



SWITCHBLADE[®]

MODULAR PACK SYSTEMS



SWITCHBLADE PRODUCT BRIEFING 2021

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CATOMA[®]

SWITCHBLADE CONCEPT - A LOAD CARRIAGE SYSTEM

- Goal: To enhance soldier lethality and efficiency by providing a modular ecosystem of load carriage that can meet a variety of mission-specific needs.
- Method: A single frameset can be inserted into a variety of well-designed load carriage items (a 45L rucksack, a 62L rucksack, a 90L rucksack, a 120L rucksack, and a Molle Panel), providing a single kit that could support any duration of mission. Furthermore, the two smaller rucksack sizes can be “stacked” over the Molle Panel, allowing a user to customize the Molle panel for mission-specific gear (M240 ammo trays, Mortar Cannon, Comms Equipment, etc) while keeping personal sustainment in a separate, removable pack.
- Advantages: Ability to customize load for mission and MOS. Ability to carry previously cumbersome items like pelican cases, cannons, comms, and batteries more ergonomically and efficiently, maintaining mobility. Ability to stow personal sustainment gear behind and proceed to firing position with only weapon-specific gear. Vital gear can be accessed more quickly, making position setup and displacement more timely, efficient, and lethal.
- End State: A diverse fleet of these packs could be issued to every BCT to outfit every soldier with exactly the components they need to complete any variation of their specific mission with exactly the gear they need organized more efficiently and worn more ergonomically. Common, interchangeable parts and components could create a more flexible, more effective, and more easily trainable ecosystem of load carriage, replacing the one-item, one-job rucksacks being fielded today.

SWITCHBLADE HISTORY

- Originally designed for 75th Ranger. They bought an early version, but got us started in the right direction. When we got to line units we realized this system could be so much more to so many more MOS if we leaned in on the Modularity capability we had developed.
- Built on the Granite Gear CHIEF Framesheet, which Catoma co-owns and still holds Patents on. Held Patrol Pack size of SPEAR contract with Granite Gear Chief Patrol.
- When transitioning to Conventional units, we had to adjust format some, and the Switchblade “Systems” were born. 25th ID saw great potential to solve existing needs and purchased the capability before product was even ready for production, around 2017. They provided product input and feedback while we finished the design.
- Soldier Enhancement Program through Natick ran the Switchblade against Bulldog’s Mortar Pack Solution with results showing the Switchblade as the clear solution.
- Ft Belvoir translated a successful SEP into NSNs for almost the whole system as presented. We still lack a few NSNs within the system, but all products are available through the TLS system as COTS items. Ask your preferred TLS vendor about our products and they can help you get the process started.
- The packs are not currently jump-certified, but we are working on avenues to the process now. If you have a way to help us initiate or expedite this process for any branch, please reach out. We would love to work with you humbly and effectively to get this capability added to this system to better support the guys.
- The future of the Switchblade system is in support of specialty MOS that have irregular items to carry. If you have advice or intel on a capability gap in need of a solution, please reach out.

SWITCHBLADE MODULAR DESIGN FRAMESET



FRAMESET FEATURES

- Weighs 3 lbs.
- Can be inserted into any of our load carriage options.
- Fully modular for fitment and replacement parts.
- Carbon Fiber Framesheet is about as Joe-proof as possible.
- Removable Frame Pad makes room for rear armor plates.
- Pivoting shoulder straps and waistbelt for maximum maneuverability.
- Connector pins are made into the shoulder straps and waistbelt so they won't get lost.
- Fully adjustable torso length and height fits 95%.
- Waistbelt sized for 30"- 42".
- Recent design tweaks for better fit and function.

SWITCHBLADE MODULAR DESIGN FRAME INSERT



Frameset can be loaded onto any of the load carriage options in just a few minutes

1. Insert framesheet as shown
2. Tuck tail retainer through framesheet
3. Buckle load lifter straps at top of frame
4. Buckle belt stabilizer straps
5. Buckle shoulder straps to waist belt

SWITCHBLADE MODULAR DESIGN
CURRENT LOAD CARRIAGE OPTIONS - FRAMESET COMPATIBLE

MOLLE PANEL



13" x 23" MOLLE Field
2 lbs. 9 oz without frameset
Strong internal supports
Significant sewing reinforcement
Combination of 500D and 1000D

RAID PACK



45 Liter / 2800 in3
3 lbs. 3 oz without frameset
Front Opening Only
Internal Storage and Compression
Dual Hydration Pouches

ASSAULT PACK



62 Liter / 3800 in3
3 lbs. 12 oz without frameset
Front and Top Opening
Removable / Adjustable Lid
Dual Hydration Pouches

SWITCHBLADE MODULAR DESIGN

CURRENT LOAD CARRIAGE OPTIONS - SUPPORT COMPONENTS



BARREL QUIVER

3.00 lbs.

Unique component to carry M240 weapons accessories including spare barrels, hot or cold.



300-ROUND 240 POUCH

1.90 lbs.

Carries 300 rounds of belted 7.62 ammo and mounts on the MOLLE Panel up to 4 units wide.



X-FLAP IRREGULAR ITEM CARRIER

0.55 lbs.

Designed to carry Mortar Base-plate but can be used for attaching many irregular items.



Pair Installed on MOLLE Panel

WR (WEAPON RETENTION) STRAPS

0.10 lbs.

Versatile attachment item that can be mounted vertical, horizontal, or diagonal for carrying a variety of irregular items, including mortar cannons, tripods, and long guns.



HYDROSLEEVE

0.35 lbs.

Easily attachable sleeve for carrying a hydration bladder anywhere on the system that suits the end user.



LARGE MUNITION POUCH

0.85 lbs.

Carries 4 60mm Mortar rounds, 3 Gustaf rounds, or 3 81mm Mortar rounds and attaches to the MOLLE panel horizontally or vertically. Stackable, expandable.



SMALL MUNITION POUCH

0.50 lbs.

Designed to carry Mortar Base-plate but can be used for attaching many irregular items.

SWITCHBLADE MODULAR DESIGN

FUTURE LOAD CARRIAGE OPTIONS - FRACTION POUCHES (AVAILABLE 2021)



**ONE-HALF
FRACTION POUCH™**
13"x 11.5"x 3.5"



**ONE-FOURTH VERTICAL
FRACTION POUCH™**
6.5"x 11.5"x 3.5"



**ONE-FOURTH HORIZONTAL
FRACTION POUCH™**
13"x 6"x 3.5"



**ONE-EIGHTH
FRACTION POUCH™**
6.5"x 6"x 3.5"



**7 ONE-THIRD HARD TOP
FRACTION POUCH™**
13"x 7.5"x 5"



**ONE-THIRD
FRACTION POUCH™**
13"x 7.5"x 3.5"



**ONE-SIXTH
FRACTION POUCH™**
6.5"x 7.5"x 3.5"



**SLIM VERTICAL
FRACTION POUCH™**
4"x 18"x 3.5"



The pouches can be used to divide up the 23"x13" MOLLE Panel into endless combinations of load carriage possibilities. Seen here used with the X-flap (far left) and WR straps (far right) for carrying bulky or elongated items.



The stacking capability of the Switchblade is ideal for turning this suite of deceptively simple pouches into a workhorse load carriage system.

SWITCHBLADE MODULAR DESIGN MOLLE PANEL CAPABILITY



The MOLLE Panel offers the capability of carrying any mission-specific gear for many specialty MOS.

SWITCHBLADE MODULAR DESIGN STACKING CAPABILITY



This is achieved through the grid system of unbuckles that allow components to be stacked, giving the user the capability to carry a Raid pack with their personal equipment..



SWITCHBLADE MODULAR DESIGN MULTIPLE COMPONENT STACKABILITY



The grid system also offers one more set of loops that can be loaded with snap-on buckles for the stacking of another set of components. In this case, the Spare Barrel Quiver for the M240 AG is attached in addition to the Raid pack for personal sustainment.

SWITCHBLADE MODULAR DESIGN

FLAGSHIP COMBINATION: M240 MACHINE GUN TEAM SYSTEM



M240 GUNNER PACK KIT

Carries weapon in hand with Personal Sustainment gear and more carried in an Assault pack.



M240 ASSISTANT GUNNER PACK KIT

Carries 600 rounds of ammo, spare barrels (hot or cold), and weapon tripod. Personal Sustainment gear is carried in a Raid pack.

M240 AMMO BEARER PACK KIT

Carries 600 rounds of ammo with room for additional ammo pouches. Personal Sustainment gear is carried in a Raid pack.

SWITCHBLADE MODULAR DESIGN

FLAGSHIP COMBINATION: MORTAR MACHINE GUN TEAM SYSTEM

MORTAR GUNNER PACK KIT

Carries the mortar cannon, and spare ammo in a pair of Small Munitions pouches. Personal Sustainment gear is carried in a Raid pack.

MORTAR ASSISTANT GUNNER PACK KIT

Carries the mortar bipod and spare ammo in a pair of Small Munitions pouches. Personal Sustainment gear is carried in a Raid pack.

MORTAR AMMO BEARER PACK KIT

Carries mortar ammo in a pair of Large Munitions Pouches and Mortar Baseplate on the outside of the system using the X-Flap. Personal Sustainment gear is carried in a Raid pack.

SWITCHBLADE MODULAR DESIGN NOT JUST HEAVY WEAPONS



While simple in concept, the MOLLE Panel component of the Switchblade System is a powerful capability multiplier, and opens the door for a huge number of possible mission support scenarios.



The new line of Fraction Pouches make the MOLLE Panel a more functional platform for additional MOS who may carry irregular equipment like EW, JTAC, Comms, Sappers, Scouts, etc.



The Assault pack of the Switchblade System offers an excellent standard rucksack solution for all infantry personnel, and the modularity aspect makes replacing parts and expanding the system more fluid.

SWITCHBLADE MODULAR DESIGN

ONE SOLUTION FOR ALL MISSIONS



SINGLE FRAMESET, ALL LOADS

The ability to purchase one frameset and multiple different bags and carriage solutions means the Switchblade could offer significant cost savings at the institutional level. It also means less bulk in your warehouse / storage locker.

SWITCHBLADE MODULAR DESIGN

MANY SOLUTIONS IN ONE SYSTEM



Reach out to us to build the kits that best suit the needs of your mission and your team today. Email Catoma's Business Development Rep Stone Hazlett at shazlett@catoma.com for more information.

SWITCHBLADE NSN MASTER LIST

SYSTEMS

CAGE CODE	PART NUMBER	ITEM NAME	FSC	NIIN	AAC	FULL NSN
1U7D0	98720-MC	M240 PACK SYS 2 MAN	1095	016795467	H	1095-01-679-5467
1U7D0	98725-MC	M240 3 MAN SYS	1095	016818668	H	1095-01-681-8668
1U7D0	98750-MC	MORTAR 61MM SYS	1095	016796247	H	1095-01-679-6247
1U7D0	98571-MC	MORTAR 81MM SYS	1095	016796268	H	1095-01-679-6268
1U7D0	98760-MC	GUSTAF, TEAM SYSTEM	1095	016818914	H	1095-01-681-8914
1U7D0	98790-MC	SNIPER WEAPON SYS	PENDING			

KITS

CAGE CODE	PART NUMBER	ITEM NAME	FSC	NIIN	AAC	FULL NSN
1U7D0	98722-MC	M240 Assistant Gunner	1095	016795480	H	1095-01-679-5480
1U7D0	98721-MC	M240 Gunner Pack	1095	016795475	H	1095-01-679-5475
1U7D0	98727-MC	M240 AMMO KIT	1095	016818873	H	1095-01-681-8873
1U7D0	98752-MC	MORTAR GUNNER KIT	1095	016795616	H	1095-01-679-5616
1U7D0	98753-MC	MORTAR Assistant GUN KIT	1095	016796303	H	1095-01-679-6303
1U7D0	98754-MC	AMMO BEARER KIT	1095	016796350	H	1095-01-679-6350
1U7D0	98762-MC	GUSTAF ASST GUN KIT	1095	016818641	H	1095-01-681-8641
1U7D0	98761-MC	GUSTAF, GUNNER KIT	1095	016818650	H	1095-01-681-8650
1U7D0	98706-MC	SNIPER WEAPON KIT	1095	016818953	H	1095-01-681-8953
1U7D0	98792-MC	THERMAL SHROUD ICS KIT	PENDING			

CONTINUED >

SWITCHBLADE NSN MASTER LIST

COMPONENTS

CAGE CODE	PART NUMBER	ITEM NAME	FSC	NIIN	AAC	FULL NSN
1U7D0	98669-MC	SWITCHBLADE FRAMESET	PENDING			
1U7D0	98658	ASSAULT WEAPON PACK	PENDING			
1U7D0	98656	RAID ASSAULT WEAPON PACK	1095	016818332	H	1095-01-681-8332
1U7D0	98651	MOLLE WEAPON PANE	1095	016818345	H	1095-01-681-8345
1U7D0	64509-ABL-MC	M240 100RD TRAY	1095	016818972	H	1095-01-681-8972
1U7D0	98641	M240 300RD TRAY	1095	016818655	H	1095-01-681-8655
1U7D0	98630-FLAP-MC	M240 BARREL QUIVER	1095	016818367	H	1095-01-681-8367
1U7D0	64509-HP-MC	HYDRO SLEEVE	1095	016818933	H	1095-01-681-8933
1U7D0	98646-MC	MORTAR MUNITION CAR	1095	016818351	H	1095-01-681-8351
1U7D0	98645-MC	MORTAR MUNITION CAR	1095	016818342	H	1095-01-681-8342
1U7D0	98675	WPN RETENTION STRAP	1095	016818568	H	1095-01-681-8568
1U7D0	98666	MOTAR BASEPLATE CAR	1095	016818628	H	1095-01-681-8628



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