



TABLE OF CONTENT

SAFETY	
	74
WARNINGS	4
DT & HTI PRESENTATION	5
BOX CONTENT	6
GUN DESCRIPTION	
ASSEMBLY	7
HOPUP	7
BOLT	7
RAILS	8
BARREL SWAP	
SETTINGS	
HOPUP	10
TRIGGER GROUP	
CHEEKPAD	11
OPERATION	12
SAFETY	
MAGAZINE	12
SH00TING	
MONOPOD	
MAINTENANCE.	
GREASING/OILING.	14
CLEANING (BARREL/HOPUP)	17
STORAGE	14
OPTIONAL PARTS & ACCESSORIES	15
EXPLODED VIEWS	19
PARTS LIST	19 19
PARTS LIST NOMENCLATURE	19 19 20
PARTS LIST NOMENCLATURE CHASSIS.	19 19 20 21
PARTS LIST NOMENCLATURE CHASSIS. BARREL	19 19 20 21 21
PARTS LIST NOMENCLATURE CHASSIS. BARREL STOCK.	19 19 20 21 21 21
PARTS LIST NOMENCLATURE CHASSIS. BARREL STOCK BUTTPLATE	19 19 20 21 21 21 21 22
PARTS LIST NOMENCLATURE CHASSIS. BARREL. STOCK. BUTTPLATE. BOLT.	19 19 20 21 21 21 22 22
PARTS LIST NOMENCLATURE CHASSIS. BARREL STOCK. BUTTPLATE. BOLT. MAGAZINE.	19 19 20 21 21 21 22 22 22 22
PARTS LIST NOMENCLATURE CHASSIS. BARREL. STOCK. BUTTPLATE. BOLT. MAGAZINE. PISTON.	19 19 20 21 21 21 22 22 22 22 23
PARTS LIST NOMENCLATURE CHASSIS. BARREL STOCK. BUTTPLATE. BOLT. MAGAZINE. PISTON. SPRING GUIDE.	19 19 20 21 21 21 22 22 22 22 23 23
PARTS LIST NOMENCLATURE CHASSIS. BARREL STOCK BUTTPLATE BOLT MAGAZINE PISTON. SPRING GUIDE TRIGGER GROUP	19 19 20 21 21 21 22 22 22 22 23 23
PARTS LIST NOMENCLATURE CHASSIS. BARREL STOCK BUTTPLATE. BOLT. MAGAZINE. PISTON. SPRING GUIDE. TRIGGER GROUP. MAGCATCH SYSTEM.	19 19 20 21 21 21 22 22 22 22 23 23 23 24
PARTS LIST NOMENCLATURE CHASSIS BARREL STOCK BUTTPLATE BOLT MAGAZINE PISTON SPRING GUIDE TRIGGER GROUP MAGCATCH SYSTEM MONOPOD	19 19 20 21 21 21 22 22 22 23 23 24 24
PARTS LIST NOMENCLATURE CHASSIS. BARREL. STOCK. BUTTPLATE. BOLT. MAGAZINE. PISTON. SPRING GUIDE. TRIGGER GROUP. MAGCATCH SYSTEM. MONOPOD. SPECIFICATIONS.	19 20 21 21 21 22 22 22 22 23 23 23 24 24 24
PARTS LIST NOMENCLATURE CHASSIS BARREL STOCK BUTTPLATE BOLT MAGAZINE PISTON SPRING GUIDE TRIGGER GROUP MAGCATCH SYSTEM MONOPOD SPECIFICATIONS MATERIALS	19 19 20 21 21 21 22 22 22 23 23 23 24 24 25
PARTS LIST NOMENCLATURE CHASSIS. BARREL. STOCK. BUTTPLATE. BOLT. MAGAZINE. PISTON. SPRING GUIDE. TRIGGER GROUP. MAGCATCH SYSTEM. MONOPOD. SPECIFICATIONS.	19 20 21 21 21 22 22 22 22 23 23 23 24 24 24

READ THIS MANUAL CAREFULLY AND TOTALY BEFORE USE, users should obey to laws regarding usage and ownership of airsoft guns in their country. Misuse or careless use may cause serious injury. Always treat airsoft gun as if it is loaded and with the same respect as you would treat a firearms. Don't look into the airsoft gun muzzle. Never point the airsoft gun at something you don't intend to shoot. Users should always wear safety glasses. Always carry this airsoft gun in a bag or a case and never display it in public places. Always keep the airsoft gun on "safe" position until ready to shoot in a safe direction. Always check that the airsoft gun is on "safe" position and unloaded when getting it from another person or from storage. Don't put the airsoft gun away or in storage while loaded. Don't shoot at hard surfaces or at a water surface as bbs could bounce or ricochet and hit someone or something you were not intending to hit. Always use high quality 6mm plastic bbs and never use already shot bbs, it might damage your airsoft gun. Always store this airsoft gun in a secure position, out of reach of children. Don't modify or alter your airsoft gun, attempt to modify the airsoft gun may make you airsoft gun unsafe to use and/or cause serious injury and/or void the warranty. WE'RE NOT RESPONSIBLE FOR ANY MALFUNCTION, ACCIDENTS, INJURIES OR REPAIR COST RESULTING FROM MISUSE, DISASSEMBLY AND/OR MODIFICATION OF THIS AIRSOFT GUN.



- Take care of the feeding tube during barrel change to avoid to damage it.
- Do not overtight M3X4 hopup screws or you will damage hopup rubber.
- In case of complete inner barrel disassembly, do not overtight lateral screws or you will damage the inner barrel.
- Do not pull the trigger while the bolt is not not locked or you will damage the mechanism.
- Excessive trigger sear preload will generate safety problems and probably slam-fire problems.
- Excessive dual stage adjustement will generate safety problems and probably slam-fire problems.
- Do not overload the magazine or you will damage magazine spring.
- Do not blank fire without barrel assembly or you will damage the mechanism.
- Do not fire if barrel is not properly secured. We recommend 8 Nm torque on the 4 M6X16 screws.
- For storage, keep steel parts greased to avoid rust.
- Do not use the gun without greasing the outside of the bolt (except the nozzle).
- Do not aply any grease/oil inside the hopup and/or the barrel.
- If you're using long knurled hopup screws, you have to remove them before to remove the barrel.
- Keep the bolt closed during barrel changes to ensure perfect bolt/barrel alignement.
- Be sure no bbs are remaining in the hopup and feeding tube before removing a barrel.



DESERVECH® TOMORROWS WEAPONS

Desert Tech, formerly Desert Tactical Arms, has been building a better rifle since 2007 when we realized the demands of future battlefields exceeded the capabilities of current platforms. We decided then to build our rifles more accurate, more compact, more convertible for an increasingly complex world.

Our R&D department is tasked daily to fuse ground-breaking engineering with American ingenuity so that skilled machinists on state-of-the-art mills and lathes can shape battle-tested materials into Tomorrow's Weapons. Each Desert Tech rifle that enters our network of nationwide dealers and international distributors is both ergonomically and ballistically superior to any other production rifle on the planet.

Desert Tech also offers select, premium, match-grade munitions as well as world-class precision instruction across the 25,000 acres of natural terrain and sophisticated training bays at our private facility. These features compliment a complete package of detail-driven customer service for the modern-day warrior, hunter or competition shooter who demands peak performance with each and every trigger press of a Desert Tech SRS, Covert, HTI or MDR.

From concept to recoil, we are creating uncommon and uncompromising firearms with the sole intent of arming serious shooters to the very edge of their abilities and beyond. At Desert Tech, we're building Tomorrow's Weapons and it begins with a better rifle today.

DESIGNED INNOVATION

The Hard Target Interdiction rifle was designed and built at specific military customer request to provide extreme long range accuracy with irrevocable penetration. Easily convertible between multiple big-bore calibers, the HTI is accurate to 2000+ yards with any of its chamberings. Whether you're stopping light-skinned vehicles or extending personal-best distance records, the HTI provides extreme distance capabilities in the most compact, accurate and convertible package on earth.

COMPACT

The perfectly-balanced bullpup configuration of the HTI makes it 11 inches shorter and 11 pounds lighter than the M107 currently in use by the US Army.

ACCURACY

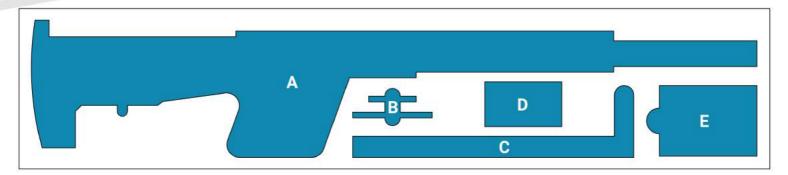
The HTI maintains exceptional accuracy because of its match-grade (free-floated) barrels, chambers and crowns, a high-quality match trigger, and solid return-to-zero barrel mounting system.

CONVERTIBLE

The HTI offers four powerful calibers to suit specific mission requirements: .375 CT, .408 CT, .416 Barret & .50 BMG. Caliber conversions for the HTI take sixty seconds and use the same HTI chassis with its free floated barrels and patented return-to-zero barrel mounting system.

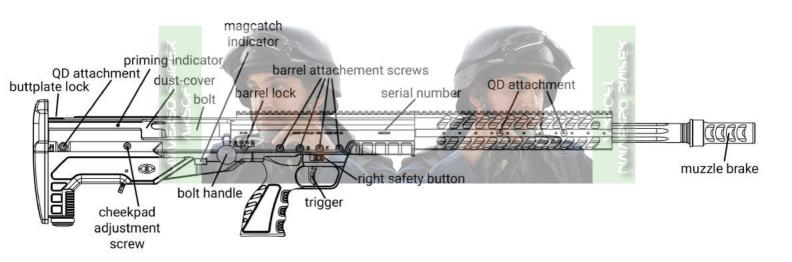
Nicholas & Jour

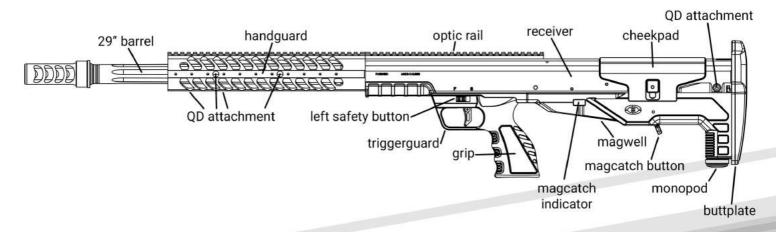
BOX CONTENT



- A: HTI chassis with .50 BMG 29" barrel assembled
- B: Additional Nylon rail (2 short, 1 long)
- C: Spring guide, spring, piston, bolt
- D: Tools set, screws set, grease
- E: Magazine

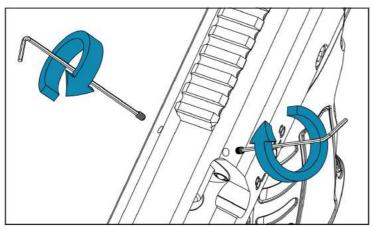
GUN DESCRIPTION



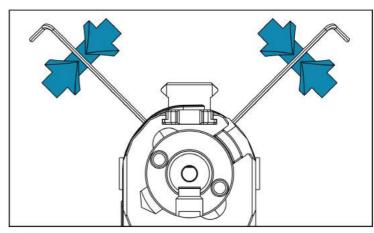


ASSEMBLY

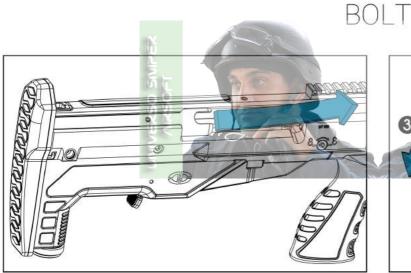
HOPUP



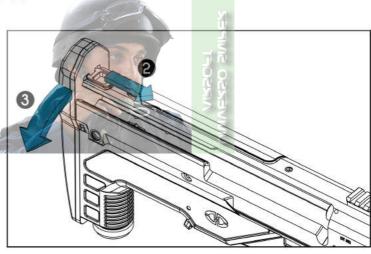
1 Install the two hopup screws (M3x4 ISO 4026 for quick barrel swap with return to zero capacity, or M3X22 ISO 4762 for tool-less hopup adjusment capacity) from the screws set bag.



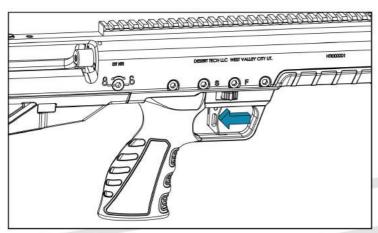
2 Finely tune the hopup setting (flat hopup rubber as shown here). 1 Excessive hopup setting could lead to jamming and/or damage the rubber.



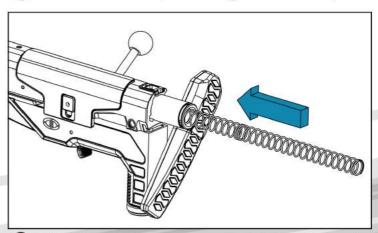
1 Remove the dust-cover (slide it forward).



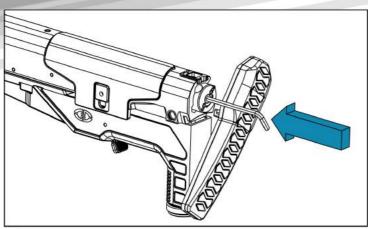
2 Slide forward the buttplate lock. 3 Rotate the buttplate.



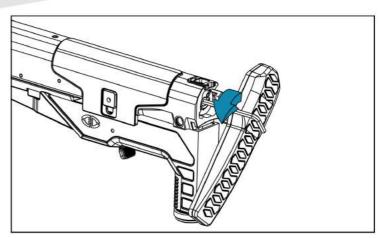
4 Pull and hold the trigger.



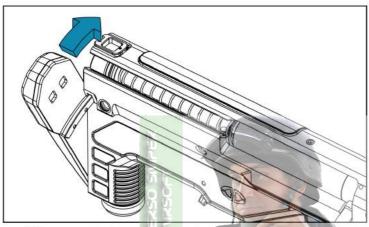
5 While pulling the trigger, engage the bolt, the piston and the spring inside the receiver.



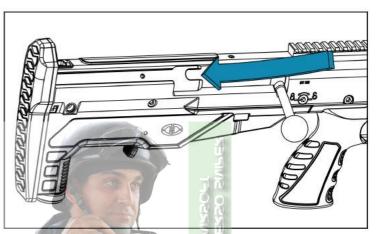
6 Compress the spring by pushing the spring guide inside the receiver 1 Make sure to perfectly align the spring guide lugs with the lug groves.



7 Turn the spring guide 1/8 counter clockwise to lock it, then release the pressure.

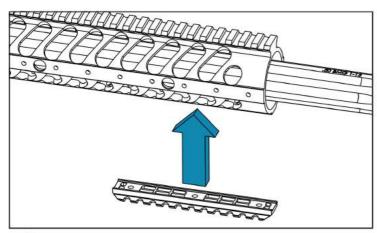


8 Rotate the buttplate and close it until the buttplate lock engages the buttplate.

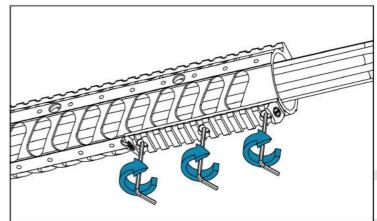


Slide the dust cover backward in place.

RAIL

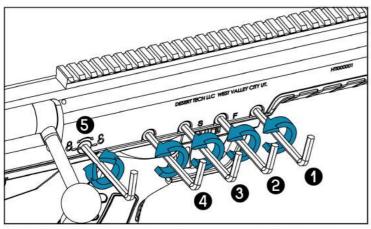


1 Install the rail on the handguard in the desired position.



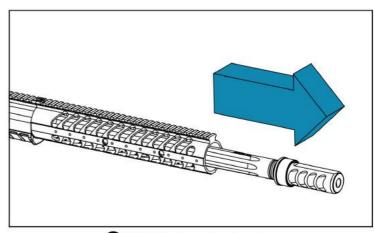
2 Secure the rail using M4x10 screws (2 screws for short rail, and 3 screws for long rail) from the screw set bag.

BARREL SWAP



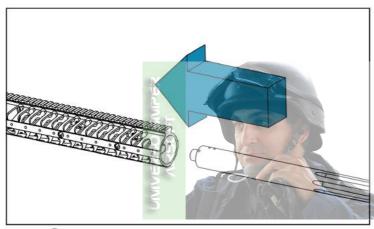
Untight the 4 barrel clamping screws, starting from the muzzle side 1234 up to the bolt side.

5 Rotate the barrel lock to the «UNLOCK» position.



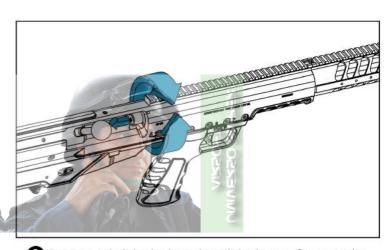
Slide the barrel outward.

Make sure the magazine is not engaged, and the feeding tube is empty.



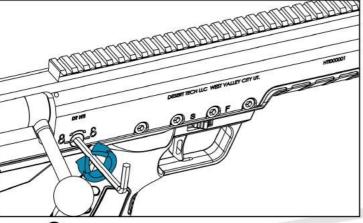
Gently insert the barrel inside the receiver.

Make sure the barrel lock is on «UNLOCK» position, the magazine is disengaged, and the feeding tube is empty.



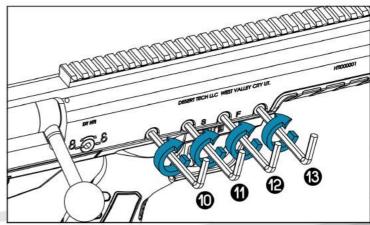
8 Rotate and slide the barrel until the hopup fits onto the feeding tube.

Do not apply excessive force on the feeding tube.



Rotate the barrel lock to the «LOCK» position.

Close the bolt to ensure
perfect nozzle alignment.

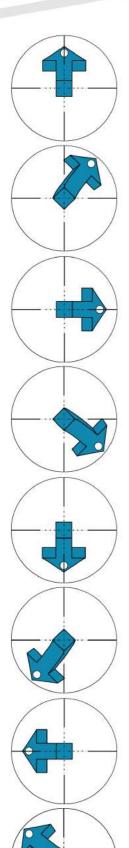


Secure the barrel by tightening the 4 barrel screws, from the bolt side (0 (1) (2) (3) to muzzle side.

Recommended torque: 8Nm.

SETTINGS

HOPUP



Case #1: too much hopup effect without side spin: loosen both hopup screws equally.

Case #2: too much hopup effect with right side-spin: loosen right side hopup screw.

Case #3: good hopup effect with right side-spin: loosen right side hopup screw, tighten left side hopup screw.

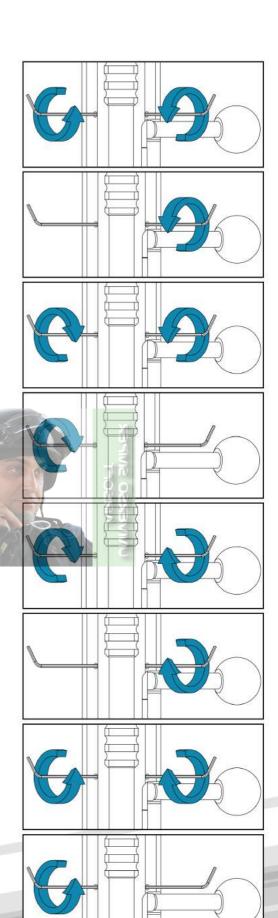
Case #4: not enough hopup effect with right side-spin: tighten left side hopup screw.

Case #5: not enough hopup effect without side-spin: tighten both hopup screws equally.

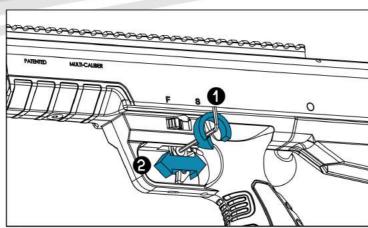
Case #6: not enough hopup effect with left side-spin: tighten right side hopup screw.

Case #7: good hopup effect with left side-spin: tighten right side hopup screw, loosen left side hopup screw.

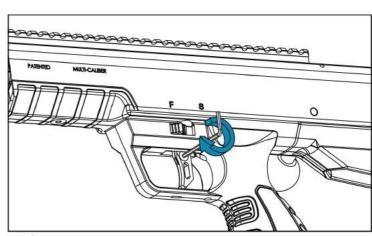
Case #8: too much hopup effect with left side-spin: loosen left side hopup screw.



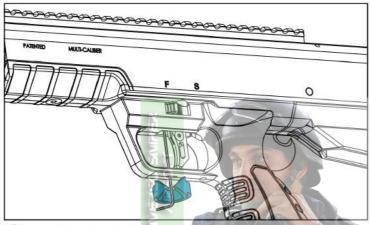
TRIGGER GROUP



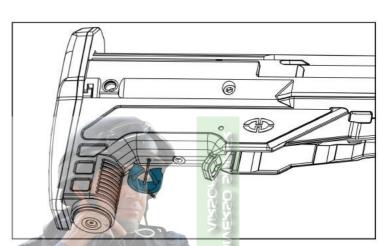
1 To adjust the trigger position, loosen the M4X6 trigger screw. 2 Slide the trigger forward or backward to the desired position. Excessive backward trigger position could block the trigger movement.



3 Tighten the M4X6 trigger screw to lock the position of the trigger.

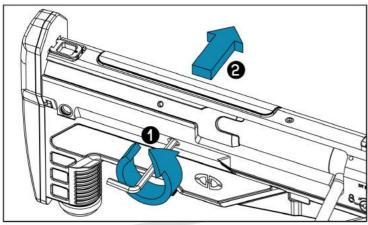


To reduce the dual stage travel, tighten the M3x12 trigger screw. To increase dual stage travel, loosen the M3X12 trigger screw. Excessive short dual stage travel will affect the piston sear preload, disable the safety, and disable safe piston sear action.

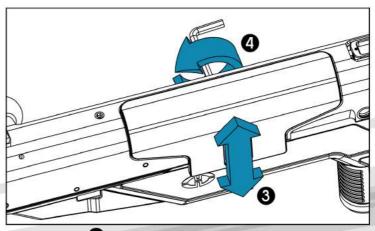


5 To increase piston sear preload, tighten the M3X12 trigger sear screw. To loosen piston sear preload, loosen the M3X12 trigger sear screw. Excessive preload will disable safe piston sear action.

CHEEKPAD



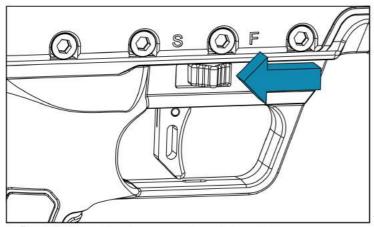
1 Loosen the M6X40 cheekpad screw. 2 Slide the cheekpad outward.



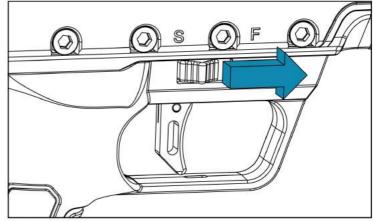
3 Adjust the cheekpad position.
4 Tighten the M6X40 cheekpad screw to lock the adjustment.

OPERATION

SAFETY

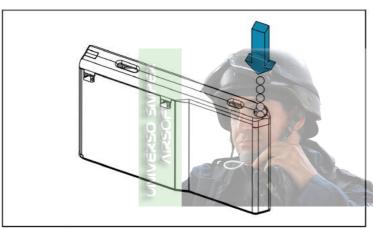


1 Slide the safety button (right or left side) to «S» position to engage the safety.



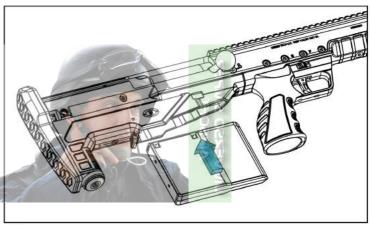
2 Slide the safety button (right or left side) to «F» position to disengage the safety.

MAGAZINE

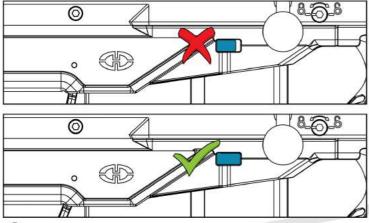


Insert 6 mm bbs inside the magazine, by hand, or using a loader.

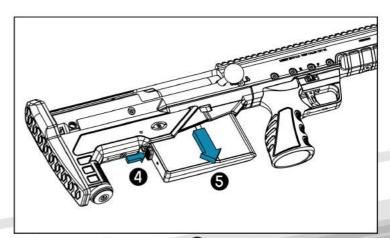
Maximum capacity: 38 bbs with std. follower.



2 Insert the front of the magazine firmly inside the magwell until the magcatch plates lock the magazine in place.



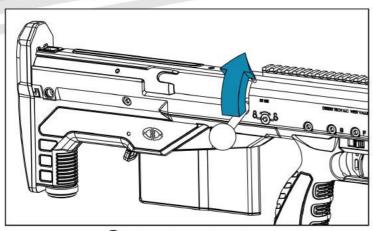
3 Make sure the magcatch plates are in the correct position.



To remove the magazine, 4 press the magcatch button, 5 and pull down the magazine from the magwell.

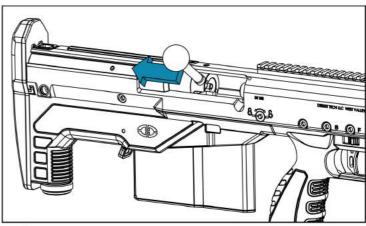


SHOOTING

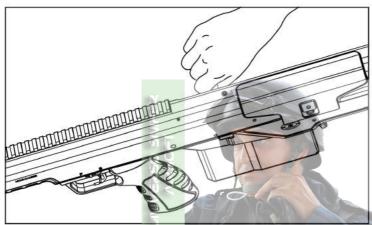


Pull up the bolt handle.

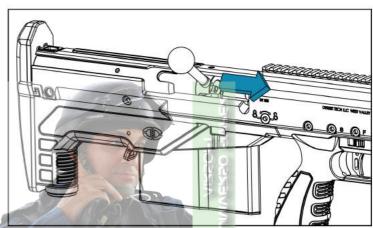
Make sure that the bolt has not yet primed to avoid double feed.



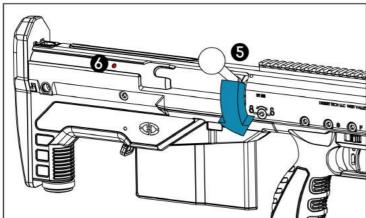
2 Move the bolt backward to compress the spring and lock the piston sear (until it clicks).



3 It is recommended that you pull the bolt by grabbing the bolt as close as possible to the cylinder (To reduce friction and ease priming movement).



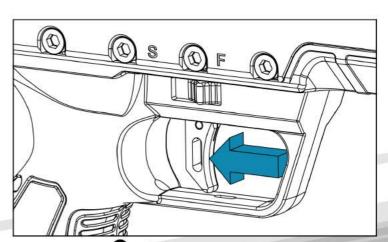
Push foward the bolt to engage a bb inside the hopup chamber.
You can visualy check inside the hopup chamber if your magazine is empty.



S Pull down the bolt handle to lock the bolt in battery.

It is possible to check if the rifle is primed by looking at the load indicator.

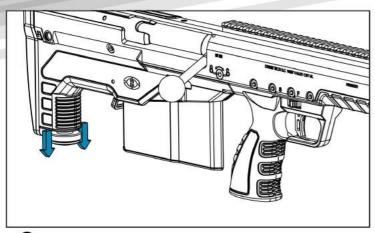
Black color = not primed. Red color = primed.



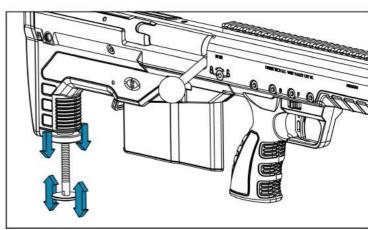
Pull the trigger to shoot.

Be sure the safety is disengaged. Do not shoot without the barrel installed, it will damage the mechanism.

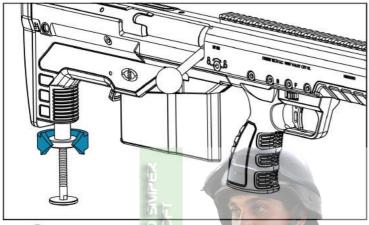
MONOPOD



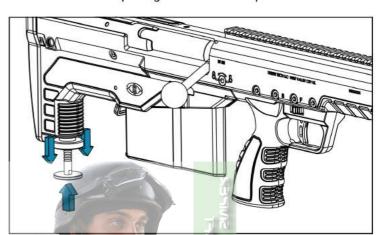
Pull down the monopod knob to extract the monopod.



2 For fast adjustment, push up or down the monopod foot, while pulling down the monopod knob.



3 For fine-tune adjustment, turn the monopod knob clockwise to increase elevation, and counter clockwise to decrease elevation.



4 To return to original retracted position, push up on the monopod foot while pulling down the monopod knob.

MAINTENANCE

GREASING/OILING

Bolt assembly does require regular, de-greasing, cleaning and re-greasing for optimal performance. We recommend you use a silicone based grease with PTFE as provided with your HTI replica. Steel parts need greasing to avoid rust which include: bolt head, QD sling attachment and magcatch plates. Avoid oiling or greasing at any time: nozzle, hopup, inner barrel, and the internals of the magazine. Doing so will affect accuracy and efficiency.

CLEANING (BARREL/HOPUP)

Inner barrel and hop up unit must be perfectly clean to ensure optimum performances and accuracy, we suggest you to use a small cotton ball soaked in a non corrosive solution (alcohol or plastic/rubber friendly degreasing chemical) and push it through the inner barrel with a plastic road from muzzle to hop up. Repeat this operation with a new soaked cotton ball until this one remains clean. We advise you to perform this operation on this airsoft gun before first use.

STORAGE

After use, remove all the bbs from the magazine to relieve pressure on the magazine spring. Make sure the feeding tube is empty. If so, shoot in a safe direction to make sure the hopup chamber is empty. For long term storage, we recommend you to remove the bolt assembly from your replica to relieve pressure on hopup internal orings, ensuring long lasting air seal, and long lasting spring force.

OPTIONAL PARTS & ACCESSORIES

SPRINGS		
SBA-SPR-20	HTI 40 Newton spring	
SBA-SPR-21	HTI 60 Newton spring	
SBA-SPR-22	HTI 90 Newton spring	
SBA-SPR-23	HTI 110 Newton spring	
SBA-SPR-24	HTI 125 Newton spring	
SBA-SPR-25	HTI 155 Newton spring	

MAGAZINE	
SBA-MAG-10	magazine - black - steel
SBA-MAG-11	flexible follower - 5 pcs.
SBA-PCH-03BK	magazine pouch - black
SBA-PCH-03FDE	magazine pouch - FDE
SBA-PCH-030D	magazine pouch - OD

TRIGGER GROUP		
SBA-TRG-02	trigger - dual stage - classic	
SBA-TRG-03	trigger - dual stage - speed	
SBA-TRG-04	trigger - dual stage - match	
SBA-TGS-01	trigger sear	
SBA-PTS-02	piston sear	

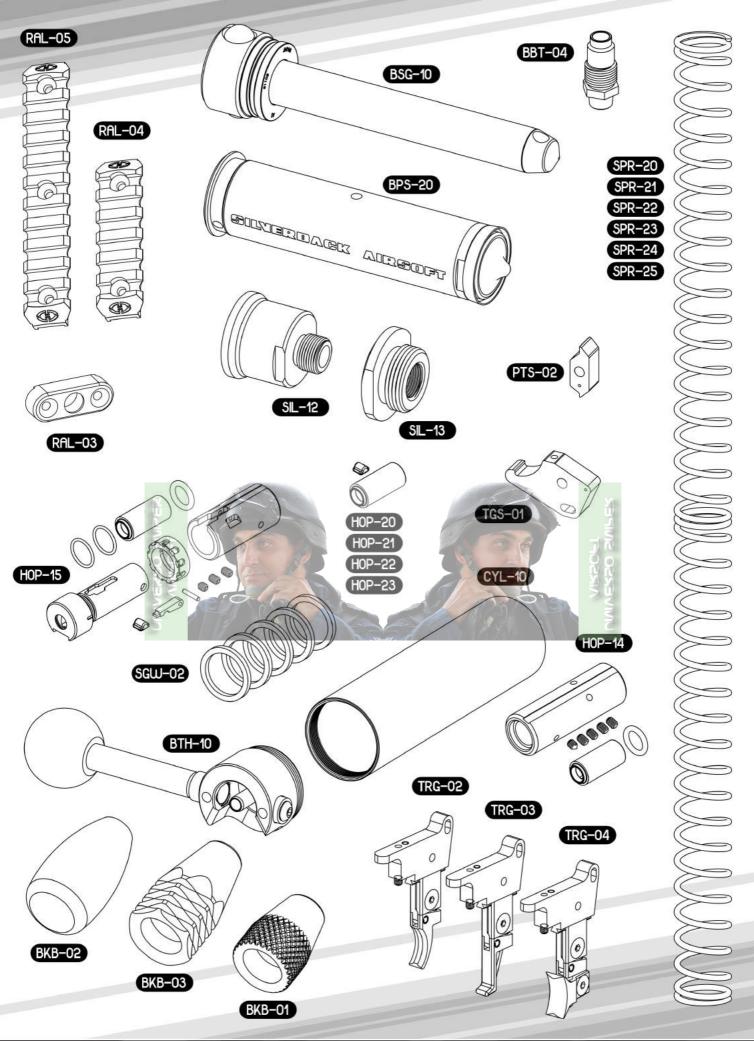
BARREL & MUZZLE DEVICES		
SBA-OBL-30 barrel - 29" fluted50 BMG		
SBA-SIL-10 Elite Iron ALPHA .50 dummy silencer		
SBA-SIL-11 replacement foam for SIL-10		
SBA-SIL-12	M25x1.5 ♀ to M14x1 CCW ♂ adapter	
SBA-SIL-13 M25x1.5 of to M14x1 CCW ♀ adapte		
SBA-FHD-05	muzzle brake50 BMG	

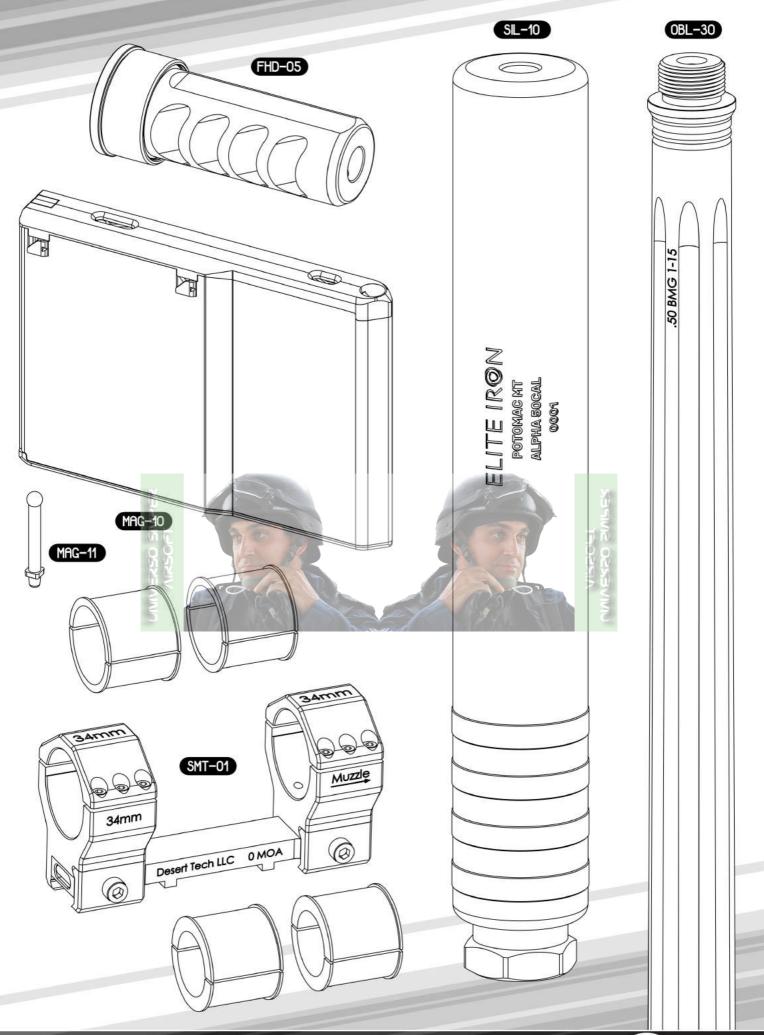
	SCOPE MOUNT	
SBA-SMT-01	DTSM replica with 25/30 mm adapters	

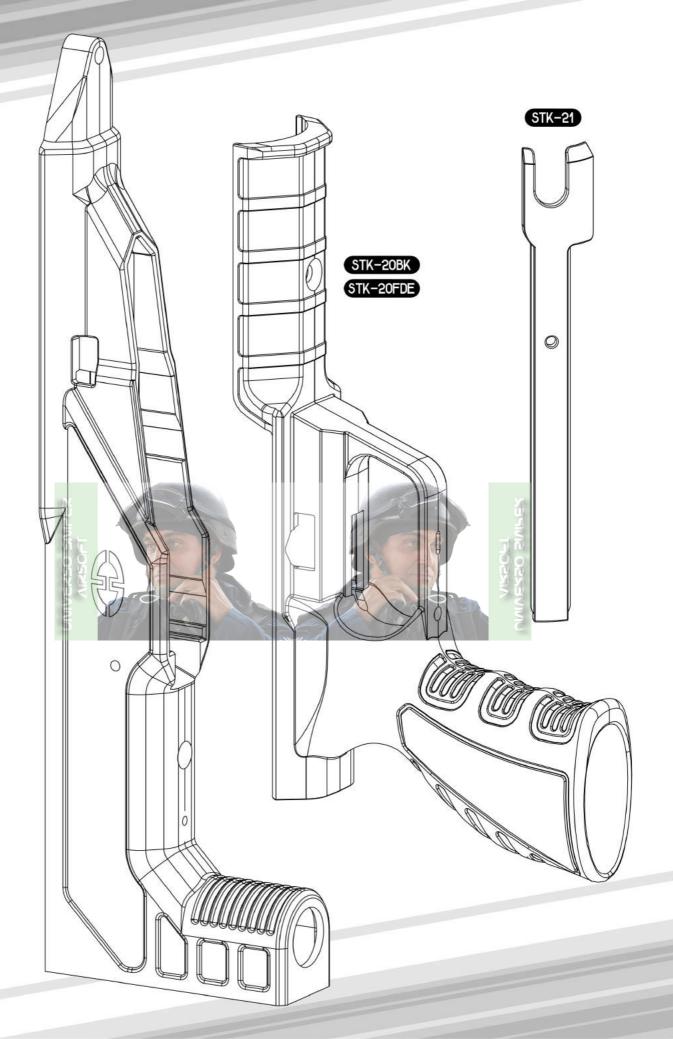
	HOPUP		
SBA-HOP-06	FAST hopbar & pin		
SBA-HOP-14	hopup + SBA-HOP-21		
SBA-HOP-15	FAST hopup + SBA-HOP-21		
SBA-HOP-20	flat rubber 50° + nub		
SBA-HOP-21	flat rubber 60° + nub		
SBA-HOP-22	flat rubber 70° + nub		
SBA-HOP-23	flat rubber 80° + nub		
SBA-HOP-24	SBA-HOP-20 + 21 + 22 +23		
SBA-HOP-25	nub - 2 pcs.		

CHASSIS PARTS & ACCESSORIES		
SBA-BBT-04	feeding tube	
SBA-ORG-02	oring set	
SBA-SST-02	screw set	
SBA-RAL-03	QD mount for handguard	
SBA-RAL-04	handguard rail - short - 3 pcs.	
SBA-RAL-05	handguard rail - long - 1 pc.	
SBA-STK-20BK	HTI spare Nylon stock black	
SBA-STK-20FDE	20FDE HTI spare Nylon stock FDE	
SBA-STK-21	STK-21 HTI dust cover	

BOLT		
SBA-BKB-01 bolt knob - tactical		
SBA-BKB-02	2 bolt knob - match	
SBA-BKB-03	bolt knob - operator	
SBA-BSG-10	spring guide	
SBA-BPS-20	piston	
SBA-CYL-10	cylinder	
SBA-BTH-10	bolt head	
SBA-SPW-02	SPW-02 spring guide preload washers - 5 pcs.	







EXPLODED VIEWS PARTS LIST

HTI-0100 / Chassis		
HTI-0101	receiver	
HTI-0102	handguard	
HTI-0103	barrel lock	
HTI-0104	buttplate lock	
HTI-0105	cheekpad	
HTI-0106	cheekpad nut	
HTI-0107	trigger base	
HTI-0108	dust cover	
HTI-0109	feeding tube - 6 mm	
HTI-0113	buttplate spring	
HTI-0114	QD attachment	
SRS-104	handguard lock	
DTR-0101	long additional rail	
DTR-0102	short additional rail	

HTI-0200 / Barrel		
HTI-0201	outer barrel 29"	
HTI-0202	muzzle brake .50 BMG	
HTI-0203	muzzle brake ring	
HTI-0210	inner barrel 6.05 x 730 mm	
SRS-407	hopup	
SRS-419	hopup ruber - flat - 60°	

	HTI-0300	/Sto
HTI-0301	<u> </u>	grip
HTI-0302	ž.	stock

m i i-0400 / buttpiate				
HTI-0401	buttplate frame			
HTI-0402	buttplate damper			
HTI-0403	buttplate mushroom			
HTI-0404	buttplate bow			

HTI-0500 / Bolt			
HTI-0501	cylinder		
HTI-0502	cylinder head - 6 mm		
HTI-0503	bolt handle		
HTI-0506	bolt lug		
SRS-306	bolt knob		

HTI-0	0600 / magazine
01	magazine shell
02	magazine internal right
03	magazine internal left
05	magazine bbs stopper
HTI-0606 magazine spring guide	
07	magazine follower

HTI-0608	magazine flexible follower
HTI-0609	magazine bbs stopper spring
HTI-0610	magazine follower spring
HTI-0611	magazine plate
HTI-0612	magazine spring guide stopper

HTI-0700 / Piston			
HTI-0701	piston body		
HTI-0702	piston end		
HTI-0703	piston head		
HTI-0704	piston cup		

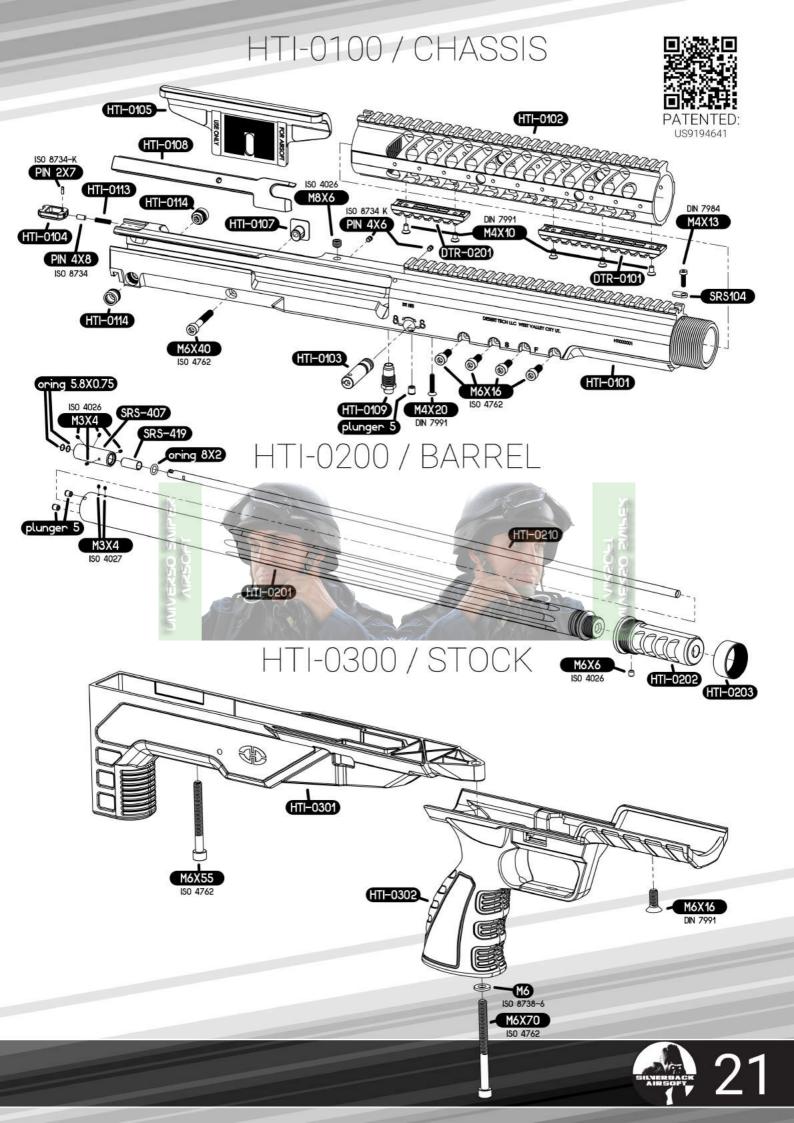
HTI-0800 / Spring guide			
HTI-0801	spring guide base		
HTI-0802	spring guide rod		
HTI-0806	spring guide lug		
HTI-0808	spring guide nut		

HTI-0	900 / trigger group
HTI-0901	sear cage
HTI-0902	trigger sear
HTI-0903	piston sear
HTI-0904	transfer bar
HTI-0905	piston sear spring left
HTJ-0906	piston sear spring right
SRS-110	trigger base
SRS-111	trigger blade
SRS-122	trigger block
SRS-123	safety
SRS-124	safety button
SRS-125	dust cover

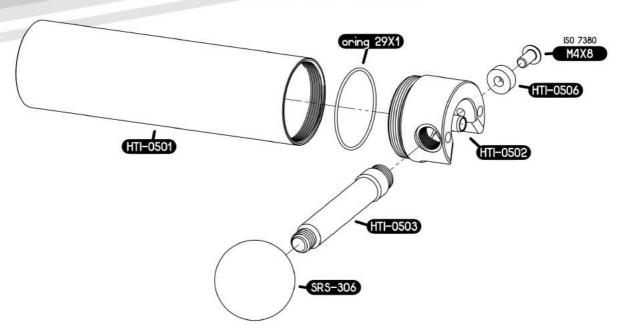
HTI-1000 / magcatch system HTI-1001 magcatch button HTI-1002 magcatch plate HTI-1003 magcatch spring

ווע	//P-U1UU/ Monopod
DTMP-0101	monopod first housing member
DTMP-0102	monopod second housing member
DTMP-0103	monopod third housing member
DTMP-0104	monopod extension shaft
DTMP-0105	monopod footpad
DTMP-0106	monopod spring guide
DTMP-0107	monopod knob
DTMP-0108	monopod hat
DTMP-0109	monopod lock spring
DTMP-0110	monopod extension spring

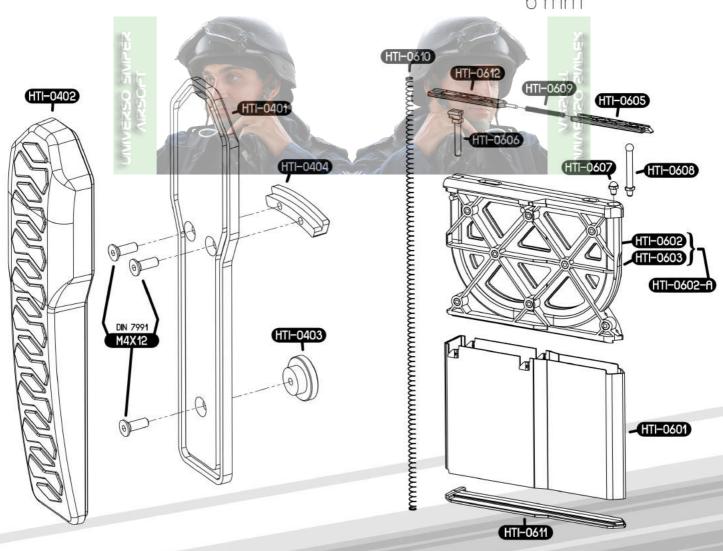
NOMENCLATURE HTI-0200 HTI-0500 HTI-0100 HTI-0700 HTI=0300 HTI-0800 HTI-0600 **&**



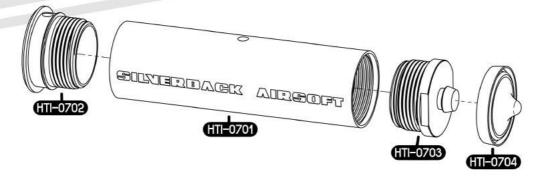
HTI-0500 / BOLT



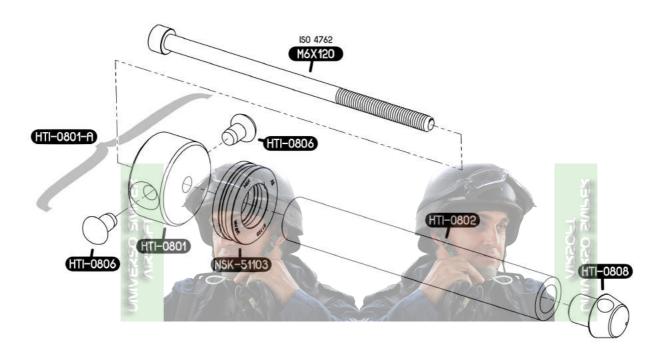
HTI-0400 / BUTTPLATE HTI-0600 MAGAZINE



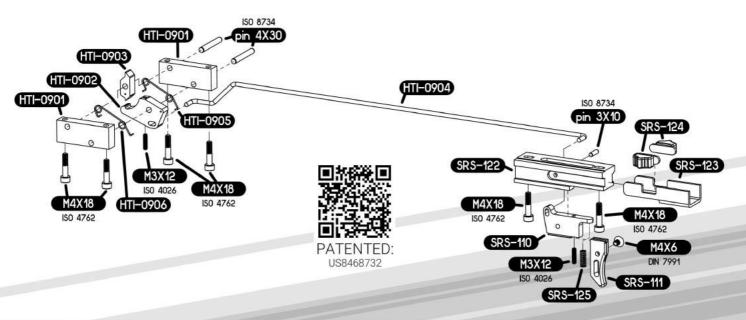
HTI-0700 / PISTON



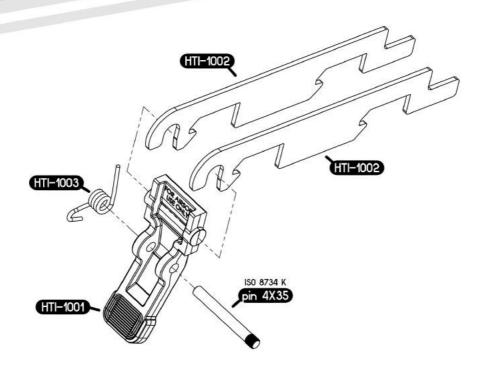
HTI-0800 / SPRING GUIDE

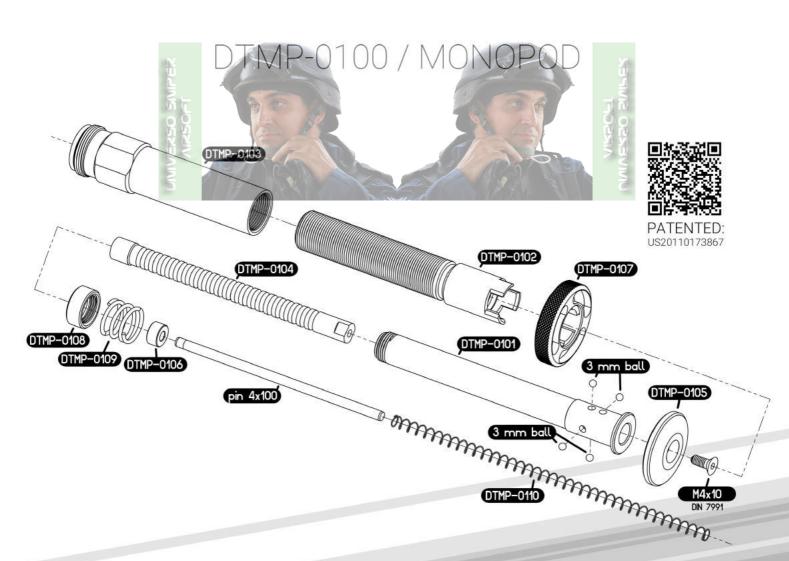


HTI-0900 / TRIGGER GROUP



HTI-1000 / MAGCATCH SYSTEM





SPECIFICATIONS MATERIALS

	AL 6XXX	CR1018	SS304	10.9 steel	A228	brass	PA6-GF15	polycarbonate	Acetal / POM	Bakelite	NBR	silicon
HTI-0100 / chassis												
HTI-0200 / barrel												
HTI-0300 / stock												
HTI-0400 / buttplate												
HTI-0500 / bolt												
HTI-0600 / magazine												
HTI-0800 / spring guide												
HTI-0900 / trigger group												
HTI-1000 / magcatch system												
DTMP-0100 / monopod									Ä			
screws / pins									INI			
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* šprings									i X			
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	Mass [grams]
HTI-0100 / chassis	2518
HTI-0200 / barrel	1610
HTI-0300 / stock	401
HTI-0400 / buttplate	181
HTI-0500 / bolt	277
HTI-0600 / magazine	472
HTI-0800 / spring guide	172
HTI-0900 / trigger group	114
HTI-1000 / magcatch system	72
DTMP-0100 / monopod	99
TOTAL	6060

Size [mm]

1125

SERIAL NUMBERS

Serial numb	
	dark earth
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