

Drag Functions from Exterior Ballistics 4.0

Drag function	Bullet Weight (g)	Bullet Weight (gr)	Description
PIS files			
22LR.drg	2,55	39,4	.22 LR lead RN (not for velocities over 1 Mach) (twist 16 in)
22LRTHUN.drg	2,55	39,4	.22 LR lead RN (for velocities up to 540 m/s) (twist 16 in)
22LRBKA.drg	2,59	40,0	.22 LR RWS R50 lead RN (for velocity range 230 - 425 m/s) (twist 16 in)
22LRHP.drg	2,55	39,4	.22 LR RWS HP (for velocity range 230 - 400 m/s) (twist 16 in)
22HIVEL	2,59	40,0	.22 LR Winchester (drag from various rounds) (twist 16 in)
22SHORT.drg	1,83	28,2	.22 Short RWS lead RN (for velocities up to 370 m/s) (twist 16 in)
RWSR50.drg	2,57	39,7	.22 LR RWS R50 lead RN (for velocity range 0.8 - 1 Mach) (twist 16 in)
ELEY22.drg	2,59	40,0	.22 LR Eley Tenex lead RN (for velocity range 0.78 - 1.05 Mach) (twist 16 in)
ULTRA22.drg	2,59	40,0	.22 LR Bonsall Ultra Match lead RN (for velocity range 0.78 - 1.05 Mach) (twist 16 in)
32ACP.drg	4,8	74,1	.32 ACP FMJ RN (twist 10 in)
32ACPTN.drg	4,7	72,5	.32 ACP Thun FMJ RN (twist 10 in)
765PARA.drg	6	92,6	7.65 mm Parabellum FMJ RN (twist 10 in)
32ACPTHV.drg	1,6	24,7	.32 ACP SFM solid brass negative ogive (twist 10 in)
9SHORT.drg	6,5	100,3	9 mm Browning Short FMJ RN (twist 250 mm)
9LUGTHV.drg	2,9	44,8	9 mm Luger SFM Solid Brass Negative Ogive (twist 250 mm)
9LUG7G.drg	7	108,0	9 mm Luger Norma FMJ RN (twist 250 mm)
9LUGTHUN.drg	8	123,5	9 mm Luger Thun FMJ RN (twist 250 mm)
9LUGBRL.drg	7,48	115,4	9 mm Luger Remington FMJ RN (twist 250 mm)
9LUGFMJ.drg	8	123,5	9 mm Luger RWS FMJ RN (twist 250 mm)
9LUGST.drg	7,43	114,7	9 mm Luger Winchester Silver Tip FMJ HP (twist 250 mm)
9LUGTRAC	7,67	118,4	9 mm Luger RWS FMJ tracer (twist 250 mm)
9LUGFP.drg	8,05	124,2	9 mm Luger Federal FMJ trunc. cone (twist 250 mm)
9LUGTMFK.drg	6,52	100,6	9 mm Luger Hirtenberger SP trunc. cone (twist 250 mm)
9LUGLSHP	7,05	108,8	9 mm Luger Hirtenberger FMJ tracer (twist 250 mm)
9LUGHP.drg	7,42	114,5	9 mm Luger Remington JHP FP (twist 250 mm)
9LUGACT1.drg	5,35	82,6	9 mm Luger RWS HP Action 1 (twist 250 mm)
9LUGACT3.drg	5,87	90,6	9 mm Luger RWS HP Action 3 (twist 250 mm)
9LUGFP2.drg	8	123,5	9 mm Luger Thun FMJ FP (twist 250 mm)
45FMJRN.drg	14,9	229,9	45 Auto FMJ RN (standard bullet for 1911A1) (twist 16 in)
45FMJFP.drg	14,9	229,9	45 Auto FMJ FP (twist 16 in)
45FMJHP.drg	12,02	185,5	45 Auto Remington FMJ HP trunc. cone (twist 16 in)
45FMJSWC.drg	11,97	184,7	45 Auto Remington FMJ SWC trunc. cone (twist 16 in)
REV files			
38SPLRN.drg	10,24	158,0	38 Special Lead RN (twist 476 mm)
38SPLSWC.drg	10,24	158,0	38 Special Lead SWC (twist 476 mm)
38SPLFP.drg	10,24	158,0	38 Special FP (twist 476 mm)
38SPLTHV.drg	2,72	42,0	38 Special SFM solid brass negative ogive (twist 476 mm)
38SJFP.drg	10,25	158,2	38 Special / 357 Magnum RWS SP trunc. cone (twist 476 mm)
38PBRK	10,18	157,1	38 Special RWS Lead Rn (twist 476 mm)
38VMSK.drg	10,24	158,0	38 Special / 357 Magnum RWS FMJ Cone (twist 476 mm)
357TMHKF.drg	10,23	157,9	357 Magnum Norma SP HP trunc. cone (twist 476 mm)
38WC.drg	9,58	147,8	38 Special Hintenberger Lead WC
44MAGJHP.drg	15,55	240,0	44 Remington Magnum JHP FP (twist 20 in)
MIL files			
BALL432.drg	1,782	27,5	4.32 mm FMJ flat ogive + boattail (twist 8 in)
M74.drg	3,44	53,1	5.45x39 M74 FMJ ogive + boattail (twist 196 mm)
AK74.drg	3,44	53,1	5.45x39 M74 AK74 FMJ ogive + boattail (twist 196 mm)
SS109DK.drg	4,03	62,2	5.56x45 SS109 (?) FN FMJ ogive + boattail (twist 7 in)
SS109.drg	4,03	62,2	5.56x45 SS109 FN FMJ ogive + boattail (Source: McCoy) (twist 7 in)
SS109BW.drg	4	61,7	5.56x45 SS109 FMJ ogive + boattail (Source: Bundeswehr) (twist 7 in)
SS92.drg	3,58	55,2	5.56x45 SS92 / M193 FN FMJ ogive + boattail (twist 7 in)
M193.drg	3,58	55,2	5.56x45 M193 FMJ ogive + boattail (twist 12 in)
223SWED.drg	4	61,7	5.56x45 Sweden FMJ
M855.drg	4,19	64,7	5.56x45 LCAAP XM855E1 FMJ ogive + boattail (twist 7 in)
M856.drg	4,19	64,7	5.56x45 LCAAP XM856E1 FMJ tracer ogive + boattail (twist 7 in)
REM223.drg	3,58	55,2	5.56x45 Remington FMJ ogive + boattail (twist 12 in)
IWK.drg	5,005	77,2	5.56x45 IWK FMJ ogive (twist 9 in)
0467.drg	7,86	121,3	7.62x39 GDR FMJ hard core ogive (twist 235 mm)
VPT81.drg	7,99	123,3	7.62x39 Lapua FMJ ogive (twist 235 mm)
M43UEB.drg	4,02	62,0	7.62x39 DDR FMJ RN training plastic core (twist 235 mm)
M43UEBLS.drg	4,67	72,1	7.62x39 FMJ RN training plastic core tracer (twist 235 mm)
AK47DK.drg	7,991	123,3	7.62x39 USSR FMJ ogive (twist 240 mm)
M43.drg	7,991	123,3	7.62x39 FMJ steel core ogive + boattail (twist 240 mm)
BXN91.drg	7,55	116,5	7.62x39 S&B FMJ tracer ogive (twist 240 mm)
CONE70.drg	4,68	72,2	308 cone (twist 8 in)
DUPLEXR.drg	5,43	83,8	7.62x51 Solid trunc. ogive rear bullet (twist 12 in)
DUPLEXF.drg	5,49	84,7	7.62x51 Solid trunc. ogive front bullet (twist 12 in)
M80.drg	9,446	145,8	7.62x51 FMJ ogive + boattail (twist 313 mm)
M59.drg	9,627	148,6	7.62x51 FMJ ogive + boattail (twist 12 in)
M61.drg	9,552	147,4	7.62x51 FMJ AP ogive + boattail (twist 12 in)
M62.drg	9,035	139,4	7.62x51 FMJ tracer ogive + boattail (twist 12 in)
XM110.drg	0,661	10,2	7.62x51 Flechette cone (twist none)
NATOFMJ.drg	9,5	146,6	7.62x51 FMJ ogive + boattail (twist 12 in)
NATOMEN.drg	9,46	146,0	7.62x51 MEN FMJ ogive + boattail (twist 12 in)
SS77.drg	9,5	146,6	7.62x51 SS77 FMJ ogive (twist 12 in)
M118.drg	11,27	173,9	7.62x51 M118 Match HP? ogive + boattail (twist 10 in)
SIERR190.drg	12,27	189,4	7.62x51 Sierra MatchKing FMJ HP ogive flattened + boattail (twist 10 in)
SIERR168.drg	10,89	168,1	7.62x51 Sierra MatchKing FMJ HP ogive flattened + boattail (twist 12 in)
MEN6638.drg	9,45	145,8	7.62x51 MEN 66-38 DM41 FMJ ogive + boattail (twist 12 in)
FNMVMWK.drg	9,45	145,8	7.62x51 FNM 85-4 DM41 FMJ ogive + boattail (twist 12 in)
FNMLS.drg	8,94	138,0	7.62x51 FNM 7-81 DM21 FMJ tracer ogive (twist 12 in)
308W88.drg	9,25	142,7	7.62x51 S&B FMJ ogive + boattail (twist 12 in)
M39.drg	9,67	149,2	7.62x54R M39 FMJ ogive (twist 230 mm)
M39TRAC.drg	9,73	150,2	7.62x54R M39Ls FMJ tracer (twist 250 mm)
M39TRUEB.drg	7,57	116,8	7.62x54R M39LsUeb FMJ tracer ogive + boattail (twist 250 mm)
M39UEB.drg	8,14	125,6	7.62x54R M39Ueb FMJ ogive (twist 250 mm)
GP11.drg	11,3	174,4	7.5 mm GP11 Switzerland FMJ ogive + boattail (twist 270 mm)
S-BUL.drg	10	154,3	8x57S Germany FMJ ogive (twist 235 mm)
SS-BUL.drg	12,8	197,5	8x57S sS Germany FMJ ogive + boattail (twist 235 mm)
11'15MAU.drg	25	385,8	11.15x60R
CONEPRO.drg	33,86	522,5	50 Browning Solid type B cone (twist 15 in)
155M101.drg	44,934	693,4	50 Browning Model 155 M101 ogive + boattail (twist 15 in)
M33.drg	42,02	648,5	50 Browning M33 FMJ ogive rounded + boattail (twist 15 in)
M8.drg	41,98	647,9	50 Browning API M8 FMJ ogive rounded + boattail (twist 15 in)
M20T.drg	39,77	613,7	50 Browning APIT M20 FMJ tracer ogive rounded + boattail (twist 15 in)
M20NT.drg	38,95	601,1	50 Browning APIT M20 FMJ tracer ogive rounded + boattail (twist 15 in)
HUN files			
FED223.drg	4,427	68,3	223 Remington Federal 68 gr FMJ trunc. ogive + boattail (twist 10 in)
65MMSP.drg	6,48	100,0	6.5 ? (twist 194 mm)
NORMABT.drg	8,991	138,8	6.5 mm Norma 139 gr Match FMJ ogive + boattail (twist 194 mm)
7MMREMSP.drg	9	138,9	7 mm Remington magnum (twist 229 mm)
7MMKS.drg	8	123,5	7x64 RWS KS No.347 JSP cone (twist 220 mm)
308MAT.drg	12,3	189,8	308 Winchester RWS Match No.293 FMJ ogive + boattail (twist 12 in)
308WRN.drg	11,65	179,8	308 Winchester JSP RN (twist 12 in)
308RN.drg	9,7	149,7	308 Winchester SP RN (twist 12 in)
MATKING.drg	10,98	169,4	308 Winchester Sierra MatchKing 168 gr FMJ HP ogive + boattail (twist 12 in)
HPVIOLET.drg	9,53	147,1	308 Winchester Hirtenberger HP-4-72 Sniper violet nose FMJ ogive + boattail (twist 12 in)
LAPMATCH.drg	12	185,2	308 Winchester Lapua Match D46 FMJ ogive + boattail (twist 12 in)
MENSFS.drg	10	154,3	308 Winchester MEN Solid Copper trunc. cone (twist 12 in)
MENVMSK.drg	12,3	189,8	308 Winchester MEN FMJ HP ogive + boattail (twist 12 in)
WC8.drg	10	154,3	8x57 WC cylinder (twist 235 mm)
458WINRN.drg	32,4	500,0	458 Winchester Magnum FMJ RN (twist 356 mm)
45_70SH.drg	35,64	550,0	45-70 Sharps (twist 19 in)
45_70REM.drg	26,24	404,9	45-70 Remington
40_70SH.drg	26,11	402,9	45-70 Sharps (twist 16 in)
SLUG.drg	24,81	382,9	12x70 Remington Slug SP12RS-5PK Lead HP RN
SLUG_12.drg	28,38	438,0	12x70 Winchester Slug
50SH_675.drg	42,86	661,4	50-90 Sharps (twist 22 in)
50SH_465.drg	31,3	483,0	50-90 Sharps Lead RN meplat (twist 36 in)
50MUZZLO.drg	25,3	390,4	50 muzzle loader
STD files			
1943.drg	1	15,4	1943 (any mass and diameter)
SIACCI.drg	1	15,4	Siacci 1896 ogive (any mass and diameter)
1930.drg	1	15,4	1930 USSR (any mass and diameter)
MAYEVSKI.drg	1	15,4	Mayevski 1872 (any mass and diameter)
MAYEVSAB.drg	1	15,4	Mayevski + Sabudski (any mass and diameter)
G1.drg	1	15,4	G1 Gavre drag function (any mass and diameter)
SPHERE.drg	1	15,4	Sphere (any mass and diameter)
BRLSPH.drg	11,9	183,6	Sphere 14.3 mm
KRUPP.drg	100	1543,2	Krupp (mass unknown) trunc. ogive
GAVRE.drg	1	15,4	Gavre type 1 (any mass and diameter) ogive
FRG files			
CUBE.drg	1	15,4	Cube fragment 1/4...3/8 inches (any mass)
CUBEUS.drg	1	15,4	Rotating cube fragment (any mass)
IRR.drg	1	15,4	Irregural shape fragment (Janzon) (any mass)
IRRUS.drg	1	15,4	Irregural shape fragment (US) (any mass)
SHCYL.drg	1	15,4	Short rotating cylinder length=diameter (any mass)
BRLCYL.drg	49	756,2	Unstated cylinder length=diameter
LGCYL.drg	1	15,4	Long cylinder length=10xdiameter (any mass)