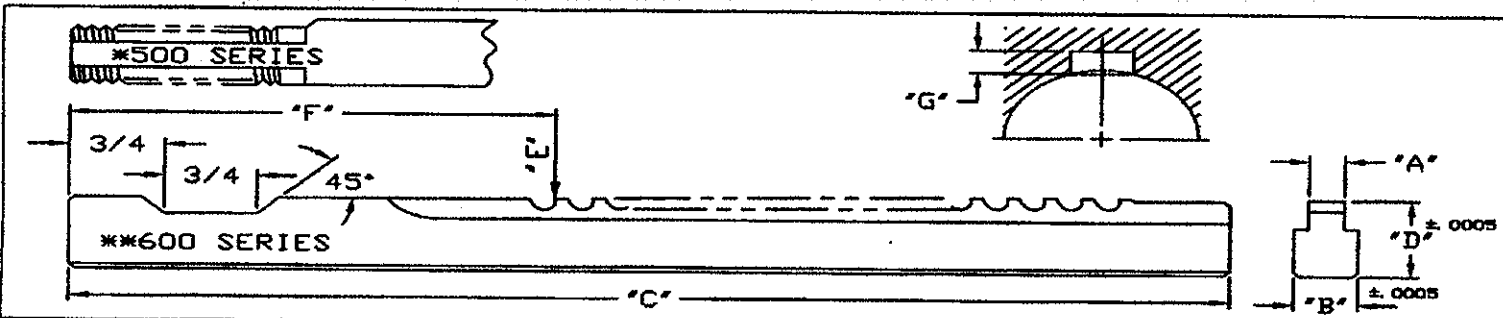


PIONEER BROACH COMPANY

"The Finest in Cutting Tools"

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*500 SERIES	**600 SERIES	A Keyway Width			Min. Hole Size	Min. Length of Cut	Max Length of cut	B Width of Body	C Total Broach Length	D Height at Last Tooth	E Height at First Tooth	F Length of Shank	G Keyway Depth In Part	# of Cuts Require	Thread Size
		NOM. DIM.	Decimal Dim.	Toll.											
501	601	1/16	0.0635	± .0002	3/8	3/8	1 1/4	0.1552	20	0.313	0.271	7 13/16	0.042	1	1/4-20
502	602	3/32	0.0948	± .0002	7/16	1/2	1 1/2	0.1865	24	0.367	0.309	8 1/4	0.058	1	5/16-18
503	603	3/32	0.0948	+ .0002	5/8	5/8	2 1/2	0.249	33	0.491	0.433	10	0.058	1	3/8-16
504	604	1/8	0.126	± .0002	1/2	1/2	1 1/2	0.249	30	0.438	0.364	9	0.074	1	1/2-13
505	605	1/8	0.126	± .0002	7/8	5/8	2 1/2	0.3115	36	0.594	0.520	10	0.074	1	3/8-16
506	606	3/32	0.1572	± .0002	19/32	1/2	1 1/2	0.249	30	0.525	0.436	9	0.089	1	1/2-13
507	607	3/32	0.1572	± .0002	23/32	5/8	2 1/2	0.3115	33	0.625	0.536	10	0.089	1	1/2-13
508	608	3/16	0.1885	± .0002	11/16	5/8	2 1/2	0.374	36	0.581	0.476	10	0.105	1	1/2-13
509	609	3/16	0.1885	± .0002	15/16	11/16	3 1/2	0.374	36	0.796	0.691	10 11/16	0.105	1	1/2-13
510	610	7/32	0.2198	± .0002	11/16	5/8	2 1/2	0.374	33	0.557	0.437	10	0.105	1	1/2-13
511	611	7/32	.2198	± .0002	15/16	11/16	3 1/2	0.374	42	0.813	0.693	11 11/16	0.12	1	1/2-13
512	612	1/4	0.251	± .0002	11/16	5/8	2 1/2	0.374	36	0.612	0.476	10	0.12	1	1/2-13
513	613	1/4	0.251	± .0002	1	11/16	4	0.499	45	0.877	0.741	11 13/16	0.136	1	5/8-11
514	614	1/4	0.251	± .0002	1 7/16	7/8	6	0.624	51	1.25	1.114	13 1/2	0.136	1	3/4-10
515	615	9/32	0.2828	± .0002	7/8	11/16	4	0.499	42	0.716	0.564	11 5/8	0.152	1	5/8-11
516	616	9/32	0.2828	± .0002	1 1/4	7/8	6	0.499	51	1.093	0.941	13 1/2	0.152	1	5/8-11
517	617	5/16	0.314	± .0002	1	11/16	4	0.499	45	0.908	0.741	11 13/16	0.167	1	5/8-11
518	618	5/16	0.314	± .0002	1 5/16	7/8	6	0.499	51	1.158	0.991	13 1/2	0.167	1	5/8-11
519	619	3/8	0.3765	± .0002	1 1/16	11/16	4	0.499	45	0.938	0.739	11 13/16	0.199	1	5/8-11
520	620	3/8	0.3765	± .0002	1 5/16	7/8	6	0.499	54	1.189	0.990	13 1/2	0.199	1	5/8-11
521	621	7/16	0.439	± .0002	1 9/16	11/16	4	0.624	48	1.39	1.160	12	0.23	1	3/4-10
522	622	7/16	0.439	± .0002	2	1	8	0.624	48	1.611	1.496	15 5/8	0.23	2	3/4-10
523	623	1/2	0.5015	± .0002	1 1/2	11/16	4	0.624	48	1.312	1.051	12	0.261	1	3/4-10
524	624	1/2	0.5015	± .0002	1 1/2	1	8	0.624	48	1.377	1.246	16 1/2	0.261	2	3/4-10
525	625	9/16	0.5645	± .0003	1 3/4	11/16	4	0.6865	54	1.438	1.146	11 13/16	0.292	1	1 - 8
526	626	9/16	0.5645	± .0003	1 5/8	1	8	0.6865	51	1.391	1.245	16	0.292	2	1 - 8
527	627	9/16	0.5645	± .0003	2 1/4	1 1/8	12	0.874	60	1.641	1.495	20	0.292	2	1 - 8
528	628	5/8	0.627	± .0003	1 7/8	1	4	0.749	60	1.625	1.301	12 3/16	0.324	1	1-8
529	629	5/8	0.627	± .0003	2 1/2	1	8	0.874	54	1.657	1.495	16 3/8	0.324	2	1 - 8
530	630	5/8	0.627	± .0003	2 1/4	1 1/8	12	0.874	57	1.657	1.495	20	0.324	2	1-8
531	631	3/4	0.752	± .0003	1 7/8	11/16	4	0.874	60	1.625	1.239	12 3/16	0.386	1	1 - 8
532	632	3/4	0.752	± .0003	2	1	8	0.999	60	1.688	1.495	16 1/4	0.386	2	1 1/4-7
533	633	3/4	0.752	± .0003	2 1/4	1 1/8	12	0.999	57	1.688	1.560	20	0.386	3	1 1/4-7
534	634	7/8	0.877	± .0003	2 1/4	11/16	4	1.124	63	1.875	1.426	12 3/8	0.449	1	1 1/4-7
535	635	7/8	0.877	± .0003	2 1/4	1	8	1.124	63	1.719	1.494	15 3/4	0.449	2	1 1/4-7
536	636	7/8	0.877	± .0003	2 1/4	1 1/8	12	1.124	63	1.719	1.569	20	0.449	3	1 1/4-7
537	637	1	1.002	± .0003	2 1/4	5/8	2 1/2	1.249	63	1.75	1.239	10 1/2	0.511	1	1 1/2-6
538	638	1	1.002	± .0003	2 1/4	7/8	6	1.249	63	1.75	1.494	14 1/4	0.511	2	1 1/2-6
539	639	1	1.002	± .0003	2 1/4	1 1/2	12	1.249	60	1.75	1.580	20	0.511	3	1 1/2-6