

Ballistics Board*

Work in progress: more to come.

Every barrel, pellet, and slug load compiled so far: velocity, muzzle energy, and projectile size, by platform and caliber. Data quality varies: see the note on each row.

Skout Semi — .22 (in-house)

In-house, electrochemical rifling, 15.5", 1:15.75 twist

Type	Projectile	Wt (gr)	Size	Velocity (fps)	Energy (ft-lb)	Notes
Pellet	AEA Center Punch	18.3	.22	900	32.9	chronographed Standard out-of-box load; highly recommended. — 50–75 yd (also tests well <50 yd)
Pellet	JTS Dead Center	18.1	.22	900	32.6	chronographed Standard out-of-box load; highly recommended. — 50–75 yd
Pellet	JSB Jumbo Monster Light	20.83	.22	900	37.5	chronographed Standard out-of-box load; highly recommended. — 50–75 yd
Pellet	AEA Center Punch 21.9gr	21.9	.22	880	37.7	chronographed Heavier AEA option shot alongside the 18.3gr load above. Recalled as "22.7gr" — no such AEA SKU exists; 21.9gr is the nearest real catalog weight. Same pellet also shot in the Evo/Compact at 975 fps (see that facet).
Pellet	JSB 25.39gr (Jumbo Monster)	25.39	.22	840	39.8	chronographed Catalog weight 25.39gr (logged as "JSB 25gr"). Same pellet also shot in the Evo/Compact at 930 fps (see that facet).
Pellet	AEA Center Punch 25.3gr	25.3	.22	840	39.6	chronographed Catalog weight 25.3gr (logged as "AEA 25gr"). Same pellet also shot in the Evo/Compact at 930 fps (see that facet).

Evo / Compact — .177

In-house, hard-coated alloy, 1:20 twist · Lothar Walther, polygonal, ~1:18 twist (TBC)

Type	Projectile	Wt (gr)	Size	Velocity (fps)	Energy (ft-lb)	Notes
Pellet	JSB 8.44gr (Match Exact)	8.44	.177	783–793	11.5–11.8	derived UK-market tune (<=12 ft-lb legal limit). Catalog weight 8.44gr (logged as "8gr"). Velocity derived from stated muzzle energy.
Pellet	JSB 10.34gr (Exact Heavy)	10.34	.177	708–717	11.5–11.8	derived UK-market tune. Catalog weight 10.34gr (logged as "10gr"). Velocity derived from stated muzzle energy.
Pellet	JSB 8.44gr (Match Exact)	8.44	.177	783–793	11.5–11.8	derived UK-market tune. In-house barrel believed to edge this one out slightly. Catalog weight 8.44gr. Velocity derived.
Pellet	JSB 10.34gr (Exact Heavy)	10.34	.177	708–717	11.5–11.8	derived UK-market tune. Catalog weight 10.34gr. Velocity derived.

Evo / Compact — .22 (Lothar Walther)

Lothar Walther, 28" (Evo) / 17.5" (Compact), 1:15.75 twist · Lothar Walther, 28"/17.5", 1:15.75 twist · Lothar Walther — custom-swaged slug program (Thorn press)

Type	Projectile	Wt (gr)	Size	Velocity (fps)	Energy (ft-lb)	Notes
Pellet	AEA Center Punch 21.9gr	21.9	.22	975	46.2	chronographed Recalled as "22.7gr"; AEA's actual .22 Center Punch line runs 15.9/18.3/21.9/25.3gr — no 22.7gr SKU exists, so this is almost certainly the 21.9gr pellet. Also shot in the Skout Semi (see that facet) at a lower velocity.
Pellet	JSB 25.39gr (Jumbo Monster)	25.39	.22	930	48.8	chronographed Catalog weight 25.39gr (logged as "JSB 25gr"). Same pellet also shot in the Skout Semi at 840 fps (see that facet).
Pellet	AEA Center Punch 25.3gr	25.3	.22	930	48.6	chronographed Catalog weight 25.3gr (logged as "AEA 25gr"). Same pellet also shot in the Skout Semi at 840 fps (see that facet).
Slug	Varmint Knockers Where to buy: eBay (Varmint Knockers)	32.8	.217	1000–1060	72.9–81.9	chronographed Sub-MOA at 100 yd. — 100 yd outdoor
Slug	NSA 31.2gr Where to buy: Nielsen Specialty Ammo	31.2	.2167	1045–1050	75.7–76.4	chronographed Very consistent velocity shot to shot.
Slug	H&N 34gr Where to buy: Pyramyd AIR	34	.217	1000–1030	75.5–80.1	chronographed
Slug	NSA 35gr Where to buy: Nielsen Specialty Ammo	35	.217	1000	77.7	chronographed
Slug	Griffin 34gr boat tail Where to buy: Griffin Airguns (34 gr boat tail, .217 or .218)	34	—	—	—	no data yet Tested; velocity not recorded.
Slug	AEA slug Where to buy: AEA Airguns (all slugs)	—	.22	—	—	no data yet Grouped sub-MOA at 100 yd; weight and velocity not recorded. — 100 yd
Slug	AirMarksman ACE Precision Where to buy: Utah Airguns	40.1	.2175	920	75.4	chronographed Catalog check: AirMarksman "ACE" Precision Slug, .22 cal, 40.1gr, .2175", boat tail — confirmed exact match.
Custom slug	Custom-swaged slug	41.1	.2167	956–959	83.4–84.0	chronographed Swaged and sized down from FX Panta ~.2173" to .2167". HP regulator 162 bar (~2,350 psi). Groups ~1/2 MOA. — 100 yd (6 MOA hold) / 75 yd (2 MOA hold)

Evo / Compact — .25 (Lothar Walther)

Lothar Walther, 28"/17.5", 1:16 twist · Lothar Walther, sub-MOA barrel — factory tune · Lothar Walther, sub-MOA barrel — after fire-lap & re-crown · Lothar Walther, separate barrel

Type	Projectile	Wt (gr)	Size	Velocity (fps)	Energy (ft-lb)	Notes
Pellet	AEA Center Punch 29.5gr	29.5	.25	930	56.7	chronographed Catalog weight 29.5gr (logged as "AEA 29gr").
Pellet	AEA Center Punch 33.9gr	33.9	.25	930	65.1	chronographed Catalog weight 33.9gr (logged as "AEA 33gr").
Pellet	JSB King Heavy MkII 33.95gr	33.95	.25	930	65.2	chronographed Catalog weight 33.95gr (logged as "JSB 33gr").
Slug	NSA 33.5gr — factory tune Where to buy: Nielsen Specialty Ammo	33.5	.250	930	64.4	chronographed Cooler tune; opens up noticeably by 200 yd. — 100 yd (<1") / 200 yd (5–7")
Slug	NSA 33.5gr — hot tune Where to buy: Nielsen Specialty Ammo	33.5	.250	1050	82.0	chronographed Same load run hotter (1050+ fps) after fire-lapping/re-crowning; grouped much better at 50 yd. Energy shown is a floor. — 50 yd
Slug	NSA 38.5gr Where to buy: Nielsen Specialty Ammo	38.5	.254	925	73.2	chronographed Shoots well.
Slug	AVS 42gr (flat-nose) Where to buy: AVS Slugs (pick 42 gr)	42	.254	920	79.0	chronographed Very consistent.
Slug	Varmint Knockers 32.8gr Where to buy: eBay (Varmint Knockers)	32.8	.217	925	62.3	chronographed Flag: VarmintKnockers' only 32.8gr/.217 SKU found is their .22-caliber slug (their .25-cal line runs 34gr+ at .25 sizing). Likely the same .22-cal slug as in the .22 facet, possibly logged under the wrong caliber — confirm with the tester.
Slug	H&N 34gr Where to buy: Pyramyd AIR	34	.217	980	72.5	chronographed Flag: H&N's 34gr/.217 slug is a catalog .22-caliber product. Likely the same .22-cal slug as in the .22 facet, possibly logged under the wrong caliber — confirm with the tester.

Evo / Compact — .30 (Lothar Walther & Moab)

Lothar Walther, polygonal · Moab — in-house stainless bull barrel, 1:36 twist · Lothar Walther / Moab

Type	Projectile	Wt (gr)	Size	Velocity (fps)	Energy (ft-lb)	Notes
Pellet	AEA Center Punch 50.5gr	50.5	.30	950	101.2	chronographed Catalog weight 50.5gr (logged as "50gr"). Pellets only for .30 at this time.
Pellet	AEA Center Punch 50.5gr	50.5	.30	950	101.2	chronographed Catalog weight 50.5gr. Most expensive, most precise barrel; not available on Evo Compact. Pellets only.
Pellet	AEA 45gr	45	.30	930	86.4	chronographed Shoots very well; moves in the wind a little more than the 50gr.
Pellet	JSB 44.75gr	44.75	.30	930	86.0	chronographed Not consistent in weight — requires heavy sorting. Softer lead than AEA's.

Evo / Compact — .357/.35 (in-house)

In-house, ~36", pellet only

Type	Projectile	Wt (gr)	Size	Velocity (fps)	Energy (ft-lb)	Notes
Pellet	.357 (.35) 81gr	81	.357	775	108.1	chronographed Does well at this weight.

* Special thanks to **Song V** for his testing work. See his videos on his YouTube channel, [Air Sniper – Song V](https://youtube.com/@AirSniper-SongV) (youtube.com/@AirSniper-SongV).

Muzzle energy computed as $FPE = \text{weight}(\text{gr}) \times \text{velocity}(\text{fps})^2 \div 450,240$. Ranges reflect the spread of velocities reported for that load; “hot tune” and similar variants are logged as separate rows. Rows marked derived back-calculate velocity from a stated foot-pound figure rather than a chronographed shot string. Rows marked no data yet are known loads awaiting a chrono session. Grain weights have been cross-checked against manufacturer/retailer catalogs (Sept 2026) — corrected figures are noted inline where the internal shorthand rounded differently, and two .25-caliber slug rows are flagged as possible caliber mix-ups with their .22-caliber namesakes. Velocities, groupings, and field results remain internal data. This board reflects internal testing and one expert tester’s field notes — treat it as a working draft until every row is independently verified.

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