

SHOTSHELL PRESSES

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.



SHOTSHELL POWDERS				WINCHESTER				ADCO				VIHTAVUORI OY				RAMSHOT				ALLIANT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
BUSHING #		SUPER TARGET		SUPER FIELD		NOBLE SPORT AD		NOBLE SPORT A1		AS 24		BUSHING #		3N5L		3N5M		3N5H		BUSHING #		COMPETITION		BUSHING #		AMERICAN SELECT		RED DOT		GREEN DOT		HERCO		2400		BLUE DOT		UNIQUE		BULLSEYE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
10	7.9	13.7	10.9	10	6.4	7.8	6.9	6.7	10	8.7	7.5	7.9	10	7.2	10	6.8	6.3	6.7	7.9	11.8	10.8	7.5	8.6	11	8.3	14.6	11.5	11	6.8	8.2	7.3	7.1	11	7.2	7.9	8.3	11	7.6	11	7.3	6.7	7.2	8.3	12.5	11.3	7.9	8.1	12	8.8	15.4	12.2	12	7.2	8.7	7.7	7.5	12	7.6	8.4	8.8	12	8.1	12	7.7	7.1	7.6	8.8	13.3	11.9	8.4	9.6	12A	9.3	16.3	12.9	12A	7.6	9.2	8.2	7.9	12A	8.0	8.9	9.3	12A	8.5	12A	8.2	7.5	8.0	9.3	14.0	12.5	8.9	10.1	13	9.9	17.2	13.6	13	9.0	9.7	8.6	8.3	13	8.4	9.4	9.8	13	9.0	13	8.6	7.9	8.4	9.8	14.8	13.1	9.4	10.6	13A	10.4	18.1	14.3	13A	8.5	10.2	9.1	8.8	13A	8.9	9.9	10.4	13A	9.5	13A	9.1	8.3	8.9	10.4	15.6	13.7	9.9	11.2	14	10.9	19.0	15.0	14	8.9	10.7	9.6	9.2	14	9.3	10.4	10.9	14	10.0	14	9.6	8.7	9.3	10.9	16.4	14.4	10.4	11.7	15	11.4	20.0	15.8	15	8.3	11.2	10.1	9.6	15	9.8	10.9	11.4	15	10.5	15	10.1	9.2	9.8	11.4	17.2	15.0	10.9	12.3	16	12.0	21.0	16.6	16	9.8	11.7	10.5	10.1	16	10.3	11.4	12.0	16	11.0	16	10.6	9.6	10.3	12.0	18.1	15.7	11.4	12.9	17	12.6	22.0	17.4	17	10.3	12.3	11.1	10.6	17	10.8	12.0	12.6	17	11.5	17	11.1	10.1	10.8	12.6	18.8	16.3	12.0	13.5	18	13.2	23.0	18.2	18	10.8	12.9	11.7	11.1	18	11.3	12.6	13.2	18	12.1	18	11.7	10.6	11.3	13.2	19.8	17.0	12.6	14.1	19	13.9	24.1	19.0	19	11.3	13.4	12.2	11.6	19	11.8	13.1	13.8	19	12.8	19	12.2	11.1	11.8	13.8	20.7	17.7	13.1	14.8	20	14.4	25.1	19.9	20	11.8	14.0	12.8	12.1	20	12.4	13.7	14.4	20	13.2	20	12.8	11.6	12.4	14.4	21.7	18.4	13.7	15.4	21	15.0	26.2	20.8	21	12.3	14.8	13.3	12.6	21	12.9	14.3	15.0	21	13.8	21	13.3	12.1	12.9	15.0	22.6	19.2	14.5	16.1	22	15.7	27.4	21.6	22	12.8	15.4	13.9	13.1	22	13.5	14.9	15.7	22	14.4	22	13.9	12.6	13.5	15.7	23.6	20.1	15.1	16.8	23	16.3	28.5	22.6	23	13.3	16.1	14.5	13.6	23	14.0	15.6	16.3	23	15.0	23	14.5	13.1	14.0	16.3	24.6	21.0	15.8	17.5	24	17.0	29.7	23.6	24	13.9	16.7	15.1	14.2	24	14.6	16.2	17.0	24	16.6	24	15.1	13.7	14.6	17.0	25.6	21.9	16.4	18.2	25	17.7	30.9	24.4	25	14.5	17.4	15.7	14.8	25	15.2	16.9	17.7	25	16.2	25	15.7	14.2	15.2	17.7	26.6	22.8	17.1	18.9	26	18.4	32.1	25.4	26	15.0	18.0	16.4	15.3	26	15.8	17.5	18.4	26	16.8	26	16.4	14.9	15.8	18.4	27.7	23.7	17.7	19.6	27	19.1	33.4	26.4	27	15.6	18.7	17.0	15.9	27	16.4	18.2	19.1	27	17.5	27	17.0	15.7	16.4	19.1	28.8	24.6	18.4	20.4	28	19.8	34.6	27.4	28	16.2	19.4	17.7	16.5	28	17.0	18.9	19.8	28	18.2	28	17.7	16.4	17.0	19.8	29.9	25.5	19.7	21.2	29	20.6	35.9	28.4	29	16.8	20.1	18.3	17.1	29	17.7	19.6	20.6	29	18.9	29	18.3	17.1	17.7	20.6	31.0	26.4	19.8	21.9	30	21.3	37.3	29.5	30	17.4	20.8	19.0	17.7	30	18.3	20.3	21.3	30	19.6	30	19.0	17.8	18.3	21.3	32.1	27.3	20.5	22.8	31	22.1	38.6	30.5	31	18.1	21.4	19.7	18.4	31	19.0	21.1	22.1	31	20.3	31	19.7	18.5	19.0	22.1	33.3	28.2	21.1	23.7	32	22.9	40.0	31.6	32	18.7	22.0	20.4	19.0	32	19.6	21.8	22.9	32	21.0	32	20.4	19.2	19.6	22.9	34.5	29.1	21.7	24.6	33	23.7	41.4	32.7	33	19.3	22.8	21.1	19.6	33	20.3	22.6	23.7	33	21.7	33	21.1	19.9	20.3	23.7	35.7	30.5	22.5	25.5	34	24.5	42.8	33.8	34	20.0	23.5	21.8	20.3	34	21.0	23.3	24.5	34	22.5	34	21.8	20.6	21.0	24.5	36.9	31.6	23.2	26.4	35	25.3	44.2	35.0	35	20.7	24.3	22.6	21.0	35	21.7	24.1	25.3	35	23.2	35	22.6	21.3	21.7	25.3	38.1	32.7	24.0	27.3	36	26.2	45.7	36.1	36	21.4	25.1	23.3	21.7	36	22.4	24.9	26.2	36	24.0	36	23.3	21.9	22.4	26.2	39.4	33.0	24.8	28.2	37	27.0	47.1	37.3	37	22.1	25.9	24.1	22.4	37	23.2	25.7	27.0	37	24.8	37	24.1	22.7	23.2	27.0	40.7	35.0	25.6	29.1	38	27.9	48.7	38.5	38	22.8	26.8	24.9	23.1	38	23.9	26.6	27.8	38	25.6	38	24.9	23.3	23.9	27.9	42.0	36.1	26.5	30.1	38A	28.8	50.2	39.7	38A	23.5	27.6	25.7	23.8	38A	24.7	27.4	28.8	38A	26.4	38A	25.7	24.1	24.7	28.0	43.3	37.3	27.3	31.0	39	29.7	51.7	40.9	39	24.2	28.5	26.5	24.5	39	25.4	28.3	29.7	39	27.2	39	26.5	24.7	25.4	29.7	44.6	38.5	28.2	31.9	39A	30.6	53.3	42.2	39A	24.9	29.3	27.3	25.2	39A	26.2	29.1	30.6	39A	28.0	39A	27.3	25.2	26.2	30.6	46.0	39.7	29.0	32.8	40	31.5	54.9	43.4	40	25.7	30.2	28.1	26.0	40	27.0	30.0	31.5	40	28.8	40	28.1	25.9	27.0	31.5	47.4	40.9	29.9	33.7	40A	32.4	56.6	44.7	40A	26.5	31.1	28.9	26.8	40A	27.8	30.9	32.4	40A	29.7	40A	28.9	26.6	27.8	32.4	48.8	42.2	30.8	34.7	41	33.4	58.2	46.0	41	27.2	32.0	29.8	27.5	41	28.6	31.8	33.4	41	30.6	41	29.8	27.3	28.6	33.4	50.2	43.4	31.7	35.7	41A	34.3	59.9	47.4	41A	28.0	32.9	30.7	28.3	41A	29.4	32.7	34.3	41A	31.5	41A	30.7	27.9	29.4	34.3	51.6	44.7	32.6	35.9	42	35.3	61.6	48.7	42	28.3	33.8	31.6	29.1	42	30.3	33.6	35.3	42	32.4	42	31.5	28.4	30.3	35.3	53.1	46.0	33.5	38.1	42A	36.3	63.3	50.1	42A	29.6	34.8	32.4	29.9	42A	31.1	34.6	36.3	42A	33.3	42A	32.4	29.3	31.1	36.3	54.8	47.4	34.5	39.4	43	37.3	65.0	51.5	43	30.4	35.7	33.3	30.7	43	32.0	35.5	37.3	43	34.2	43	33.3	29.9	32.0	37.3	56.1	48.7	35.4	40.7	43A	38.3	66.8	52.9	43A	31.3	36.7	34.2	31.6	43A	32.8	36.5	38.3	43A	35.1	43A	34.2	30.8	32.8	38.3	57.5	50.1	36.4	42.0	44	39.3	68.6	54.3	44	32.1	37.7	35.5	32.4	44	33.7	37.5	39.3	44	36.1	44	36.2	31.5	33.7	39.3	59.2	51.5	37.4	43.3	44A	40.4	70.4	55.7	44A	32.9	38.7	36.4	33.2	44A	34.6	38.5	40.4	44A	37.0	44A	36.4	32.1	34.6	40.4	60.7	52.9	38.4	44.6	45	41.4	72.3	57.2	45	33.8	39.7	37.0	34.1	45	35.5	39.5	41.4	45	38.0	45	37.0	32.7	35.5	41.4	62.3	54.3	39.4	45.0	45A	42.5	74.1	58.6	45A	34.7	40.7	38.0	35.0	45A	36.4	40.5	42.5	45A	39.0	45A	36.0	33.4	36.4	42.5	63.9	55.7	40.4	47.4	46	43.6	76.0	60.1	46	35.6	41.7	39.0	35.9	46	37.4	41.5	43.6	46	39.9	46	38.0	34.1	37.4	43.6	65.6	57.2	41.4	48.8

HANDLOADER GUIDES FURNISHED FROM:

Alliant Techsystems
Route 114 & P.O. Box 8
Radford, VA 24141-0096
(800) 276-9337

Hodgdon Powder Co., Inc.
6231 Robinson Street
Shawnee Mission, KS 66202
(913) 362-9455

IMR Powder Co.
1060 Military Turnpike
Suite 2
Plattsburgh, NY 12901

Winchester Group
Olin Corporation
427 N. Shamrock
East Alton, IL 62024-1174
(618) 258-3585

Adco
4 Draper Street
Woburn, MA 01801
(781) 935-1799

Ramshot
Western Powders
P.O. Box 158 & Yellow Stone Hill
Miles City, MT 59301
(406) 232-0422

Accurate Arms
Box 167
5891 Hwy. 230 W.
McEwen, TN 37101
(800) 416-3006

Vihtavuori Oy
Kältra
1241 Ellis Street
Bensenville, IL 60106
(800) 683-0464

SHOTSHELL RELOADING TOOLS AND EQUIPMENT

SHOTSHELL PRESSES



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

ACCURATE					IMR					HODGDON												
ACCURATE NO. 5	SCOT 80/LO 1082	ACCURATE NO. 2 188P	SCOT NITRO 109	SCOT 80/LO 1280	BUSHING #	R70X	700X	PG	7025	4756	4227	BUSHING #	H58	H57	H110	CLAYS	INTERNATIONAL CLAYS	UNIVERSAL CLAYS	LONGSHOT	TITENAD	BUSHING #	LIL GUN
13.7	6.4	9.4	7.1	7.2	10	6.8	7.1	7.2	8.2	8.3	11.8	10	12.6	13.4	14.2	6.3	7.2	8.3	11.8	7.9	7	12.1
14.6	5.8	10.0	7.5	7.6	11	9.3	7.5	7.6	8.7	8.8	12.5	11	13.4	14.2	15.0	6.7	7.6	8.8	12.5	8.3	8	12.6
15.4	7.2	10.5	7.9	8.1	12	9.6	7.9	8.1	9.2	9.3	13.5	12	14.2	15.0	15.8	7.0	8.1	9.3	13.5	8.8	9	13.1
16.3	7.6	11.1	8.4	8.5	12A	10.4	8.4	8.5	9.7	9.8	14.0	12A	15.0	15.8	16.7	7.4	8.5	9.9	14.0	9.3	10	13.6
17.2	8.0	11.7	8.8	9.0	13	10.8	8.8	9.0	10.2	10.3	14.8	13	15.8	16.7	17.6	7.8	9.1	10.4	14.8	9.8	11	14.5
18.1	8.5	12.3	9.3	9.5	13A	11.5	9.3	9.5	10.8	10.9	15.6	13A	16.7	17.6	18.5	8.2	9.6	11.0	15.6	10.4	12	15.3
19.0	8.9	12.9	9.8	10.0	14	12.1	9.8	10.0	11.3	11.4	16.4	14	17.6	18.5	19.5	8.6	10.1	11.6	16.4	10.9	12A	16.2
20.0	9.3	13.5	10.3	10.5	15	12.7	10.3	10.5	11.9	12.0	17.2	15	18.5	19.5	20.4	9.1	10.6	12.2	17.2	11.4	13	17.1
21.0	9.8	14.2	10.8	11.0	16	13.4	10.8	11.0	12.5	12.6	18.1	16	19.5	20.4	21.4	9.5	11.1	12.9	18.1	12.0	13A	18.0
22.0	10.3	14.9	11.3	11.5	17	14.0	11.3	11.5	13.1	13.2	18.9	17	20.4	21.4	22.4	9.9	11.7	13.5	18.9	12.6	14	18.9
23.0	10.8	15.6	11.9	12.1	18	14.7	11.9	12.1	13.7	13.8	19.8	18	21.4	22.4	23.4	10.4	12.3	14.2	19.8	13.2	15	19.8
24.1	11.3	16.3	12.4	12.6	19	15.3	12.4	12.6	14.4	14.5	20.7	19	22.4	23.4	24.5	10.9	12.8	14.8	20.7	13.8	16	20.9
25.1	11.8	17.0	13.0	13.2	20	16.0	13.0	13.2	15.0	15.1	21.7	20	23.4	24.5	25.6	11.4	13.4	15.5	21.7	14.4	17	21.9
26.2	12.3	17.7	13.5	13.8	21	16.7	13.5	13.8	15.7	15.8	22.6	21	24.5	25.6	26.7	11.8	14.0	16.2	22.6	15.0	18	22.9
27.4	12.8	18.5	14.1	14.4	22	17.5	14.1	14.4	16.3	16.5	23.6	22	25.6	26.7	27.8	12.3	14.6	17.0	23.6	15.7	19	24.0
28.5	13.3	19.2	14.7	15.0	23	18.2	14.7	15.0	17.0	17.2	24.8	23	26.7	27.8	28.9	12.9	15.3	17.7	24.8	16.3	20	25.0
29.7	13.9	20.0	15.3	15.6	24	18.9	15.3	15.6	17.7	17.9	25.6	24	27.8	28.9	30.1	13.4	15.9	18.4	25.6	17.0	21	25.1
30.9	14.5	20.8	15.9	16.2	25	19.7	15.9	16.2	18.4	18.6	26.6	25	28.9	30.1	31.3	13.9	16.6	19.2	26.6	17.7	22	27.3
32.1	15.0	21.6	16.6	16.9	26	20.5	16.6	16.9	19.2	19.3	27.7	26	30.1	31.3	32.5	14.5	17.2	19.7	27.7	18.4	23	28.4
33.4	15.6	22.4	17.2	17.5	27	21.3	17.2	17.5	19.9	20.1	28.8	27	31.3	32.5	33.8	15.0	17.9	20.8	28.8	19.1	24	29.6
34.6	16.2	23.3	17.9	18.2	28	22.1	17.9	18.2	20.7	20.9	29.9	28	32.5	33.8	35.0	15.6	18.6	21.0	29.9	19.8	25	30.8
35.9	16.8	24.1	18.5	18.9	29	22.9	18.5	18.9	21.4	21.6	31.0	29	33.8	35.0	36.3	16.2	19.3	22.4	31.0	20.6	26	32.0
37.3	17.4	25.0	19.2	19.6	30	23.8	19.2	19.6	22.2	22.4	32.1	30	35.0	36.3	37.6	16.7	20.0	23.5	32.1	21.3	27	33.3
38.6	18.1	25.9	19.9	20.3	31	24.6	19.9	20.3	23.0	23.2	33.3	31	36.3	37.6	38.9	17.3	20.8	24.1	33.3	22.1	28	34.5
40.0	18.7	26.8	20.6	21.0	32	25.5	20.6	21.0	23.9	24.1	34.5	32	37.6	38.9	40.3	17.9	21.6	25.0	34.5	22.9	29	35.8
41.4	19.3	27.7	21.3	21.7	33	26.4	21.3	21.7	24.7	24.9	35.7	33	38.9	40.3	41.7	18.6	22.3	25.9	35.7	23.7	30	37.2
42.8	20.0	28.7	22.0	22.5	34	27.3	22.0	22.5	25.5	25.7	36.9	34	40.3	41.7	43.1	19.2	23.0	26.8	36.9	24.5	31	38.5
44.2	20.7	29.6	22.8	23.2	35	28.2	22.8	23.2	26.4	26.6	38.1	35	41.7	43.1	44.5	19.8	23.8	27.7	38.1	25.3	32	39.9
45.7	21.4	30.6	23.5	24.0	36	29.1	23.5	24.0	27.3	27.5	39.4	36	43.1	44.5	45.9	20.5	24.6	28.6	39.4	26.2	33	41.3
47.1	22.1	31.6	24.3	24.8	37	30.1	24.3	24.8	28.1	28.4	40.7	37	44.5	45.9	47.4	21.1	25.4	29.6	40.7	27.0	34	42.7
48.7	22.8	32.6	25.1	25.6	38	31.0	25.1	25.6	29.0	29.3	42.0	38	45.9	47.4	48.9	21.8	26.3	30.6	42.0	27.9	35	44.1
50.2	23.5	33.6	25.9	26.4	38A	32.0	25.9	26.4	30.0	30.2	43.3	38A	47.4	48.9	50.4	22.5	27.1	31.5	43.3	28.8	36	45.6
51.7	24.2	34.6	26.7	27.2	39	33.0	26.7	27.2	30.9	31.2	44.6	39	48.9	50.4	52.0	23.2	28.0	32.5	44.6	29.7	37	47.0
53.3	24.9	35.7	27.5	28.0	39A	34.0	27.5	28.0	31.8	32.1	46.0	39A	50.4	52.0	53.5	23.9	28.8	33.5	46.0	30.6	38	48.6
54.9	25.7	36.7	28.3	28.9	40	35.0	28.3	28.9	32.8	33.1	47.4	40	52.0	53.5	55.1	24.6	29.7	34.5	47.4	31.5	38A	50.1
55.6	26.5	37.8	29.1	29.7	40A	36.1	29.1	29.7	33.8	34.1	48.8	40A	53.5	55.1	56.7	25.3	30.6	35.4	48.8	32.4	39	51.6
56.2	27.2	38.9	30.0	30.6	41	37.1	30.0	30.6	34.7	35.0	50.2	41	55.1	56.7	58.4	26.0	31.5	36.6	50.2	33.4	39A	53.2
59.9	28.0	40.0	30.9	31.5	41A	38.2	30.9	31.5	35.7	36.1	51.6	41A	56.7	58.4	60.0	26.8	32.4	37.7	51.6	34.3	40	54.8
61.6	28.8	41.2	31.7	32.4	42	39.3	31.7	32.4	36.8	37.1	53.1	42	58.4	60.0	61.7	27.5	33.3	38.8	53.1	35.3	40A	56.5
63.3	29.6	42.3	32.6	33.3	42A	40.4	32.6	33.3	37.8	38.1	54.6	42A	60.0	61.7	63.4	28.3	34.3	39.9	54.6	36.3	41	58.1
65.0	30.4	43.5	33.5	34.2	43	41.5	33.5	34.2	38.8	39.2	56.1	43	61.7	63.4	65.1	29.1	35.2	41.0	56.1	37.3	41A	59.8
66.8	31.3	44.6	34.4	35.1	43A	42.6	34.4	35.1	39.9	40.2	57.6	43A	63.4	65.1	66.9	29.9	36.2	42.1	57.6	38.3	42	61.5
68.6	32.1	45.8	35.4	36.1	44	43.7	35.4	36.1	41.0	41.3	59.2	44	65.1	66.9	68.6	30.7	37.2	43.2	59.2	39.3	42A	63.2
70.4	32.9	47.0	36.6	37.0	44A	44.9	36.6	37.0	42.0	42.4	60.7	44A	66.9	68.6	70.4	31.5	38.2	44.4	60.7	40.4	43	64.9
72.3	33.8	48.2	37.2	38.0	45	46.1	37.2	38.0	43.1	43.5	62.3	45	68.6	70.4	72.3	32.3	39.2	45.6	62.3	41.4	43A	66.7
74.1	34.7	49.5	38.2	39.0	45A	47.3	38.2	39.0	44.2	44.6	63.9	45A	70.4	72.3	74.1	33.1	40.2	46.8	63.9	42.5	44	68.5
76.0	35.6	50.7	39.2	39.9	46	48.5	39.2	39.9	45.4	45.8	65.6	46	72.3	74.1	75.1	33.9	41.2	48.0	65.6	43.6	44A	70.3

NOTE: Amount of powder thrown by bushings was calculated using single stage reloaders. Progressive reloaders tend to throw a lesser amount. Please verify by using an accurate scale.

Compatible Components:

Primers, acids, powder charge and weight of the shot charge must be in accordance with manufacturer's specifications. Handloader guides are available from component manufacturers or possibly from your source of reloading components. We recommend that you use the data listed in this handloader guide. Because we have no control over the type, quality or quantity of components used, we assume no responsibility relative to your reloading or finished shells.

POWDER CONVERSION TABLE

GRAINS	LOADS	GRAINS	LOADS	GRAINS	LOADS	GRAINS	LOADS	GRAINS	LOADS	GRAINS	LOADS
PER LOAD	PER POUND	PER LOAD	PER POUND	PER LOAD	PER POUND	PER LOAD	PER POUND	PER LOAD	PER POUND	PER LOAD	PER POUND
12	561	16	368	24	261	30	235	36	194	42	165
13	518	16	368	25	280	31	225	37	185	43	162
14	500	20	300	26	269	32	216	38	184		
15	466	21	333	27	259	33	212	39	175		
16	437	22	318	28	250	34	206	40	170		
17	411	23	304	29	241	35	199	41	170		



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