

“Weapons Ambidextrous Stabilization Platform”

The W.A.S.P. Forward Grip

The patented Weapon Ambidextrous Stabilization Platform (W.A.S.P.) forward grip provides unprecedented control at the front of the firearm. Such front-end control provides stability, which limits muzzle rise and barrel flip, leading to greater accuracy and faster target reacquisition. Moreover, such front-end control provides expanded gross mechanics, including fast transition between primary and secondary weapons, improved weapons retention, and quick magazine change.



In particular, the patented W.A.S.P. forward grip provides control of the kinetic chain unlike prior grips. The W.A.S.P. forward grip’s pro-active design mitigates muzzle rise and barrel flip and enables unique weapons mechanics. In addition, the W.A.S.P. forward grip has a pressure pad keeper feature that provides for flash light control.

The Kinetic Chain

The chain of kinetic energy which travels through the weapon in response to weapon discharge is delivered to the shooter’s body and the weapon’s frame at multiple points, causing:

- Muzzle Rise
- Barrel Flip
- Rearward Recoil



Current Fore Grip Limitations

Muzzle rise, barrel flip and rearward recoil are not efficiently controlled with grip designs currently on the market. Forward grips on the market consist of two basic *reactive* designs: (1) Angled and (2) Post.



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The Angle Forward Grip design allows the user to cradle the weapon, but the weapon can still rise and twist, even when the thumb is awkwardly positioned over the barrel. The Post Grip allows a user to pull down, but limits a user's ability to maintain force along a direct bore axis while the barrel continues to twist. Neither grip allows control of more than one axis, while each shot involves movement in multiple directions. These grip profiles do not address the ergonomic strengths of the human hand, allowing for only single axis control.

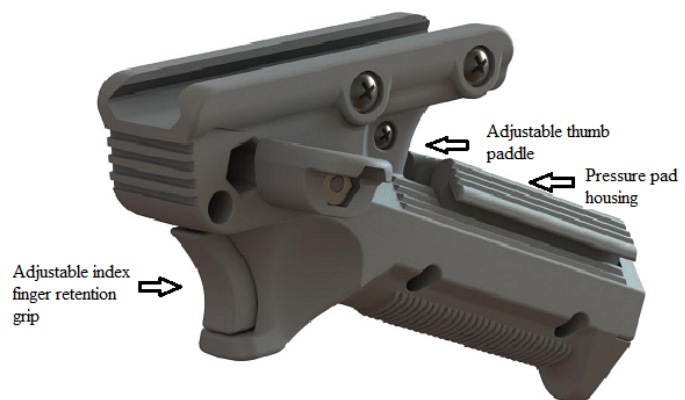
Pro-Active Design

The revolutionary W.A.S.P. forward grip has a multiple contact design that *pro-actively* addresses muzzle rise, barrel flip, and rearward recoil. The thumb paddle, index finger, and lower cradle provide an adjustable 3-surface contact, which provides control at the front of the weapon. The adjustable forward grip fits any sized hand, allowing use by both large and small statured individuals, while giving each individual measurable mechanical advantages.

The W.A.S.P. is easily installed in minutes on firearms having a Picatinny rail or Picatinny adapter.

The W.A.S.P. forward grip is a force multiplier in recoil mitigation, allowing the shooter:

- Faster Target Acquisition
- Follow-up Shot Recovery
- Maintain Sight Alignment



¹ Image from <https://www.magpul.com/products/m-lok-afg>

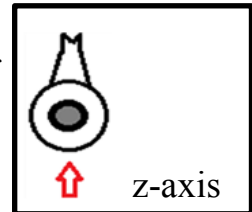
² Image from <http://www.luckygunner.com/lounge/how-to-hold-an-ar15-foregrip/>

- Reduced Fatigue

Moreover, the W.A.S.P. forward grip enables unique weapons mechanics in both close-quarter environments and longer-range engagements.

Muzzle Rise

Muzzle rise occurs when a round is discharged and leaves the end of the barrel. The W.A.S.P. forward grip's active counter-recoil design addresses the dynamics of muzzle rise with the introduction of the adjustable thumb paddle. The thumb paddle allows the weight of the shooter's arm to be utilized as a preload, using the thumb to apply a direct downward force on the z-axis before the weapon is fired.



Barrel Flip



Barrel flip is encountered when the rifling inside the barrel imparts a rotational spin on a bullet in concert with the expelled gases leaving the barrel. The rotational spin causes torque and muzzle rise on the front of the weapon. The W.A.S.P. fore grip provides a preloaded downward force via the thumb paddle, which acts as an off-set cantilever, providing a mechanical advantage. This directional force specifically counters barrel flip and muzzle rise. As such, the W.A.S.P. fore grip is a force multiplier, as it applies one energy in two directions of movement *before* the weapon is fired.

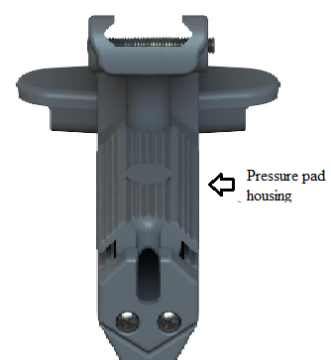
Rearward Recoil

Reward recoil occurs when the round is discharged and the opposing energy is directed along the barrel axis into the shooter's body. The W.A.S.P. forward grip's contoured index finger placement allows the shooter to maintain a parallel alignment with the bore axis to the body. The W.A.S.P. forward grip's thumb paddle and index finger retention surface work in concert to maintain control over all three axes while the weapon is being fired.



Pressure Pad Keeper

The W.A.S.P. forward grip is designed with an integrated pressure pad keeper. The pressure pad keeper provides an indexing point of location for the operator in complete darkness. The activation mechanism can only be



indexed intentionally. As such, the pressure pad keeper prevents accidental flash that would give away a soldier's location while in combat. The pressure pad keeper also prevents accidental activation while in storage, reducing costs in batteries and increasing reliability.

Weapon Malfunction and Manipulation

The thumb paddle and the other features of the W.A.S.P. forward grip provide unique front-of-weapon operation and control. This front-of-weapon control allows the operator to utilize the non-dominant hand for control of the weapon, while allowing the dominant hand to perform tasks that require greater coordination. As such, the dominant hand is freed to clear obstacles, access secondary weapons, and clear malfunctions.

Clearing Malfunctions

The W.A.S.P. forward grip provides the ability to pull the weapon into the body securely and rotate the weapon with the non-dominant hand while observing the breach. Accordingly, the W.A.S.P. forward grip allows the operator to use the dominant hand to clear malfunctions, while keeping the muzzle downrange.



Clearing Your Environment

When an operator transitions through combat environments, there are physical barriers to movement. The W.A.S.P. forward grip provides total control over the front of the weapon with the non-dominant hand, allowing the dominant hand to safely clear fouling hazards, reducing injuries and the risk of accidental discharge (A.D.).

Weapons Retention and Transition

The thumb paddle, index finger, and lower cradle provide a 3-surface contact, which provides controlled multi-directional rotation at the front of the weapon. Particularly in close-quarters, the operator must have the ability to maintain muzzle control, while transitioning to a secondary lethal or less-than-lethal weapon. The operator's dominant hand is also free to engage an assailant, while the non-dominant hand maintains control of the weapon. The W.A.S.P. forward grip allows this transition to be seamless, while maintaining the weapon securely.



Summary

The innovative and patented design of the “Weapons Ambidextrous Stabilization Platform” (W.A.S.P.) forward grip gives the user more control at the front of the weapon, providing greater stability and accuracy than any forward grip on the market. This control enables unique weapons mechanics, giving an operator significant advantages in the field.

Patents

US 9,696,111

USD786383

USD786384

USD790650

USD790651

Additional Information Online

www.forcexdesign.com

https://youtu.be/Xz6hZ2_RauQ

<https://youtu.be/S-0pL0izeIA>

The W.A.S.P. is manufactured in the United States by FXD, LLC, an Austin, Texas based company.

Contact

M Ben Saadon

(512) 677-7393

ben@forcexdesign.com