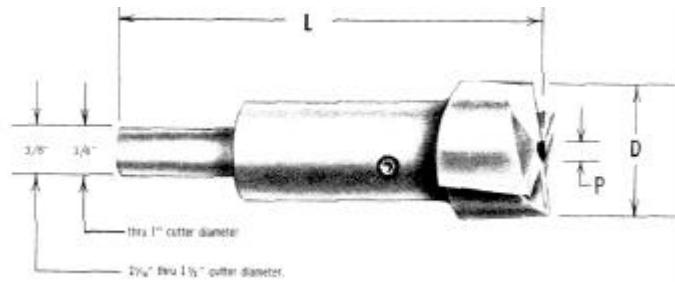


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MARTIN MM275 COUNTERBORES

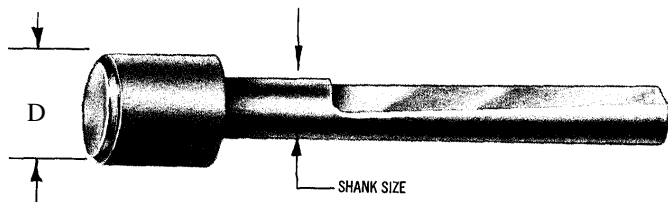
MM275 Counterbores are for use in portable drill motors and drill presses. Quality made of high speed tool steel, properly heat treated and precision ground to ensure free cutting. Corner radii ground to aircraft standards.



TOOL NUMBER	D-DIAMETER	PILOT HOLE	L- LENGTH	TOOL NUMBER	D-DIAMETER	PILOT HOLE	L-LENGTH
MM275-1	1/4"	3/32"	2 3/8"	MM275-17	3/4"	3/16"	2-3/4"
MM275-2	9/32"			MM275-18	25/32"		
MM275-3	5/16"			MM275-19	13/16"		
MM275-4	11/32"			MM275-20	27/32"		
MM275-5	3/8"			MM275-21	7/8"		
MM275-6	13/32"	1/8"	2 3/4"	MM275-22	29/32"		
MM275-7	7/16"			MM275-23	15/16"		
MM275-8	15/32"			MM275-24	31/32"		
MM275-9	1/2"			MM275-25	1"		
MM275-10	17/32"			MM275-26	1- 1/16"		
MM275-11	9/16"			MM275-27	1-1/8"		
MM275-12	19/32"			MM275-28	1-3/16"		
MM275-13	5/8"	3/16"	2 3/4"	MM275-29	1-1/4"		
MM275-14	21/32"			MM275-30	1-5/16"		
MM275-15	11/16"			MM275-31	1-3/8"		
MM275-16	23/32"			MM275-32	1-1/2"		

MM276 COUNTERBORE PILOTS

Martin MM276 Pilots are for use in the MM275 / 277 /278 series counterbores. Made from heat treated tool steel and precision ground to ensure concentricity and size tolerance.



When ordering please specify shank size.

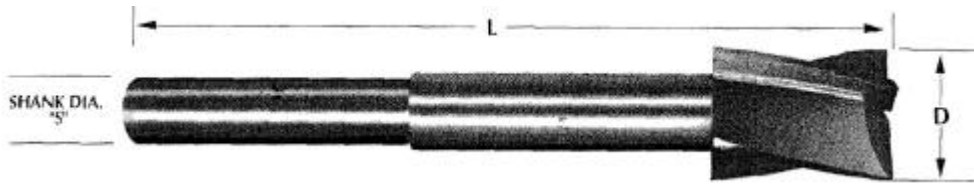
Tool Number	Size	D Diameter	Shank Size
MM276-1	3/32"	.092	3/32"
MM276-2	1/8"	.123	3/32", 1/8"
MM276-3	5/32"	.154	3/32", 1/8"
MM276-4	#20	.159	3/32", 1/8"
MM276-5	3/16"	.186	3/32", 1/8", 3/16"
MM276-6	#10	.1915	3/32", 1/8", 3/16"
MM276-7	7/32"	.2165	3/32", 1/8", 3/16"
MM276-8	1/4"	.248	3/32", 1/8", 3/16"
MM276-9	F	.255	3/32", 1/8", 3/16"
MM276-10	9/32"	.279	3/32", 1/8", 3/16"
MM276-11	5/16"	.3105	3/32", 1/8", 3/16"
MM276-12	11/32"	.3415	3/32", 1/8", 3/16"

Tool Number	Size	D Diameter	Shank Size
MM276-13	3/8"	.373	1/8", 3/16"
MM276-14	13/32"	.404	1/8", 3/16"
MM276-15	7/16"	.4355	1/8", 3/16"
MM276-16	15/32"	.4665	1/8", 3/16"
MM276-17	1/2"	.498	1/8", 3/16"
MM276-18	17/32"	.529	3/16"
MM276-19	9/16"	.560	3/16"
MM276-20	19/32"	.591	3/16"
MM276-21	5/8"	.622	3/16"
MM276-22	21/32"	.653	3/16"
MM276-23	11/16"	.685	3/16"
MM276-24	23/32"	.716	3/16"
MM276-25	3/4"	.747	3/16"

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MARTIN MM278 COUNTERBORES - LONG TYPE



Martin MM278 Counter bore - Long Types

MM278 Counter bores Feature deep flutes and hardened shanks. All diameters are ground for concentricity with "through" pilot holes for accuracy and quick pilot removal. Designed for use where additional shank length is needed. Counter bores are normally supplied without radii - radii furnished on customer request.

TOOL NUMBER	D-Dia.	SHANK Dia.	L-Length	PILOT HOLE
MM278-1	3/16"	15/64"	3"	3/32"
MM278-2	7/32"	15/64"		
MM278-3	1/4"	15/64"		
MM278-4	9/32"	17/64"	3-13/16"	3/32"
MM278-5	5/16"	19/64"		
MM278-6	11/32"	5/16"		
MM278-7	3/8"	5/16"		
MM278-8	13/32"	5/16"		
MM278-9	7/16"	5/16"		
MM278-10	15/32"	7/16"	1/8"	
MM278-11	1/2"	7/16"		
MM278-12	17/32"	7/16"		
MM278-13	9/16"	7/16"	5-3/8"	1/4"
MM278-14	19/32"	1/2"		
MM278-15	5/8"	1/2"		
MM278-16	21/32"	1/2"		
MM278-17	11/16"	1/2"		
MM278-18	23/32"	1/2"		
MM278-19	3/4"	1/2"	3/16"	
MM278-20	25/32"	1/2"		

TOOL NUMBER	D-Dia.	SHANK Dia.	L-Length	PILOT HOLE
MM278-21	3/16"	1/2"	5-3/8"	3/16"
MM278-22	7/8"			
MM278-23	15/16"			
MM278-24	1"			
MM278-25	1-1/16"			
MM278-26	1-1/8"			
MM278-27	1-3/16"			
MM278-28	1-1/4"			
MM278-29	1-5/16"			
MM278-30	1-3/8"			
MM278-31	1-7/16"	1/2"	5-1/2"	1/4"
MM278-32	1-1/2"			
MM278-33	1-9/16"			
MM278-34	1-5/8"			
MM278-35	1-11/16"			
MM278-36	1-3/4"			
MM278-37	1-13/16"			
MM278-38	1-7/8"			
MM278-39	1-15/16"			
MM278-40	2"			

MM-277 COUNTERBORES

Martin MM277 Counter bores are for use in micro-stop countersinking units. WHEN ORDERING PLEASE SPECIFY RADIUS



TOOL NUMBER	D - DIA.	PILOT HOLE	THREAD	TOOL NUMBER	D - DIA.	PILOT HOLE	THREAD
MM277-1	1/4"	3/32"	1/4" X 28	MM277-13	5/8"	1/8"	1/4" X 28
MM277-2	9/32"	3/32"	1/4" X 28	MM277-14	21/32"	3/16"	3/8" X 24
MM277-3	5/16"	3/32"	1/4" X 28	MM277-15	11/16"	3/16"	3/8" X 24
MM277-4	11/32"	3/32"	1/4" X 28	MM277-16	23/32"	3/16"	3/8" X 24
MM277-5	3/8"	3/32"	1/4" X 28	MM277-17	3/4"	3/16"	3/8" X 24
MM277-6	13/32"	1/8"	1/4" X 28	MM277-18	23/32"	3/16"	3/8" X 24
MM277-7	7/16"	1/8"	1/4" X 28	MM277-19	13/16"	3/16"	3/8" X 24
MM277-8	15/32"	1/8"	1/4" X 28	MM277-20	27/32"	3/16"	3/8" X 24
MM277-9	1/2"	1/8"	1/4" X 28	MM277-21	7/8"	3/16"	3/8" X 24
MM277-10	17/32"	1/8"	1/4" X 28	MM277-22	29/32"	3/16"	3/8" X 24
MM277-11	9/16"	1/8"	1/4" X 28	MM277-23	15/16"	3/16"	3/8" X 24
MM277-12	19/32"	1/8"	1/4" X 28	MM277-24	31/32"	3/16"	3/8" X 24
				MM277-24	1"	3/16"	3/8" X 24

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