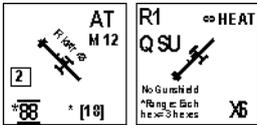


## GERMAN ORDNANCE LISTING, SUPPLEMENTAL (TOT and FDS)

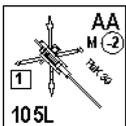
	Name	Type	Csize	ROF (IFE)	B#	Range	M#	Tsize	Dates	Special	BPV	RF
4	8.8cm Rktwfr 43	AT	88	2		18	12	+1	6/44-45	NT, QSU, ∞H, Special TH	22	1.6
4	10.5cm FlaK 39	AA	105L	1		442	-2	-1	9/44-45	T, NM	52	1.6
#	Name	Type	Csize	ROF	B#	Range	Wgt	Tsize	Dates	Special	BPV	RF
2	Borgward BIVc RPzB54	SPAT	88	2	B10	21	4t	+2	3/45-45	T, ∞H, Special TH, no Backblast, CE to fire, OT	56	1.9



**8.8cm Rktwfr 43:** This small AT gun – known as the *Püppchen* – was a development of the Panzerschreck. As such, this AT gun was an attempt to project the hitting power of the Panzerschreck at a longer range. Very simple as far as the AT guns go, the Rktwfr 43 consisted of an 88mm smooth bore tube mounted on a two-wheeled carriage with a trail and a very small gun shield. The weapon was breech-loading, with aiming being achieved via a simple two-handed attachment to the gun cradle. The open sights were adjustable to 700 meters, but practical range fell short of that, being in the neighborhood of 300–400 meters. The gun fired a percussion-fuzed version of the Panzerschreck’s hollow-charge rocket. Since the weapon used a closed breech during firing, the projectile gained significant velocity from the high-low pressure effect (which accounted for its range being greater than the Panzerschreck) – a fact that also eliminated the dangerous backblast. The *Püppchen* was not build in great numbers, and first began to be encountered in the summer of 1944.

- °1 This gun does not receive any gunshield (C11.5) benefits.
- °2 Although this weapon may not fire AP or HE Ammunition (as indicated by the overscoring and underscoring of the MA caliber size), it may fire unlimited HEAT. Therefore HEAT Ammunition for this Gun is not subject to C8.9 Depletion.  
**ERRATA:** the 88mm HEAT Basic To Kill Number is **26**.
- °3 While this Gun does use the C3 To Hit process [EXC: Area Target Type and To Hit Cases L & M are NA], it does differ in that every hex of actual range is counted as **three** hexes.
- °4 This weapon may be Animal-Packed (G10).

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**10.5cm FlaK 39:** This heavy anti-aircraft gun was a direct development of the 8.8cm FlaK 37 anti-aircraft gun, and the two guns looked very similar. Intended for use against higher and faster aircraft than could be engaged by the FlaK 37, the FlaK 39 was able to provide heavy firepower to the flakbelts in which it served. Although it was designed as a mobile gun, the FlaK 39 was very cumbersome to bring into action due to its great weight. Therefore – unlike the 88mm anti-aircraft gun (which gained a reputation as an excellent anti-tank gun as well) – the FlaK 39 was relegated to service solely as an anti-aircraft piece, and even then usually only within the confines of Germany itself. FlaK 39 batteries were often mounted on railway cars, giving them a strategic mobility that they lacked in their ground mounting (especially since the fuel shortages that were commonplace late in the war had little effect on rail movement). This method of mounting the guns on rail cars was much disliked by Allied aircrews, since their maps of flak concentrations did not account for these mobile guns. The FlaK 39 began to be encountered by Allied ground forces as they moved into Germany, and like the 88mm flak guns, they proved effective against ground targets as well.

- °1 Although listed as a NM Gun, this AA Gun may be (un)limbered during play. To (un)limber the Gun, the Gun and crew are both marked with a TI counter during any friendly PFPh/DFPh in which they have not fired. The Gun may be flipped to its (un)limbered side at the conclusion of the second consecutive Player Turns TI, provided that the gun and the crew remains in Good Order throughout these two consecutive Player Turns.

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**Borgward BIVc RPzB54:** This small SPAT is a conversion of the Borgward B IVc “*Minenräumwagen*” armed with a sixfold RPzB.54 arrangement offset to the left side of the vehicle. The launcher was rotatable and offered a small protective shield. It was intended to engage enemy armor at short distance. A few of these saw actual combat in the defense of Berlin in the closing days of the war. The RPzB.54 mounted on the Borgward used the breech-loading system of the *Püppchen*, but with the improved Panzerschreck version 54 (thus increasing the range to 20 hexes). The Borgward B IVc was only build between 25 and 50 times and was only encountered in the defense of Berlin.

- °1 This AFV must be CE to fire its MA.
- °2 Although this weapon may not fire AP or HE Ammunition (as indicated by the overscoring and underscoring of the MA caliber size), it may fire unlimited HEAT. Therefore HEAT Ammunition for this Gun is not subject to C8.9 Depletion.  
**ERRATA:** the 88mm HEAT Basic To Kill Number is **26**.
- °3 While this Gun does use the C3 To Hit process [EXC: Area Target Type and To Hit Cases L & M are NA], it does differ in that every hex of actual range is counted as **three** hexes.

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