

# Rokheus & Surma HR36-1 Heavy Rifle

The Rokheus & Surma Heavy Rifle 36-1, or HR36-1, is a Battle Rifle manufactured and sold by [Rokheus & Surma Equipment and Logistics Support](#)

Following the example of the recently designed [Rokheus & Surma H36-1](#) handgun, with a design philosophy emphasizing durability without compromising on inherent accuracy, [Rokheus & Surma Equipment and Logistics Support](#) built the HR36-1 from the ground up to be a heavy duty, accurate battle rifle.

Made up of heavy gauge, stamped [Durandium Alloy](#) metal, the rifle is heavier than standard battle rifles employed, weighing in at nearly 17lbs unloaded. HR36-1 receivers are heat treated at the factory, increasing the durability of the rifle.

To cut down on the number of moving parts within the action of the HR36-1 [Rokheus & Surma Equipment and Logistics Support](#) elected to utilize a roller-delayed blowback action in the HR36-1, moving away from the traditional long stroke or short stroke piston actions used in contemporary rifles, while still utilizing a time proven, highly durable firearm action.

Seemingly committed to “overbuilding” a firearm to ensure unquestionable durability and reliability in their product, [Rokheus & Surma Equipment and Logistics Support](#) designed the HR36-1 with an oversized and heavily built hammer, firing pin, recoil guide spring/rod and bolt carrier group. The inside of the receiver sports internal guide rails for the bolt carrier group to travel along, reducing vertical and side to side play of the bolt group while cycling.

Unwilling to compromise on space versus heavily built internal parts, the HR36-1 is much wider than comparable battle rifles, and the “body” of the gun is taller to accomodate these large internal parts.

Each HR36-1 is tested at [Rokheus & Surma Equipment and Logistics Support](#) firing grounds against classified targets, and close-up photos of 5 shot test groups are included with each HR36-1. Acceptable factory standards call for a 1” group of five shots at 250 yards. HR36-1s not meeting this exacting standard are sent back for reworking, or sold as is at a discounted price as “factory rejects.”

Like the [Rokheus & Surma H36-1](#), to reduce friction wear and corrosion resistance on parts in the HR36-1, each HR36-1 comes from the factory with an advanced coating material applied to all parts. This is a mixture of nickel and hydrophobic materials. HR36-1s leaving the factory are required to pass 240 hour salt spray corrosion tests at Rokheus & Surma testing facilities.

## Weapon Specifications

### Nomenclature Information

Designer: Ale Rokheus Manufacturer: [Rokheus & Surma Equipment and Logistics Support](#) Name: Rokheus & Surma HR36-1 (Rs-HR36-01) Type: Roller Delayed Blowback Role: Battle Rifle Length: 49 inches (stock extended), 44 inches (stock closed) **Barrel Length:** 26 inches Mass: 17lbs **ROF:** Maximum of 600 RPM.

## Appearance



Constructed using all steel. Upper half of HR36-1 has a side mounted charging handle with two long knobs perpendicular to barrel. Lower half of receiver is “longer” than the top. Accessory rail on top of the upper half of the rifle. Trigger guard is enlarged, magazine is curved. Stock sits higher on the rear of the rifle than traditional rifles, which tend to have them situated nearly along the center line of the length of the rifle. Hand guards cover 3/4” of the long barrel, with the rest of the barrel exposed and mounting a cylindrical muzzle brake at the end. White and red fire selector settings on both sides of the rifle. Fire selector is on both sides of the rifle and is a lever. Magazine release is a paddle in front of the trigger guard.

## Discharge Information

**Projection/ammo type:** 7mm Rokheus Short Magnum

## Firing Mechanism

**Roller Delayed Blowback** Like Blowback firearms, Roller Delayed Blowback firearms typically derive the energy required to move bolt group rearward from the motion of the casing, pushed to the rear by expanding gases created upon ignition.

Pulling the cocking lever to the rear, the bolt group (consisting of the bolt carrier and head) is held under spring tension by a rod and spring system at the rear of the rifle. Releasing the lever, the bolt group flies forward and strips a round from the box magazine.

At this point, a wedge in the bolt carrier fitting into the bolt head is driven forward. This wedge forces two cylindrical metal pieces inside of the bolt head outward into recesses cut into the trunnion, which is before the chamber (where the round rests before the barrel.) In this state, the system is locked in battery.

Upon firing, the projectile is propelled forward due to the expanding gases in its casing. Flutes cut along the chamber walls allow for gases inside of the barrel to escape rearward, around the shell, directly onto the face of the bolt head. Because the bolt head is locked into the trunnion, these forces are transferred to the bolt carrier at the rear. Because the bolt carrier itself is not locked into the gun, it moves rearwards.

The bolt carrier now moving rearwards, the wedge connected to the bolt carrier retracts and thus unlocks the bolt head rollers, and the bolt head moves rearward with the bolt carrier. At the end of its travel, it is under spring tension again, and the described process happens until the magazine is emptied.

A major advantage of this system is its simplicity, and thus reliability. It does not depend upon a separate moving piston to actuate its system. This lack of moving parts above the center line of the bore also contributes to overall accuracy. Furthermore, because the action is still sealed for a short period of time as the projectile is still being propelled inside the barrel, it attributes to a slight increase in velocity.

The consequences of this action are that the bolt carrier group experiences extreme stresses placed on it, and does require replacement, though this only involves replacing it with a new bolt carrier group and no gunsmithing.

## Ammunition Description

Caliber: [7.62x55\\_rokheus\\_short\\_magnum](#) **Projectile Weight:** 160 grain (10 grams) Boat Tail FMJ  
Effective Range 700 yards Maximum Range: 1000 yards, depending upon skill of shooter Muzzle Velocity: 3400 ft/s (1040 m/s) **Muzzle Energy:** 3600 ft/lbs (4600 J) Muzzle Blast: Bright yellow flash when exiting barrel, extremely loud report Firing Mode: Semi-automatic, Full Auto Recoil: Heavy. Although the heavy weight of the HR36-1 greatly reduces felt recoil, this is still an extremely heavy recoiling battle rifle.

### 7.62x58 Rokheus Short Magnum

**Visual Description:** Copper coated rounds set in a short, but fat case. **Ammo:** 30 per magazine, 1 in chamber **Damage Description:** (Tier 2, Medium Anti-Personnel) Fast-moving rounds transfer a great deal of energy into the target, causing an extremely violent, temporary expansion of the wound channel and remote wounding effects in extreme cases. Body armor tends to be defeated by high velocity rounds through the sheer velocity of the projectile

## Weapon Mechanisms

**Safety:** Part of the fire selector, it is indicated by a white box with a line crossed along the middle.

**Fire Mode Selector:** Semi-automatic, Fully Automatic. Indicated by a single red box and multiple red boxes, respectively.

**Weapon Sight:** Standard iron sights, 1-8x magnification red dot sight standard.

**Attachment Hard Points:** Accessory rail on top of receiver, slots cut out underneath and on the sides of the hand guard for attachment of individual rail sections.

## Other

**Field Maintenance Procedure:** Unload magazine, pull charging handle to rear to ensure no rounds are chambered.

Let charging handle go, allowing for bolt group to move forwards. Undo latch at the rear of the lower receiver to allow for stock to detach along with recoil guide rod and spring mounted inside of stock.

Pull rear and forward pins out of the lower receiver. Rotate lower receiver at the front and away from upper receiver.

Pull charging handle rearward along its raceway on the side of the receiver and lift out of small machined cut at the rear.

Reaching through the bottom of the upper receiver, push bolt carrier group out of the rifle at the now opened end of the rifle.

Clean all signs of fouling from bolt carrier group, paying special attention to the bolt head.

Lubricate all moving parts, leaving a thin film of lubricant upon their surfaces.

Reassemble rifle in reverse order as assembly.

**Pricing:** 1800 DA . **Pricing (Factory Reject:** 980 DA.

## Replaceable Parts and Components:\

- 30 Round Standard Capacity Magazines (Three Included)
- Bolt Carrier Group (175 DA)
- Hand Guards (50 DA)
- Lower receiver (300 DA)
- Recoil Guide Rod/Spring Assembly (100 DA)
- Enhanced Marksman Trigger (225 DA). Reduces two stage trigger pull to 3.7 lbs.
- Variable Power "Viper" 1-8x Magnification Red Dot Sight (300 DA, One Included with HR36-1)
- Stock Set (90 DA)
- Charging Handle (20 DA)

## Additional Ammo:

- Box of Rounds, 50 (45 DA)

## Accessories:

- Accessory Rail Panels (20 DA Each)
- Two Point Sling (30 DA)

- Bipod and Adapter (90 DA)
- 16" Barrel (100 DA)

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