SPUHR®

THE HOME OF INNOVATION











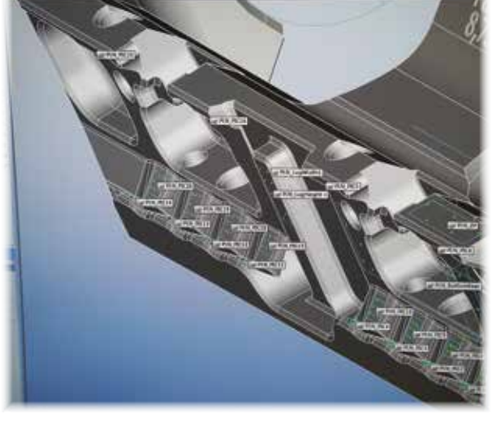
History

Spuhr i Dalby AB was founded by Håkan Spuhr in 2007 after a successful career working as a gunsmith. Prior to founding his own company, Håkan had designed the Aimpoint TwistMount and the MPS mount. As word spread about the gunsmith with the extraordinary technical solutions, Håkan's assistance was requested by military units – and one thing lead to another…

Today the company works closely with armed forces and manufacturers around the world. Some of our products are the results of military requirements for new solutions, while other products, such as the Ideal Scope Mounts System (ISMS™), are the results of our own shooting and hunting experience.

For maximum precision and quality, we produce 99% of our products in-house in our own factory in Löddeköpinge, Sweden.





What we do

Our mission is to produce innovative solutions containing a minimum of parts. We never copy the designs of other manufacturers as there is always room for improvements.

Our ISMS™ scope mounts are perfect examples of our innovative designs. For more than a hundred years scope mounts have looked basically the same – with the same limitations – regardless of the manufacturer. That is, until our ISMS™ came on the market in 2010.
We have taken the scope mount from just being a way of attaching the scope to a firearm, to a platform for mounting accessories, such as back-up sights, night vision, lasers, and cosine indicators to a firearm and aligning them with the primary optics.

Another good example of our innovative products is our 40 mm Grenade Launcher Sight Mounts. Where most grenade launcher sights have the readings on the side, preventing the soldier from reading the distance settings while aiming, we have made a sight mount where the soldier can see and adjust the range setting while still in the shooting position.





Our Weapon Upgrade Kits provide dependable workhorses, such as the HK G3 and MP5, with a new lease on life with improved ergonomics and modularity.

Spuhr i Dalby AB is the obvious and natural companion for any military, law enforcement, or industry partners with advanced technological production requirements.









THE SPUHR INTERFACE™

No chain is stronger than its weakest link. The Spuhr® Interface is a lightweight highly repeatable interface solution that enables the user to mount accessories rattle-free with perfect fit.

Instead of fitting our products with yards of Picatinny rails, adding a lot of material and undesired weight, while making them less comfortable to hold onto, we decided to make a small interface that has no weight – in fact, it has a negative weight as we remove material to create the interface.

The interface consists of a female part consisting of two M4-threaded holes with dual conical surfaces and male part with corresponding conical surfaces that mate into the female part. These conical surfaces will hold the two items very securely with excellent repeatability. The male and female parts are secured together using M4 screws.

As opposed to other alternative interface systems, the Spuhr Interface™ does not require any space on the back of the attachment surface to lock onto, as is needed with KeyMod and M-LOK. This means that the Spuhr Interface can also be used for applications such as on our ISMS™ scope mounts or on the side of a magwell – and not only for use on handguards.

We manufacture a broad range of accessories for the Spuhr® Interface, such as Picatinny rails, direct mounts for various red dot sights, such as Aimpoint Micro, Trijicon RMR, Docter, and Delta Point, and other special items.
The direct mount has the advantage of being stronger and sturdier than if using a Picatinny in between the two. It also has a lower profile and tighter mounting, and most importantly – a lower weight.







SPUHR UPGRADES

Background

As new threats appear requirements, tactics, and equipment needs shift. As a result, old workhorses fall in disuse or disrepute as new platforms and calibers gain popularity. This does not mean that the older systems do not have their place or cannot be brought up to modern standards.

Economic aspects & Logistic benefits

Transitioning to a new weapon platform includes just not the cost of purchase for the firearms but also brings with it the logistical costs of replacing the spare parts inventory – and in some cases the ammunition – on every level of the organization, and retraining soldiers and armorers on a new firearm. Upgrading a proven and already existing platform is a much more cost-effective solution for organizations that have limited funds.

What we offer

Our upgrade kits began with an improved top rail, forend, and magazine well for the HK G36 for use by special operations, which was followed by upgrades for the HK417, MP5, and G3. Today our upgrade kits are in use by many European law enforcement and military units.



R-402 G3 Top Rail
NSN 1005-22-630-0398

The R-402 G3 Top Rail allows the user to attach optics to the G3 battle rifle. As with our G36 and HK417 forends, the rail has a smooth design for ease of handling and higher repeatability.







Stockdesign
The main disadvantage of the G3 Rifle is the stock design tailored for the low iron sights. Due to the design with the long receiver the low ironsight forced the stock to have a ”hump” just behind the action. This ”hump” is also known as the ”cheek bone chrusher” for reasons that become painfully obvious to most.

R-410 G3 Stock Assembly
NSN 1005-22-630-0393 (Short Buffer)
NSN 1005-22-630-0394 (Heavy Buffer)

The R-410 G3 Stock Assembly will allow the user to assume an aggressive shooting stance with less felt recoil and greater controllability of the powerful G3 battle rifle. The integrated cheek piece allows for a comfortable head position when using optics. The R-410 also fits onto HK55 carbines.

HK G3 UPGRADES

The HK G3 is one of the western world’s great battle rifles, and it has proven itself to be very reliable and very accurate. The main drawback of the G3 is its lengthy stock, designed for use with iron sights, which makes the rifle difficult to use with modern shooting techniques developed around the use of body armor and maximized recoil control.

When the Swedish Armed Forces decided to upgrade their AK 4B – a domestically produced G3 – with an adjustable stock and a modular handguard, as a stopgap solution awaiting procurement of a carbine, Spuhr won the contract.

The Swedish AK 4C and AK 4D (DMR) proved to be a cost-effective solution giving the G3 vastly improved ergonomics and much needed modularity.

In 2019, when the Portuguese Marines needed to upgrade their G3 rifles, they too chose Spuhr after finding our products to be the only rugged enough to withstand their testing.

Our G3 upgrades consist of the R-401, a modular handguard made from 7000-series aluminum with the same weight as the factory handguard, the R-402, a Picatinny Gen2 top rail with a cummerbund securing the front of the rail to the receiver, and the R-410, a 6-position synthetic stock, which allows the user to adjust the stock length for proper length-of-pull depending on clothing, gear, and shooting position.





R-401 G3 Forend
NSN 1005-22-630-0397

We made a new forend that have allmost the same outline as the original with the same weight as the HK plastic forend (190 gram/6,7oz). It is very well ventilated so the barrel cools quickly.

The R-401 G3 Forend is made from high grade aluminum with Spuhr Interfaces along the length of the body, allowing the user to attach various accessories without adding any unnecessary weight or sharp edges, as is common with Picatinny handguards.

The forend is also very comfortable and gives the advantage of allowing the shooter to grab around the forend with a modern grip to manage the recoil, which is hard to do with a Picatinny forend.







HK MP5/HK53 UPGRADES

The HK roller delayed series of firearms all suffers from far too long stocks. This is especially apparent when it comes to short users and the use of body armor.

To make the situation better we have made a new stock for those guns.

R-301 MP5 Forend
NSN 1005-22-630-0395

The R-301 MP5 Forend is a lightweight modular forend, which follows the same general design as our G3 forend. The R-301 also fit the HK53.

It´s a 6-position stock assembly with replaceable cheek pieces allowing for different sight solutions.

The new stock will make it possible to adjust the length from 180-260 mm / 7.09”-10.24” and also raise the cheek piece and butt plate around 20 mm (0,8”).

That way the LOP (Length of Pull) can be adjusted to the current clothing or the current user of the gun.
It will make the gun more controllable as the stock is more optimized after the user.

R-302 MP5 Top Rail
NSN 1005-22-630-0396

The R-302 MP5 Top Rail allows the user to attach optics to the MP5. As with our G36 and HK417 forends, the rail has a smooth design for ease of handling and higher repeatability.

We also have some different toprails, both with direct-mount for Aimpoint Micro and with ordinary picatinny rail.

Please ask your point of contact for more information.









Enhanced Lower



Light weight slim forend

HK417 / MR308A1 UPGRADES

HK designed the HK417 to be a more rigid and reliable piston-driven version of the AR platform but with the improvements came added weight and proprietary magazines. We were tasked by a unit with making the HK417 lighter and to accept SR25-pattern magazines. *

** Due to different geometry of the SR25-pattern magazines, our HK417 receivers will require modification to the upper receiver for proper function.*

R-200 HK417 Full-Auto / R-200S HK417 Semi-Auto Lower

Our solution was to redesign the lower receiver and the hand-guard. We designed two lower receivers; the select-fire R-200 and the semi-auto R-200S, both of which feature ambidextrous controls, shielded magazine release buttons, non-rotating pins, and Spuhr Interfaces™ on the sides of the magwell.

Spuhr® forends

We also designed two light-weight handguards with a 25%-33% weight reduction compared to the originals; the R-210 for 20” barrels and the R-211 for 16” barrels. The handguards feature Spuhr Interfaces™ on the sides and Picatinny Gen2 rails along the top and bottoms, with provisions for mounting an underslung HK GLM.

R-210 HK417 Long Forend 11.5”

The R-210 Long Forend is a lightweight modular alternative to the factory Picatinny forend, featuring our own smooth Picatinny rail on top and bottom.



R-211 HK417 Short Forend 9.5”

The R-211 Short Forend is, like the R-210 Long Forend, a lightweight modular alternative to the factory Picatinny forend. As with the R-22 G36 Forend, the R-211 also has a smooth Picatinny rail designed for attaching an HK GLM.





Low profile Top rail with
High visibility back-up iron sights



Ambidextrous M16 magazine conversion

HK G36 / SL8 UPGRADES

Our first upgrade kit was for the G36C, where we were tasked by a unit to reduce the weight, improve the iron sights and the ergonomics, and to make it compatible with “STANAG-pattern” magazines.

R-1 G36 Top Rail

We developed a new Picatinny Gen2 top rail – the R-1 – with a lower overall height (200 gram), integrated adjustable back-up iron sights, and a lowered section for using a night vision monocular behind a red dot sight. The sights are fitted with tritium inserts.

For those who prefer a full length rail without the lowered portion, there is a Picatinny spacer included (see picture below).

Please note that the Picatinny rail is heavily dehorned to prevent burrs etc. after heavy use. Also a way of saving the hands and fingers of the users.

Accessories, such as the Oerlikon LLM laser can be mounted on the top rail, rather than on the forend as to ensure that the point of aim will remain true even as the forend flexes and moves.

R-8 G36 Mag Conversion Kit

We also developed the R-8 ambidextrous magwell assembly with an extended bolt stop, allowing the use of standard “STANAG-pattern” M4/M16 magazines, and with a hidden storage compartment for a CR2032 or CR1/3N battery.

R-22 G36C Forend

We also developed the lightweight R-22 handguard, featuring a slimmer profile with Spuhr Interfaces™ along the top and sides, and a Picatinny Gen2 rail along the bottom, for mounting an underslung HK GLM.

We can also offer the R-23 forend for G36K and the R-24 for full-length G36E carbines.

With our interface system the user gets a flexible lightweight system with only advantages. The rest of the equipment is heavy enough.





GRENADE LAUNCHER SIGHT MOUNT

Patented

Our GR-series of Grenade Launcher Sight Mounts was designed to increase the first hit capability of 40mm launchers – and in combination with NVGs and a Red Dot Sight with night vision settings – the GR-series turns the 40mm launcher into a 24-hour capable system.

As there are many different launchers and munitions on the market, the ballistic bow – the heart of the GLSM – is manufactured to match the exterior ballistics of the customer specified launcher and unition.

Thanks to its ease of use and high accuracy, the GR-series effectively shortens the length of training needed to become proficient with the 40mm system, while at the same time providing cost savings as fewer grenades will be needed to complete training.

GR-1000 HK GLM Mount, Tritium
The GR-1000 is our original Grenade Launcher Sight Mount, designed to attach to the side of an HK GLM. Designed to be used with HE low velocity munitions, the GR-1000 has a ballistic bow with range settings from 50 to 350 meters. The rear of the ballistic bow has tritium inserts for 100, 200, and 300 meters.
(GR-1010 Luminova version available).

GR-1001 Mount for Side Picatinny, Tritium
NSN 1240-22-625-2185 (Tan color)
NSN 1005-22-624-9431 (Tan color w/ Aimpoint T1)
NSN 1240-15-206-0287 (Luminova)

The GR-1001 is designed to attach to be mounted on the side of a Picatinny forend/rail. Designed to be used with low velocity HE munitions, the GR-1001 has a ballistic bow with range settings from 50 to 350 meters. The rear of the ballistic bow has tritium inserts for 100, 200, and 300 meters.
(GR-1011 Luminova version available).

GR-1002 Double Mount for Top Picatinny, Tritium
NSN 1005-22-613-9492 (Tan color w/ Aimpoint T1)

The GR-1002 is designed to combine the mount for the primary red dot sight with the GLSM. The GR-1002 is therefore designed to attach to a Picatinny top rail.

(GR-1002 Double Mount for Top Picatinny) *continue*

Designed to be used with low velocity HE munitions, the GR-1001 has a ballistic bow with range settings from 50 to 350 meters. The rear of the ballistic bow has tritium inserts for 100, 200, and 300 meters.
(GR-1012 Luminova version available).

GR-1003 Quadrant Sight 40 mm Mount

The GR-1003, which is based on the GR-1001, was developed for the Swedish Armed Forces, and is designed to attach to be mounted on the side of a Picatinny rail. The GR-1003 features an updated geometry of the ballistic bow, which allows for the use of larger accessories on the side mounted Picatinny interface.

Designed to be used with low velocity HE munitions, the GR-1001 has a ballistic bow with range settings from 50 to 350 meters. The rear of the ballistic bow has tritium inserts for 100, 200, and 300 meters.

Export Restrictions

In accordance with Swedish Law (1992:1300) about Military Equipment and Ordinance (1992:1303) about Military Equipment export of the GLSM requires an Export Permit issued by the Inspectorate of Strategic Products (ISP).



BALLISTIC ADJUSTABLE MOUNT - (BAM)

Designed to provide a quick way of compensating for distance when shooting with an Aimpoint CompM4, the SM-101QD Ballistic Adjustable Mount – also known as the BAM – features dual knobs calibrated for various distances from 200 to 1000 meters (depending on model and caliber) and provisions for attaching an Aimpoint 3X or 6X magnifier in an Aimpoint TwistMount or FlipMount ring behind the sight for enhanced accuracy at longer ranges.

As the integrated Aimpoint Twist-/FlipMount base moves parallel with the sight the Aimpoint dot will always be centered in the attached magnifier or NV device.

The BAM allows for faster time onto target as the user does not have to worry about using a hold-over – just ratchet the knob to the estimated distance and aim into the target. This product works equally well both for machineguns and rifles.

The BAM is available in three standard versions; a 600-meter version for both 5.56 and 7.62 NATO, an 800-meter version for 5.56 NATO, and a 1000-meter version for 7.62 NATO. (Other calibrations/distances can be made upon request but will require a minimum order quantity.)

We also offer the possibility of mounting two Red Dot sights so that each sight is zeroed for a separate barrel when used on a machine gun. The gunner just turns on the sight that corresponds to the barrel he is currently using, thus improving his first-shot hit probability without relying on the use of tracers.







DOUBLE SIGHT FOR MULTIPLE PURPOSE

Pat. Pend.

Based on our work with the SM-101QD Ballistic Adjustable Mount we offer a fixed mount with the possibility of mounting two Red Dot sights so that each sight is zeroed for a separate cartridge.

This is especially useful on carbines chambered for .300 Blackout where the firearm will be used with both sub- and supersonic cartridges and where the Point-of-Impact differs not only in the vertical plane but also in the horizontal plane.

To compensate for the trajectory of the subsonic cartridge in the vertical plane – especially in very short barrels – the Dual Mount has 9 MIL/30 MOA tilt.





ISMS™ - IDEAL SCOPE MOUNT SYSTEM™

Patented

Extremely sturdy scope mounts and separate rings with built-in anti-cant level and multiple interface surfaces for accessories. 45-degree split rings provide unobstructed view of the turrets.

The product line that made us a world-wide name. Our unique design allows for a lightweight and unobtrusive design while being highly durable. The mounts and rings are milled from single billets of 7000-series aluminum and will prevent damage to the scope from flex during heavy recoil or rough handling. The rings are grooved on the inside for a better grip of the scope and to enable gluing of the scope if so desired. To secure the mounts to the weapon we use M5 Torx 20 screws or two adjustable QDP-levers. The mounts and rings come with an indexing tool for quick and easy installation and the mounts are available in a wide range of diameters, heights, and tilts.

Spuhr Interfaces

Our scope mounts have a minimum of seven Spuhr Interfaces™ for accessories, making it possible to attach accessories by direct interfaces to the mount or by using Picatinny rail interfaces. A selection of interfaces for popular accessories, such as laser range finders, angle cosine indicators, red dot sights, and night vision, are available, and others can be made to customer specifications.

One advantage of our interface system is that it allows accessories such as lasers and range finders to be easily attached to the scope mount where they are aligned with the primary optics, providing an undisturbed laser beam while having the weight close to the weapons center of balance. With ISMS™, in a sniper pair, the sniper and the spotter can easily share equipment and accessories if both rifles are fitted with ISMS™ even if they use different optics.

The use of Laser Range Finders

Laser Range Finders like WILCOX Raptar or the SAFRAN VECTRONIX have become very important for a user.
The superior way of mounting them is direct on the scope mount itself. If you mount them on the forend of the weapon there is a significant risk for a flex in the system that could lead to an unintentional hit.



ISMS™ - IDEAL SCOPE MOUNT SYSTEM™

QDP Series

Originally designed for an USMC bid, the QDP series of mounts offer the ISMS™ with adjustable quick release levers instead of screws. The QDP series offer excellent return to zero and the same functionality and durability as our regular mounts.





SEPARATE RINGS

We also make separate rings for those who prefers them, the main reason would be because they are somewhat lower than our unimounts.

The rings are available in 1” (25.4 mm) and 1.35” (34 mm) heights.

They also feature built-in levels, that is somewhat smaller and not as visible as on the unimounts.
The dual vials in the rear ring allow the rings to be mounted for either right or lefthanded shooters.

To allow the use of our “wedge” leveling key an A-0080/81 leveling kit is included with the rings.



Special made ”Leveling kit” for Separate rings.
(Also sold separately art.nr: A-0080/81)



ACCESSORIES FOR SCOPE MOUNTS

A-700 NV Clip-on Adapter

The A-700 NV Clip-On Adapter allows the user to position a clip-on image intensifier in front of – and aligned with – the primary optics of the weapon. The user can adjust the angle of the A-700 from 0 to 13 MIL (0 to 44.4 MOA) as to achieve the same tilt as the ISMS mount the A-700 is being attached to. This minimizes the optical distortion between the image intensifier and the primary optic – thus maximizing target identification and hit probability.





The A-700 is designed for use with the SP-**01 and SP-**02 non-cantilever series of mounts and should not be used on rifles with heavy recoil (rifles with calibers larger than 7.62 NATO).





Picatinny rail A-0037



Various Red Dot interface



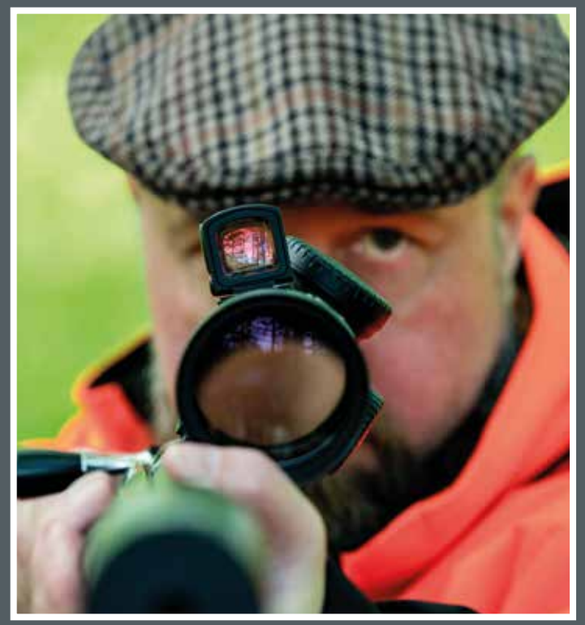
Aimpoint A-0025



ACI Non-QD A-0023

ACCESSORIES

We offer interfaces for attaching a variety of accessories such as angle cosine indicators (ACI), back up Red Dot Sights, lasers, illuminators, night vision mounts, etc. to our scope mounts with a minimal "footprint". With traditional mounts this can only be achieved if there is sufficient space for additional rings on the scope tube, which there rarely is. The Ideal Scope Mount System™ have interface surfaces directly on the mount, making it possible to mount accessories either by Picatinny rails or as direct interfaces. Selections of interfaces for popular accessories are available, and others can be made to customer specifications.



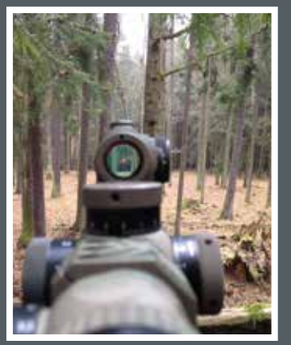
























Red Dot Sight Mounts

The world's toughest Red Dot Sight mounts – the preferred choice by the elite teams. Models available in various heights for Aimpoint Micro series, SIG Romeo series, Trijicon MRO, and Vortex Razor HD. Available both as fixed mounts & as QDP mounts.

The SM-series of Aimpoint & MRO mounts was designed to be the most rugged mount possible. The mount consists of the mount body, a rail clamp, a set of clamping screws with washers and screws for attaching the Aimpoint to the mount.

Some of the models have a set of Spuhr interfaces on the opposite side from the rail clamp. These can be used to affix various accessories as needed.





SPUHR HUNTING MOUNTS

Based on our ISMS™ series of mounts and rings, we have launched the Hunting Series of mounts, rings, and scope bases with a more traditional aesthetic but still with the same durability, functionality, and attention to detail as on our tactical mounts.

Three versions
- Standard Hunting version that has a Spuhr Interface on one ring
- Classic version that doesn't have any interfaces
- Interface version that features Spuhr Interfaces on both rings



Models
We make unimounts for Picatinny rail, Sako TRG & Tika T3/T3X.

During 2020 Q1 we will introduce our separate hunting rings for Picatinny and Weaver Rail.







DUAL POSITION ACCESSORY MOUNT

SM-100 Dual Position Accessory Mount
NSN 1240-13-122-1843

A simple solution for adding a magnifier to an Aimpoint MPS3 for improved target acquisition. The SM-100 Dual Position Accessory Mount uses two spring-loaded arms to securely hold the magnifier behind the MPS3.

The general idea is that the device can be used in both positions. Our device can with a camera take overview photos when mounted on top of the spotting scope or it can be folded down to take detailed photos through the scope. With a magnifier, it can be used as an observation device on top of the sight, and it can be folded down to provide magnification through the sight.

The mount itself consists of very few parts and can be mounted on either the top of a picatinny rail or on the side of the main optic. It could also be delivered with customer made mounts suitable for their optics and needs.





LIGHTWEIGHT FLEXIBLE NVG MOUNT







This innovative product allows the user to change from having one to two monoculars mounted, and back again, as the need arises.

The mount is very stable and quiet, with no rattling or shaking parts.

The mount is very flexible with multiple adjustments and settings, and can be adjusted for tilt, eye width and/or eye-relief within seconds.

For the user who likes to use his right-eye monocular mounted on his firearm, the monocular can be securely moved from the head to the gun or back again within seconds.

The Head Mount/Helmet Mount has a quick interface with adjustment memory, giving the user the possibility to quickly transfer the whole system with goggles from his helmet to his head (or back) if the situation warrants it.

Some operators prefer to parachute without goggles mounted, opting to mount them only after releasing the parachute, as to prevent the goggles from getting tangled in the risers.

With the Light-weight Flexible NVG Mount the operator can keep a clean helmet during descent and within seconds of releasing the parachute have the goggles securely mounted without any need to readjust any settings!

Strap system
The strap system for the Head Mount is developed by the company Snigel Design and is probably the best designed strap system on the market, providing the highest comfort for the greatest variety of head shapes possible.

The Head Mount stays in place without any strain or excessive pressure, preventing the commonly experienced headaches and neck pains associated with extended wearing of head-mounted NVG's.

Goggle fit
The Light-weight Flexible NVG Mount is ideally used with Insight MUM-14 types or Vectronix systems, but other monoculars such as the ITT PVS-14, Qioptiqs and the Theon can easily be mounted as well.





ENCLOSED RECEIVER SYSTEM™ - ERS™

Pat. Pend.

Introduction
The Spuhr® patent pending Enclosed Receiver System™ (aka ERS-8000) is a design project developed to combat the issue of receiver flex, an otherwise common problem in the Stoner AR platform.

Receiver Flex
Though the AR design makes for a very light-weight, accurate, and easily controlled rifle the open design of the upper receiver – especially in its modern version sans carry handle – makes it susceptible to a phenomenon called receiver flex.

Receiver flex is the result of side forces being applied onto the handguard of the rifle. Such forces can be the result of using a bipod, a rifle sling, a barricade support, or from "muscling" the weapon (muscling is the colloquial term for pushing the pistol grip towards you whilst simultaneously twisting the handguard in the opposite direction as to improve the grip on the rifle and to increase recoil control).Though receiver flex can affect all current versions of the AR-platform it is often not noticeable when shooting freehand at shorter distances or if the shooter isn't worried about achieving extreme precision.

Enclosed Receiver System
Based on our previous experience of building a HK417 replacement lower, we developed the Enclosed Receiver System™ (ERS™). The core of the ERS™ is a single receiver incorporating the commonly known features of the AR-platform (general layout and position of user interfaces) but without the inherent weakness of using two U-shaped receiver halves, thus providing a more solid foundation for semi-automatic precision shooting.







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