412	SA137142
	27	.1440	1-7/8	3	SA131413	SA137143
	26	.1470	1-7/8	3	SA131414	SA137144
	25	.1495	1-7/8	3	SA131415	SA137145
	24	.1520	2	3-1/8	SA131416	SA137146
5/32	23	.1540	2	3-1/8	SA131417	SA137147
		.1562	2	3-1/8	SA131418	SA137148
	22	.1570	2	3-1/8	SA131419	SA137149
	21	.1590	2-1/8	3-1/4	SA131420	SA137150
	20	.1610	2-1/8	3-1/4	SA131421	SA137151
11/64	19	.1660	2-1/8	3-1/4	SA131422	SA137152
	18	.1695	2-1/8	3-1/4	SA131423	SA137153
		.1719	2-1/8	3-1/4	SA131424	SA137154
	17	.1730	2-3/16	3-3/8	SA131425	SA137155
	16	.1770	2-3/16	3-3/8	SA131426	SA137156
3/16	15	.1800	2-3/16	3-3/8	SA131427	SA137157
	14	.1820	2-3/16	3-3/8	SA131428	SA137158
	13	.1850	2-5/16	3-1/2	SA131429	SA137159
		.1875	2-5/16	3-1/2	SA131430	SA137160
	12	.1890	2-5/16	3-1/2	SA131431	SA137161
13/64	11	.1910	2-5/16	3-1/2	SA131432	SA137162
	10	.1935	2-7/16	3-5/8	SA131433	SA137163
	9	.1960	2-7/16	3-5/8	SA131434	SA137164
	8	.1990	2-7/16	3-5/8	SA131435	SA137165
	7	.2010	2-7/16	3-5/8	SA131436	SA137166
7/32		.2031	2-7/16	3-5/8	SA131437	SA137167
	6	.2040	2-1/2	3-3/4	SA131438	SA137168
	5	.2055	2-1/2	3-3/4	SA131439	SA137169
	4	.2090	2-1/2	3-3/4	SA131440	SA137170
	3	.2130	2-1/2	3-3/4	SA131441	SA137171
		.2187	2-1/2	3-3/4	SA131442	SA137172
	2	.2210	2-5/8	3-7/8	SA131443	SA137173
	1	.2280	2-5/8	3-7/8	SA131444	SA137174

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SABRE AIRCRAFT TOOLS

Aircraft Jobber Length Drills



Size		Decimal Equivalent	Flute Length	OAL	Type B-135° Split Point HSS NAS-907 Part No.	Type J-135° Split Point Cobalt NAS-907 Part No.
Fractional	Wire Gage					
16/64	A	.2349	2-5/8	3-7/8	SA131445	SA137175
		.2344	2-5/8	3-7/8	SA131446	SA137176
	B	.2380	2-3/4	4	SA131447	SA137177
	C	.2420	2-3/4	4	SA131448	SA137178
1/4	D	.2460	2-3/4	4	SA131449	SA137179
	E	.2500	2-3/4	4	SA131450	SA137180
	F	.2570	2-7/8	4-1/8	SA131452	SA137182
	G	.2610	2-7/8	4-1/8	SA131453	SA137183
17/64		.2656	2-7/8	4-1/8	SA131454	SA137184
	H	.2660	2-7/8	4-1/8	SA131455	SA137185
	I	.2720	2-7/8	4-1/8	SA131456	SA137186
	J	.2770	2-7/8	4-1/8	SA131457	SA137187
9/32	K	.2810	2-15/16	4-1/4	SA131458	SA137188
		.2812	2-15/16	4-1/4	SA131459	SA137189
	L	.2900	2-15/16	4-1/4	SA131460	SA137190
	M	.2950	3-1/16	4-3/8	SA131461	SA137191
19/64		.2969	3-1/16	4-3/8	SA131462	SA137192
	N	.3020	3-1/16	4-3/8	SA131463	SA137193
		.3125	3-3/16	4-1/2	SA131464	SA137194
	O	.3160	3-3/16	4-1/2	SA131465	SA137195
21/64	P	.3230	3-5/16	4-5/8	SA131466	SA137196
		.3281	3-5/16	4-5/8	SA131467	SA137197
	Q	.3320	3-7/16	4-3/4	SA131468	SA137198
	R	.3390	3-7/16	4-3/4	SA131469	SA137199
11/32		.3437	3-7/16	4-3/4	SA131470	SA137200
	S	.3480	3-1/2	4-7/8	SA131471	SA137201
	T	.3580	3-1/2	4-7/8	SA131472	SA137202
		.3594	3-1/2	4-7/8	SA131473	SA137203
23/64	U	.3680	3-5/8	5	SA131474	SA137204
		.3750	3-5/8	5	SA131475	SA137205
	V	.3770	3-5/8	5	SA131476	SA137206
	W	.3860	3-3/4	5-1/8	SA131477	SA137207
25/64		.3906	3-3/4	5-1/8	SA131478	SA137208
	X	.3970	3-3/4	5-1/8	SA131479	SA137209
	Y	.4040	3-7/8	5-1/4	SA131480	SA137210
		.4062	3-7/8	5-1/4	SA131481	SA137211
13/32	Z	.4130	3-7/8	5-1/4	SA131482	SA137212
		.4219	3-15/16	5-3/8	SA131483	SA137213
		.4375	4-1/6	5-1/2	SA131484	SA137214
		.4531	4-3/16	5-5/8	SA131485	SA137215
29/64		.4687	4-5/16	5-3/4	SA131486	SA137216
15/32		.4844	4-3/8	5-7/8	SA131487	SA137217
31/64		.5000	4-1/2	6	SA131488	SA137218
1/2						

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SABRE AIRCRAFT TOOLS

Aircraft Extension Drills

Size		Decimal Equivalent	Flute Length	6" 135° Split Point HSS Part No.	12" 135° Split Point HSS Part No.	6" 135° Split Point Type J NAS-907 Cobalt	12" 135° Split Point Type J NAS-907 Cobalt
Fractional	Wire Gage						
3/64	60	.0400	11/16	SA136673	SA136789	SA138673	SA139789
	59	.0410	11/16	SA136672	SA136788	SA138672	SA139788
	58	.0420	11/16	SA136671	SA136787	SA138671	SA139787
	57	.0430	3/4	SA136670	SA136786	SA138670	SA139786
	56	.0465	3/4	SA136669	SA136785	SA138669	SA139785
		.0469	3/4	SA136600	SA136700	SA138600	SA139700
	55	.0520	7/8	SA136668	SA136784	SA138668	SA139784
	54	.0550	7/8	SA136667	SA136783	SA138667	SA139783
	53	.0595	7/8	SA136666	SA136782	SA138666	SA139782
		.0625	7/8	SA136601	SA136701	SA138601	SA139701
1/16	52	.0635	7/8	SA136665	SA136781	SA138665	SA139781
	51	.0670	1	SA136664	SA136780	SA138664	SA139780
	50	.0700	1	SA136663	SA136779	SA138663	SA139779
	49	.0730	1	SA136662	SA136778	SA138662	SA139778
	48	.0780	1	SA136661	SA136777	SA138661	SA139777
		.0781	1	SA136602	SA136702	SA138602	SA139702
		.0785	1	SA136660	SA136776	SA138660	SA139776
	47	.0810	1-1/8	SA136659	SA136775	SA138659	SA139775
	46	.0820	1-1/8	SA136658	SA136774	SA138658	SA139774
	45	.0860	1-1/8	SA136657	SA136773	SA138657	SA139773
3/32	44	.0890	1-1/4	SA136656	SA136772	SA138656	SA139772
	43	.0935	1-1/4	SA136655	SA136771	SA138655	SA139771
	42	.0938	1-1/4	SA136603	SA136703	SA138603	SA139703
		.0960	1-3/8	SA136654	SA136770	SA138654	SA139770
	41	.0980	1-3/8	SA136653	SA136769	SA138653	SA139769
	40	.0995	1-3/8	SA136652	SA136768	SA138652	SA139768
	39	.1015	1-7/16	SA136651	SA136767	SA138651	SA139767
	38	.1040	1-7/16	SA136650	SA136766	SA138650	SA139766
	37	.1065	1-7/16	SA136649	SA136765	SA138649	SA139765
	36	.1094	1-1/2	SA136604	SA136704	SA138604	SA139704
7/64		.1100	1-1/2	SA136648	SA136764	SA138648	SA139764
	35	.1110	1-1/2	SA136647	SA136763	SA138647	SA139763
	34	.1130	1-1/2	SA136646	SA136762	SA138646	SA139762
	33	.1160	1-5/8	SA136645	SA136761	SA138645	SA139761
	32	.1200	1-5/8	SA136644	SA136760	SA138644	SA139760
	31	.1250	1-5/8	SA136605	SA136705	SA138605	SA139705
		.1285	1-5/8	SA136643	SA136759	SA138643	SA139759
	30	.1360	1-3/4	SA136642	SA136758	SA138642	SA139758
	29	.1405	1-3/4	SA136641	SA136757	SA138641	SA139757
	28	.1406	1-3/4	SA136606	SA136706	SA138606	SA139706
9/64		.1440	1-7/8	SA136640	SA136756	SA138640	SA139756
	27	.1470	1-7/8	SA136639	SA136755	SA138639	SA139755
	26	.1495	1-7/8	SA136638	SA136754	SA138638	SA139754
	25	.1520	2	SA136637	SA136753	SA138637	SA139753
	24	.1540	2	SA136636	SA136752	SA138636	SA139752
	23	.1562	2	SA136607	SA136707	SA138607	SA139707
		.1570	2	SA136635	SA136751	SA138635	SA139751
	22	.1590	2-1/8	SA136634	SA136750	SA138634	SA139750
	21	.1610	2-1/8	SA136633	SA136749	SA138633	SA139749
	20	.1660	2-1/8	SA136632	SA136748	SA138632	SA139748
11/64	19	.1695	2-1/8	SA136631	SA136747	SA138631	SA139747
	18	.1719	2-1/8	SA136608	SA136708	SA138608	SA139708
		.1730	2-3/16	SA136630	SA136746	SA138630	SA139746
	17	.1770	2-3/16	SA136629	SA136745	SA138629	SA139745
	16	.1800	2-3/16	SA136628	SA136744	SA138628	SA139744
	15						



Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Aircraft Extension Drills

Size		Decimal Equivalent	Flute Length	6" 135° Split Point HSS Part No.	12" 135° Split Point HSS Part No.	6" 135° Split Point Type J NAS-907 Cobalt	12" 135° Split Point Type J NAS-907 Cobalt
Fractional	Wire Gage						
3/16	14	.1820	2-3/16	SA136627	SA136743	SA138627	SA139743
	13	.1850	2-5/16	SA136626	SA136742	SA138626	SA139742
		.1875	2-5/16	SA136609	SA136709	SA138609	SA139709
	12	.1890	2-5/16	SA136625	SA136741	SA138625	SA139741
	11	.1910	2-5/16	SA136624	SA136740	SA138624	SA139740
	10	.1935	2-7/16	SA136623	SA136739	SA138623	SA139739
	9	.1960	2-7/16	SA136622	SA136738	SA138622	SA139738
	8	.1990	2-7/16	SA136621	SA136737	SA138621	SA139737
13/64	7	.2010	2-7/16	SA136620	SA136736	SA138620	SA139736
		.2031	2-7/16	SA136610	SA136710	SA138610	SA139710
	6	.2040	2-1/2	SA136619	SA136735	SA138619	SA139735
	5	.2055	2-1/2	SA136618	SA136734	SA138618	SA139734
	4	.2090	2-1/2	SA136617	SA136733	SA138617	SA139733
	3	.2130	2-1/2	SA136616	SA136732	SA138616	SA139732
		.2187	2-1/2	SA136611	SA136711	SA138611	SA139711
	2	.2210	2-5/8	SA136615	SA136731	SA138615	SA139731
15/64	1	.2280	2-5/8	SA136614	SA136730	SA138614	SA139730
	A	.2340	2-5/8	-	SA136790	-	SA139790
		.2344	2-5/8	SA136612	SA136712	SA138612	SA139712
	B	.2380	2-3/4	SA136675	SA136791	SA138675	SA139791
	C	.2420	2-3/4	-	SA136792	-	SA139792
	D	.2460	2-3/4	-	SA136793	-	SA139793
	E	.2500	2-3/4	SA136613	SA136713	SA138613	SA139713
	G	.2610	2-7/8	-	SA136795	-	SA139795
17/64		.2656	2-7/8	SA136584	SA136714	SA138584	SA139714
	H	.2660	2-7/8	SA136680	SA136796	SA138680	SA139796
	I	.2720	2-7/8	SA136681	-	SA138681	-
	J	.2770	2-7/8	SA136682	SA136798	SA138682	SA139798
	K	.2810	2-15/16	SA136683	SA136799	SA138683	SA139799
		.2812	2-15/16	SA136585	SA136715	SA138585	SA139715
	L	.2900	2-15/16	SA136684	SA136800	SA138684	SA139800
	M	.2950	3-1/16	SA136685	SA136801	SA138685	SA139801
19/64		.2969	3-1/16	SA136586	SA136716	SA138586	SA139716
	N	.3020	3-1/16	-	SA136802	-	SA139802
		.3125	3-3/16	SA136587	SA136717	SA138587	SA139717
	O	.3160	3-3/16	SA136687	SA136803	SA138687	SA139803
	P	.3230	3-5/16	SA136688	SA136804	SA138688	SA139804
		.3281	3-5/16	SA136588	SA136718	SA138588	SA139718
	Q	.3320	3-7/16	SA136689	-	SA138689	-
	R	.3390	3-7/16	-	SA136806	-	SA139806
11/32		.3437	3-7/16	SA136589	SA136719	SA138589	SA139719
	S	.3480	3-1/2	-	SA136807	-	SA139807
		.3580	3-1/2	SA136692	SA136808	SA138692	SA139808
	T	.3594	3-1/2	SA136590	SA136720	SA138590	SA139720
	U	.3680	3-5/8	-	SA136809	-	SA139809
		.3750	3-5/8	SA136591	SA136721	SA138591	SA139721
	V	.3770	3-5/8	SA136694	SA136810	SA138694	SA139810
	W	.3860	3-3/4	-	SA136811	-	SA139811
25/64		.3906	3-3/4	SA136592	SA136722	SA138592	SA139722
	X	.3970	3-3/4	SA136696	SA136812	SA138696	SA139812
		.4040	3-7/8	SA136697	SA136813	SA138697	SA139813
	Y	.4062	3-7/8	SA136693	SA136723	SA138693	SA139723
	Z	.4130	3-7/8	SA136698	SA136814	SA138698	SA139814
		.4219	3-15/16	SA136594	SA136724	SA138594	SA139724
	7/16	.4375	4-1/16	SA136595	SA136725	SA138595	SA139725
	29/64	.4531	4-3/16	SA136596	SA136726	SA138596	SA139726
15/32		.4687	4-5/16	SA136597	SA136727	SA138597	SA139727
		.4844	4-3/8	SA136598	SA136728	SA138598	SA139728
	31/64	.5000	4-1/2	SA136599	SA136729	SA138599	SA139729



Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

90 Degree Angle Drills



SMX2AD Series 0.4HP (0.30KW) Rear Exhaust

Model Number Spindle Thread		Free Speed RPM	Weight lbs/kg	Length inch/mm	Side to Center Head inch/mm
1/4"-28	9/32"-40				
S15210	S15220	4800	1.83lbs (0.83kg)	10.43" (265mm)	0.319" (8.1mm)
S15211	S15221	3000	1.83lbs (0.83kg)	10.43" (265mm)	0.319" (8.1mm)
S15212	S15222	800	2.2lbs (1.0kg)	11.81" (300mm)	0.319" (8.1mm)
S15213	S15223	500	2.2lbs (1.0kg)	11.81" (300mm)	0.319" (8.1mm)
S15214	S15224	350	2.2lbs (1.0kg)	11.81" (300mm)	0.319" (8.1mm)

SMX3AD Series 0.6HP (0.45KW) Rear Exhaust

Model Number Spindle Thread		Free Speed RPM	Weight lbs/kg	Length inch/mm	Side to Center Head inch/mm
1/4"-28	9/32"-40				
S15310	S15320	3800	1.83lbs (0.83kg)	10.43" (265mm)	0.319" (8.1mm)
S15311	S15321	2400	1.83lbs (0.83kg)	10.43" (265mm)	0.319" (8.1mm)
S15312	S15322	675	2.2lbs (1.0kg)	11.81" (300mm)	0.319" (8.1mm)
S15313	S15323	380	2.2lbs (1.0kg)	11.81" (300mm)	0.319" (8.1mm)
S15314	S15324	250	2.2lbs (1.0kg)	11.81" (300mm)	0.319" (8.1mm)

Add XL to end of model number for extended reach head.
Eg: S15210XL

Part #SPA40015 (1/4-28)
#SPA40016 (9/32-40)

Standard Equipment
Safety Lever #SP15403SL



Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.
Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

45 Degree Angle Drills



SMX2AD Series

0.4HP (0.30KW) Rear Exhaust

Model Number Spindle Thread		Free Speed RPM	Weight lbs/kg	Length inch/mm	Side to Center Head inch/mm
1/4"-28	9/32"-40				
S15241	S15251	4800	1.83lbs (0.83kg)	10.43" (265mm)	0.319" (8.1mm)
S15242	S15252	3000	1.83lbs (0.83kg)	10.43" (265mm)	0.319" (8.1mm)
S15244	S15254	800	2.2lbs (1.0kg)	11.81" (300mm)	0.319" (8.1mm)
S15245	S15255	500	2.2lbs (1.0kg)	11.81" (300mm)	0.319" (8.1mm)
S15246	S15256	350	2.2lbs (1.0kg)	11.81" (300mm)	0.319" (8.1mm)

SMX3AD Series

0.6HP (0.45KW) Rear Exhaust

Model Number Spindle Thread		Free Speed RPM	Weight lbs/kg	Length inch/mm	Side to Center Head inch/mm
1/4"-28	9/32"-40				
S15341	S15351	3800	1.83lbs (0.83kg)	10.43" (265mm)	0.319" (8.1mm)
S15342	S15352	2400	1.83lbs (0.83kg)	10.43" (265mm)	0.319" (8.1mm)
S15344	S15354	675	2.2lbs (1.0kg)	11.81" (300mm)	0.319" (8.1mm)
S15345	S15355	380	2.2lbs (1.0kg)	11.81" (300mm)	0.319" (8.1mm)
S15346	S15356	250	2.2lbs (1.0kg)	11.81" (300mm)	0.319" (8.1mm)

Add XL to end of model number for extended reach head.

Eg: S15241XL

Part #SPA40030 (1/4-28)
#SPA40031 (9/32-40)

Standard Equipment
Safety Lever #SP15403SL



Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

360 Degree Angle Drills



SMX2AD Series 0.4HP (0.30KW) Rear Exhaust

Model Number Spindle Thread		Free Speed RPM	Weight lbs/kg	Length inch/mm	Side to Center Head inch/mm
1/4"-28	9/32"-40				
S15271	S15281	4800	1.83lbs (0.83kg)	10.43" (265mm)	0.319" (8.1mm)
S15272	S15282	3000	1.83lbs (0.83kg)	10.43" (265mm)	0.319" (8.1mm)
S15274	S15284	800	2.2lbs (1.0kg)	11.81" (300mm)	0.319" (8.1mm)
S15275	S15285	500	2.2lbs (1.0kg)	11.81" (300mm)	0.319" (8.1mm)
S15276	S15286	350	2.2lbs (1.0kg)	11.81" (300mm)	0.319" (8.1mm)

SMX3AD Series 0.6HP (0.45KW) Rear Exhaust

Model Number Spindle Thread		Free Speed RPM	Weight lbs/kg	Length inch/mm	Side to Center Head inch/mm
1/4"-28	9/32"-40				
S15371	S15381	3800	1.83lbs (0.83kg)	10.43" (265mm)	0.319" (8.1mm)
S15372	S15382	2400	1.83lbs (0.83kg)	10.43" (265mm)	0.319" (8.1mm)
S15374	S15384	675	2.2lbs (1.0kg)	11.81" (300mm)	0.319" (8.1mm)
S15375	S15385	380	2.2lbs (1.0kg)	11.81" (300mm)	0.319" (8.1mm)
S15376	S15386	250	2.2lbs (1.0kg)	11.81" (300mm)	0.319" (8.1mm)

Add XL to end of model number for extended reach head.

Eg: S15271XL



Standard Equipment
Safety Lever #SP15403SL



Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.
Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Flat Offset Angle Drills



SMX2AD Series

0.4HP (0.30KW) Rear Exhaust

Model Number Spindle Thread		Free Speed RPM	Weight lbs/kg	Length inch/mm Short
1/4"-28	9/32"-40			
S15705	S15725	4,500	1.8lbs (0.82kg)	10.43" (265mm)
S15706	S15726	3,000	1.8lbs (0.82kg)	10.43" (265mm)
S15707	S15727	800	2lbs (0.9kg)	11.81" (300mm)
S15708	S15728	500	2lbs (0.9kg)	11.81" (300mm)



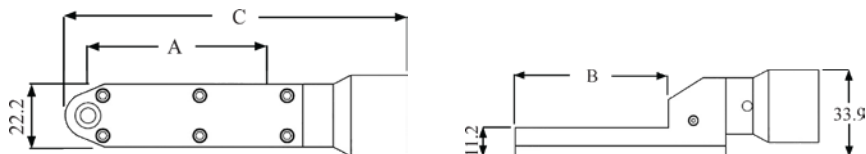
Model Number Spindle Thread		Free Speed RPM	Weight lbs/kg	Length inch/mm Medium
1/4"-28	9/32"-40			
S15709	S15729	4,500	2lbs (0.9kg)	11.6" (294mm)
S15710	S15730	3,000	2lbs (0.9kg)	11.6" (294mm)
S15711	S15731	800	2.2lbs (1kg)	13.1" (333mm)
S15712	S15732	500	2.2lbs (1kg)	13.1" (333mm)



Model Number Spindle Thread		Free Speed RPM	Weight lbs/kg	Length inch/mm Long
1/4"-28	9/32"-40			
S15713	S15733	4,500	2.1lbs (0.95kg)	13" (330mm)
S15714	S15734	3,000	2.1lbs (0.95kg)	13" (330mm)
S15715	S15735	800	2.3lbs (1.04kg)	14.5" (368mm)
S15716	S15736	500	2.3lbs (1.04kg)	14.5" (368mm)



Attachment #		Ref Length	Dimensions		
1/4"-28	9/32"-40		A	B	C
SPA40125	SPA40126	Short	2.49" (63.14mm)	2.44" (62mm)	4.8" (122.20mm)
SPA40135	SPA40136	Medium	3.83" (97.30mm)	3.79" (96.16mm)	6.2" (156.36mm)
SPA40145	SPA40146	Long	5.18" (131.46mm)	5.13" (130.32mm)	7.5" (190.52mm)



Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Flat Offset Straight Drills

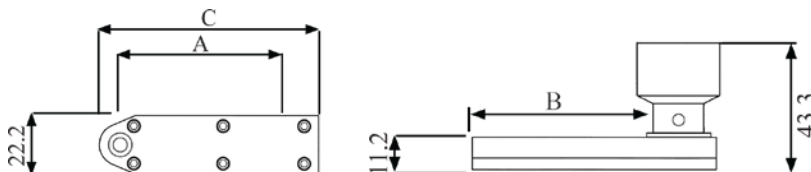
SMX2AD Series 0.4HP (0.30KW) Rear Exhaust

Model Number Spindle Thread		Free Speed RPM	Weight lbs/kg	Length inch/mm Short
1/4"-28	9/32"-40			
S15755	S15756	4,500	1.7lbs (0.77kg)	7.25" (184mm)
S15757	S15758	3,000	1.7lbs (0.77kg)	7.25" (184mm)
S15759	S15760	800	1.9lbs (0.86kg)	9.0" (227mm)
S15761	S15762	500	1.9lbs (0.86kg)	9.0" (227mm)

Model Number Spindle Thread		Free Speed RPM	Weight lbs/kg	Length inch/mm Medium
1/4"-28	9/32"-40			
S15763	S15764	4,500	1.8lbs (0.82kg)	7.25" (184mm)
S15765	S15766	3,000	1.8lbs (0.82kg)	7.25" (184mm)
S15767	S15768	800	2.0lbs (0.9kg)	9.0" (227mm)
S15769	S15770	500	2.0lbs (0.9kg)	9.0" (227mm)

Model Number Spindle Thread		Free Speed RPM	Weight lbs/kg	Length inch/mm Long
1/4"-28	9/32"-40			
S15771	S15772	4,500	1.9lbs (0.86kg)	7.25" (184mm)
S15773	S15774	3,000	1.9lbs (0.86kg)	7.25" (184mm)
S15775	S15776	800	2.1lbs (0.95kg)	9.0" (227mm)
S15777	S15778	500	2.1lbs (0.95kg)	9.0" (227mm)

Attachment #		Ref Length	Dimensions		
1/4"-28	9/32"-40		A	B	C
SPA40225	SPA40226	Short	2.49" (63.14mm)	2.44" (62mm)	4.8" (122.20mm)
SPA40235	SPA40236	Medium	3.83" (97.30mm)	3.79" (96.16mm)	6.2" (156.36mm)
SPA40245	SPA40246	Long	5.18" (131.46mm)	5.13" (130.32mm)	7.5" (190.52mm)



Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.
Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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CE



SABRE AIRCRAFT TOOLS

Threaded Shank Drills

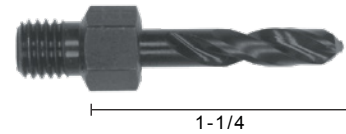
NAS 965 Type B • HSS 135 Degree Split Point • 1/4-28 UNF Class 2A Thread

Size	Decimal Equivalent	Part No. Stub	Part No. Short	Part No. Long
3/32	.0938	SA1110938	SA2110938	SA3110938
#40	.0980	SA1110980	SA2110980	SA3110980
#39	.0995	SA1110995	SA2110995	SA3110995
#38	.1015	SA1111015	SA2111015	SA3111015
#37	.1040	SA1111040	SA2111040	SA3111040
#36	.1065	SA1111065	SA2111065	SA3111065
7/64	.1094	SA1111094	SA2111094	SA3111094
#35	.1100	SA1111100	SA2111100	SA3111100
#34	.1110	SA1111110	SA2111110	SA3111110
#33	.1130	SA1111130	SA2111130	SA3111130
#32	.1160	SA1111160	SA2111160	SA3111160
#31	.1200	SA1111200	SA2111200	SA3111200
1/8	.1250	SA1111250	SA2111250	SA3111250
#30	.1285	SA1111285	SA2111285	SA3111285
#29	.1360	SA1111360	SA2111360	SA3111360
#28	.1405	SA1111405	SA2111405	SA3111405
9/64	.1406	SA1111406	SA2111406	SA3111406
#27	.1440	SA1111440	SA2111440	SA3111440
#26	.1470	SA1111470	SA2111470	SA3111470
#25	.1495	SA1111495	SA2111495	SA3111495
#24	.1520	SA1111520	SA2111520	SA3111520
#23	.1540	SA1111540	SA2111540	SA3111540
5/32	.1562	SA1111562	SA2111562	SA3111562
#22	.1570	SA1111570	SA2111570	SA3111570
#21	.1590	SA1111590	SA2111590	SA3111590
#20	.1610	SA1111610	SA2111610	SA3111610
#19	.1660	SA1111660	SA2111660	SA3111660
#18	.1695	SA1111695	SA2111695	SA3111695
11/64	.1719	SA1111719	SA2111719	SA3111719
#17	.1730	SA1111730	SA2111730	SA3111730
#16	.1770	SA1111770	SA2111770	SA3111770
#15	.1800	SA1111800	SA2111800	SA3111800
#14	.1820	SA1111820	SA2111820	SA3111820
#13	.1850	SA1111850	SA2111850	SA3111850
3/16	.1875	SA1111875	SA2111875	SA3111875
#12	.1890	SA1111890	SA2111890	SA3111890
#11	.1910	SA1111910	SA2111910	SA3111910
#10	.1935	SA1111935	SA2111935	SA3111935
#9	.1960	SA1111960	SA2111960	SA3111960
#8	.1990	SA1111990	SA2111990	SA3111990
#7	.2010	SA1112010	SA2112010	SA3112010
13/64	.2031	SA1112031	SA2112031	SA3112031
#6	.2040	SA1112040	SA2112040	SA3112040
#5	.2055	SA1112055	SA2112055	SA3112055
#4	.2090	SA1112090	SA2112090	SA3112090
#3	.2130	SA1112130	SA2112130	SA3112130
7/32	.2188	SA1112188	SA2112188	SA3112188
#2	.2210	SA1112210	SA2112210	SA3112210
#1	.2280	SA1112280	SA2112280	SA3112280
"A"	.2340	SA1112340	SA2112340	SA3112340
15/64	.2344	SA1112344	SA2112344	SA3112344
"B"	.2380	SA1112380	SA2112380	SA3112380
"C"	.2420	SA1112420	SA2112420	SA3112420
"D"	.2460	SA1112460	SA2112460	SA3112460
1/4	.2500	SA1112500	SA2112500	SA3112500
"E"	.2570	SA1112570	SA2112570	SA3112570
"G"	.2610	SA1112610	SA2112610	SA3112610
5/16	.3125	SA1113125	SA2113125	SA3113125
3/8	.3750	SA1113750	SA2113750	SA3113750

Stub



Short



Long



Other sizes available upon request.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Threaded Shank Drills

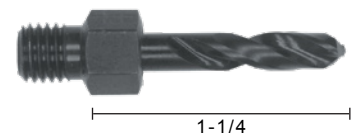
NAS 965 Type D • Cobalt 135 Degree Split Point • 1/4-28 UNF Class 2A Thread

Size	Decimal Equivalent	Part No. Stub	Part No. Short	Part No. Long
3/32	.0938	SA1520938	SA2520938	SA3520938
#40	.0980	SA1520980	SA2520980	SA3520980
#39	.0995	SA1520995	SA2520995	SA3520995
#38	.1015	SA1521015	SA2521015	SA3521015
#37	.1040	SA1521040	SA2521040	SA3521040
#36	.1065	SA1521065	SA2521065	SA3521065
7/64	.1094	SA1521094	SA2521094	SA3521094
#35	.1100	SA1521100	SA2521100	SA3521100
#34	.1110	SA1521110	SA2521110	SA3521110
#33	.1130	SA1521130	SA2521130	SA3521130
#32	.1160	SA1521160	SA2521160	SA3521160
#31	.1200	SA1521200	SA2521200	SA3521200
1/8	.1250	SA1521250	SA2521250	SA3521250
#30	.1285	SA1521285	SA2521285	SA3521285
#29	.1360	SA1521360	SA2521360	SA3521360
#28	.1405	SA1521405	SA2521405	SA3521405
9/64	.1406	SA1521406	SA2521406	SA3521406
#27	.1440	SA1521440	SA2521440	SA3521440
#25	.1470	SA1521470	SA2521470	SA3521470
#24	.1495	SA1521495	SA2521495	SA3521495
#23	.1520	SA1521520	SA2521520	SA3521520
5/32	.1540	SA1521540	SA2521540	SA3521540
#22	.1562	SA1521562	SA2521562	SA3521562
#21	.1570	SA1521570	SA2521570	SA3521570
#20	.1590	SA1521590	SA2521590	SA3521590
#19	.1610	SA1521610	SA2521610	SA3521610
#18	.1660	SA1521660	SA2521660	SA3521660
11/64	.1695	SA1521695	SA2521695	SA3521695
#17	.1719	SA1521719	SA2521719	SA3521719
#16	.1730	SA1521730	SA2521730	SA3521730
#15	.1770	SA1521770	SA2521770	SA3521770
#14	.1800	SA1521800	SA2521800	SA3521800
#13	.1820	SA1521820	SA2521820	SA3521820
3/16	.1850	SA1521850	SA2521850	SA3521850
#12	.1875	SA1521875	SA2521875	SA3521875
#11	.1890	SA1521890	SA2521890	SA3521890
#10	.1910	SA1521910	SA2521910	SA3521910
#9	.1935	SA1521935	SA2521935	SA3521935
#8	.1960	SA1521960	SA2521960	SA3521960
#7	.1990	SA1521990	SA2521990	SA3521990
13/64	.2010	SA1522010	SA2522010	SA3522010
#6	.2031	SA1522031	SA2522031	SA3522031
#5	.2040	SA1522040	SA2522040	SA3522040
#4	.2055	SA1522055	SA2522055	SA3522055
#3	.2090	SA1522090	SA2522090	SA3522090
7/32	.2130	SA1522130	SA2522130	SA3522130
#2	.2188	SA1522188	SA2522188	SA3522188
#1	.2210	SA1522210	SA2522210	SA3522210
"A"	.2280	SA1522280	SA2522280	SA3522280
15/64	.2340	SA1522340	SA2522340	SA3522340
"B"	.2344	SA1522344	SA2522344	SA3522344
"C"	.2380	SA1522380	SA2522380	SA3522380
"D"	.2420	SA1522420	SA2522420	SA3522420
1/4	.2460	SA1522460	SA2522460	SA3522460
"F"	.2500	SA1522500	SA2522500	SA3522500
"G"	.2570	SA1522570	SA2522570	SA3522570
5/16	.2610	SA1522610	SA2522610	SA3522610
3/8	.3125	SA1523125	SA2523125	SA3523125

Stub



Short



Long



Other sizes available upon request.

Safety Precaution: Read and follow all safety and operating instructions.

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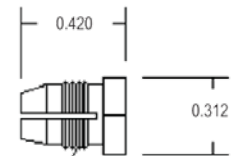


SABRE AIRCRAFT TOOLS

Angle Drill Collets Type A

9/32-40 Split Collets

Part No.	Hole Size	Part No.	Hole Size
SA910312	1/32	SA911024	2.6mm
SA910315	0.8mm	SA911040	37
SA910354	0.9mm	SA911063	2.7mm
SA910394	1.0	SA911065	36
SA910400	60	SA911094	7/64
SA910410	59	SA911102	2.8mm
SA910420	58	SA911142	2.9mm
SA910430	57	SA911181	3.0mm
SA910433	1.1mm	SA911220	3.1mm
SA910465	56	SA911250	1/8
SA910469	3/64	SA911260	3.2mm
SA910472	1.2mm	SA911285	30
SA910512	1.3mm	SA911299	3.3mm
SA910520	55	SA911339	3.4mm
SA910550	54	SA911378	3.5mm
SA910551	1.4mm	SA911406	9/64
SA910591	1.5mm	SA911417	3.6mm
SA910595	53	SA911440	#27
SA910625	1/16	SA911457	3.7mm
SA910630	1.6mm	SA911470	26
SA910635	52	SA911496	3.8mm
SA910669	1.7mm	SA911520	24
SA910670	51	SA911535	3.9mm
SA910700	50	SA911562	5/32
SA910709	1.8mm	SA911575	4.0mm
SA910730	49	SA911590	21
SA910748	1.9mm	SA911610	20
SA910760	48	SA911614	4.1mm
SA910781	5/64	SA911654	4.2mm
SA910785	47	SA911660	19
SA910787	2	SA911693	4.3mm
SA910810	46	SA911719	11/64
SA910820	45	SA911730	#17
SA910827	2.1mm	SA911732	4.4mm
SA910860	44	SA911772	4.5mm
SA910866	2.2mm	SA911800	15
SA910890	43	SA911811	4.6mm
SA910906	2.3mm	SA911820	14
SA910935	42	SA911850	4.7mm
SA910938	3/32	SA911875	3/16
SA910945	2.4mm	SA911890	4.8mm
SA910960	41	SA911910	11
SA910980	40	SA911929	4.9mm
SA910984	2.5mm	SA911935	10
SA910995	19	SA911960	9
SA911015	38	SA911969	5.0mm



9/32 - 40 UNS

Other sizes available upon request

Add (B) to end of part number for Dotco-Buckeye Style
e.g.: SA910980B = #40 Collet



#SA21005

Adapter 9/32"-40 to 1/4"-28 Female

#SA21006

0.430" (11mm) Adapter 1/4"-28 to 9/32"-40 Female

Safety Precaution: Read and follow all safety and operating instructions.

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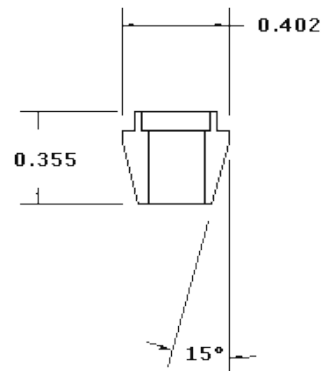
SABRE AIRCRAFT TOOLS

Angle Drill Collets Type B

Part No.	Hole Size	Part No.	Hole Size
SA940312	1/32	SA941094	7/64
SA940315	0.8mm	SA941102	2.8mm
SA940354	0.9mm	SA941142	2.9mm
SA940394	1.0	SA941181	3.0mm
SA940400	60	SA941220	3.1mm
SA940410	59	SA941250	1/8
SA940420	58	SA941260	3.2mm
SA940430	57	SA941285	30
SA940433	1.1mm	SA941299	3.3mm
SA940465	56	SA941339	3.4mm
SA940469	3/64	SA941378	3.5mm
SA940472	1.2mm	SA941406	9/64
SA940512	1.3mm	SA941417	3.6mm
SA940520	55	SA941440	#27
SA940550	54	SA941457	3.7mm
SA940551	1.4mm	SA941470	26
SA940591	1.5mm	SA941496	3.8mm
SA940595	53	SA941520	24
SA940625	1/16	SA941535	3.9mm
SA940630	1.6mm	SA941562	5/32
SA940635	52	SA941575	4.0mm
SA940669	1.7mm	SA941590	21
SA940670	51	SA941610	20
SA940700	50	SA941614	4.1mm
SA940709	1.8mm	SA941654	4.2mm
SA940730	49	SA941660	19
SA940748	1.9mm	SA941693	4.3mm
SA940760	48	SA941719	11/64
SA940781	5/64	SA941730	#17
SA940785	47	SA941732	4.4mm
SA940787	2	SA941772	4.5mm
SA940810	46	SA941800	15
SA940820	45	SA941811	4.6mm
SA940827	2.1mm	SA941820	14
SA940860	44	SA941850	4.7mm
SA940866	2.2mm	SA941875	3/16
SA940890	43	SA941890	4.8mm
SA940906	2.3mm	SA941910	11
SA940935	42	SA941929	4.9mm
SA940938	3/32	SA941935	10
SA940945	2.4mm	SA941960	9
SA940960	41	SA941969	5.0mm
SA940980	40	SA942047	5.2mm
SA940984	2.5mm	SA942126	5.4mm
SA940995	19	SA942205	5.6mm
SA941015	38	SA942283	5.8mm
SA941024	2.6mm	SA942362	6.0mm
SA941040	37	SA942441	6.2mm
SA941063	2.7mm	SA942520	6.4mm
SA941065	36	SA942598	6.6mm



Colletes for 6.6mm



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SABRE AIRCRAFT TOOLS

Angle Drill 1/4"-28 Accessories Drill Collets



Part No.	Drill Size
SA930938	3/32" – .0938
SA930980	#40 – .0980
SA931250	1/8" – .1250
SA931285	#30 – .1285
SA931440	#27 – .1440
SA931562	5/32" – .1562
SA931590	#21 – .1590
SA931610	#20 – .1610
SA931660	#19 – .1660

Part No.	Drill Size
SA931770	#16 – .1770
SA931850	#13 – .1850
SA931875	3/16" – .1875
SA931910	#11 – .1910
SA931935	#10 – .1935
SA931990	#8 – .1990
SA932460	"D" – .2460
SA932550	1/4" – .2500

Part No.	Drill Size
SA931024	2.6mm – .1024
SA931063	2.7mm – .1063
SA931220	3.1mm – .1220
SA931260	3.2mm – .1260
SA931417	3.6mm – .1417
SA931614	4.1mm – .1614
SA931654	4.2mm – .1654
SA932047	5.2mm – .2047
SA932441	6.2mm – .2441
SA932598	6.6mm – .2598

Mini Chuck 0-5/32"



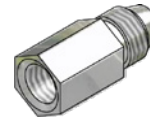
Part No.
SA13500

3 Jaw Mini Chuck 1/16" to 1/4" Cap



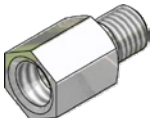
Part No.
SA15003

Adapter 9/32"-40 to 1/4"-28 Female



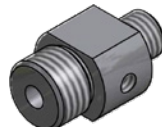
Part No.
SA95005

Adapter 1/4"-28 to 9/32"-40 Female



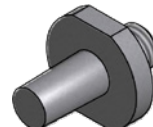
Part No.
SA95006

Adapter Rotabroach 1/4"-28 to 3/8"-24 Male



Part No.
SA95007

Adapter 1/4"-28 to OMT



Part No.
SA95008

Safety Precaution: Read and follow all safety and operating instructions.

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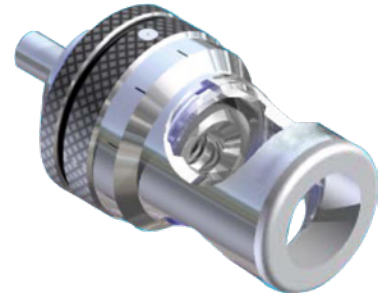


Ⓑ COUNTERSINKING

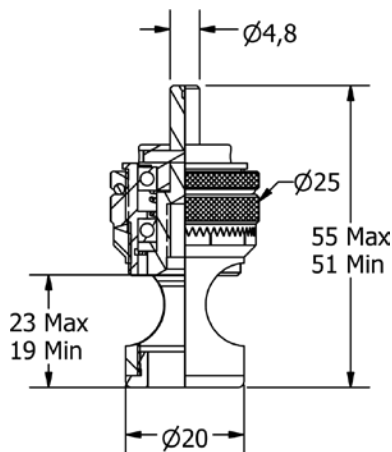
SABRE AIRCRAFT TOOLS

SMC100 Precision Microstop Cage

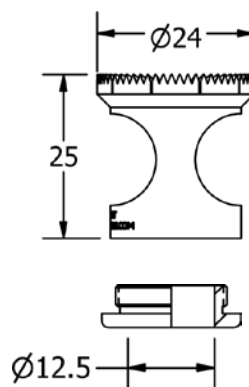
- Full ball bearing design
- 0.0004" (0.01 mm) increment adjustment
- 0.14" (3.5 mm) stroke



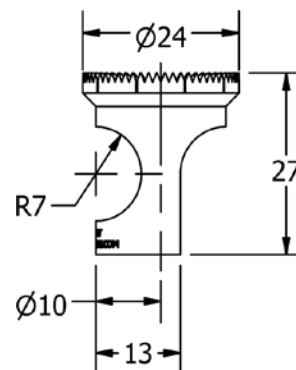
Part No.	Cutter Thread	Threaded Skirt	Offset Skirt	No-Mar Foot Piece	Stainless Foot Piece	Shank inch/mm
S30100	1/4"-28	✓		✓		4.8" (0.188) Round
S30101	1/4"-28	✓			✓	4.8" (0.188) Round
S30102	M6X1	✓		✓		4.8" (0.188) Round
S30103	M6X1	✓			✓	4.8" (0.188) Round
S30104	1/4"-28		✓			4.8" (0.188) Round
S30105	M6X1		✓			4.8" (0.188) Round
S30106	1/4"-28	✓		✓		1/4-28" Male Thread
S30107	1/4"-28	✓			✓	1/4-28" Male Thread
S30108	1/4"-28		✓			1/4-28" Male Thread



#P301010
Standard
Threaded Skirt



#P301015
Offset Skirt



Foot Piece
#P301040 No-Mar
#P301045 Stainless

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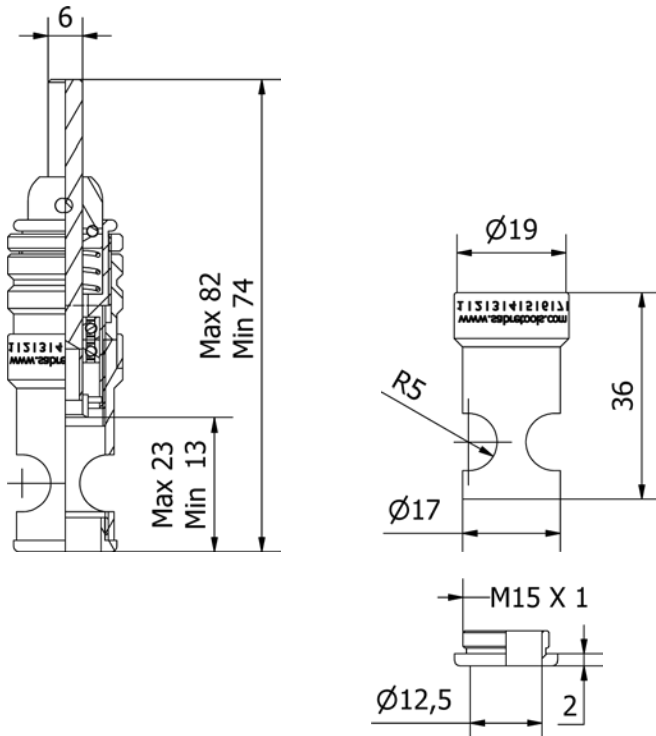


SABRE AIRCRAFT TOOLS

SMC200 Precision Microstop Cage

- Full ball bearing design
- 0.0004" (0.01 mm) increment adjustment
- 0.350" (9.0 mm) stroke

Part No.	Cutter Thread	Threaded Skirt	Offset Skirt	No-Mar Foot Piece	Stainless Foot Piece
S30200	1/4"-28	✓		✓	
S30201	1/4"-28	✓			✓
S30202	1/4"-28		✓		
S30203	M6X1	✓		✓	
S30204	M6X1	✓			✓
S30205	M6X1		✓		



Foot Piece
 #SP30209D No-Mar
 #SP30209 Stainless

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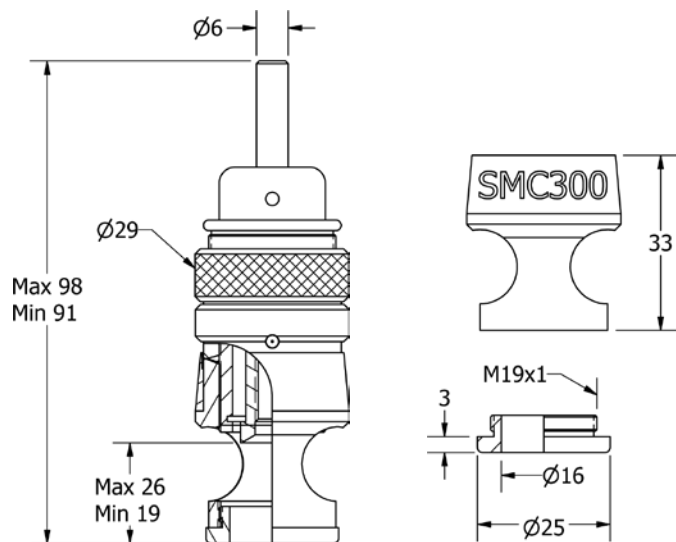


SABRE AIRCRAFT TOOLS

SMC300 Precision Microstop Cage

- Full ball bearing design
- 0.0004" (0.01 mm) increment adjustment
- 0.350" (9.0 mm) stroke

Part No.	Cutter Thread	Threaded Skirt 25mm	No-Mar Foot Piece 25mm	Stainless Foot Piece 25mm	Integrated Skirt 26mm	Offset Skirt
S30300	1/4"-28	✓	✓			
S30301	1/4"-28	✓		✓		
S30302	1/4"-28				✓	
S30303	1/4"-28					✓
S30304	M6X1	✓	✓			
S30305	M6X1	✓		✓		
S30306	M6X1				✓	
S30307	M6X1					✓



Foot Piece
 #SP30326 Stainless
 #SP30327 No-Mar

Safety Precaution: Read and follow all safety and operating instructions.

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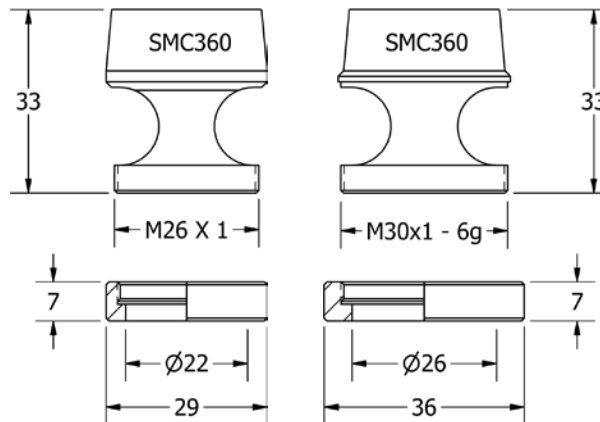
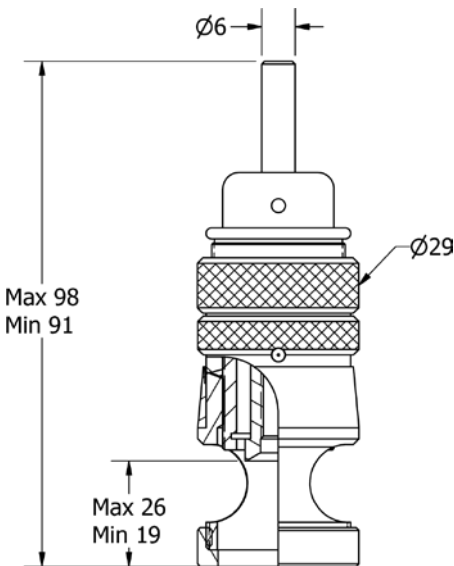


SABRE AIRCRAFT TOOLS

SMC360 Precision Microstop Cage

- Full ball bearing design
- 0.0004" (0.01 mm) increment adjustment
- 0.350" (9.0 mm) stroke

Part No.	Cutter Thread	Threaded Skirt 26mm	No-Mar Foot Piece 26mm	Stainless Foot Piece 26mm	Threaded Skirt 30mm	No-Mar Foot Piece 30mm	Stainless Foot Piece 30mm
S30360	1/4"-28	✓					
S30361	1/4"-28		✓				
S30362	1/4"-28			✓			
S30363	1/4"-28				✓		
S30364	1/4"-28					✓	
S30365	1/4"-28						✓
S30366	M6X1	✓					
S30367	M6X1		✓				
S30368	M6X1			✓			
S30369	M6X1				✓		
S30370	M6X1					✓	
S30371	M6X1						✓
S30380	M8X1	✓					
S30381	M8X1		✓				
S30382	M8X1			✓			
S30383	M8X1				✓		
S30384	M8X1					✓	
S30385	M8X1						✓



Foot Piece
 #SP30305 Stainless
 #SP30305D No-Mar

Foot Piece
 #SP30305A Stainless
 #SP30305AD No-Mar

Safety Precaution: Read and follow all safety and operating instructions.

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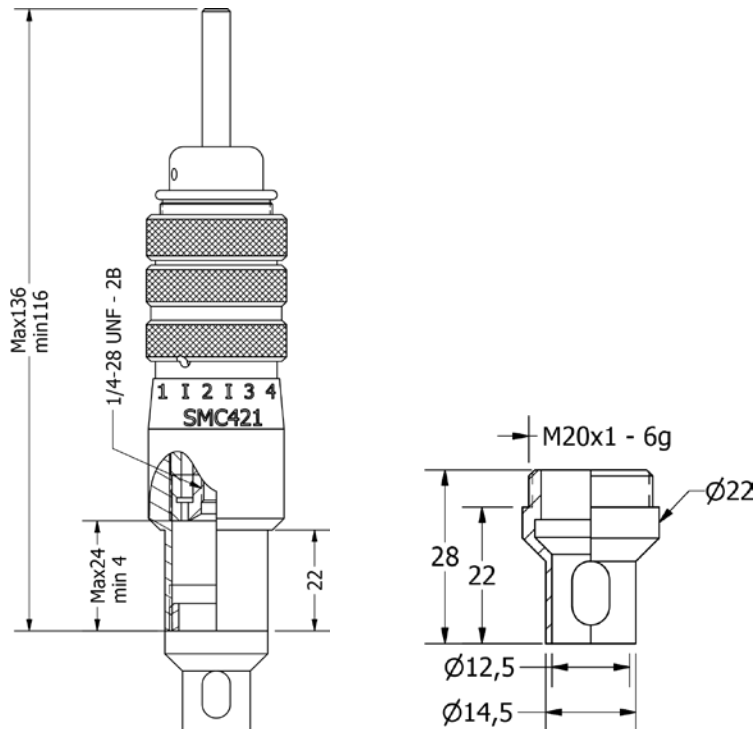
SABRE AIRCRAFT TOOLS

SMC421 Precision Microstop Cage

21mm – 0.826" stroke for drilling, reaming and countersinking

- Full ball bearing design
- 0.0004" (0.01 mm) increment adjustment
- 0.826" (21 mm) stroke

Part No.	Cutter Thread	Skirt 14.5mm	Skirt 24mm	Skirt M35X1	Skirt Tripod
S30421	1/4"-28	✓			
S30422	1/4"-28		✓		
S30423	1/4"-28			✓	
S30424	1/4"-28				✓
S30425	M6X1	✓			
S30426	M6X1		✓		
S30427	M6X1			✓	
S30428	M6X1				✓



Foot Piece M35X1
 #SP30405 Stainless
 #SP30406 No-Mar

Safety Precaution: Read and follow all safety and operating instructions.

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SABRE AIRCRAFT TOOLS

SMC500 Precision Microstop Cage

- Full ball bearing design
- 0.0004" (0.01 mm) increment adjustment
- 0.551" (14.0 mm) stroke

Part No.	Cutter Thread	Skirt 30mm	Skirt 35mm	Skirt 45mm
S30501	3/8"-24	✓		
S30502	3/8"-24		✓	
S30503	3/8"-24			✓
S30504	7/16"-20	✓		
S30505	7/16"-20		✓	
S30506	7/16"-20			✓
S30507	M8X1	✓		
S30508	M8X1		✓	
S30509	M8X1			✓
S30510	M10X1	✓		
S30511	M10X1		✓	
S30512	M10X1			✓



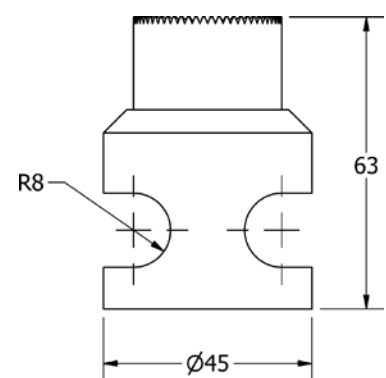
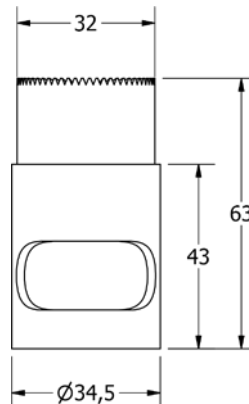
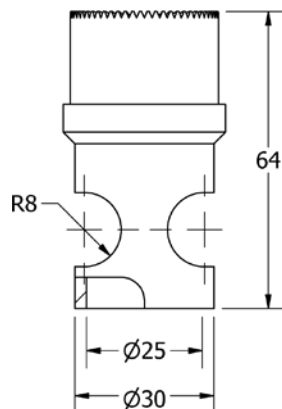
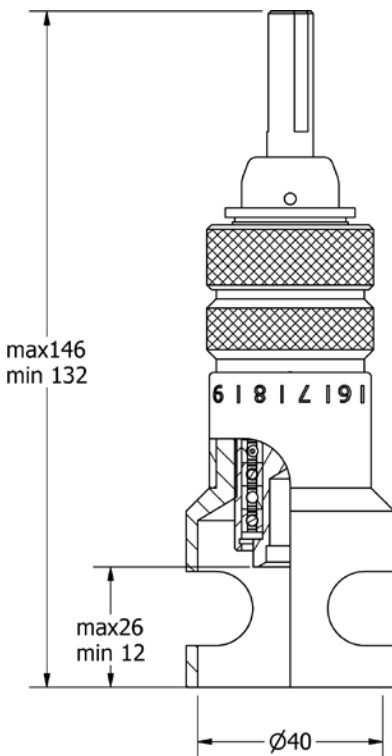
Skirt
45mm



Skirt
35mm



Skirt
30mm



Safety Precaution: Read and follow all safety and operating instructions.

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SABRE AIRCRAFT TOOLS

SMC600 Precision Swivel Microstop Cage

- Full ball bearing design
- 0.0004" (0.01 mm) increment adjustment
- 0.350" (9.0 mm) stroke

Part No.	Cutter Thread	Vacuum Skirt 26mm	No-Mar Foot Piece 26mm	Stainless Foot Piece 26mm	Vacuum Skirt 30mm	No-Mar Foot Piece 30mm	Stainless Foot Piece 30mm
S30600	1/4"-28	✓					
S30601	1/4"-28		✓				
S30602	1/4"-28			✓			
S30603	1/4"-28				✓		
S30604	1/4"-28					✓	
S30605	1/4"-28						✓
S30606	M6X1	✓					
S30607	M6X1		✓				
S30608	M6X1			✓			
S30609	M6X1				✓		
S30610	M6X1					✓	
S30611	M6X1						✓
S30612	M8X1	✓					
S30613	M8X1		✓				
S30614	M8X1			✓			
S30615	M8X1				✓		
S30616	M8X1					✓	
S30617	M8X1						✓



#S30602



#S30600

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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© RIVETING

SABRE AIRCRAFT TOOLS

Striker RRH Series

Vibration-Damped Recoilless Rivet Hammer



Model No.	Description	Capacity Aluminum inch/mm	Blows Hz	Stroke Length inch/mm	Energy Blow ft lb/J	Length inch/mm	Weight lbs/kgs
S20004	SRH04	3/16" (5.0)	66	1.6" (40)	1.5 (2.0)	6.5" (175)	2.2lbs (1.0)
S20006	SRH06	1/4" (6.35)	36	4" (102)	4.4 (6.0)	8.5" (225)	2.9lbs (1.3)
S20008	SRH08	5/16" (8.0)	24	5.4" (137)	5.9 (8.0)	9.4" (244)	3.0lbs (1.4)

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Striker Series Ergonomic Rivet Hammers

A special handle, valve design and piston
Providing more power while absorbing vibration



Model No.	Ref.	Description	Capacity Aluminum inch/mm	Blows/ min	Bore Diameter inch/mm	Stroke Length inch/mm	Rivet Set Size	Length inch/mm	Weight lbs/kgs
S20102	1X	S100 Pistol Handle	1/8" (3.18)	2850	9/16" (14.3)	1-3/8" (35)	.401 Special	4.0" (101)	2.1lbs (0.96)

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.
Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.
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SABRE AIRCRAFT TOOLS

Striker Series Ergonomic Rivet Hammers

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Model No.	Ref.	Description	Capacity Aluminum inch/mm	Blows/ min	Bore Diameter inch/mm	Stroke Length inch/mm	Rivet Set Size	Length inch/mm	Weight lbs/kgs
S20103	1X	S100S Straight Handle	1/8" (3.18)	2850	9/16" (14.3)	1-3/8" (35)	.401 Special	4.0" (101)	2.1lbs (0.96)
S20203	2X	S200S Straight Handle	3/16" (4.76)	2600	1/2" (12.7)	2-1/4" (57)	.401	6.7" (170)	2.2lbs (0.99)
S20303	3X	S300S Straight Handle	1/4" (6.35)	2160	1/2" (12.7)	2-7/8" (73)	.401	7.3" (185)	2.3lbs (1.04)
S20403	4X	S400S Straight Handle	5/16" (7.9)	1740	1/2" (12.7)	3-1/16" (78)	.401	8.3" (210)	2.7lbs (1.22)

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

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SABRE AIRCRAFT TOOLS

Striker Series Ergonomic Rivet Hammers

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Providing more power while absorbing vibration



Model No.	Ref.	Description	Capacity Aluminum inch/mm	Blows/ min	Bore Diameter inch/mm	Stroke Length inch/mm	Rivet Set Size	Length inch/mm	Weight lbs/kgs
S20202	2X	S200 Pistol Handle	3/16" (4.76)	2600	1/2" (12.7)	2-1/4" (57)	.401	6.7" (170)	2.2lbs (0.99)
S20204	2X	S200EX Pistol Handle	7/32" (5.95)	2500	9/16" (14.3)	2-1/4" (57)	.401	6.7" (170)	2.2lbs (0.99)
S20302	3X	S300 Pistol Handle	1/4" (6.35)	2160	1/2" (12.7)	2-7/8" (73)	.401	7.3" (185)	2.3lbs (1.04)
S20304	3X	S300EX Pistol Handle	9/32" (7.14)	2000	9/16" (14.3)	2-7/8" (73)	.401	7.3" (185)	2.3lbs (1.04)
S20402	4X	S400 Pistol Handle	5/16" (7.9)	1740	1/2" (12.7)	3-1/16" (78)	.401	8.3" (210)	2.7lbs (1.22)
S20404	4X	S400EX Pistol Handle	5/16" (7.9)	1700	9/16" (14.3)	3-1/16" (78)	.401	8.3" (210)	2.7lbs (1.22)

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.
Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

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SABRE AIRCRAFT TOOLS

Striker Series Ergonomic Rivet Hammers

A special handle, valve design and piston
Providing more power while absorbing vibration



7X S700 Shown

Model No.	Ref.	Description	Capacity Aluminum inch/mm	Blows/ min	Bore Diameter inch/mm	Stroke Length inch/mm	Rivet Set Size	Length inch/mm	Weight lbs/kgs
S20501	5X	S500 Pistol Handle	5/16" (7.9)	1800	3/4" (19.05)	2-11/16" (68)	.498	8.9" (226)	4.7lbs (2.13)
S20901	9X	S900 Pistol Handle	11/32" (8.73)	1150	3/4" (19.05)	3-7/8" (98)	.498	10.0" (254)	5.1lbs (2.31)
S20701	7X	S700 Pistol Handle	3/8" (9.5)	900	3/4" (19.05)	5-13/16" (132)	.498	11.9" (302)	9.0lbs (4.08)

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

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SABRE AIRCRAFT TOOLS

Standard Rivet Hammers



Part No.	Ref.	Description	Capacity Aluminum inch/mm	Blows/ min	Bore Diameter inch/mm	Stroke Length inch/mm	Rivet Set Size	Length inch/mm	Weight lbs/kgs
S20100	1X	Pistol Handle	3/32" (2.38)	2850	9/16" (14.3)	1-3/8" (35)	.401 Special	4.0" (101)	2.1lbs (0.96)
S20101	1X	Straight Handle	3/32" (2.38)	2850	9/16" (14.3)	1-3/8" (35)	.401 Special	4.0" (101)	2.1lbs (0.96)
S20200	2X	Pistol Handle	1/8" (3.18)	2600	1/2" (12.7)	2-1/4" (57)	.401	6.7" (170)	2.2lbs (0.99)
S20201	2X	Straight Handle	1/8" (3.18)	2600	1/2" (12.7)	2-1/4" (57)	.401	6.7" (170)	2.2lbs (0.99)
S20300	3X	Pistol Handle	3/16" (4.76)	2100	1/2" (12.7)	2-7/8" (73)	.401	7.3" (185)	2.3lbs (1.04)
S20301	3X	Straight Handle	3/16" (4.76)	2100	1/2" (12.7)	2-7/8" (73)	.401	7.3" (185)	2.3lbs (1.04)
S20400	4X	Pistol Handle	1/4" (6.35)	1700	1/2" (12.7)	3-1/16" (78)	.401	8.3" (210)	2.7lbs (1.22)
S20401	4X	Straight Handle	1/4" (6.35)	1700	1/2" (12.7)	3-1/16" (78)	.401	8.3" (210)	2.7lbs (1.22)
S20500	5X	Pistol Handle	1/4" (6.35)	1800	3/4" (19.05)	2-11/16" (68)	.498	8.9" (226)	4.7lbs (2.13)
S20900	9X	Pistol Handle	5/16" (7.9)	1150	3/4" (19.05)	3-7/8" (98)	.498	10.0" (254)	5.1lbs (2.31)
S20700	7X	Pistol Handle	3/8" (9.5)	900	3/4" (19.05)	5-13/16" (132)	.498	11.9" (302)	9.0lbs (4.08)

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

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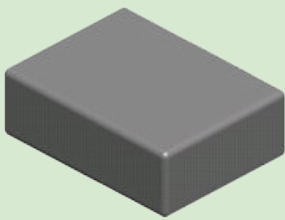
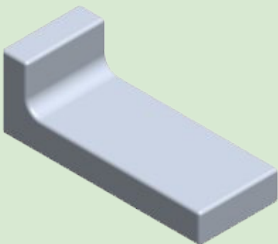
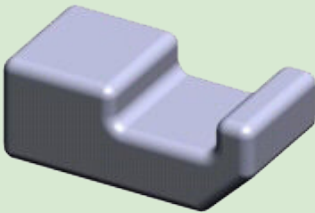
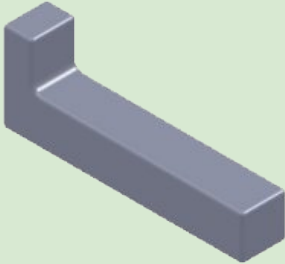
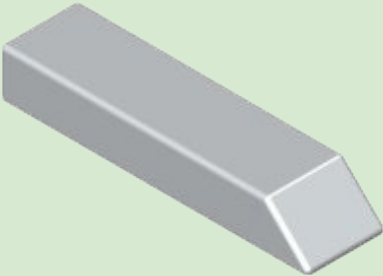
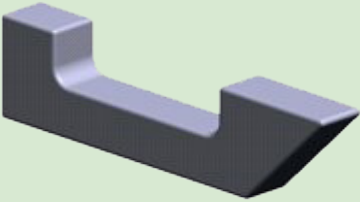
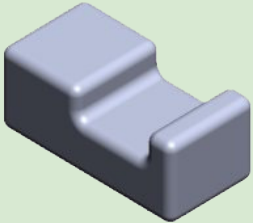
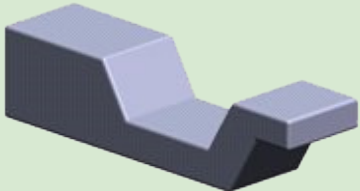
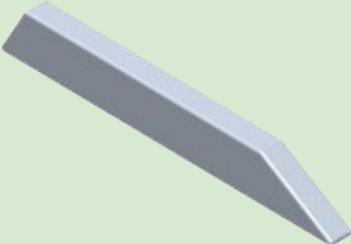
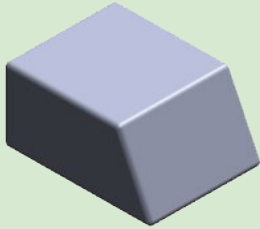
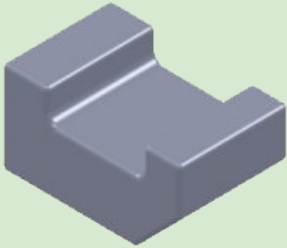
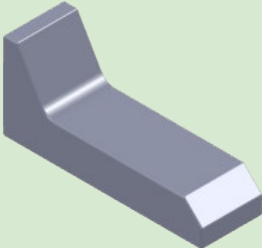
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SABRE AIRCRAFT TOOLS

Tungsten Bucking Bars

		
SA242315	SA242316	SA242317
		
SA242321	SA242323	SA242325
		
SA242327	SA242328	SA242329
		
SA242330	SA242331	SA242333

**We have a variety of other designs available.
Custom designs and drawings are welcome.**

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Vibration-Damped Bucking Bars SBB Series



Model S20016 shown



Model S20016A shown



Model No.	Description	Weight lbs (kg)	Length inch (mm)	Diameter	Air Consumption	
					L/S	CFM
S20010	SBB10 Spring	2.4lbs (1.1kg)	6.49" (165mm)	2.0" (48mm)	–	–
S20016	SBB16 Spring	3.7lbs (1.7kg)	7.87" (200mm)	2.0" (48mm)	–	–
S20010A	SBB10A Air Assist	3.7lbs (1.7kg)	6.49" (165mm)	2.0" (48mm)	0.5 L/S	1.1 CFM
S20016A	SBB16A Air Assist	4.2lbs (1.9kg)	7.87" (200mm)	2.0" (48mm)	0.5 L/S	1.1 CFM

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

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SABRE AIRCRAFT TOOLS

Rivet Sets For 1X Riveter Jiffy Series B Type .401" Shank



AN430 Round	AN442 Flat	AN455 Brazier	AN456 Mod. Brazier	AN470 Universal	AN435 Button	Rivet Size inch/mm	Total Length inch/mm
Part No.	Part No.	Part No.	Part No.	Part No.	Part No.		
SMJ510-4302	SMJ510-4422	SMJ510-4552	SMJ510-4562	SMJ510-4702	SMJ510-4352	1/16" (1.5mm)	1-3/16" (30.2mm)
SMJ510-4303	SMJ510-4423	SMJ510-4553	SMJ510-4563	SMJ510-4703	SMJ510-4353	3/32" (2.5mm)	1-3/16" (30.2mm)
SMJ510-4304	SMJ510-4424	SMJ510-4554	SMJ510-4564	SMJ510-4704	SMJ510-4354	1/8" (3.0mm)	1-3/16" (30.2mm)
SMJ510-4305	SMJ510-4425	SMJ510-4555	SMJ510-4565	SMJ510-4705	SMJ510-4355	5/32" (4.0mm)	1-3/16" (30.2mm)
SMJ510-4306	SMJ510-4426	SMJ510-4556	SMJ510-4566	SMJ510-4706	SMJ510-4356	3/16" (5.0mm)	1-3/16" (30.2mm)
SMJ510-4308	SMJ510-4428	SMJ510-4558	SMJ510-4568	SMJ510-4708	SMJ510-4358	1/4" (6.5mm)	1-3/16" (30.2mm)

Flush Sets For 1X Riveter Jiffy Series B Type .401" Shank

Part No.	Diameter In/mm	Length In/mm
SMJ500	3/8" (9.53mm)	1-3/16" (30.2mm)
SMJ501	1/2" (12.7mm)	1-3/16" (30.2mm)
SMJ502	5/8" (15.86mm)	1-3/16" (30.2mm)



Part No.	Diameter In/mm	Length In/mm
SMJ559	3/4" (19mm)	1-3/8" (34.9mm)
SMJ560	1" (25.4mm)	1-3/8" (34.9mm)
SMJ561	1-1/4" (31.75mm)	1-3/8" (34.9mm)



Part No.	Diameter In/mm	Length In/mm
SMJ530	3/4" (19mm)	1-1/2" (38.1mm)
SMJ531	1" (25.4mm)	1-1/2" (38.1mm)
SMJ532	1-1/4" (31.75mm)	1-1/2" (38.1mm)



With Rubber Guard

Other sizes and lengths available, including metric.

RIVET STYLE CHART								
AN435 Button	AN430 Round	AN455 Brazier	AN456 Mod. Brazier	AN470 Universal	AN442 Flat	BACR 15FT Briles Boeing	AN426 Countersunk	AN450 Semi-Tubular

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SABRE AIRCRAFT TOOLS

Rivet Sets For 1X Riveter Jiffy Series B Type .401" Shank Offset



AN430 Round	AN442 Flat	AN455 Brazier	AN456 Mod. Brazier	AN470 Universal	AN435 Button	Rivet Size inch/mm	Total Length inch/mm
Part No.	Part No.	Part No.	Part No.	Part No.	Part No.		
SMJ520-4302	SMJ520-4422	SMJ520-4552	SMJ520-4562	SMJ520-4702	SMJ520-4352	1/16" (1.5mm)	1-5/8" (41.27mm)
SMJ520-4303	SMJ520-4423	SMJ520-4553	SMJ520-4563	SMJ520-4703	SMJ520-4353	3/32" (2.5mm)	1-5/8" (41.27mm)
SMJ520-4304	SMJ520-4424	SMJ520-4554	SMJ520-4564	SMJ520-4704	SMJ520-4354	1/8" (3.0mm)	1-5/8" (41.27mm)
SMJ520-4305	SMJ520-4425	SMJ520-4555	SMJ520-4565	SMJ520-4705	SMJ520-4355	5/32" (4.0mm)	1-5/8" (41.27mm)
SMJ520-4306	SMJ520-4426	SMJ520-4556	SMJ520-4566	SMJ520-4706	SMJ520-4356	3/16" (5.0mm)	1-5/8" (41.27mm)
SMJ520-4308	SMJ520-4428	SMJ520-4558	SMJ520-4568	SMJ520-4708	SMJ520-4358	1/4" (6.5mm)	1-5/8" (41.27mm)

AN430 Round	AN442 Flat	AN455 Brazier	AN456 Mod. Brazier	AN470 Universal	AN435 Button	Rivet Size inch/mm	Total Length inch/mm
Part No.	Part No.	Part No.	Part No.	Part No.	Part No.		
SMJ523-4302	SMJ523-4422	SMJ523-4552	SMJ523-4562	SMJ523-4702	SMJ523-4352	1/16" (1.5mm)	2" (50.8mm)
SMJ523-4303	SMJ523-4423	SMJ523-4553	SMJ523-4563	SMJ523-4703	SMJ523-4353	3/32" (2.5mm)	2" (50.8mm)
SMJ523-4304	SMJ523-4424	SMJ523-4554	SMJ523-4564	SMJ523-4704	SMJ523-4354	1/8" (3.0mm)	2" (50.8mm)
SMJ523-4305	SMJ523-4425	SMJ523-4555	SMJ523-4565	SMJ523-4705	SMJ523-4355	5/32" (4.0mm)	2" (50.8mm)
SMJ523-4306	SMJ523-4426	SMJ523-4556	SMJ523-4566	SMJ523-4706	SMJ523-4356	3/16" (5.0mm)	2" (50.8mm)
SMJ523-4308	SMJ523-4428	SMJ523-4558	SMJ523-4568	SMJ523-4708	SMJ523-4358	1/4" (6.5mm)	2" (50.8mm)

Other sizes and lengths available, including metric.

RIVET STYLE CHART								
AN435 Button	AN430 Round	AN455 Brazier	AN456 Mod. Brazier	AN470 Universal	AN442 Flat	BACR 15FT Briles Boeing	AN426 Countersunk	AN450 Semi-Tubular

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SABRE AIRCRAFT TOOLS

Flush Sets For 2X-3X-4X Riveters .401" Shank

Part No.	Diameter In/mm	Length In/mm
SM90	1" (25.4mm)	2-1/2" (63.5mm)
SM91	1" (25.4mm)	3" (76.2mm)
SM92	1" (25.4mm)	5-1/2" (139.7mm)
SM93	1" (25.4mm)	7-1/2" (190.5mm)
SM94	1-1/4" (31.75mm)	3" (76.2mm)
SM95	1-1/4" (31.75mm)	5-1/2" (139.7mm)
SM96	1-1/2" (38.1mm)	3-1/8" (79.4mm)
SM97	1-3/4" (44.5mm)	3-1/4" (82.5mm)
SM98	1-1/8" (28.6mm)	2-1/4" (57.6mm)
SM99	1-1/4" (31.75mm)	2-1/4" (57.6mm)
SM99A	Specify Dimensions	



Part No.	Diameter In/mm	Length In/mm
SM170	3/4" (19mm)	2-1/2" (63.5mm)
SM171	1" (25.4mm)	2-1/2" (63.5mm)
SM172	1-1/4" (31.75mm)	2-1/2" (63.5mm)



With Rubber Guard

Part No.	Diameter In/mm	Length In/mm
SM140	1" (25.4mm)	2-1/2" (63.5mm)
SM141	1" (25.4mm)	5-1/2" (139.7mm)
SM142	1" (25.4mm)	7-1/2" (190.5mm)
SM143	1-1/4" (31.75mm)	3-1/2" (88.9mm)
SM144	1-1/4" (31.75mm)	5-1/2" (139.7mm)
SM145	1-1/4" (31.75mm)	7-1/2" (190.5mm)
SM146	Specify Dimensions	



RIVET STYLE CHART								
AN435 Button	AN430 Round	AN455 Brazier	AN456 Mod. Brazier	AN470 Universal	AN442 Flat	BACR 15FT Briles Boeing	AN426 Countersunk	AN450 Semi-Tubular

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SABRE AIRCRAFT TOOLS

.401" Shank Rivet Sets 2X-3X-4X



AN430 Part No.	AN442 Part No.	AN455 Part No.	AN456 Part No.	AN470 Part No.	AN435 Part No.	Rivet Size inch/mm	Total Length inch/mm
SM10-4302	SM10-4422	SM10-4552	SM10-4562	SM10-4702	SM10-4352	1/16" (1.5mm)	3.5" (89mm)
SM10-4303	SM10-4423	SM10-4553	SM10-4563	SM10-4703	SM10-4353	3/32" (2.5mm)	3.5" (89mm)
SM10-4304	SM10-4424	SM10-4554	SM10-4564	SM10-4704	SM10-4354	1/8" (3.0mm)	3.5" (89mm)
SM10-4305	SM10-4425	SM10-4555	SM10-4565	SM10-4705	SM10-4355	5/32" (4.0mm)	3.5" (89mm)
SM10-4306	SM10-4426	SM10-4556	SM10-4566	SM10-4706	SM10-4356	3/16" (5.0mm)	3.5" (89mm)
SM10-4308	SM10-4428	SM10-4558	SM10-4568	SM10-4708	SM10-4358	1/4" (6.5mm)	3.5" (89mm)
SM11-4302	SM11-4422	SM11-4552	SM11-4562	SM11-4702	SM11-4352	1/16" (1.5mm)	5.5" (140mm)
SM11-4303	SM11-4423	SM11-4553	SM11-4563	SM11-4703	SM11-4353	3/32" (2.5mm)	5.5" (140mm)
SM11-4304	SM11-4424	SM11-4554	SM11-4564	SM11-4704	SM11-4354	1/8" (3.0mm)	5.5" (140mm)
SM11-4305	SM11-4425	SM11-4555	SM11-4565	SM11-4705	SM11-4355	5/32" (4.0mm)	5.5" (140mm)
SM11-4306	SM11-4426	SM11-4556	SM11-4566	SM11-4706	SM11-4356	3/16" (5.0mm)	5.5" (140mm)
SM11-4308	SM11-4428	SM11-4558	SM11-4568	SM11-4708	SM11-4358	1/4" (6.5mm)	5.5" (140mm)
SM12-4302	SM12-4422	SM12-4552	SM12-4562	SM12-4702	SM12-4352	1/16" (1.5mm)	7.5" (190mm)
SM12-4303	SM12-4423	SM12-4553	SM12-4563	SM12-4703	SM12-4353	3/32" (2.5mm)	7.5" (190mm)
SM12-4304	SM12-4424	SM12-4554	SM12-4564	SM12-4704	SM12-4354	1/8" (3.0mm)	7.5" (190mm)
SM12-4305	SM12-4425	SM12-4555	SM12-4565	SM12-4705	SM12-4355	5/32" (4.0mm)	7.5" (190mm)
SM12-4306	SM12-4426	SM12-4556	SM12-4566	SM12-4706	SM12-4356	3/16" (5.0mm)	7.5" (190mm)
SM12-4308	SM12-4428	SM12-4558	SM12-4568	SM12-4708	SM12-4358	1/4" (6.5mm)	7.5" (190mm)
SM13-4302	SM13-4422	SM13-4552	SM13-4562	SM13-4702	SM13-4352	1/16" (1.5mm)	10.5" (267mm)
SM13-4303	SM13-4423	SM13-4553	SM13-4563	SM13-4703	SM13-4353	3/32" (2.5mm)	10.5" (267mm)
SM13-4304	SM13-4424	SM13-4554	SM13-4564	SM13-4704	SM13-4354	1/8" (3.0mm)	10.5" (267mm)
SM13-4305	SM13-4425	SM13-4555	SM13-4565	SM13-4705	SM13-4355	5/32" (4.0mm)	10.5" (267mm)
SM13-4306	SM13-4426	SM13-4556	SM13-4566	SM13-4706	SM13-4356	3/16" (5.0mm)	10.5" (267mm)
SM13-4308	SM13-4428	SM13-4558	SM13-4568	SM13-4708	SM13-4358	1/4" (6.5mm)	10.5" (267mm)
SM14-4302	SM14-4422	SM14-4552	SM14-4562	SM14-4702	SM14-4352	1/16" (1.5mm)	13.5" (343mm)
SM14-4303	SM14-4423	SM14-4553	SM14-4563	SM14-4703	SM14-4353	3/32" (2.5mm)	13.5" (343mm)
SM14-4304	SM14-4424	SM14-4554	SM14-4564	SM14-4704	SM14-4354	1/8" (3.0mm)	13.5" (343mm)
SM14-4305	SM14-4425	SM14-4555	SM14-4565	SM14-4705	SM14-4355	5/32" (4.0mm)	13.5" (343mm)
SM14-4306	SM14-4426	SM14-4556	SM14-4566	SM14-4706	SM14-4356	3/16" (5.0mm)	13.5" (343mm)
SM14-4308	SM14-4428	SM14-4558	SM14-4568	SM14-4708	SM14-4358	1/4" (6.5mm)	13.5" (343mm)

RIVET STYLE CHART								
AN435 Button	AN430 Round	AN455 Brazier	AN456 Mod. Brazier	AN470 Universal	AN442 Flat	BACR 15FT Briles Boeing	AN426 Countersunk	AN450 Semi-Tubular

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Rivet Sets For 2X-3X-4X Riveters .401" Shank Offset



AN430 Part No.	AN442 Part No.	AN455 Part No.	AN456 Part No.	AN470 Part No.	AN435 Part No.	Rivet Size inch/mm	Total Length inch/mm
SM20-4302	SM20-4422	SM20-4552	SM20-4562	SM20-4702	SM20-4352	1/16" (1.5mm)	3.5" (89mm)
SM20-4303	SM20-4423	SM20-4553	SM20-4563	SM20-4703	SM20-4353	3/32" (2.5mm)	3.5" (89mm)
SM20-4304	SM20-4424	SM20-4554	SM20-4564	SM20-4704	SM20-4354	1/8" (3.0mm)	3.5" (89mm)
SM20-4305	SM20-4425	SM20-4555	SM20-4565	SM20-4705	SM20-4355	5/32" (4.0mm)	3.5" (89mm)
SM20-4306	SM20-4426	SM20-4556	SM20-4566	SM20-4706	SM20-4356	3/16" (5.0mm)	3.5" (89mm)
SM20-4308	SM20-4428	SM20-4558	SM20-4568	SM20-4708	SM20-4358	1/4" (6.5mm)	3.5" (89mm)
SM21-4302	SM21-4422	SM21-4552	SM21-4562	SM21-4702	SM21-4352	1/16" (1.5mm)	5.5" (140mm)
SM21-4303	SM21-4423	SM21-4553	SM21-4563	SM21-4703	SM21-4353	3/32" (2.5mm)	5.5" (140mm)
SM21-4304	SM21-4424	SM21-4554	SM21-4564	SM21-4704	SM21-4354	1/8" (3.0mm)	5.5" (140mm)
SM21-4305	SM21-4425	SM21-4555	SM21-4565	SM21-4705	SM21-4355	5/32" (4.0mm)	5.5" (140mm)
SM21-4306	SM21-4426	SM21-4556	SM21-4566	SM21-4706	SM21-4356	3/16" (5.0mm)	5.5" (140mm)
SM21-4308	SM21-4428	SM21-4558	SM21-4568	SM21-4708	SM21-4358	1/4" (6.5mm)	5.5" (140mm)
SM22-4302	SM22-4422	SM22-4552	SM22-4562	SM22-4702	SM22-4352	1/16" (1.5mm)	7.5" (190mm)
SM22-4303	SM22-4423	SM22-4553	SM22-4563	SM22-4703	SM22-4353	3/32" (2.5mm)	7.5" (190mm)
SM22-4304	SM22-4424	SM22-4554	SM22-4564	SM22-4704	SM22-4354	1/8" (3.0mm)	7.5" (190mm)
SM22-4305	SM22-4425	SM22-4555	SM22-4565	SM22-4705	SM22-4355	5/32" (4.0mm)	7.5" (190mm)
SM22-4306	SM22-4426	SM22-4556	SM22-4566	SM22-4706	SM22-4356	3/16" (5.0mm)	7.5" (190mm)
SM22-4308	SM22-4428	SM22-4558	SM22-4568	SM22-4708	SM22-4358	1/4" (6.5mm)	7.5" (190mm)
SM23-4302	SM23-4422	SM23-4552	SM23-4562	SM23-4702	SM23-4352	1/16" (1.5mm)	10.5" (267mm)
SM23-4303	SM23-4423	SM23-4553	SM23-4563	SM23-4703	SM23-4353	3/32" (2.5mm)	10.5" (267mm)
SM23-4304	SM23-4424	SM23-4554	SM23-4564	SM23-4704	SM23-4354	1/8" (3.0mm)	10.5" (267mm)
SM23-4305	SM23-4425	SM23-4555	SM23-4565	SM23-4705	SM23-4355	5/32" (4.0mm)	10.5" (267mm)
SM23-4306	SM23-4426	SM23-4556	SM23-4566	SM23-4706	SM23-4356	3/16" (5.0mm)	10.5" (267mm)
SM23-4308	SM23-4428	SM23-4558	SM23-4568	SM23-4708	SM23-4358	1/4" (6.5mm)	10.5" (267mm)
SM24-4302	SM24-4422	SM24-4552	SM24-4562	SM24-4702	SM24-4352	1/16" (1.5mm)	13.5" (343mm)
SM24-4303	SM24-4423	SM24-4553	SM24-4563	SM24-4703	SM24-4353	3/32" (2.5mm)	13.5" (343mm)
SM24-4304	SM24-4424	SM24-4554	SM24-4564	SM24-4704	SM24-4354	1/8" (3.0mm)	13.5" (343mm)
SM24-4305	SM24-4425	SM24-4555	SM24-4565	SM24-4705	SM24-4355	5/32" (4.0mm)	13.5" (343mm)
SM24-4306	SM24-4426	SM24-4556	SM24-4566	SM24-4706	SM24-4356	3/16" (5.0mm)	13.5" (343mm)
SM24-4308	SM24-4428	SM24-4558	SM24-4568	SM24-4708	SM24-4358	1/4" (6.5mm)	13.5" (343mm)

RIVET STYLE CHART								
AN435 Button	AN430 Round	AN455 Brazier	AN456 Mod. Brazier	AN470 Universal	AN442 Flat	BACR 15FT Briles Boeing	AN426 Countersunk	AN450 Semi-Tubular

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Rivet Sets For 2X-3X-4X Riveters .401" Shank Double Offset



AN430 Round	AN442 Flat	AN455 Brazier	AN456 Mod. Brazier	AN470 Universal	AN435 Button	Rivet Size inch/mm	Total Length inch/mm
Part No.	Part No.	Part No.	Part No.	Part No.	Part No.		
SM130-4302	SM130-4422	SM130-4552	SM130-4562	SM130-4702	SM130-4352	1/16" (1.5mm)	5.5" (140mm)
SM130-4303	SM130-4423	SM130-4553	SM130-4563	SM130-4703	SM130-4353	3/32" (2.5mm)	5.5" (140mm)
SM130-4304	SM130-4424	SM130-4554	SM130-4564	SM130-4704	SM130-4354	1/8" (3.0mm)	5.5" (140mm)
SM130-4305	SM130-4425	SM130-4555	SM130-4565	SM130-4705	SM130-4355	5/32" (4.0mm)	5.5" (140mm)
SM130-4306	SM130-4426	SM130-4556	SM130-4566	SM130-4706	SM130-4356	3/16" (5.0mm)	5.5" (140mm)
SM130-4308	SM130-4428	SM130-4558	SM130-4568	SM130-4708	SM130-4358	1/4" (6.5mm)	5.5" (140mm)
SM131-4302	SM131-4422	SM131-4552	SM131-4562	SM131-4702	SM131-4352	1/16" (1.5mm)	7.5" (190mm)
SM131-4303	SM131-4423	SM131-4553	SM131-4563	SM131-4703	SM131-4353	3/32" (2.5mm)	7.5" (190mm)
SM131-4304	SM131-4424	SM131-4554	SM131-4564	SM131-4704	SM131-4354	1/8" (3.0mm)	7.5" (190mm)
SM131-4305	SM131-4425	SM131-4555	SM131-4565	SM131-4705	SM131-4355	5/32" (4.0mm)	7.5" (190mm)
SM131-4306	SM131-4426	SM131-4556	SM131-4566	SM131-4706	SM131-4356	3/16" (5.0mm)	7.5" (190mm)
SM131-4308	SM131-4428	SM131-4558	SM131-4568	SM131-4708	SM131-4358	1/4" (6.5mm)	7.5" (190mm)



Gooseneck

AN430 Round	AN442 Flat	AN455 Brazier	AN456 Mod. Brazier	AN470 Universal	AN435 Button	Rivet Size inch/mm	Total Length inch/mm
Part No.	Part No.	Part No.	Part No.	Part No.	Part No.		
SMGN-4302	SMGN-4422	SMGN-4552	SMGN-4562	SMGN-4702	SMGN-4352	1/16" (1.5mm)	7.5" (190mm)
SMGN-4303	SMGN-4423	SMGN-4553	SMGN-4563	SMGN-4703	SMGN-4353	3/32" (2.5mm)	7.5" (190mm)
SMGN-4304	SMGN-4424	SMGN-4554	SMGN-4564	SMGN-4704	SMGN-4354	1/8" (3.0mm)	7.5" (190mm)
SMGN-4305	SMGN-4425	SMGN-4555	SMGN-4565	SMGN-4705	SMGN-4355	5/32" (4.0mm)	7.5" (190mm)
SMGN-4306	SMGN-4426	SMGN-4556	SMGN-4566	SMGN-4706	SMGN-4356	3/16" (5.0mm)	7.5" (190mm)
SMGN-4308	SMGN-4428	SMGN-4558	SMGN-4568	SMGN-4708	SMGN-4358	1/4" (6.5mm)	7.5" (190mm)

RIVET STYLE CHART								
								
AN435 Button	AN430 Round	AN455 Brazier	AN456 Mod. Brazier	AN470 Universal	AN442 Flat	BACR 15FT Briles Boeing	AN426 Countersunk	AN450 Semi-Tubular

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Single Cylinder Alligator Rivet Squeezers



Model Number	Capacity Rivet Diameter		Reach inch/mm	Gap inch/mm	Maximum Force @90PSI (620KPA)		Maximum Travel inch/mm	Weight lbs/kgs	Length inch/mm
	Alu. inch/mm	Steel inch/mm			lbs	kn			
Single Cylinder									
S22115	1/8" (3.18)	3/32" (2.36)	1-1/2" (38mm)	7/8" (22mm)	3000	13.4	5/8" (16)	3.75lbs (1.7kgs)	9.3" (235)
S22120	3/32" (2.36)	3/32" (2.36)	2-1/4" (57.15mm)	7/8" (22mm)	2400	10.68	7/8" (22)	4.5lbs (2.04kgs)	10" (254)
S22130	3/32" (2.36)	1/16" (1.57)	3" (76.2mm)	7/8" (22mm)	1800	8.01	1-1/4" (31.7)	5lbs (2.26kgs)	10.75" (273)
Adjustable Set Holder Models									
S22115AS	1/8" (3.18)	3/32" (2.36)	1-1/2" (38mm)	7/8" (22mm)	3000	13.4	5/8" (16)	3.75lbs (1.7kgs)	9.3" (235)
S22120AS	3/32" (2.36)	3/32" (2.36)	2-1/4" (57.15mm)	7/8" (22mm)	2400	10.68	7/8" (22)	4.5lbs (2.04kgs)	10" (254)
S22130AS	3/32" (2.36)	1/16" (1.57)	3" (76.2mm)	7/8" (22mm)	1800	8.01	1-1/4" (31.7)	5lbs (2.26kgs)	10.75" (273)

Special jaws available upon request, customer drawings welcome.

5mm Set Holders available. Add "M" to model number.

E.g. S22115ASM = 5mm Adjustable Set Holder

High Output wedge available on above models.

Increasing output power add "HP" to model number.

E.g. S22115HP

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Single Cylinder “C” Yoke Rivet Squeezers



Model Number	Capacity Rivet Diameter		Reach inch/mm	Gap inch/mm	Maximum Force @90PSI (620KPA)		Maximum Travel inch/mm	Weight lbs/kgs	Length inch/mm
	Alu. inch/mm	Steel inch/mm			lbs	kn			
Single Cylinder “C”									
S22615	1/8” (3.18)	3/32” (2.36)	1-1/2” (38mm)	1-1/4” (31.7)	3000	13.4	9/16” (14.27)	4.5lbs (2.04kgs)	10.25” (260)
S22620	1/8” (3.18)	3/32” (2.36)	2” (50.8mm)	1-1/4” (31.7)	3000	13.4	9/16” (14.27)	4.5lbs (2.04kgs)	10.25” (260)
S22625	1/8” (3.18)	3/32” (2.36)	2-1/2” (63.5mm)	1-1/4” (31.7)	3000	13.4	9/16” (14.27)	4.75lbs (2.15kgs)	10.5” (272)
S22630	1/8” (3.18)	3/32” (2.36)	3” (76.2mm)	1-1/4” (31.7)	3000	13.4	9/16” (14.27)	4.75lbs (2.15kgs)	10.5” (272)
S22640	1/8” (3.18)	3/32” (2.36)	4” (101.6mm)	1-3/8” (41.3)	3000	13.4	9/16” (14.27)	4.75lbs (2.15kgs)	10.5” (272)
Adjustable Set Holder Models									
S22615AS	1/8” (3.18)	3/32” (2.36)	1-1/2” (38mm)	1-1/4” (31.7)	3000	13.4	9/16” (14.27)	5.5lbs (2.50kgs)	14” (356)
S22620AS	1/8” (3.18)	3/32” (2.36)	2” (50.8mm)	1-1/4” (31.7)	3000	13.4	9/16” (14.27)	5.5lbs (2.50kgs)	14” (356)
S22625AS	1/8” (3.18)	3/32” (2.36)	2-1/2” (63.5mm)	1-1/4” (31.7)	3000	13.4	9/16” (14.27)	5.5lbs (2.50kgs)	14” (356)
S22630AS	1/8” (3.18)	3/32” (2.36)	3” (76.2mm)	1-1/4” (31.7)	3000	13.4	9/16” (14.27)	5.5lbs (2.50kgs)	14” (356)
S22640AS	1/8” (3.18)	3/32” (2.36)	4” (101.6mm)	1-3/8” (41.3)	3000	13.4	9/16” (14.27)	5.5lbs (2.50kgs)	14” (356)

Special jaws available upon request, customer drawings welcome.

5mm Set Holders available. Add “M” to model number.

E.g. S22615ASM = 5mm Adjustable Set Holder

High Output wedge available on above models.

Increasing output power add “HP” to model number.

E.g. S22615HP

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Tandem Cylinder Alligator Rivet Squeezers



Model Number	Capacity Rivet Diameter		Reach inch/mm	Gap inch/mm	Maximum Force @90PSI (620KPA)		Maximum Travel inch/mm	Weight lbs/kgs	Length inch/mm
	Alu. inch/mm	Steel inch/mm			lbs	kn			
Tandem Cylinder Alligator									
S22215	3/16" (4.75)	5/32" (3.90)	1-1/2" (38mm)	7/8" (22mm)	6000	26.70	5/8" (16)	5.5lbs (2.50kgs)	12" (305)
S22220	3/16" (4.75)	1/8" (3.18)	2-1/4" (57.15mm)	7/8" (22mm)	4600	20.47	7/8" (22)	5.5lbs (2.50kgs)	12.75" (324)
S22230	5/32" (3.90)	3/32" (2.36)	3" (76.2mm)	7/8" (22mm)	3400	15.13	1-1/4" (31.7)	6lbs (2.72kgs)	13.5" (343)
Adjustable Set Holder Models									
S22215AS	3/16" (4.75)	5/32" (3.90)	1-1/2" (38mm)	7/8" (22mm)	6000	26.70	5/8" (16)	5.5lbs (2.50kgs)	12" (305)
S22220AS	3/16" (4.75)	1/8" (3.18)	2-1/4" (57.15mm)	7/8" (22mm)	4600	20.47	7/8" (22)	5.5lbs (2.50kgs)	12.75" (324)
S22230AS	5/32" (3.90)	3/32" (2.36)	3" (76.2mm)	7/8" (22mm)	3400	15.13	1-1/4" (31.7)	6lbs (2.72kgs)	13.5" (343)

Special jaws available upon request, customer drawings welcome.

5mm Set Holders available. Add "M" to model number.

E.g. S22215ASM = 5mm Adjustable Set Holder

High Output wedge available on above models.

Increasing output power add "HP" to model number.

E.g. S22215HP

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Tandem Cylinder “C” Yoke Rivet Squeezers



Model Number	Capacity Rivet Diameter		Reach inch/mm	Gap inch/mm	Maximum Force @90PSI (620KPA)		Maximum Travel inch/mm	Weight lbs/kgs	Length inch/mm
	Alu. inch/mm	Steel inch/mm			lbs	kn			
Tandem Cylinder									
S22715	3/16" (4.75)	5/32" (3.90)	1-1/2" (38mm)	1-1/4" (31.7)	6000	26.70	9/16" (14.27)	5.5lbs (2.50kgs)	14" (356)
S22720	3/16" (4.75)	5/32" (3.90)	2" (50.8mm)	1-1/4" (31.7)	6000	26.70	9/16" (14.27)	5.5lbs (2.50kgs)	14" (356)
S22725	3/16" (4.75)	5/32" (3.90)	2-1/2" (63.5mm)	1-1/4" (31.7)	6000	26.70	9/16" (14.27)	5.5lbs (2.50kgs)	14" (356)
S22730	3/16" (4.75)	5/32" (3.90)	3" (76.2mm)	1-1/4" (31.7)	6000	26.70	9/16" (14.27)	5.5lbs (2.50kgs)	14" (356)
S22740	3/16" (4.75)	5/32" (3.90)	4" (101.6mm)	1-3/8" (41.3)	6000	26.70	9/16" (14.27)	5.5lbs (2.50kgs)	14" (356)
Adjustable Set Holder Models									
S22715AS	3/16" (4.75)	5/32" (3.90)	1-1/2" (38mm)	1-1/4" (31.7)	6000	26.70	9/16" (14.27)	5.5lbs (2.50kgs)	14" (356)
S22720AS	3/16" (4.75)	5/32" (3.90)	2" (50.8mm)	1-1/4" (31.7)	6000	26.70	9/16" (14.27)	5.5lbs (2.50kgs)	14" (356)
S22725AS	3/16" (4.75)	5/32" (3.90)	2-1/2" (63.5mm)	1-1/4" (31.7)	6000	26.70	9/16" (14.27)	5.5lbs (2.50kgs)	14" (356)
S22730AS	3/16" (4.75)	5/32" (3.90)	3" (76.2mm)	1-1/4" (31.7)	6000	26.70	9/16" (14.27)	5.5lbs (2.50kgs)	14" (356)
S22740AS	3/16" (4.75)	5/32" (3.90)	4" (101.6mm)	1-3/8" (41.3)	6000	26.70	9/16" (14.27)	5.5lbs (2.50kgs)	14" (356)

Special jaws available upon request, customer drawings welcome.

5mm Set Holders available. Add "M" to model number.

E.g. S22715ASM = 5mm Adjustable Set Holder

High Output wedge available on above models.

Increasing output power add "HP" to model number.

E.g. S22715HP

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

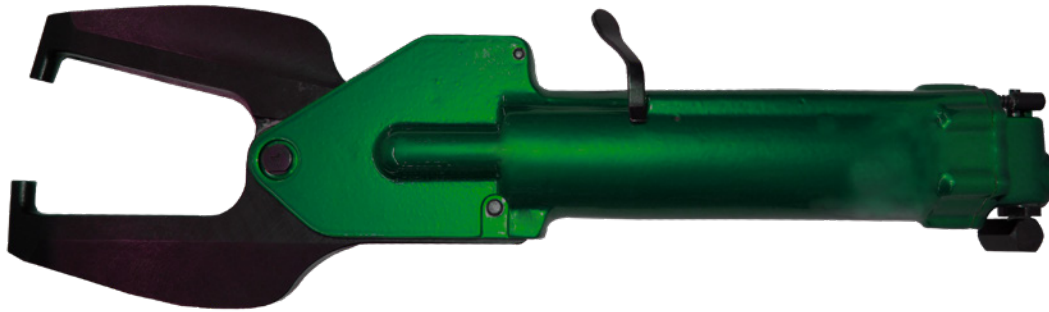
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SABRE AIRCRAFT TOOLS

Triple Cylinder Alligator Rivet Squeezers



Model Number	Capacity Rivet Diameter		Reach inch/mm	Gap inch/mm	Maximum Force @90PSI (620KPA)		Maximum Travel inch/mm	Weight lbs/kgs	Length inch/mm
	Alu. inch/mm	Steel inch/mm			lbs	kn			
Triple Cylinder Alligator									
S22315	1/4" (6.35)	3/16" (4.75)	1-1/2" (38mm)	7/8" (22mm)	9000	40.5	5/8" (16)	7lbs (3.17kgs)	16" (406)
S22320	3/16" (4.75)	5/32" (3.90)	2-1/4" (57.15mm)	7/8" (22mm)	7000	31.15	7/8" (22)	7.5lbs (3.4kgs)	16.75" (425)
S22330	3/16" (4.75)	5/32" (3.90)	3" (76.2mm)	7/8" (22mm)	5200	23.15	1-1/4" (31.7)	8lbs (3.62kgs)	17.5" (445)
Adjustable Set Holder Models									
S22315AS	1/4" (6.35)	3/16" (4.75)	1-1/2" (38mm)	7/8" (22mm)	9000	40.5	5/8" (16)	7lbs (3.17kgs)	16" (406)
S22320AS	3/16" (4.75)	5/32" (3.90)	2-1/4" (57.15mm)	7/8" (22mm)	7000	31.15	7/8" (22)	7.5lbs (3.4kgs)	16.75" (425)
S22330AS	3/16" (4.75)	5/32" (3.90)	3" (76.2mm)	7/8" (22mm)	5200	23.15	1-1/4" (31.7)	8lbs (3.62kgs)	17.5" (445)
Triple Cylinder Alligator									
S22430	9/32" (7.1)	7/32" (5.5)	3" (76.2mm)	7/8" (22mm)	10000	44.5		11.5lbs (5.2kgs)	19.75" (502)
S22450	1/4" (6.35)	3/16" (4.75)	5" (127mm)	7/8" (22mm)	6100	30.3		12lbs (5.4kgs)	21.75" (552)
S22470	3/16" (4.75)	1/8" (3.18)	7" (178mm)	7/8" (22mm)	4400	19.6		12.5lbs (5.5kgs)	23.75" (603)

Special jaws available upon request, customer drawings welcome.

5mm Set Holders available. Add "M" to model number.

E.g. S22315ASM = 5mm Adjustable Set Holder

High Output wedge available on above models.

Increasing output power add "HP" to model number.

E.g. S22315HP

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Triple Cylinder “C” Yoke Rivet Squeezers



Model Number	Capacity Rivet Diameter		Reach inch/mm	Gap inch/mm	Maximum Force @90PSI (620KPA)		Maximum Travel inch/mm	Weight lbs/kgs	Length inch/mm
	Alu. inch/mm	Steel inch/mm			lbs	kn			
Triple Cylinder									
S22815	1/4" (6.35)	3/16" (4.75)	1-1/2" (38mm)	1-1/4" (31.7)	9000	40.5	9/16" (14.27)	8.5lbs (3.86kgs)	18.7" (477)
S22820	1/4" (6.35)	3/16" (4.75)	2" (50.8mm)	1-1/4" (31.7)	9000	40.5	9/16" (14.27)	8.5lbs (3.86kgs)	18.7" (477)
S22825	1/4" (6.35)	3/16" (4.75)	2-1/2" (63.5mm)	1-1/4" (31.7)	9000	40.5	9/16" (14.27)	8.5lbs (3.86kgs)	18.7" (477)
S22830	1/4" (6.35)	3/16" (4.75)	3" (76.2mm)	1-1/4" (31.7)	9000	40.5	9/16" (14.27)	8.5lbs (3.86kgs)	18.7" (477)
S22840	1/4" (6.35)	3/16" (4.75)	4" (101.6mm)	1-3/8" (41.3)	9000	40.5	9/16" (14.27)	8.5lbs (3.86kgs)	18.7" (477)
Adjustable Set Holder Models									
S22815AS	1/4" (6.35)	3/16" (4.75)	1-1/2" (38mm)	1-1/4" (31.7)	9000	40.5	9/16" (14.27)	8.5lbs (3.86kgs)	18.7" (477)
S22820AS	1/4" (6.35)	3/16" (4.75)	2" (50.8mm)	1-1/4" (31.7)	9000	40.5	9/16" (14.27)	8.5lbs (3.86kgs)	18.7" (477)
S22825AS	1/4" (6.35)	3/16" (4.75)	2-1/2" (63.5mm)	1-1/4" (31.7)	9000	40.5	9/16" (14.27)	8.5lbs (3.86kgs)	18.7" (477)
S22830AS	1/4" (6.35)	3/16" (4.75)	3" (76.2mm)	1-1/4" (31.7)	9000	40.5	9/16" (14.27)	8.5lbs (3.86kgs)	18.7" (477)
S22840AS	1/4" (6.35)	3/16" (4.75)	4" (101.6mm)	1-3/8" (41.3)	9000	40.5	9/16" (14.27)	8.5lbs (3.86kgs)	18.7" (477)

Special jaws available upon request, customer drawings welcome.

5mm Set Holders available. Add "M" to model number.

E.g. S22815ASM = 5mm Adjustable Set Holder

High Output wedge available on above models.

Increasing output power add "HP" to model number.

E.g. S22815HP

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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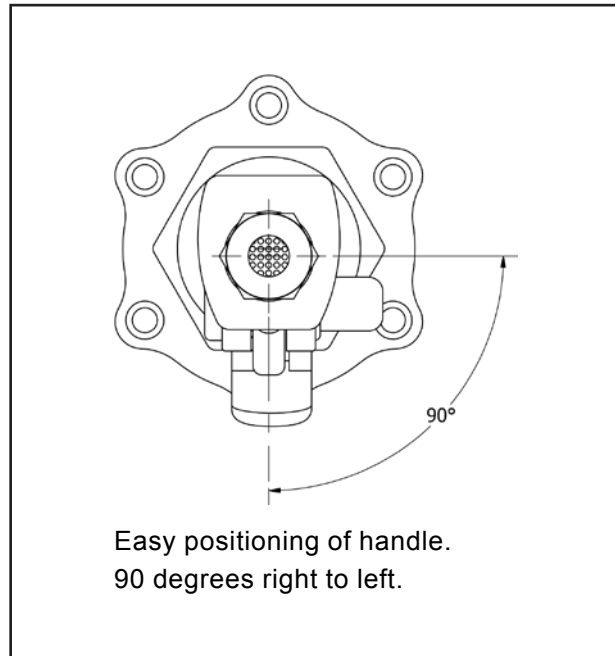


SABRE AIRCRAFT TOOLS

Rivet Squeezer Safety Handle

Safety Handle prevents accidental activation of tool. Operator must depress safety button on lock-off trigger to activate throttle. Handle can be indexed from right to left positions 90 degrees.

Handle Kit is easy to install by removing original backhead and replacing it with the Safety Handle. Will fit all popular single, tandem and triple cylinder squeezers.



Safety Handle helps to prevent accidents while changing rivet snaps or while being carried with the air hose still connected.

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.
Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.
WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

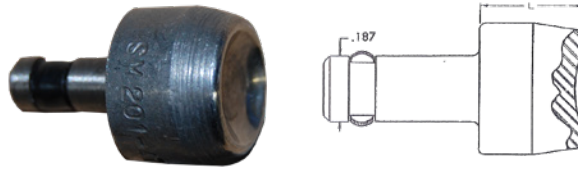
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SABRE AIRCRAFT TOOLS

Cupped Squeezer Sets



AN430 Part No.	AN442 Part No.	AN455 Part No.	AN456 Part No.	AN470 Part No.	AN435 Part No.	Rivet Size inch/mm	Total Length inch/mm
SM200-4302	SM200-4422	SM200-4552	SM200-4562	SM200-4702	SM200-4352	1/16" (1.5mm)	1/4" (6.35mm)
SM200-4303	SM200-4423	SM200-4553	SM200-4563	SM200-4703	SM200-4353	3/32" (2.5mm)	1/4" (6.35mm)
SM200-4304	SM200-4424	SM200-4554	SM200-4564	SM200-4704	SM200-4354	1/8" (3.0mm)	1/4" (6.35mm)
SM200-4305	SM200-4425	SM200-4555	SM200-4565	SM200-4705	SM200-4355	5/32" (4.0mm)	1/4" (6.35mm)
SM200-4306	SM200-4426	SM200-4556	SM200-4566	SM200-4706	SM200-4356	3/16" (5.0mm)	1/4" (6.35mm)
SM200-4308	SM200-4428	SM200-4558	SM200-4568	SM200-4708	SM200-4358	1/4" (6.5mm)	1/4" (6.35mm)
SM201-4302	SM201-4422	SM201-4552	SM201-4562	SM201-4702	SM201-4352	1/16" (1.5mm)	3/8" (9.53mm)
SM201-4303	SM201-4423	SM201-4553	SM201-4563	SM201-4703	SM201-4353	3/32" (2.5mm)	3/8" (9.53mm)
SM201-4304	SM201-4424	SM201-4554	SM201-4564	SM201-4704	SM201-4354	1/8" (3.0mm)	3/8" (9.53mm)
SM201-4305	SM201-4425	SM201-4555	SM201-4565	SM201-4705	SM201-4355	5/32" (4.0mm)	3/8" (9.53mm)
SM201-4306	SM201-4426	SM201-4556	SM201-4566	SM201-4706	SM201-4356	3/16" (5.0mm)	3/8" (9.53mm)
SM201-4308	SM201-4428	SM201-4558	SM201-4568	SM201-4708	SM201-4358	1/4" (6.5mm)	3/8" (9.53mm)
SM202-4302	SM202-4422	SM202-4552	SM202-4562	SM202-4702	SM202-4352	1/16" (1.5mm)	1/2" (12.7mm)
SM202-4303	SM202-4423	SM202-4553	SM202-4563	SM202-4703	SM202-4353	3/32" (2.5mm)	1/2" (12.7mm)
SM202-4304	SM202-4424	SM202-4554	SM202-4564	SM202-4704	SM202-4354	1/8" (3.0mm)	1/2" (12.7mm)
SM202-4305	SM202-4425	SM202-4555	SM202-4565	SM202-4705	SM202-4355	5/32" (4.0mm)	1/2" (12.7mm)
SM202-4306	SM202-4426	SM202-4556	SM202-4566	SM202-4706	SM202-4356	3/16" (5.0mm)	1/2" (12.7mm)
SM202-4308	SM202-4428	SM202-4558	SM202-4568	SM202-4708	SM202-4358	1/4" (6.5mm)	1/2" (12.7mm)
SM203-4302	SM203-4422	SM203-4552	SM203-4562	SM203-4702	SM203-4352	1/16" (1.5mm)	5/8" (15.88mm)
SM203-4303	SM203-4423	SM203-4553	SM203-4563	SM203-4703	SM203-4353	3/32" (2.5mm)	5/8" (15.88mm)
SM203-4304	SM203-4424	SM203-4554	SM203-4564	SM203-4704	SM203-4354	1/8" (3.0mm)	5/8" (15.88mm)
SM203-4305	SM203-4425	SM203-4555	SM203-4565	SM203-4705	SM203-4355	5/32" (4.0mm)	5/8" (15.88mm)
SM203-4306	SM203-4426	SM203-4556	SM203-4566	SM203-4706	SM203-4356	3/16" (5.0mm)	5/8" (15.88mm)
SM203-4308	SM203-4428	SM203-4558	SM203-4568	SM203-4708	SM203-4358	1/4" (6.5mm)	5/8" (15.88mm)
SM204-4302	SM204-4422	SM204-4552	SM204-4562	SM204-4702	SM204-4352	1/16" (1.5mm)	3/4" (19.05mm)
SM204-4303	SM204-4423	SM204-4553	SM204-4563	SM204-4703	SM204-4353	3/32" (2.5mm)	3/4" (19.05mm)
SM204-4304	SM204-4424	SM204-4554	SM204-4564	SM204-4704	SM204-4354	1/8" (3.0mm)	3/4" (19.05mm)
SM204-4305	SM204-4425	SM204-4555	SM204-4565	SM204-4705	SM204-4355	5/32" (4.0mm)	3/4" (19.05mm)
SM204-4306	SM204-4426	SM204-4556	SM204-4566	SM204-4706	SM204-4356	3/16" (5.0mm)	3/4" (19.05mm)
SM204-4308	SM204-4428	SM204-4558	SM204-4568	SM204-4708	SM204-4358	1/4" (6.5mm)	3/4" (19.05mm)

RIVET STYLE CHART								
AN435 Button	AN430 Round	AN455 Brazier	AN456 Mod. Brazier	AN470 Universal	AN442 Flat	BACR 15FT Briles Boeing	AN426 Countersunk	AN450 Semi-Tubular

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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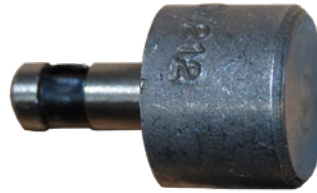
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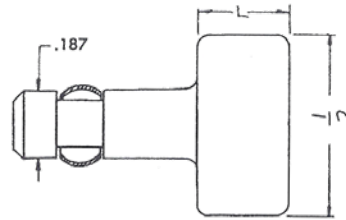
SABRE AIRCRAFT TOOLS

Flush Squeezer Sets

Part No.	"L" Dimension inch/mm
SM 210	1/8" (3.18mm)
SM 211	1/4" (6.35mm)
SM 212	3/8" (9.53mm)
SM 213	1/2" (12.7mm)
SM 214	5/8" (15.88mm)
SM 215	3/4" (19.05mm)
SM 216	7/8" (22.23mm)
SM 217	1" (25.4mm)
SM 218	Specify

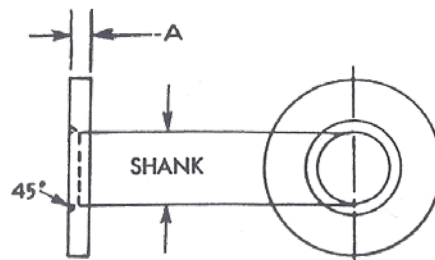


Can be furnished with 3/8" body diameter



Spacer Shims

Part No.	Shank Size	"A" +010 -000
SMS-0	.187	1/64
SMS-1	.187	1/32
SMS-2	.187	1/16



RIVET STYLE CHART								
AN435 Button	AN430 Round	AN455 Brazier	AN456 Mod. Brazier	AN470 Universal	AN442 Flat	BACR 15FT Briles Boeing	AN426 Countersunk	AN450 Semi-Tubular

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

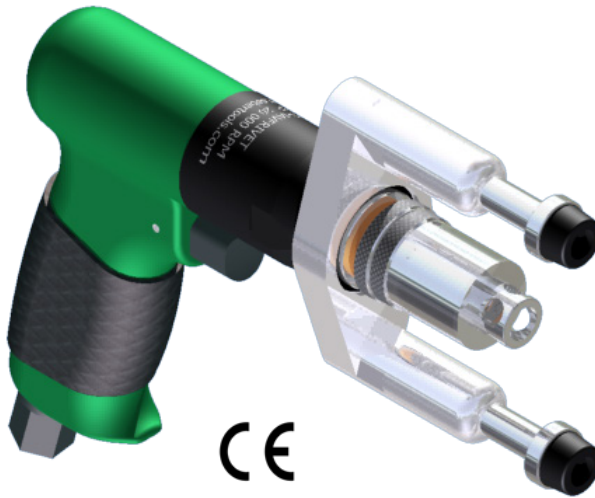
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SABRE AIRCRAFT TOOLS

Rivet Shaver Pistol Grip



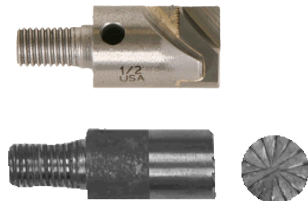
SMX2RS

0.5HP (0.35KW)

0.0004" (0.010mm) Cutter Adjustment

Model No.	Skirt Diameter inch/mm	Free Speed RPM	Weight lbs/kg	Length inch/mm	Vibration Level	Sound Level dB(A)
S44011	1/4"	20,000	1.5lbs (0.69kg)	6.53" (166mm)	<2.5m/s ²	80
S44012	5/16"	20,000	1.5lbs (0.69kg)	6.53" (166mm)	<2.5m/s ²	80
S44013	3/8"	20,000	1.5lbs (0.69kg)	6.53" (166mm)	<2.5m/s ²	80
S44014	7/16"	20,000	1.5lbs (0.69kg)	6.53" (166mm)	<2.5m/s ²	80
S44015	1/2"	20,000	1.5lbs (0.69kg)	6.53" (166mm)	<2.5m/s ²	80
S44016	9/16"	20,000	1.5lbs (0.69kg)	6.53" (166mm)	<2.5m/s ²	80
S44017	5/8"	20,000	1.5lbs (0.69kg)	6.53" (166mm)	<2.5m/s ²	80

Optional Stabilizer Bar #SA44030



14 Flute

Rivet Shaver Cutters 1/4"-28 Thread									
SA44050 1/4"	SA44051 5/16"	SA44052 3/8"	SA44053 7/16"	SA44054 1/2"	SA44055 9/16"	SA44056 5/8"	SA44057 3/4"	SA44058 7/8"	SA44059 1"
		SA44152 3/8"		SA44154 1/2"					

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Rivet Shaver Straight

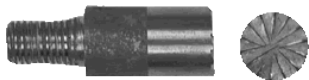
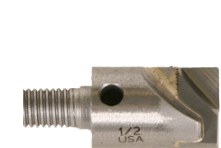


SMX2SRS

0.0004" (0.010mm) Cutter Adjustment

Model No.	Skirt Diameter inch/mm	Free Speed RPM	Weight lbs/kg	Length inch/mm	Vibration Level	Sound Level dB(A)
S44031	1/4"	20,000	1.4lbs (0.64kg)	8.5" (215mm)	<2.5m/s ²	79
S44032	5/16"	20,000	1.4lbs (0.64kg)	8.5" (215mm)	<2.5m/s ²	79
S44033	3/8"	20,000	1.4lbs (0.64kg)	8.5" (215mm)	<2.5m/s ²	79
S44034	7/16"	20,000	1.4lbs (0.64kg)	8.5" (215mm)	<2.5m/s ²	79
S44035	1/2"	20,000	1.4lbs (0.64kg)	8.5" (215mm)	<2.5m/s ²	79
S44036	9/16"	20,000	1.4lbs (0.64kg)	8.5" (215mm)	<2.5m/s ²	79
S44037	5/8"	20,000	1.4lbs (0.64kg)	8.5" (215mm)	<2.5m/s ²	79

Optional Stabilizer Bar #SA44030



14 Flute

Rivet Shaver Cutters 1/4"-28 Thread									
SA44050 1/4"	SA44051 5/16"	SA44052 3/8"	SA44053 7/16"	SA44054 1/2"	SA44055 9/16"	SA44056 5/8"	SA44057 3/4"	SA44058 7/8"	SA44059 1"
		SA44152 3/8"		SA44154 1/2"					

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Oil Pulse Tools



1/4" Hex Pistol Grip Torque Control Shut-Off

Model No.	Torque Range Ft-Lbs (Nm)	Bolt Capacity Inch (mm)	Free Speed RPM	Length Inch (mm)	Weight Lbs (kg)	Noise Level dB(A)	Vibration Level
S26105	3.0 - 5.9 (4-8)	3/16" (M5)	6,500	6.77" (172mm)	2.2lbs (1.0kg)	78	<2.0m/s ²
S26106	3.7 - 7.4 (5-10)	1/4" (M6)	6,500	7.0" (178mm)	2.2lbs (1.0kg)	78	<2.0m/s ²
S26107	5.9 - 10.3 (8-14)	1/4" (M6)	6,500	7.13" (181mm)	2.2lbs (1.0kg)	79	<2.1m/s ²
S26108	8.9 - 14.8 (12-20)	5/16" (M8)	6,000	7.64" (194mm)	2.8lbs (1.3kg)	79	<2.2m/s ²
S26109	14.8 - 23.6 (20-32)	3/8" (M10)	6,000	7.56" (192mm)	3.3lbs (1.5kg)	80	<2.5m/s ²

1/4" Hex Pistol Grip Torque Control non Shut-Off

Model No.	Torque Range Ft-Lbs (Nm)	Bolt Capacity Inch (mm)	Free Speed RPM	Length Inch (mm)	Weight Lbs (kg)	Noise Level dB(A)	Vibration Level
S26125	4.4 - 8.9 (6-12)	1/4" (M6)	6,500	5.43" (138mm)	1.9lbs (0.87kg)	78	<2.0m/s ²
S26126	7.4 - 11.8 (10-16)	1/4" (M6)	6,500	5.83" (148mm)	2.1lbs (0.97kg)	78	<2.0m/s ²
S26127	11.1 - 25.8 (12-35)	5/16" (M8)	6,500	6.14" (156mm)	2.2lbs (1.0kg)	79	<2.1m/s ²
S26128	18.4 - 29.5 (25-40)	3/8" (M10)	6,000	6.46" (164mm)	2.2lbs (1.0kg)	79	<2.2m/s ²
S26129	22.1 - 33.2 (30-45)	3/8" (M10)	6,000	6.65" (169mm)	2.86lbs (1.3kg)	80	<2.5m/s ²

* Torque Range (Hard Joint Rotatory Measure) @ 5 ~ 6 BAR (72.5 ~ 87 PSI)

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Oil Pulse Tools



3/8" Square Pistol Grip Torque Control Shut-Off

Model No.	Torque Range Ft-Lbs (Nm)	Bolt Capacity Inch (mm)	Free Speed RPM	Length Inch (mm)	Weight Lbs (kg)	Noise Level dB(A)	Vibration Level
S26145	3.0 - 5.9 (4-8)	3/16" (M5)	6,500	6.73" (171mm)	2.2lbs (1.0kg)	78	<2.0m/s ²
S26146	3.7 - 7.4 (5-10)	1/4" (M6)	6,500	6.97" (177mm)	2.2lbs (1.0kg)	78	<2.0m/s ²
S26148	5.9 - 11.8 (8-14)	1/4" (M6)	6,500	7.0" (178mm)	2.2lbs (1.0kg)	79	<2.1m/s ²
S26149	11.1 - 22.1 (15-30)	5/16" (M8)	6,000	7.52" (191mm)	2.8lbs (1.3kg)	79	<2.2m/s ²
S26150	16.2 - 33.2 (22-45)	3/8" (M10)	6,000	7.28" (185mm)	3.3lbs (1.5kg)	80	<2.5m/s ²
S26151	25.8 - 47.9 (35-65)	3/8" (M10)	4,600	8.27" (210mm)	4.2lbs (1.9kg)	80	<2.7m/s ²

3/8" Square Pistol Grip Torque Control non Shut-Off

Model No.	Torque Range Ft-Lbs (Nm)	Bolt Capacity Inch (mm)	Free Speed RPM	Length Inch (mm)	Weight Lbs (kg)	Noise Level dB(A)	Vibration Level
S26165	4.4 - 8.9 (6-12)	1/4" (M6)	6,500	6.02" (153mm)	2.2lbs (1.0kg)	78	<2.1m/s ²
S26166	7.4 - 14.8 (10-20)	1/4" (M6)	6,500	5.79" (147mm)	2.1lbs (0.97kg)	78	<2.0m/s ²
S26167	14.8 - 29.5 (20-40)	5/16" (M8)	6,500	6.02" (153mm)	2.18lbs (0.9kg)	79	<2.1m/s ²
S26168	22.1 - 36.9 (30-50)	3/8" (M10)	6,000	6.38" (162mm)	2.4lbs (1.1kg)	79	<2.2m/s ²
S26169	29.5 - 44.3 (40-60)	3/8" (M10)	6,000	6.34" (161mm)	2.86lbs (1.3kg)	80	<2.5m/s ²
S26170	40.6 - 59.0 (55-80)	1/2" (M12)	4,600	7.24" (184mm)	3.7lbs (1.7kg)	80	<2.7m/s ²

* Torque Range (Hard Joint Rotatory Measure) @ 5 ~ 6 BAR (72.5 ~ 87 PSI)

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

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SABRE AIRCRAFT TOOLS

Auto Shut-Off Screwdrivers STC10 Series



- Oil Free Air Motor
- 1,000,000 Life Time Cycles

Part No.	Free Speed RPM	Air Inlet NPT	Torque Range In-lbs (Nm)	Air Consumption CFM/SCFM (L/Min)	Length inch (mm)	Weight Lbs (kg)	Noise Level dB(A)
S26004	400	1/4"	31~106.2 (3.5~12)	2.1/14.8 (420)	8-3/8" (210)	2.3lbs (1.1kg)	73
S26005	800	1/4"	31~84.1 (3.5~9.5)	2.1/14.8 (420)	8-3/8" (210)	2.3lbs (1.1kg)	73
S26006	1,000	1/4"	31~70.8 (3.5~8)	2.1/14.8 (420)	8-3/8" (210)	2.3lbs (1.1kg)	73
S26007	1,300	1/4"	3.5~44.3 (0.4~5)	2.1/14.8 (420)	7-3/4" (195)	2.1lbs (1kg)	73
S26008	2,000	1/4"	3.5~35.4 (0.4~4)	2.1/14.8 (420)	7-3/4" (195)	2.1lbs (1kg)	73

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

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SABRE AIRCRAFT TOOLS

Auto Shut-Off Screwdrivers



- Oil Free Air Motor
- 1,000,000 Life Time Cycles

Part No.	Free Speed RPM	Air Inlet NPT	Torque Range In-lbs (Nm)	Air Consumption CFM/SCFM (L/Min)	Length inch (mm)	Weight Lbs (kg)	Noise Level dB(A)
S26004L	400	1/4"	31~106.2 (3.5~12)	1.8/12.8 (362)	10" (254)	2.05lbs (0.93kg)	75
S26005L	850	1/4"	31~84.1 (3.5~9.5)	1.8/12.8 (362)	10" (254)	2.05lbs (0.93kg)	75
S26006L	1,000	1/4"	31~70.8 (3.5~8)	1.8/12.8 (362)	10" (254)	2.05lbs (0.93kg)	75
S26007L	1,350	1/4"	3.5~44.3 (0.4~5)	1.8/12.8 (362)	9-1/4" (234)	1.87lbs (0.85kg)	75
S26008L	2,000	1/4"	3.5~35.4 (0.4~4)	1.8/12.8 (362)	9-1/4" (234)	1.87lbs (0.85kg)	75

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

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SABRE AIRCRAFT TOOLS

Torque Control Shut-Off Screwdrivers **STC05** Series



Model No.	Free Speed RPM	Torque Range In-lbs (Nm)	Air Consumption CFM (L/Min)	Length inch (mm)	Weight Lbs (kg)	Noise Level dB(A)	Vibration Level
S26020	1800	3~26 (0.3~2.9)	4 (113)	8.7" (220mm)	2.0lbs (0.9kg)	83	<2.5m/s ²
S26025	1000	3~40 (0.4~4.5)	4 (113)	8.7" (220mm)	2.0lbs (0.9kg)	83	<2.5m/s ²
S26030	600	4~45 (0.5~5.1)	4 (113)	8.7" (220mm)	2.0lbs (0.9kg)	83	<2.5m/s ²

Comes standard with 2 extra torque springs.

Optional Accessories:



#SPA26025
Cam Assembly



#SPA26030
Cam Assembly



#SPA26035
Cam Assembly



In/Lbs 10-38
Nm (1.1 - 4.3)
Yellow

#SP26050



In/Lbs 5-19
Nm (0.6 - 2.1)
Black

#SP26055



In/Lbs 2-8
Nm (0.23 - 0.9)
Green

#SP26060

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.
Tool Performance rated @ 90PSI (620KPA) Air Pressure.

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SABRE AIRCRAFT TOOLS

Screwdriver Bits

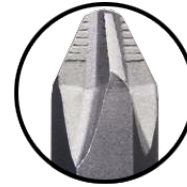
Phillips Insert Bits NAS 8502, 8053

Part No.	Industry No.	Point Size	Shank Size	OAL inch/mm
SA28000	440-0	0	1/4"	1" (25.4mm)
SA28001	440-1	1	1/4"	1" (25.4mm)
SA28002	440-2	2	1/4"	1" (25.4mm)
SA28215	440-215	2	1/4"	1-1/2" (38.1mm)
SA28220	440-22	2	1/4"	2" (50.8mm)
SA28225	440-225	2	1/4"	1-1/2" (38.1mm)
SA28003	440-3	3	1/4"	1" (25.4mm)
SA28004	440-4	4	1/4"	1" (25.4mm)



Phillips Insert Bits ACR Anti-Camout Ribs

Part No.	Industry No.	Point Size	Shank Size	OAL inch/mm
SA28001ACR	440-1ACR	1	1/4"	1" (25.4mm)
SA28002ACR	440-2ACR	2	1/4"	1" (25.4mm)
SA28003ACR	440-3ACR	3	1/4"	1" (25.4mm)
SA28004ACR	440-4ACR	4	1/4"	1/4" (6.35mm)



Phillips Limited Clearance Insert Bits NAS 8502, 8053

Part No.	Industry No.	Point Size	Shank Size	OAL inch/mm
SA28100	446-0	0	1/4"	1" (25.4mm)
SA28101	446-1	1	1/4"	1" (25.4mm)
SA28102	446-2	2	1/4"	1" (25.4mm)
SA28122	446-22T	2	1/4"	2" (50.8mm)
SA28102	446-3	3	1/4"	1" (25.4mm)



Phillips Limited Clearance Insert Bits ACR Anti-Camout Ribs

Part No.	Industry No.	Point Size	Shank Size	OAL inch/mm
SA28101ACR	446-1ACR	1	1/4"	1" (25.4mm)
SA28102ACR	446-2ACR	2	1/4"	1" (25.4mm)
SA28103	446-3ACR	3	1/4"	1" (25.4mm)



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SABRE AIRCRAFT TOOLS

Screwdriver Bits

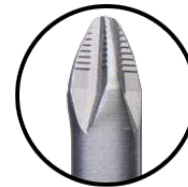
Phillips Power Bits NAS 8502, 8053

Part No.	Industry No.	Point Size	Shank Size	OAL inch/mm
SA28801	491	1	1/4"	1-15/16" (49.2mm)
SA28802	492	2	1/4"	1-15/16" (49.2mm)
SA28803	493	3	1/4"	1-15/16" (49.2mm)
SA28901	491A	1	1/4"	2-3/4" (69.9mm)
SA28902	492A	2	1/4"	2-3/4" (69.9mm)
SA28903	493A	3	1/4"	2-3/4" (69.9mm)
SA29101	491B	1	1/4"	3-1/2" (88.9mm)
SA29102	492B	2	1/4"	3-1/2" (88.9mm)
SA29103	493B	3	1/4"	3-1/2" (88.9mm)
SA29201	491C	1	1/4"	6" (152.4mm)
SA29202	492C	2	1/4"	6" (152.4mm)
SA29203	493C	3	1/4"	6" (152.4mm)



Phillips Insert Bits **ACR** Anti-Camout Ribs

Part No.	Industry No.	Point Size	Shank Size	OAL inch/mm
SA28802ACR	492ACR	2	1/4"	1-15/16" (49.2mm)
SA28902ACR	492AACR	2	1/4"	2-1/2" (63.5mm)
SA29102ACR	492BCR	2	1/4"	3-1/2" (88.9mm)
SA29202ACR	492CACR	2	1/4"	6" (152.4mm)
SA28803ACR	493ACR	3	1/4"	1-15/16" (49.2mm)



5/16 Shank Available Upon Request

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SABRE AIRCRAFT TOOLS

Screwdriver Bits

TORQ-SET Insert Bits

Part No.	Industry No.	Point Size	Shank Size	OAL inch/mm
SA28700	212-0	0	1/4"	1" (25.4mm)
SA28701	212-1	1	1/4"	1" (25.4mm)
SA28702	212-2	2	1/4"	
SA28703	212-3	3	1/4"	1" (25.4mm)
SA28704	212-4	4	1/4"	1" (25.4mm)
SA28705	212-5	5	1/4"	1" (25.4mm)
SA28706	212-6	6	1/4"	1" (25.4mm)
SA28708	212-8	8	1/4"	1" (25.4mm)
SA28710	212-10	10	1/4"	1" (25.4mm)
SA28711	212-1/4	1/4	1/4"	1" (25.4mm)
SA28712	212-8A	8	5/16"	1-1/4" (31.75mm)
SA28713	212-10A	10	5/16"	1-1/4" (31.75mm)
SA28714	212-1/4	1/4	5/16"	1-1/4" (31.75mm)
SA28715	212-5/16	5/16	5/16"	1-1/4" (31.75mm)
SA28716	212-3/8A	3/8	5/16"	1-1/4" (31.75mm)



TORQ-SET Insert Bits **ACR** Anti-Camout Ribs

Part No.	Industry No.	Point Size	Shank Size	OAL inch/mm
SA28702ACR	212-2ACR	2	1/4"	1" (25.4mm)
SA28703ACR	212-3ACR	3	1/4"	1" (25.4mm)
SA28704ACR	212-4ACR	4	1/4"	1" (25.4mm)
SA28705ACR	212-5ACR	5	1/4"	1" (25.4mm)
SA28706ACR	212-6ACR	6	1/4"	1" (25.4mm)
SA28708ACR	212-8ACR	7	1/4"	1" (25.4mm)
SA28710ACR	212-10ACR	10	1/4"	1" (25.4mm)
SA28711ACR	212-1/4ACR	1/4	1/4"	1" (25.4mm)
SA28714ACR	212A-1/4ACR	1-1/4	5/16"	1" (25.4mm)



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SABRE AIRCRAFT TOOLS

Screwdriver Bits

TORQ-SET Power Bits

Part No.	Industry No.	Point Size	Shank Size	OAL inch/mm
SA28750	170-0	0	1/4"	1-1/4" (31.75mm)
SA28751	170-1	1	1/4"	1-1/4" (31.75mm)
SA28752	170-2	2	1/4"	1-1/4" (31.75mm)
SA28753	170-3	3	1/4"	1-1/4" (31.75mm)
SA28754	170-4	4	1/4"	1-1/4" (31.75mm)
SA28755	170-5	5	1/4"	1-1/4" (31.75mm)
SA28756	170-6	6	1/4"	1-1/4" (31.75mm)
SA28758	170-8	8	1/4"	1-1/4" (31.75mm)
SA28760	170-10	10	1/4"	1-1/4" (31.75mm)
SA28761	170-1/4B	1/4	1/4"	1-1/4" (31.75mm)
SA28762	170-5/16B	5/16	1/4"	1-1/4" (31.75mm)
SA28763	170-3/8B	3/8	1/4"	1-1/4" (31.75mm)
SA28759	170-8A	8	5/16"	1-1/4" (31.75mm)
SA28769	170-10A	10	5/16"	1-1/4" (31.75mm)
SA28767	170-1/4A	1/4	5/16"	1-1/4" (31.75mm)
SA28764	170-5/16A	5/16	5/16"	1-1/4" (31.75mm)
SA28765	170-3/8A	3/8	5/16"	1-1/4" (31.75mm)
SA28771	170-1/4	1/4	7/16"	1-1/4" (31.75mm)
SA28770	170-5/16	5/16	7/16"	1-1/4" (31.75mm)
SA28774	170-3/8	3/8	7/16"	1-1/4" (31.75mm)
SA28766	170-7/16	7/16	7/16"	1-1/4" (31.75mm)
SA28773	170-1/2	1/2	5/8"	1-1/4" (31.75mm)
SA28772	170-9/16	9/16	5/8"	1-1/4" (31.75mm)



TORQ-SET Power Bits ACR Anti-Camout Ribs

Part No.	Industry No.	Point Size	Shank Size	OAL inch/mm
SA28754ACR	170-4ACR	4	1/4"	1-1/4" (31.75mm)
SA28756ACR	170-6ACR	6	1/4"	1-1/4" (31.75mm)
SA28758ACR	170-8ACR	8	1/4"	1-1/4" (31.75mm)
SA28760ACR	170-10ACR	10	1/4"	1-1/4" (31.75mm)
SA28761ACR	170-1/4BACR	1/4	1/4"	1-1/4" (31.75mm)



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SABRE AIRCRAFT TOOLS

Screwdriver Bits

TRI-WING Insert Bits NAS 4005

Part No.	Industry No.	Shank Size	OAL inch/mm	Screw Size	Recess Size
SA28500	TWD-0	1/4"	1" (25.4mm)	#0	#0
SA28501	TWD-1	1/4"	1" (25.4mm)	#2	#1
SA28502	TWD-2	1/4"	1" (25.4mm)	#4	#2
SA28503	TWD-3	1/4"	1" (25.4mm)	#6	#3
SA28504	TWD-4	1/4"	1" (25.4mm)	#8	#4
SA28505	TWD-5	1/4"	1" (25.4mm)	#10	#5
SA28506	TWD-6	1/4"	1" (25.4mm)	1/4	#6
SA28507	TWD-7	1/4"	1" (25.4mm)	5/16	#7
SA28508	TWD-8	1/4"	1" (25.4mm)	3/8	#8
SA28509	TWE-4	5/16"	1-1/4" (31.75mm)	#8	#4
SA28510	TWE-5	5/16"	1-1/4" (31.75mm)	#10	#5
SA28511	TWE-6	5/16"	1-1/4" (31.75mm)	1/4	#6
SA28512	TWE-7	5/16"	1-1/4" (31.75mm)	5/16	#7
SA28513	TWE-8	5/16"	1-1/4" (31.75mm)	3/8	#8



TRI-WING Power Bits NAS 4005, 1079

Part No.	Industry No.	Shank Size	OAL inch/mm	Screw Size	Recess Size
SA28600	TW-0	1/4"	1-1/4" (31.75mm)	#0	#0
SA28601	TW-1	1/4"	1-1/4" (31.75mm)	#2	#1
SA28602	TW-2	1/4"	1-1/4" (31.75mm)	#4	#2
SA28603	TW-3	1/4"	1-1/4" (31.75mm)	#6	#3
SA28604	TW-4	1/4"	1-1/4" (31.75mm)	#8	#4
SA28605	TW-5	1/4"	1-1/4" (31.75mm)	#10	#5
SA28606	TW-6	1/4"	1-1/4" (31.75mm)	1/4	#6
SA28607	TW-7	1/4"	1-1/4" (31.75mm)	5/16	#7
SA28608	TW-8	1/4"	1-1/4" (31.75mm)	3/8	#8



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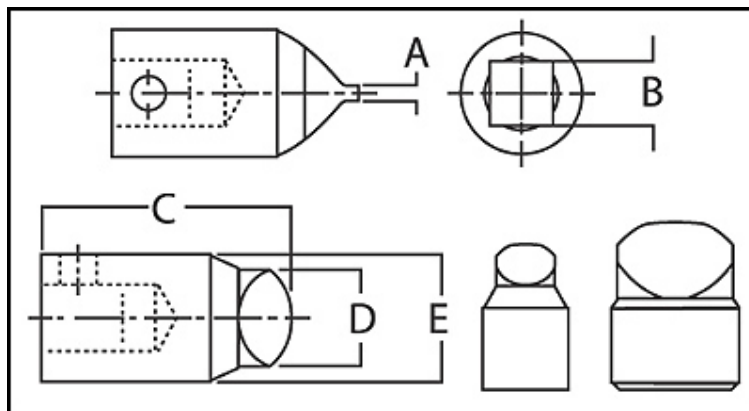


SABRE AIRCRAFT TOOLS

Screwdriver Bits

HI-TORQUE Drivers MS33750, MIL-B-9946

Part No.	Industry No.	A Blade Thickness	D Blade Width	B Drive Size	C Length inch/mm	E Body Diameter inch/mm	Recess	Screw Size
SA28400	HTS-0	.029	.167	1/4	1" (25.4mm)	1/2" (12.7mm)	0	0, 1, 2
SA28401	HTS-1	.049	.274	1/4	1" (25.4mm)	1/2" (12.7mm)	1	3, 4, 5, 6
SA28402	HTS-2	.059	.295	1/4	1" (25.4mm)	1/2" (12.7mm)	2	8
SA28403	HTS-3	.059	.377	1/4	1" (25.4mm)	1/2" (12.7mm)	3	10
SA28404	HTS-3A	.059	.377	3/8	1" (25.4mm)	3/4" (19.1mm)	3	10
SA28405	HTS-4	.073	.502	1/4	1" (25.4mm)	1/2" (12.7mm)	4	1/4
SA28406	HTS-4A	.073	.502	3/8	1" (25.4mm)	3/4" (19.1mm)	4	1/4
SA28407	HTS-5	.079	.629	3/8	1-1/4" (31.75mm)	3/4" (19.1mm)	5	5/16
SA28408	HTS-6	.095	.745	3/8	1-1/4" (31.75mm)	3/4" (19.1mm)	6	3/8
SA28409	HTS-7	.112	.884	1/2	1-5/8" (41.28mm)	1" (25.4mm)	7	7/16
SA28410	HTS-8	.142	.995	1/2	1-5/8" (41.28mm)	1" (25.4mm)	8	1/2
SA28411	HTS-9	.162	1.1136	1/2	1-5/8" (41.28mm)	1-1/4" (31.75mm)	9	9/16
SA28412	HTS-10	.182	1.250	1/2	1-5/8" (41.28mm)	1-1/4" (31.75mm)	10	5/8



Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Temporary Fastener Installation Tools



S26905



S26925

Hex Not Installation Tool

Model No.	Free Speed RPM	Weight lbs/kg	Length inch/mm	Vibration Level	Sound Level dB(A)
S26905	2,000	2.10 lbs (0.95 kg)	10.5" (265 mm)	<2.5m/s ²	83

Cylindrical Fastener Installation Tool

Model No.	Free Speed RPM	Weight lbs/kg	Length inch/mm	Vibration Level	Sound Level dB(A)
S26925	2,000	2.51 lbs (1.13 kg)	10" (265 mm)	<2.5m/s ²	83

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Power Operated Hexagon Fasteners

CN Series

Used for clamping two or more pieces of structure at desired clamp load forces utilizing industry standard "cleco" type pneumatic tooling



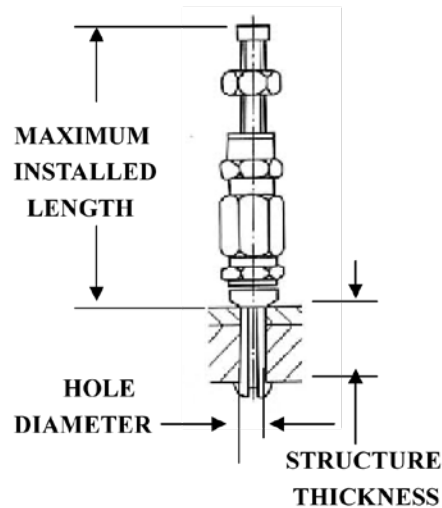
< FRACTIONAL >

FEATURES

- High clamping loads
- Spin-free design allows nut to completely back off stud while remaining intact on stud body
- 3/32" through 3/8" diameters
- Wide variety of grip ranges
- Easy installation



< METRIC >



PART NUMBER EXAMPLE:

CNIB - 1/8

DIAMETER(Fractional or Metric)
GRIP(A,B,C,D,E)
Fractional:I, Metric:M
TYPE(CN)

Safety Precaution: Read and follow all safety and operating instructions.

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SABRE AIRCRAFT TOOLS

Power Operated Hexagon Fasteners

FRACTIONAL SIZES - ON SERIES				
PART NO	HOLE DIA (inches)	GRIP RANGE (inches)	COLOR CODE	DRI LL SI ZE
CN B-3/32	3/32	0~1/2"	ZINC	#40
CN C-3/32		0~1"		
CN D-3/32		1/2~1-1/2"		
CN E-3/32		1-1/2~2-1/2"		
CN B-1/8	1/8	0~1/2"	COPPER	#30
CN C-1/8		0~1"		
CN D-1/8		1/2~1-1/2"		
CN E-1/8		1-1/2~2-1/2"		
CN B-5/32	5/32	0~1/2"	BLACK	#20
CN C-5/32		0~1"		
CN D-5/32		1/2~1-1/2"		
CN E-5/32		1-1/2~2-1/2"		
CN B-3/16	3/16	0~1/2"	BRASS	#10
CN C-3/16		0~1"		
CN D-3/16		1/2~1-1/2"		
CN E-3/16		1-1/2~2-1/2"		
CN B-#27	#27	0~1/2"	GREEN	#27
CN C-#27		0~1"		
CN D-#27		1/2~1-1/2"		
CN E-#27		1-1/2~2-1/2"		
CN B-#16	#16	0~1/2"	YELLOW	#16
CN C-#16		0~1"		
CN D-#16		1/2~1-1/2"		
CN E-#16		1-1/2~2-1/2"		
CN B-7/32	7/32	0~1/2"	ZINC	#2
CN C-7/32		0~1"		
CN D-7/32		1/2~1-1/2"		
CN E-7/32		1-1/2~2-1/2"		
CN B-1/4	1/4	0~1/2"	COPPER	1/4"
CN C-1/4		0~1"		
CN D-1/4		1/2~1-1/2"		
CN E-1/4		1-1/2~2-1/2"		
CN B-9/32	9/32	0~1/2"	BRASS	9/32"
CN C-9/32		0~1"		
CN D-9/32		1/2~1-1/2"		
CN E-9/32		1-1/2~2-1/2"		
CN B-5/16	5/16	0~1/2"	BLACK	5/16"
CN C-5/16		0~1"		
CN D-5/16		1/2~1-1/2"		
CN E-5/16		1-1/2~2-1/2"		
CN B-3/8	3/8	0~1/2"	BLACK	3/8"
CN C-3/8		0~1"		
CN D-3/8		1/2~1-1/2"		
CN E-3/8		1-1/2~2-1/2"		

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Power Operated Hexagon Fasteners

METRIC SIZES ON SERIES					
PART NO.	HOLE DIA (mm)	GRIP RANGE (mm)	COLOR CODE		DRILL SIZE
			CAP	BODY	
CNMA-Φ 2.5	2.5	0~13	RED	BLACK	2.5
CNMB-Φ 2.5		0~26			
CNMA-Φ 3.0	3.0	0~13	BLUE	BLACK	3.0
CNMB-Φ 3.0		0~26			
CNMA-Φ 3.5	3.5	0~13	GREEN	BLACK	3.5
CNMB-Φ 3.5		0~26			
CNMA-Φ 4.0	4.0	0~13	BLACK	BLACK	4.0
CNMB-Φ 4.0		0~26			
CNMA-Φ 4.5	4.5	0~13	YELLOW	BLACK	4.5
CNMB-Φ 4.5		0~26			
CNMA-Φ 5.0	5.0	0~13	RED	BLACK	5.0
CNMB-Φ 5.0		0~26			
CNMA-Φ 5.5	5.5	0~13	SILVER	BLACK	5.5
CNMB-Φ 5.5		0~26			
CNMA-Φ 6.0	6.0	0~13	BLUE	BLACK	6.0
CNMB-Φ 6.0		0~26			
CNMA-Φ 6.5	6.5	0~13	COPPER	BLACK	6.5
CNMB-Φ 6.5		0~26			
CNMA-Φ 7.0	7.0	0~13	GREEN	BLACK	7.0
CNMB-Φ 7.0		0~26			
CNMA-Φ 7.5	7.5	0~13	YELLOW	BLACK	7.5
CNMB-Φ 7.5		0~26			
CNMA-Φ 8.0	8.0	0~13	BLACK	BLACK	8.0
CNMB-Φ 8.0		0~26			

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SABRE AIRCRAFT TOOLS

Hand Operated Wing Nut Fasteners

CWN Series

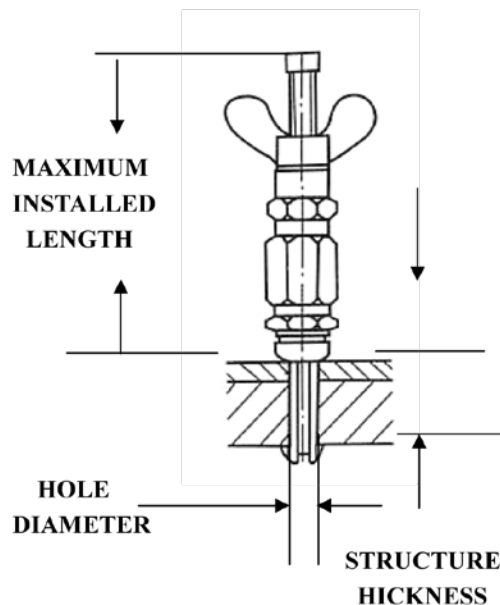
Hand operated fasteners for structures requiring limited fastening or limited access. Clamping forces are operator controlled and can range from 50 pounds to 300 pounds



< FRACTIONAL >

FEATURES

- Easy to operate
- Re-usable
- Controlled clamping forces
- Color-coded by size for easy identification
- Wide range of diameters and grip lengths



< METRIC >

PART NUMBER EXAMPLE

CWNIB - 1/8

DIAMETER(Fractional or Metric)
GRIP(A,B,C,D,E)
Fractional:I, Metric:M
TYPE(CN)

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Hand Operated Wing Nut Fasteners

FRACTIONAL SIZES - CWN SERIES				
PART NO.	HOLE DIA (inches)	GRIP RANGE (inches)	COLOR CODE	DRILL SIZE
CWNIB-3/32	3/32	0~1/2"	ZINC	#40
CWNIC-3/32		0~1"		
CWNID-3/32		1/2~1-1/2"		
CWNIE-3/32		1-1/2 ~ 2-1/2"		
CWNIB-1/8	1/8	0~1/2"	COPPER	#30
CWNIC-1/8		0~1"		
CWNID-1/8		1/2~1-1/2"		
CWNIE-1/8		1-1/2 ~ 2-1/2"		
CWNIB-5/32	5/32	0~1/2"	BLACK	#20
CWNIC-5/32		0~1"		
CWNID-5/32		1/2~1-1/2"		
CWNIE-5/32		1-1/2 ~ 2-1/2"		
CWNIB-3/16	3/16	0~1/2"	BRASS	#10
CWNIC-3/16		0~1"		
CWNID-3/16		1/2~1-1/2"		
CWNIE-3/16		1-1/2 ~ 2-1/2"		
CWNIB-#27	#27	0~1/2"	GREEN	#27
CWNIC-#27		0~1"		
CWNID-#27		1/2~1-1/2"		
CWNIE-#27		1-1/2 ~ 2-1/2"		
CWNIB-#16	#16	0~1/2"	YELLOW	#16
CWNIC-#16		0~1"		
CWNID-#16		1/2~1-1/2"		
CWNIE-#16		1-1/2 ~ 2-1/2"		
CWNIB-7/32	7/32	0~1/2"	ZINC	#2
CWNIC-7/32		0~1"		
CWNID-7/32		1/2~1-1/2"		
CWNIE-7/32		1-1/2 ~ 2-1/2"		
CWNIB-1/4	1/4	0~1/2"	COPPER	1/4"
CWNIC-1/4		0~1"		
CWNID-1/4		1/2~1-1/2"		
CWNIE-1/4		1-1/2 ~ 2-1/2"		
CWNIB-9/32	9/32	0~1/2"	BRASS	9/32"
CWNIC-9/32		0~1"		
CWNID-9/32		1/2~1-1/2"		
CWNIE-9/32		1-1/2 ~ 2-1/2"		
CWNIB-5/16	5/16	0~1/2"	BLACK	5/16"
CWNIC-5/16		0~1"		
CWNID-5/16		1/2~1-1/2"		
CWNIE-5/16		1-1/2 ~ 2-1/2"		
CWNIB-3/8	3/8	0~1/2"	BLACK	3/8"
CWNIC-3/8		0~1"		
CWNID-3/8		1/2~1-1/2"		
CWNIE-3/8		1-1/2 ~ 2-1/2"		

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WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Hand Operated Wing Nut Fasteners

METRIC SIZES - CWN SERIES					
PART NO.	HOLE DIA (mm)	GRIP RANGE (mm)	COLOR CODE		DRILL SIZE
			CAP	BODY	
CWNMA-Φ 2.5	2.5	0~13	RED	BLACK	2.5
CWNMB-Φ 2.5		0~26			
CWNMA-Φ 3.0	3.0	0~13	BLUE	BLACK	3.0
CWNMB-Φ 3.0		0~26			
CWNMA-Φ 3.5	3.5	0~13	GREEN	BLACK	3.5
CWNMB-Φ 3.5		0~26			
CWNMA-Φ 4.0	4.0	0~13	BLACK	BLACK	4.0
CWNMB-Φ 4.0		0~26			
CWNMA-Φ 4.5	4.5	0~13	YELLOW	BLACK	4.5
CWNMB-Φ 4.5		0~26			
CWNMA-Φ 5.0	5.0	0~13	RED	BLACK	5.0
CWNMB-Φ 5.0		0~26			
CWNMA-Φ 5.5	5.5	0~13	SILVER	BLACK	5.5
CWNMB-Φ 5.5		0~26			
CWNMA-Φ 6.0	6.0	0~13	BLUE	BLACK	6.0
CWNMB-Φ 6.0		0~26			
CWNMA-Φ 6.5	6.5	0~13	COPPER	BLACK	6.5
CWNMB-Φ 6.5		0~26			
CWNMA-Φ 7.0	7.0	0~13	GREEN	BLACK	7.0
CWNMB-Φ 7.0		0~26			
CWNMA-Φ 7.5	7.5	0~13	YELLOW	BLACK	7.5
CWNMB-Φ 7.5		0~26			
CWNMA-Φ 8.0	8.0	0~13	BLACK	BLACK	8.0
CWNMB-Φ 8.0		0~26			

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WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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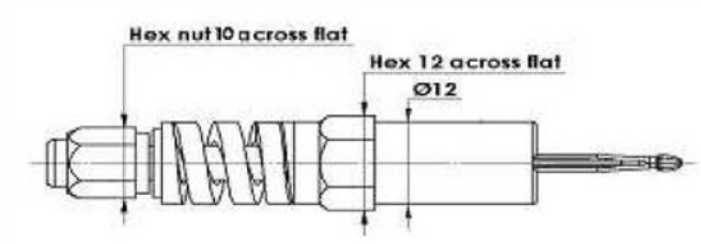


SABRE AIRCRAFT TOOLS

Power Operated Hexagon Fasteners Airbus Style

FEATURES

- High clamping loads
- Improves installation and removal efficiency by over 50%
- Designed specifically for use in wet sealant or liquid shim applications. The type utilizes a rectangular spring to Retain a maximum of 100lbs. of clamping pressure even with minor structure thickness variations due to sealant flow
- 2.4mm through 6.3mm diameters
- Easy installation



Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Series 30 Temporary Fasteners

Part No.	Nominal $\varnothing$ mm	Hole $\varnothing$ mm	Body Color	Grip Range mm	Max Clamping Force daN
SA302415	2.4	2.4~2.5	Black	0~15	100
SA302425	2.4	2.4~2.5	Black	0~25	100
SA303015	3.0	3~3.1	Pink	0~15	100
SA303025	2.4	3~3.1	Pink	0~25	100
SA303215	3.2	3.2~3.35	Red	0~15	200
SA303225	3.2	3.2~3.35	Red	0~25	200
SA303235	3.2	3.2~3.35	Red	10~35	200
SA303615	3.6	3.5~3.7	Blue	0~15	200
SA303625	3.6	3.5~3.7	Blue	0~25	200
SA303635	3.6	3.5~3.7	Blue	10~35	200
SA304115	4.1	4~4.2	White	0~15	250
SA304125	4.1	4~4.2	White	0~25	250
SA304140	4.1	4~4.2	White	15~40	250
SA304815	4.8	4.7~5	Yellow	0~15	350
SA304825	4.8	4.7~5	Yellow	0~25	350
SA304840	4.8	4.7~5	Yellow	15~40	350
SA304850	4.8	4.7~5	Yellow	25~50	350
SA305615	5.6	5.4~5.7	Black	0~15	350
SA305615	5.6	5.4~5.7	Black	0~15	350
SA305615	5.6	5.4~5.7	Black	0~15	350
SA305615	5.6	5.4~5.7	Black	0~15	350
SA305815	5.8	5.7~6	Green	0~15	350
SA305825	5.8	5.7~6	Green	0~25	350
SA305840	5.8	5.7~6	Green	15~40	350
SA305850	5.8	5.7~6	Green	25~50	350
SA306315	6.3	6.2~6.5	Brown	0~15	350
SA306325	6.3	6.2~6.5	Brown	0~25	350
SA306340	6.3	6.2~6.5	Brown	15~40	350
SA306350	6.3	6.2~6.5	Brown	25~50	350



Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Power Operated Cylindrical Fasteners



Part No.	Hole Dia. inch	Grip Range inch	Color Code	Drill Size
CYIB-3/32	3/32"	0-1/2"	Zinc	#40
CYIB-1/8	1/8"	0-1/2"	Copper	#30
CYIB-5/32	5/32"	0-1/2"	Black	#21
CYIB-3/16	3/16"	0-1/2"	Brass	#10
CYIB-7/32	7/32"	0-1/2"	Zinc	#2
CYIB-1/4	1/4"	0-1/2"	Copper	1/4"
CYIC-3/32	3/32"	0-1"	Zinc	#40
CYIC-1/8	1/8"	0-1"	Copper	#30
CYIC-5/32	5/32"	0-1"	Black	#21
CYIC-3/16	3/16"	0-1"	Brass	#10
CYIC-7/32	7/32"	0-1"	Zinc	#2
CYIC-1/4	1/4"	0-1"	Copper	1/4"

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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Ⓔ MATERIAL REMOVAL

SABRE AIRCRAFT TOOLS

Air Scribe & Engraving Pen



Air Scribe

Model No.	Blows Per Min	Length inch/mm	Weight lb/kg
S41200	13,500	4.8" (122mm)	0.3lb (0.14kg)



Engraving Pen

Model No.	Blows Per Min	Length inch/mm	Weight lb/kg
S41201	13,000	5.5" (140mm)	0.22lb (0.1kg)

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.
Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.
WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

Products and specifications subject to change without prior notice.

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SABRE AIRCRAFT TOOLS

Micro Grinders



Model No.	Free Speed RPM	Power HP/Watt	Exhaust	Length inch/mm	Weight lb/kg	Noise Level dB(A)	Vibration m/s2
S41215	54,000	0.1HP (7.5W)	Rear	5.39" (137mm)	0.44lb (0.2kg)	81	1.1
S41210	70,000	0.1HP (7.5W)	Rear	5.39" (137mm)	0.44lb (0.2kg)	81	1.1



Model No.	Free Speed RPM	Power HP/Watt	Exhaust	Length inch/mm	Weight lb/kg	Noise Level dB(A)	Vibration m/s2
S41220	70,000	0.1HP (7.5W)	Rear	5.9" (150mm)	0.50lb (0.23kg)	72	2.0

Standard Collete Size 1/8" #SA850040

Optional Collets

3/32" #SA850041

3mm #SA850042

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Precision Turbine Grinders



Model No.	Ref.	Collet Size	Free Speed RPM	Power HP/Watt	Exhaust	Length inch/mm	Weight lb/kg	Noise Level dB(A)	Vibration m/s2
S41225	10-90	1/8	100,000	0.06HP (0.044W)	Front	5.4" (137mm)	0.5lb (0.23kg)	75	<2.5
S41226	10-90	3mm	100,000	0.06HP (0.044W)	Front	5.4" (137mm)	0.5lb (0.23kg)	75	<2.5



Model No.	Ref.	Collet Size	Free Speed RPM	Power HP/Watt	Exhaust	Length inch/mm	Weight lb/kg	Noise Level dB(A)	Vibration m/s2
S41227	201SV	1/8	65,000	0.2HP (150W)	Rear	6.1" (154mm)	0.37lb (0.17kg)	65	<2.5
S41228	201SV	3mm	65,000	0.2HP (150W)	Rear	6.1" (154mm)	0.37lb (0.17kg)	65	<2.5
S41229	202SV	1/8	65,000	0.55HP (410W)	Rear	7.0" (178mm)	0.5lb (0.23kg)	65	<2.5
S41230	202SV	3mm	65,000	0.55HP (410W)	Rear	7.0" (178mm)	0.5lb (0.23kg)	65	<2.5
S41231	525SV	1/4	40,000	0.45HP (340W)	Rear	7.7" (195mm)	0.88lb (0.40kg)	65	<2.5
S41232	525SV	6mm	40,000	0.45HP (340W)	Rear	7.7" (195mm)	0.88lb (0.40kg)	65	<2.5



Model No.	Ref.	Collet Size	Free Speed RPM	Power HP/Watt	Exhaust	Length inch/mm	Weight lb/kg	Noise Level dB(A)	Vibration m/s2
S41233	230DM	1/4	25,000	0.76HP (570W)	Rear	11.7" (297mm)	2.2lb (1.0kg)	67	<2.5
S41226	230DM	6mm	25,000	0.76HP (570W)	Rear	11.7" (297mm)	2.2lb (1.0kg)	67	<2.5

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Die Grinders



0.3HP (0.22KW)

0.6HP (0.45KW)

0.9HP (0.67KW)

Model No.	Free Speed RPM	Collet Series	Exhaust	Power HP/Watt	Length inch/mm	Weight lb/kg	Noise Level dB(A)	Vibration m/s2
S45210	25,000	300	Rear	0.3HP (0.22KW)	6.0" (152mm)	0.81lb (0.37kg)	80	<2.5
S45211	25,000	300	Front	0.3HP (0.22KW)	5.3" (135mm)	0.75lb (0.34kg)	80	<2.5
S45310	22,000	200	Rear	0.6HP (0.45KW)	7.4" (188mm)	1.49lbs (0.68kg)	80	<2.5
S45311	22,000	200	Front	0.6HP (0.45KW)	6.4" (163mm)	1.36lbs (0.62kg)	80	<2.5
S45410	18,000	200	Rear	0.9HP (0.67KW)	7.25" (184mm)	1.65lbs (0.75kg)	80	<2.5
S45411	18,000	200	Front	0.9HP (0.67KW)	6.75" (159mm)	1.54lbs (0.70kg)	80	<2.5

Standard Collete Size 1/4"

Series 300		Series 200	
Part No.	Size	Part No.	Size
SA841250	1/8	SA851250	1/8
SA841875	3/16	SA851875	3/16
SA842500	1/4	SA852500	1/4
SA841181	3mm	SA853125	5/16
SA842362	6mm	SA852362	6mm
		SA853150	8mm

Standard Equipment

Safety Lever
#SP15403SL



Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.
Tool Performance rated @ 90PSI (620KPA) Air Pressure.

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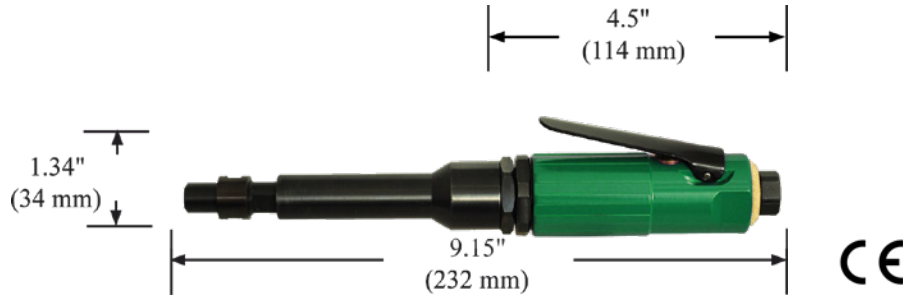
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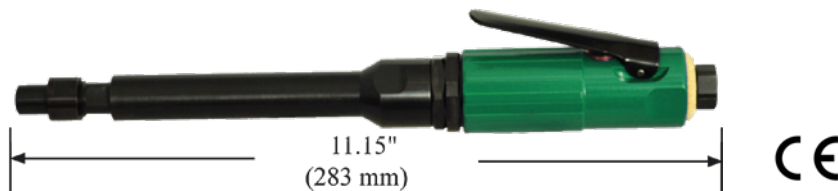


SABRE AIRCRAFT TOOLS

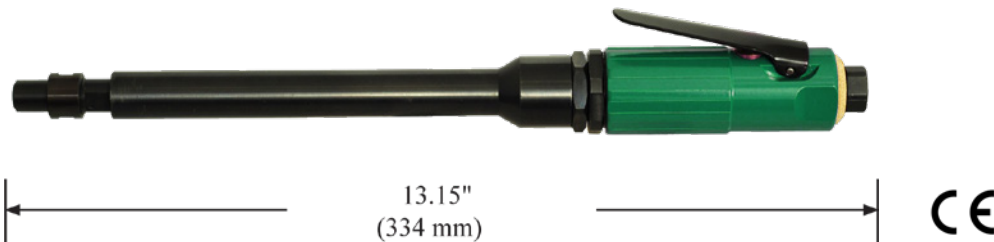
Extended Die Grinders



Model No.	Free Speed RPM	Collet Series	Exhaust	Power HP/Watt	Length inch/mm	Weight lb/kg	Noise Level dB(A)	Vibration m/s2
S45220	25,000	300	Rear	0.3HP (0.22KW)	9.15" (232mm)	1.30lb (0.59kg)	84	<2.5



Model No.	Free Speed RPM	Collet Series	Exhaust	Power HP/Watt	Length inch/mm	Weight lb/kg	Noise Level dB(A)	Vibration m/s2
S45225	25,000	300	Rear	0.3HP (0.22KW)	11.15" (283mm)	1.5lb (0.68kg)	84	<2.5



Model No.	Free Speed RPM	Collet Series	Exhaust	Power HP/Watt	Length inch/mm	Weight lb/kg	Noise Level dB(A)	Vibration m/s2
S46230	25,000	300	Rear	0.3HP (0.22KW)	13.15" (334mm)	1.70lb (0.78kg)	84	<2.5
S46235	18,000	200	Rear	0.9HP (0.67KW)	13.38" (340mm)	2.86lb (1.30kg)	86	<2.5

Standard Collete Size 1/4"

Series 300		Series 200	
Part No.	Size	Part No.	Size
SA841250	1/8	SA851250	1/8
SA841875	3/16	SA851875	3/16
SA842500	1/4	SA852500	1/4
SA841181	3mm	SA853125	5/16
SA842362	6mm	SA852362	6mm
		SA853150	8mm

Standard Equipment

Safety Lever
#SP15403SL



Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

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Angle Die Grinders

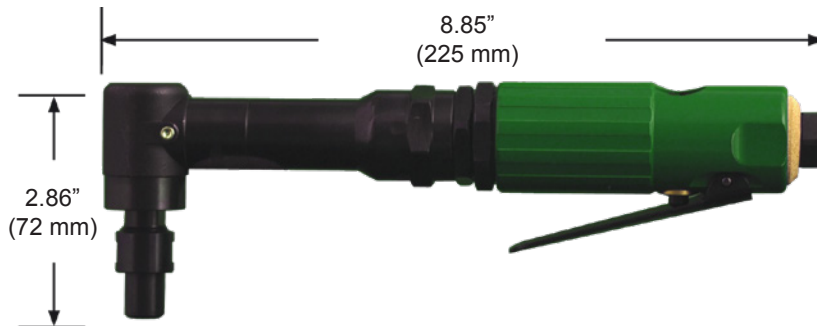


CE

0.3HP (0.22KW)

0.6HP (0.45KW)

Model No.	Free Speed RPM	Collet Series	Exhaust	Power HP/Watt	Length inch/mm	Weight lb/kg	Noise Level dB(A)	Vibration m/s2
S46205	20,000	300	Rear	0.3HP (0.22KW)	6.0" (152mm)	0.94lb (0.42kg)	82	<2.5
S46206	20,000	300	Front	0.3HP (0.22KW)	5.0" (127mm)	0.94lb (0.42kg)	82	<2.5
S46210	12,000	300	Rear	0.3HP (0.22KW)	6.0" (152mm)	0.94lb (0.42kg)	82	<2.5
S46211	12,000	300	Front	0.3HP (0.22KW)	5.0" (127mm)	0.94lb (0.42kg)	82	<2.5
S46220	22,000	200	Rear	0.6HP (0.45KW)	6.8" (175mm)	1.7lbs (0.80kg)	83	<2.5
S46221	22,000	200	Front	0.6HP (0.45KW)	6.0" (152mm)	1.7lbs (0.80kg)	83	<2.5



CE

1/4" Extended Angle Die Grinder

Model No.	Free Speed RPM	Collet Series	Exhaust	Power HP/Watt	Length inch/mm	Weight lb/kg	Noise Level dB(A)	Vibration m/s2
S46225	20,000	300	Rear	0.3HP (0.22KW)	8.85" (225mm)	1.32lb (0.60kg)	82	<2.5

Standard Collete Size 1/4"

Series 300		Series 200	
Part No.	Size	Part No.	Size
SA841250	1/8	SA851250	1/8
SA841875	3/16	SA851875	3/16
SA842500	1/4	SA852500	1/4
SA841181	3mm	SA853125	5/16
SA842362	6mm	SA852362	6mm
		SA853150	8mm

Standard Equipment

Safety Lever
#SP15403SL



Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

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SABRE AIRCRAFT TOOLS

Cut-Off Grinders



CE

Model No.	Capacity Wheel inch/mm	Arbor	Free Speed RPM	Exhaust	Power HP/Watt	Length inch/mm	Weight lb/kg	Noise Level dB(A)	Vibration m/s2
S46330	3.0" (76mm)	3/8" (9.5mm)	25,000	Rear	0.5HP (0.35KW)	7.75" (197mm)	1.75lb (0.79kg)	85	<2.5
S46340	4.0" (102mm)	3/8" (9.5mm)	18,000	Rear	0.9HP (0.67KW)	7.0" (178mm)	2.1lb (0.95kg)	85	<2.5



CE

Model No.	Capacity Wheel inch/mm	Arbor	Free Speed RPM	Exhaust	Power HP/Watt	Length inch/mm	Weight lb/kg	Noise Level dB(A)	Vibration m/s2
S46346	4.0" (102mm)	3/8" (9.5mm)	18,000	Rear	0.9HP (0.67KW)	15.0" (381mm)	3.4lb (1.54kg)	90	<2.5

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

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SABRE AIRCRAFT TOOLS

Heavy Duty Angle Grinders



CE

SM4XAG

1.1HP (0.82KW) With Governor

Model Number	Free Speed RPM	Capacity Wheel inch/mm	Spindle Thread	Weight lbs/kg	Length inch/mm	Vibration Level	Sound Level dB(A)
S48410	12,000	4.0" (100mm)	3/8"-24	4.4lbs (2.0kg)	9.5" (240mm)	<2.5m/s2	90
S48411	12,000	4.5" (115mm)	5/8"-11	4.4lbs (2.0kg)	9.5" (240mm)	<2.5m/s2	90
S48412	12,000	4.5" (115mm)	M14x2.0	4.4lbs (2.0kg)	9.5" (240mm)	<2.5m/s2	90
S48413	12,000	5" (125mm)	3/8"-24	4.4lbs (2.0kg)	9.5" (240mm)	<2.5m/s2	90
S48414	12,000	5" (125mm)	5/8"-11	4.4lbs (2.0kg)	9.5" (240mm)	<2.5m/s2	90
S48415	12,000	5" (125mm)	M14x2.0	4.4lbs (2.0kg)	9.5" (240mm)	<2.5m/s2	90



CE

SM5XAG

1.2HP (0.895KW) With Governor

Model Number	Free Speed RPM	Capacity Wheel inch/mm	Spindle Thread	Weight lbs/kg	Length inch/mm	Vibration Level	Sound Level dB(A)
S48422	12,000	5.0" (125mm)	5/8"-11	4.6lbs (2.1kg)	11.75" (296mm)	<2.5m/s2	90

SM6XAG

2.2HP (1.641KW) With Governor

S48432	8,400	7.0" (180mm)	5/8"-11	6.6lbs (3.0kg)	12.75" (323mm)	<2.5m/s2	90
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Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

Tool Performance rated @ 90PSI (620KPA) Air Pressure.

Safety Precaution: Read and follow all safety and operating instructions.

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SABRE AIRCRAFT TOOLS

Mini Orbital Sander



Model No.	Backing Pad Size	Free Speed RPM	Power HP/Watt	Exhaust	Length inch/mm	Weight lb/kg	Noise Level dB(A)
S46252	2"	12,000	0.3HP (0.22KW)	Rear	5.8" (147mm)	1.5lb (0.68kg)	84



Model No.	Backing Pad Size	Free Speed RPM	Power HP/Watt	Exhaust	Length inch/mm	Weight lb/kg	Noise Level dB(A)
S46253	3"	12,000	0.3HP (0.22KW)	Rear	5.8" (147mm)	1.5lb (0.68kg)	84

Standard Equipment

Safety Handle



Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.
Tool Performance rated @ 90PSI (620KPA) Air Pressure.

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SABRE AIRCRAFT TOOLS

Heavy Duty Angle Sander Polisher



SMX5AS Angle Sander 1.3HP (0.97KW)

Model Number	Free Speed RPM	Capacity Wheel inch/mm	Spindle Thread	Weight lbs/kg	Length inch/mm	Vibration Level	Sound Level dB(A)
S46650	4,500	7.0" (180mm)	5/8"-11	5.1lbs (2.3kg)	12.9" (328mm)	<2.5m/s2	90

SMX5AP Angle Polisher 1.3HP (0.97KW)

Model Number	Free Speed RPM	Capacity Wheel inch/mm	Spindle Thread	Weight lbs/kg	Length inch/mm	Vibration Level	Sound Level dB(A)
S46655	2,500	7.0" (180mm)	5/8"-11	5.1lbs (2.3kg)	12.9" (328mm)	<2.5m/s2	90

Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.
Tool Performance rated @ 90PSI (620KPA) Air Pressure.

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SABRE AIRCRAFT TOOLS

Air Routers



0.6HP (0.45KW)

Model No.	Free Speed RPM	Exhaust	Power HP/Watt	Length inch/mm	Weight lb/kg	Noise Level dB(A)	Vibration m/s2
S46355	22,000	Front	0.6HP (0.45W)	7.1" (180mm)	1.9lb (0.9kg)	80	<2.5
S46356	22,000	Rear	0.6HP (0.45W)	7.5" (191mm)	1.9lb (0.9kg)	80	<2.5

0.9HP (0.67KW)

Model No.	Free Speed RPM	Exhaust	Power HP/Watt	Length inch/mm	Weight lb/kg	Noise Level dB(A)	Vibration m/s2
S46359	18,000	Front	0.9HP (0.67W)	7.1" (180mm)	2.6lb (2.1kg)	80	<2.5
S46360	18,000	Rear	0.9HP (0.67W)	7.5" (191mm)	2.6lb (2.1kg)	80	<2.5

Series 200 Collets

Collets	SA851250	1/8"
	SA851875	3/16"
	SA852500	1/4"
	SA853125	5/16"
	SA853750	3/8"
	SA852362	6mm
	SA853150	8mm

Standard Equipment
Safety Lever
#SP15403SL



Air Inlet 1/4" NPT. Use 5/16" (8.0 mm) I.D. Hose.

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