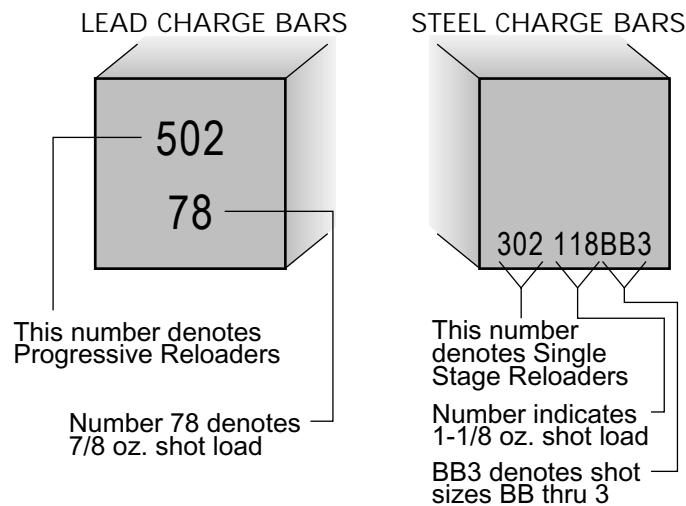


MEC CHARGE BARS

Bars bored for powder bushings are designated 502 series for progressive tools and 302 series for single stage tools. The number below either series indicates the amount of shot the bar will dispense. Example: A 302-118 is a single stage charge bar and will drop 1-1/8 oz. of shot. **POWDER HOLES ONLY** are bored to accept bushings. It is mandatory that your order for bars includes both the series number and weight of the shot charge. Powder bushings are selected by number from the bushing chart (see inside spread).

CAUTION: Lead Shot Bars and Steel Shot Bars are not interchangeable.



POWDER BUSHINGS ARE AVAILABLE FOR THE FOLLOWING CHARGE BARS

PROGRESSIVE STEEL SHOT BARS AVAILABLE

50207814	7/8 oz.	#1 thru #4 Shot
50207856	7/8 oz.	#5 thru #6 Shot
502100BB2	1 oz.	BB thru #2 Shot
50210036	1 oz.	#3 thru #6 Shot
502118BB3	1 1/8 oz.	BB thru #3 Shot
50211846	1 1/8 oz.	#4 thru #6 Shot
502114BB2	1 1/4 oz.	BB thru #2 Shot
50211436	1 1/4 oz.	#3 thru #6 Shot

Contact the factory for information regarding steel shot conversion for the hydraulic presses. Both 302 and 502 charge bars have a soft insert to prevent the shearing of shot. With this insert it is no longer necessary to use a grommet under the shot bottle. If the insert ever requires replacing, it is Part #8440.

MISCELLANEOUS LEAD SHOT BARS AVAILABLE

Bar Number	Oz. Shot	Bar Number	Oz. Shot
214	2 1/4	114	1 1/4
200	2	1316	1 3/16
178	1 7/8	118	1 1/8
134	1 3/4	100	1
158	1 5/8	78	7/8
112	1 1/2	34	3/4
138	1 3/8	1116	1 1/16
		58	5/8
		12	1/2

SINGLE STAGE STEEL SHOT BARS AVAILABLE

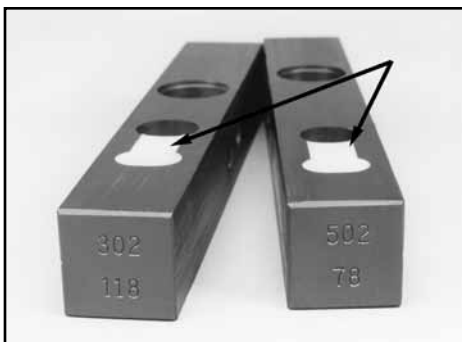
30207814	7/8 oz.	#1 thru #4 Shot
30207856	7/8 oz.	#5 thru #6 Shot
302100BB2	1 oz.	BB thru #2 Shot
30210036	1 oz.	#3 thru #6 Shot
302118BB3	1 1/8 oz.	BB thru #3 Shot
30211846	1 1/8 oz.	#4 thru #6 Shot
302114BB2	1 1/4 oz.	BB thru #2 Shot
30211436	1 1/4 oz.	#3 thru #6 Shot
302138BB2	1 3/8 oz.	BB thru #2 Shot
30213836	1 3/8 oz.	#3 thru #6 Shot
302112BB2	1 1/2 oz.	BB thru #2 Shot
30211236	1 1/2 oz.	#3 thru #6 Shot

SKEET SPECIAL

Single Stage Bar No.	Oz.	Progressive Bar No.	Oz.	Shell Size
302118SS	1 1/8	502118SS	1 1/8	12GA
30278SS	7/8	50278SS	7/8	20GA
30234SS	3/4	50234SS	3/4	28GA
30212SS	1/2	50212SS	1/2	410GA

Note To Skeet Shooters
 When using soft #9 shot with our standard bar, it is possible that your charge weight will exceed that which is allowed by the NSSA. By using our "SKEET SPECIAL" charge bar, you will stay within the limits set by the NSSA.

MEC charge bars with soft inserts help minimize shearing of shot.



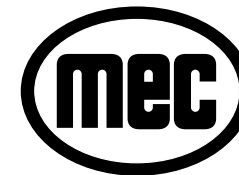
CHILLED SHOT CONVERSION TABLE

Weight Ounces	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/8
Weight Grains	219	273	328	383	438	492	547	602	656	711	766	820	875	930
Loads per Lb.	32	26	21	18	16	14	13	12	11	10	9	9	8	8
Size	Approximate No. of Pellets per load (lead shot only)													
BB	.18	25	21	38	44	50	56	63	69	75	81	88	94	100
2	.15	44	55	66	77	88	99	110	121	132	143	154	165	176
4	.13	68	85	102	119	136	153	170	187	204	221	238	255	272
5	.12	86	108	129	151	172	194	215	237	258	280	301	323	344
6	.11	112	139	167	195	223	251	279	307	335	362	390	418	446
7	.10	150	187	224	262	299	336	374	411	449	486	523	561	598
7 1/2	.095	173	216	259	302	345	388	431	474	518	561	604	647	690
8	.09	205	256	301	358	409	460	511	562	614	665	716	767	818
8 1/2	.085	240	300	360	420	480	540	600	660	720	780	840	900	960
9	.08	293	366	439	512	585	658	731	804	878	951	1024	1097	1170



MAYVILLE ENGINEERING CO., INC.
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POWDER BUSHING CHART

and Charge Bar Selection Information



This brochure is meant to supply you with the information needed to select the right bar and bushing insert to safely load the shotshell of your choice.

The MEC charge bar determines the amount of shot that will be dropped and the MEC bushing determines the amount of powder. The ratio for powder is determined by the recipe you select and the brand name powder you wish to use.

WARNING!

The use of an accurate scale is strongly recommended with the use of this powder bushing chart. Many things can cause a variation from the weight listed on the chart. They include but are not limited to:

- #1 Powder density. The manufacturers tolerance can cause a slight variation from the weight shown on the chart, and may even vary from lot to lot.
- #2 Individual operators give varying amounts of vibration to the machine causing the powder to pack. All loads should be checked during the actual reloading cycle. Do not just throw a powder charge and expect it to be the same as during the reloading cycle. Even the amount of powder in the reloader's bottle may cause a slight variance.
- #3 Powder exposed to the atmosphere can pick up moisture and weigh heavy.
- #4 The larger the flake size, the lighter the charge tends to be.
- #5 A machine that is not solidly mounted will usually not throw charges as uniform as one that is.
- #6 Single stage machines will usually throw heavier charges than progressive reloading machines.

The bushing chart does not represent recommended weights of charge. It is intended as a guide only to show the relationship of the volumetric capacity to the various bushings.

NOTE: Single stage machines will usually throw heavier charges than progressive reloading machines. For best accuracy of powder loads use an accurate scale.

SHOT SHELL POWDERS						WINCHESTER					ACCURATE					ALLIANT					RAMSHOT					IMR					HODGDON													
BUSHING #	SUPER HCP	WAA LITE	SUPER TARGET	296	SUPER FIELD	BUSHING #	ACCURATE NO. 5	ACCURATE NO. 2	SOLO 1250	BUSHING #	AMERICAN SELECT	RED DOT	GREEN DOT	HERCO	2400	BLUE DOT	UNIQUE	BULLSEYE	83	20/28	BUSHING #	410	BUSHING #	COMPETITION	800-X	700-X	PB	SR7625	SR4756	4227	BUSHING #	HS6	HS7	HT10	CLAYS	INTERNATIONAL CLAYS	UNIVERSAL CLAYS	LONGSHOT	TITTEWAD	BUSHING #	LIL GUN			
10	10.5	7.5	7.9	13.7	10.9	10	13.7	7.0	9.2	7.5	7.0	10	6.9	6.3	6.7	7.9	11.8	10.8	7.5	8.6	6.6	9.1	7	10.2	10	7.2	10	6.4	6.0	7.5	9.2	9.3	11.8	10	12.6	13.4	14.2	6.3	7.2	8.3	11.8	7.9	7	12.1
11	11.2	8.0	8.3	14.6	11.5	11	14.6	7.6	9.8	7.9	7.4	11	7.3	6.7	7.2	8.3	12.5	11.3	7.9	9.1	7.0	9.4	8	10.5	11	7.6	11	7.0	6.4	8.0	9.7	9.8	12.5	11	13.4	14.2	15.0	6.7	7.6	8.8	12.5	8.3	8	12.6
12	11.8	8.4	8.8	15.4	12.2	12	15.4	8.2	10.3	8.3	7.9	12	7.7	7.1	7.6	8.8	13.3	11.9	8.4	9.6	7.2	10.1	9	11.1	12	8.1	12	7.6	6.8	8.4	10.2	10.3	13.3	12	14.2	15.0	15.8	7.0	8.1	9.3	13.3	8.8	9	13.1
12A	12.5	9.1	9.3	16.3	12.9	12A	16.3	8.8	10.9	8.8	8.3	12A	8.2	7.5	8.0	9.3	14.0	12.5	8.9	10.1	7.5	10.8	10	11.7	12A	8.5	12A	8.0	7.2	8.8	10.7	10.8	14.0	12A	15.0	15.8	16.7	7.4	8.6	9.9	14.0	9.3	10	13.6
13	13.3	9.8	9.8	17.2	13.6	13	17.2	9.3	11.5	9.2	8.8	13	8.6	7.9	8.4	9.8	14.8	13.1	9.4	10.6	8.0	11.3	11	12.1	13	9.0	13	8.6	7.6	9.3	11.2	11.3	14.8	13	15.8	16.7	17.6	7.8	9.1	10.4	14.8	9.8	11	14.5
13A	14.0	10.2	10.4	18.1	14.3	13A	18.1	9.8	12.2	9.7	9.3	13A	9.1	8.3	8.9	10.4	15.6	13.7	9.9	11.2	8.3	11.9	12	13.0	13A	9.5	13A	9.2	8.0	9.8	11.8	11.9	15.6	13A	16.7	17.6	18.5	8.2	9.6	11.0	15.6	10.4	12	15.3
14	14.7	10.6	10.9	19.0	15.0	14	19.0	10.3	12.8	10.2	9.7	14	9.6	8.7	9.3	10.9	16.4	14.4	10.4	11.7	8.9	12.5	12A	13.6	14	10.0	14	9.8	8.4	10.3	12.3	12.4	16.4	14	17.6	18.5	19.5	8.6	10.1	11.6	16.4	10.9	12A	16.2
15	15.5	11.2	11.4	20.0	15.8	15	20.0	10.8	13.3	10.8	10.1	15	10.1	9.2	9.8	11.4	17.2	15.0	10.9	12.3	9.2	13.0	13	14.5	15	10.5	15	10.4	8.9	10.8	12.8	13.0	17.2	15	18.5	19.5	20.4	9.1	10.6	12.2	17.2	11.4	13	17.1
16	16.2	11.8	12.0	21.0	16.6	16	21.0	11.4	14.0	11.2	10.6	16	10.6	9.6	10.3	12.0	18.1	15.7	11.4	12.9	9.9	13.8	13A	15.1	16	11.0	16	11.0	9.5	11.3	13.6	13.7	18.1	16	19.5	20.4	21.4	9.5	11.1	12.9	18.1	12.0	13A	18.0
17	17.1	12.3	12.6	22.0	17.4	17	22.0	12.0	14.7	11.7	11.1	17	11.1	10.1	10.8	12.6	18.9	16.3	12.0	13.5	10.5	14.5	14	15.7	17	11.5	17	11.6	10.1	11.8	14.2	14.3	18.9	17	20.4	21.4	22.4	9.9	11.7	13.5	18.9	12.6	14	18.9
18	18.0	12.7	13.2	23.0	18.2	18	23.0	12.5	15.2	12.3	11.6	18	11.7	10.6	11.3	13.2	19.8	17.0	12.6	14.1	11.0	15.1	15	16.6	18	12.1	18	12.2	10.7	12.4	14.9	14.9	19.8	18	21.4	22.4	23.4	10.4	12.3	14.2	19.8	13.2	15	19.9
19	18.8	13.3	13.8	24.1	19.0	19	24.1	13.1	15.9	12.8	12.2	19	12.2	11.1	11.8	13.8	20.7	17.7	13.1	14.8	11.7	15.7	16	17.4	19	12.6	19	12.8	11.3	13.2	15.5	15.5	20.7	19	22.4	23.4	24.5	10.9	12.8	14.8	20.7	13.8	16	20.9
20	19.6	13.9	14.4	25.1	19.9	20	25.1	13.8	16.5	13.4	12.8	20	12.8	11.6	12.4	14.4	21.7	18.4	13.7	15.4	12.3	16.3	17	18.4	20	13.2	20	13.5	11.9	13.6	16.3	16.2	21.7	20	23.4	24.5	25.6	11.4	13.4	15.5	21.7	14.4	17	21.9
21	20.7	14.6	15.0	26.2	20.8	21	26.2	14.4	17.3	14.0	13.4	21	13.3	12.1	12.9	15.0	22.6	19.2	14.5	16.1	12.8	17.1	18	19.2	21	13.8	21	14.2	12.5	14.1	16.9	16.9	22.6	21	24.5	25.6	26.7	11.8	14.0	16.2	22.6	15.0	18	22.9
22	21.7	15.4	15.7	27.4	21.6	22	27.4	15.0	18.2	14.6	14.0	22	13.9	12.6	13.5	15.7	23.6	20.1	15.1	16.8	13.4	18.0	19	20.2	22	14.4	22	15.0	13.1	14.7	17.6	17.7	23.6	22	25.6	26.7	27.8	12.3	14.6	17.0	23.6	15.7	19	24.0
23	22.5	15.9	16.3	28.5	22.6	23	28.5	15.7	18.8	15.2	14.6	23	14.5	13.1	14.0	16.3	24.6	21.0	15.8	17.5	13.8	18.8	20	21.1	23	15.0	23	15.7	13.7	15.3	18.2	18.4	24.6	23	26.7	27.8	28.9	12.9	15.3	17.7	24.6	16.3	20	25.0
24	23.2	16.5	17.0	29.7	23.5	24	29.7	16.2	19.6	15.7	15.2	24	15.1	13.7	14.6	17.0	25.6	21.9	16.4	18.2	14.2	19.6	21	22.1	24	15.6	24	16.3	14.3	15.9	18.9	19.1	25.6	24	27.8	28.9	30.1	13.4	15.9	18.4	25.6	17.0	21	26.1
25	24.1	17.2	17.7	30.9	24.4	25	30.9	16.7	20.4	16.3	15.7	25	15.7	14.2	15.2	17.7	26.6	22.8	17.1	18.9	14.8	20.5	22	23.1	25	16.2	25	17.0	14.9	16.4	19.5	19.8	26.6	25	28.9	30.1	31.3	13.9	16.6	19.2	26.6	17.7	22	27.3
26	25.0	17.9	18.4	32.1	25.4	26	32.1	17.2	21.0	17.0	16.4	26	16.4	14.9	15.8	18.4	27.7	23.7	17.7	19.6	15.3	21.3	23	24.4	26	16.9	26	17.5	15.6	17.1	20.4	20.7	27.7	26	30.1	31.3	32.5	14.5	17.2	19.7	27.7	18.4	23	28.4
27	25.9	18.6	19.1	33.4	26.4	27	33.4	17.9	21.7	17.7	16.9	27	17.0	15.7	16.4	19.1	28.8	24.6	18.4	20.4	15.9	22.1	24	25.6	27	17.5	27	18.2	16.2	17.7	21.1	21.4	28.8	27	31.3	32.5	33.8	15.0	17.9	20.8	28.8	19.1	24	29.6
28	26.7	19.3	19.8	34.6	27.4	28	34.6	18.6	23.1	18.3	17.8	28	17.7	16.4	17.0	19.8	29.9	25.5	19.1	21.2	16.4	23.0	25	26.1	28	18.2	28	18.8	16.9	18.4	21.9	22.1	29.9	28	32.5	33.8	35.0	15.6	18.6	21.6	29.9	19.8	25	30.8
29	27.8	20.0	20.6	35.9	28.4	29	35.9	19.3	23.8	19.0	18.3	29	18.3	17.1	17.7	20.6	31.0	26.4	19.8	21.9	16.9	23.8	26	26.9	29	18.9	29	19.4	17.5	19.1	22.6	22.8	31.0	29	33.8	35.0	36.3	16.2	19.3	22.4	31.0	20.6	26	32.0
30	28.8	20.7	21.3	37.3	29.5	30	37.3	20.0	24.7	19.8	19.1	30	19.0	17.8	18.3	21.3	32.1	27.3	20.5	22.8	17.4	24.5	27	28.0	30	19.6	30	20.2	18.2	19.8	23.5	23.7	32.1	30	35.0	36.3	37.6	16.7	20.0	23.3	32.1	21.3	27	33.3
31	30.0	21.4	22.1	38.6	30.5	31	38.6	20.7	25.6	20.6	19.7	31	19.7	18.5	19.0	22.1	33.3	28.2	21.1	23.7	17.9	25.4	28	29.5	31	20.3	31	20.9	18.9	20.5	24.3	24.5	33.3	31	36.3	37.6	38.9	17.3	20.8	24.1	33.3	22.1	28	34.5
32	31.2	22.1	22.9	40.0	31.6	32	40.0	21.5	26.4	21.3	20.6	32	20.4	19.2	19.6	22.9	34.5	29.1	21.7	24.6	18.5	26.3	29	30.3	32	21.0	32	21.6	19.9	21.3	25.4	25.6	34.5	32	37.6	38.9	40.3	17.9	21.5	25.0	34.5	22.9	29	35.8
33	31.9	22.7	23.7	41.4	32.7	33	41.4	22.2	27.5	21.8	21.2	33	21.1	19.9	20.3	23.7	35.7	30.5	22.5	25.5	19.5	26.8	30	31.4	33	21.7	33	22.3	20.3	21.9	26.2	26.4	35.7	33	38.9	40.3	41.7	18.6	22.3	25.9	35.7	23.7	30	37.2
34	32.6	23.3	24.5	42.8	33.8	34	42.8	22.9	28.5	22.5	22.0	34	21.8	20.6	21.0	24.5	36.9	31.6	23.2	26.4	20.5	27.6	31	32.4	34	22.5	34	23.1	21.0	22.7	27.1	27.3	36.9	34	40.3	41.7	43.1	19.2	23.0	26.8	36.9	24.5	31	38.5
35	33.9	24.3	25.3	44.2	35.0	35	44.2	23.8	29.3	23.2	22.7	35	22.6	21.3	21.7	25.3	38.1	32.7	24.0	27.3	21.0	28.8	32	33.6	35	23.2	35	24.0	21.8	23.4	28.0	28.1	38.1	35	41.7	43.1	44.5	19.8	23.8	27.7	38.1	25.3	32	39.9
36	35.2	25.4	26.2	45.7	36.1	36	45.7	24.5	30.2	24.0	23.5	36	23.3	21.9	22.4	26.2	39.4	33.8	24.8	28.2	21.8	29.9	33	34.7	36	24.0	36	24.8	22.5	24.2	29.0	29.2	39.4	36	43.1	44.5	45.9	20.5	24.6	28.6	39.4	26.2	33	41.3
37	36.7	26.3	27.0	47.1	37.3	37	47.1	25.3	31.4	24.8	24.2	37	24.1	22.7	23.2	27.0	40.7	35.0	25.6	29.1	22.3	31.2	34	35.9	37	24.8	37	25.7	23.3	25.0	29.8	30.1	40.7	37	44.5	45.9	47.4	21.1	25.4	29.6	40.7	27.0	34	42.7
38	38.3	27.3																																										