

◇ Interchangeable Counterbores and Pilots



Counterbore Size	Pilot Hole Size	Range of Pilot Sizes	No. of Flute	Overall Length	Straight Shank		Taper Shank	
					Shank Dia.	Part Number	Morse Taper No.	Part Number
3/16	3/32	1/8--5/32	3	3-1/2	15/64	SA5411012	—	SA5421012
7/32	3/32	1/8--3/16	3	3-5/8	15/64	SA5411014	—	SA5421014
15/64	3/32	1/8--3/16	3	3-5/8	15/64	SA5411015	—	SA5421015
1/4	3/32	1/8--3/16	3	3-13/16	15/64	SA5411016	1	SA5421016
17/64	3/32	1/8--3/16	3	3-13/16	17/64	SA5411017	—	SA5421017
9/32	3/32	1/8--7/32	3	3-13/16	17/64	SA5411018	1	SA5421018
19/64	3/32	1/8--7/32	3	3-13/16	17/64	SA5411019	—	SA5421019
5/16	3/32	1/8--1/4	3	3-13/16	19/64	SA5411020	1	SA5421020
11/32	3/32	1/8--9/32	3	3-13/16	5/16	SA5411022	1	SA5421022
3/8	5/32	3/16--5/16	3	4-1/16	5/16	SA5411024	1	SA5421024
25/64	5/32	3/16--5/16	3	4-1/16	3/8	SA5411025	—	SA5421025
13/32	5/32	3/16--11/32	3	4-1/16	3/8	SA5411026	1	SA5421026
7/16	5/32	3/16--3/8	3	4-1/16	3/8	SA5411028	1	SA5421028
15/32	3/16	1/4--13/32	3	4-5/16	7/16	SA5411030	1	SA5421030
31/64	3/16	1/4--7/16	3	4-5/16	7/16	SA5411031	—	SA5421031
1/2	3/16	1/4--7/16	3	4-5/16	7/16	SA5411032	1	SA5421032
17/32	3/16	1/4--15/32	3	4-5/16	1/2	SA5411034	1	SA5421034
9/16	3/16	1/4--1/2	3	4-5/16	1/2	SA5411036	1	SA5421036
37/64	3/16	1/4--1/2	3	5-1/8	1/2	SA5411037	—	SA5421037
19/32	3/16	1/4--17/32	3	5-1/8	1/2	SA5411038	2	SA5421038
5/8	3/16	1/4--9/16	3	5-1/8	1/2	SA5411040	2	SA5421040
41/64	3/16	1/4--9/16	3	5-1/8	1/2	SA5411041	—	SA5421041
21/32	3/16	1/4--19/32	3	5-1/8	1/2	SA5411042	2	SA5421042
11/16	3/16	1/4--5/8	3	5-1/8	1/2	SA5411044	2	SA5421044
23/32	1/4	5/16--21/32	3	5-3/8	1/2	SA5411046	2	SA5421046
3/4	1/4	5/16--11/16	3	5-3/8	1/2	SA5411048	2	SA5421048
25/32	1/4	5/16--23/32	3	5-3/8	5/8	SA5411050	2	SA5421050
13/16	1/4	5/16--3/4	3	5-3/8	5/8	SA5411052	2	SA5421052
27/32	1/4	5/16--25/32	3	5-3/8	3/4	SA5411054	2	SA5421054
7/8	1/4	5/16--13/16	3	5-3/8	3/4	SA5411056	2	SA5421056
29/32	1/4	5/16--27/32	3	6-1/8	3/4	SA5411058	3	SA5421058
15/16	1/4	5/16--7/8	3	6-1/8	3/4	SA5411060	3	SA5421060
31/32	5/16	3/8--15/16	3	6-3/8	3/4	SA5411062	3	SA5421062
1	5/16	3/8--15/16	3	6-3/8	3/4	SA5411064	3	SA5421064
1-1/16	5/16	3/8--1	3	6-3/8	3/4	SA5411104	3	SA5421104
1-1/8	5/16	3/8--1-1/16	3	6-3/8	1	SA5411108	3	SA5421108
1-3/16	5/16	3/8--1-1/8	3	6-3/8	1	SA5411112	3	SA5421112
1-1/4	3/8	7/16--1-3/16	5	6-5/8	1	SA5411116	3	SA5421116
1-5/16	3/8	7/16--1-1/4	5	6-5/8	1	SA5411120	3	SA5421120
1-3/8	3/8	7/16--1-5/16	5	6-5/8	1	SA5411124	3	SA5421124
1-7/16	3/8	7/16--1-3/8	5	7-7/8	1-1/4	SA5411128	4	SA5421128
1-1/2	3/8	7/16--1-7/16	5	7-7/8	1-1/4	SA5411132	4	SA5421132
1-5/8	7/16	1/2--1-9/16	5	8-1/8	1-1/4	SA5411140	4	SA5421140
1-11/16	7/16	1/2--1-5/8	5	8-1/8	1-1/4	SA5411144	4	SA5421144
1-3/4	7/16	1/2--1-11/16	5	8-1/8	1-1/4	SA5411148	4	SA5421148
1-13/16	7/16	1/2--1-3/4	5	8-1/8	1-1/2	SA5411152	4	SA5421152
1-7/8	7/16	1/2--1-13/16	5	8-1/8	1-1/2	SA5411156	4	SA5421156
2	1/2	9/16--1-15/16	5	8-3/8	1-1/2	SA5411200	4	SA5421200
2-1/8	1/2	9/16--2-1/16	5	9-7/8	1-1/2	SA5411208	5	SA5421208
2-1/4	1/2	9/16--2-3/16	5	9-7/8	1-1/2	SA5411216	5	SA5421216
2-3/8	1/2	9/16--2-5/16	5	9-7/8	1-1/2	SA5411224	5	SA5421224
2-1/2	1/2	9/16--2-7/16	5	9-7/8	1-1/2	SA5411232	5	SA5421232
2-5/8	1/2	9/16--2-9/16	5	9-7/8	1-3/4	SA5411240	5	SA5421240
2-3/4	1/2	9/16--2-11/16	5	9-7/8	1-3/4	SA5411242	5	SA5421242
2-7/8	1/2	9/16--2-13/16	5	9-7/8	1-3/4	SA5411256	5	SA5421256
3	1/2	9/16--2-15/16	5	9-7/8	1-3/4	SA5411300	5	SA5421300

◆PILOTS

Pilot Diameter	Part Number		
	Shank Diameter		
	3/16	1/4	5/16
3/16	SA511012	SA521012	SA531012
7/32	SA511014	SA521014	SA531014
1/4	SA511016	SA521016	SA531016
F	SA513006	SA523006	SA533006
9/32	SA511018	SA521018	SA531018
5/16	SA511020	SA521020	SA531020
11/32	SA511022	SA521022	SA531022
3/8	SA511024	SA521024	SA531024
13/32	SA511026	SA521026	SA531026
7/16	SA511028	SA521028	SA531028
15/32	SA511030	SA521030	SA531030
1/2	SA511032	SA521032	SA531032
17/32	SA511034	SA521034	SA531034
9/16	SA511036	SA521036	SA531036
19/32	SA511038	SA521038	SA531038
5/8	SA511040	SA521040	SA531040
21/32	SA511042	SA521042	SA531042
11/16	SA511044	SA521044	SA531044
23/32	SA511046	SA521046	SA531046
3/4	SA511048	SA521048	SA531048
25/32	SA511050	SA521050	SA531050
13/16	SA511052	SA521052	SA531052
27/32	SA511054	SA521054	SA531054
7/8	SA511056	SA521056	SA531056
29/32	SA511058	SA521058	SA531058
15/16	SA511060	SA521060	SA531060
31/32	SA511062	SA521062	SA531062
1	SA511064	SA521064	SA531064
1-1/16	SA511066	SA521066	SA531066
1-1/8	SA511068	SA521068	SA531068
1-3/16	SA511070	SA521070	SA531070

Pilot Diameter	Shank Diameter		
	3/32	1/8	5/32
	1/8	SA541008	SA551008
9/64	SA541009	SA551009	SA561009
5/32	SA541010	SA551010	SA561010
3/16	SA541012	SA551012	SA561012
7/32	SA541014	SA551014	SA561014
1/4	SA541016	SA551016	SA561016
F	SA543006	SA553006	SA563006
9/32	SA541018	SA551018	SA561018
5/16	SA541020	SA551020	SA561020
11/32	SA541022	SA551022	SA561022
3/8	SA541024	SA551024	SA561024
13/32	SA541026	SA551026	SA561026
7/16	SA541028	SA551028	SA561028
15/32	SA541030	SA551030	SA561030
1/2	SA541032	SA551032	SA561032
9/16	SA541036	SA551036	SA561036

Pilot Diameter	Shank Diameter		
	3/32	1/8	5/32
	1/4	SA541016	SA551016
13/32	SA541026	SA551026	SA561026
7/16	SA541028	SA551028	SA561028
15/32	SA541030	SA551030	SA561030
1/2	SA541032	SA551032	SA561032
17/32	SA541034	SA551034	SA561034
9/16	SA541036	SA551036	SA561036
19/32	SA541038	SA551038	SA561038
5/8	SA541040	SA551040	SA561040
21/32	SA541042	SA551042	SA561042
11/16	SA541044	SA551044	SA561044
23/32	SA541046	SA551046	SA561046
3/4	SA541048	SA551048	SA561048
25/32	SA541050	SA551050	SA561050
13/16	SA541052	SA551052	SA561052
27/32	SA541054	SA551054	SA561054
7/8	SA54056	SA551056	SA561056
29/32	SA541058	SA551058	SA561058
15/16	SA541060	SA551060	SA561060
31/32	SA541062	SA551062	SA561062
1	SA541064	SA551064	SA561064
1-1/16	SA541104	SA551104	SA561104
1-1/8	SA541108	SA551108	SA561108
1-3/16	SA541112	SA551112	SA561112
1-1/4	SA541116	SA551116	SA561116
1-5/16	SA541120	SA551120	SA561120
1-3/8	SA541124	SA551124	SA561124
1-7/16	SA541128	SA551128	SA561128
1-1/2	SA541132	SA551132	SA561132
1-9/16	SA541136	SA551136	SA561136
1-5/8	SA541140	SA551140	SA561140
1-11/16	SA541144	SA551144	SA561144
1-3/4	SA541148	SA551148	SA561148
1-13/16	SA541152	SA551152	SA561152
1-7/8	SA541156	SA551156	SA561156
1-15/16	SA541160	SA551160	SA561160

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