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# SAFETY

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.





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

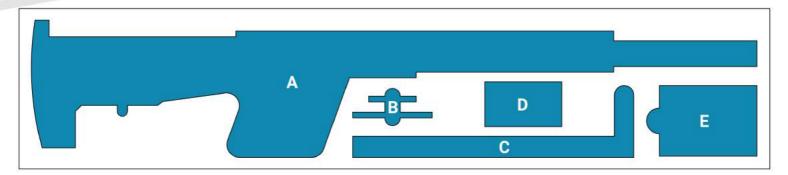
The HTI maintains exceptional accuracy because of its match-grade (free-floated) barrels, chambers and crowns, a high-quality match trigger, and solid return-to-zero barrel mounting system.

#### 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.

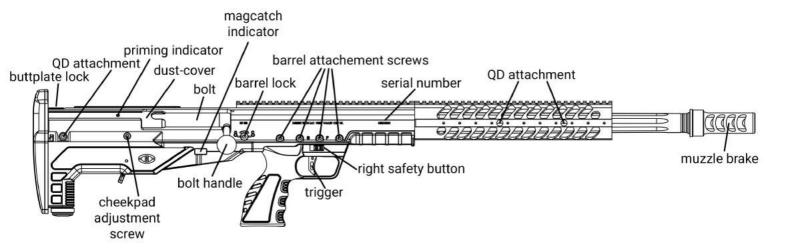
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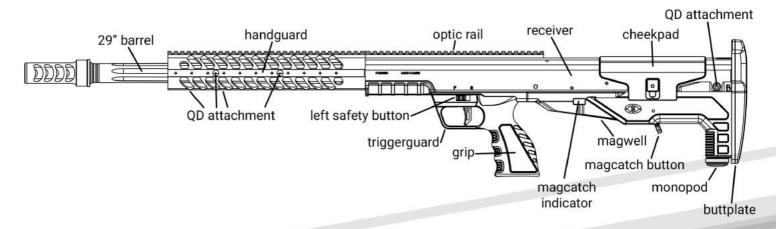
# BOX CONTENT



- 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

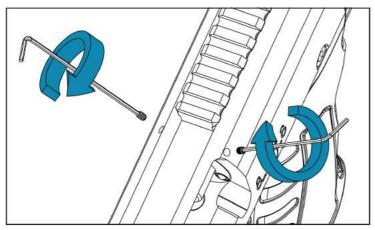
# **GUN DESCRIPTION**



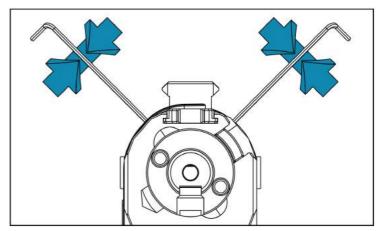


# ASSEMBLY

#### HOPUP

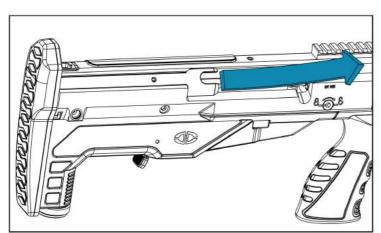


1 Install the two hopup screws (M3x4 ISO 4026 for quick barrel swap with return to zero capacity, or M3X22 ISO 4762 for tool-less hopup adjusment capacity) from the screws set bag.

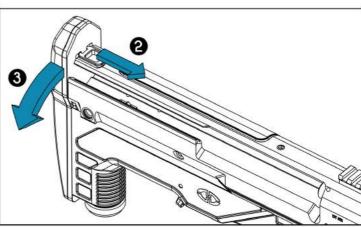


2 Finely tune the hopup setting (flat hopup rubber as shown here). Excessive hopup setting could lead to jamming and/or damage the rubber.

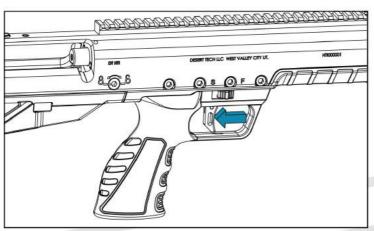
#### BOLT



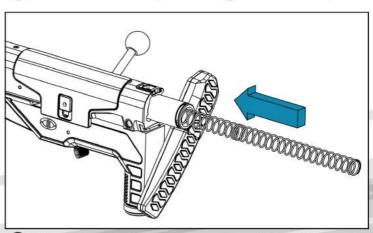
1 Remove the dust-cover (slide it forward).



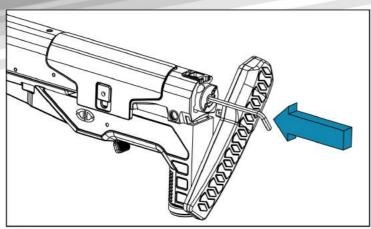
2 Slide forward the buttplate lock. 3 Rotate the buttplate.



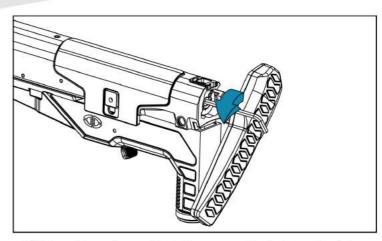
4 Pull and hold the trigger.



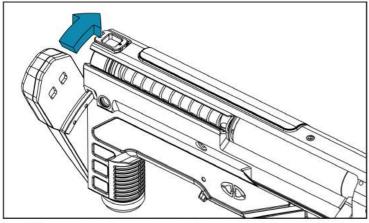
**5** While pulling the trigger, engage the bolt, the piston and the spring inside the receiver.



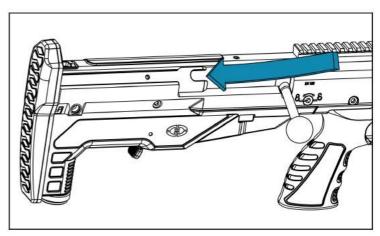
6 Compress the spring by pushing the spring guide inside the receiver 1 Make sure to perfectly align the spring guide lugs with the lug groves.



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

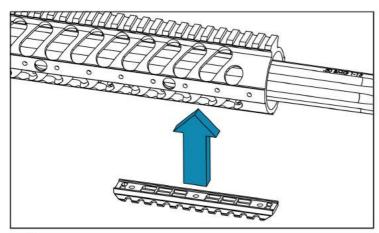


8 Rotate the buttplate and close it until the buttplate lock engages the buttplate.

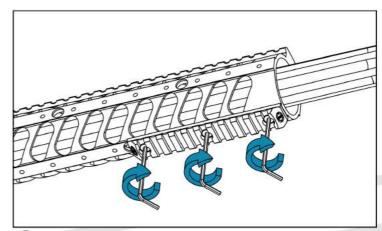


Slide the dust cover backward in place.

#### RAIL

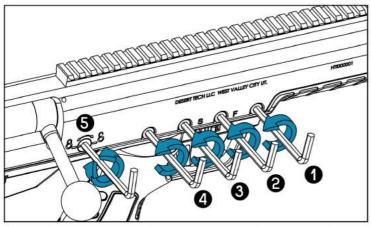


1 Install the rail on the handguard in the desired position.



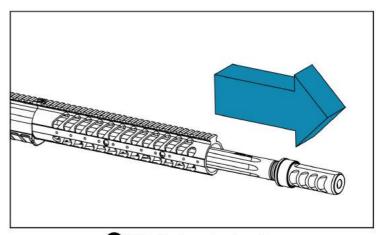
Secure the rail using M4x10 screws (2 screws for short rail, and 3 screws for long rail) from the screw set bag.

# BARREL SWAP



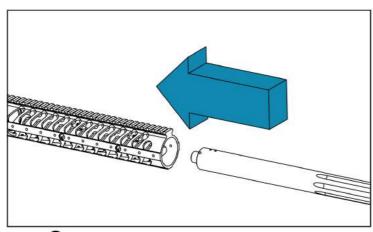
Untight the 4 barrel clamping screws, starting from the muzzle side 1234 up to the bolt side.

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



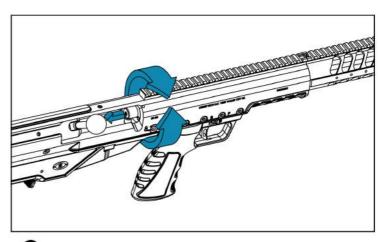
6 Slide the barrel outward.

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



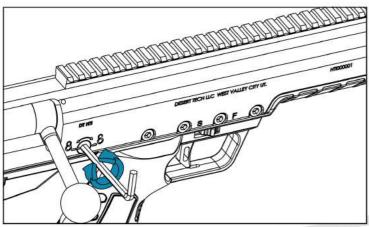
Gently insert the barrel inside the receiver.

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

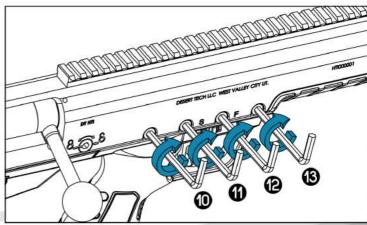


8 Rotate and slide the barrel until the hopup fits onto the feeding tube.

1 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.

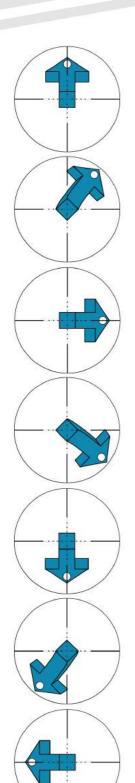


Secure the barrel by tightening the 4 barrel screws, from the bolt side (0 (1) (2) (3) to muzzle side.

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.

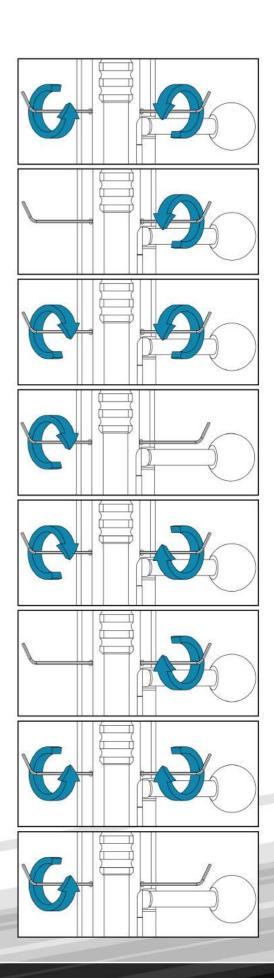
Case #4: not enough hopup effect with right side-spin: tighten left side hopup screw.

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

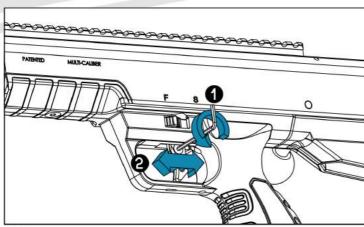
Case #6: not enough hopup effect with left side-spin: tighten right side hopup screw.

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

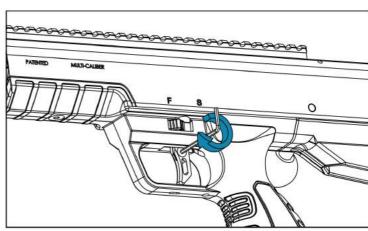
Case #8: too much hopup effect with left side-spin: loosen left side hopup screw.



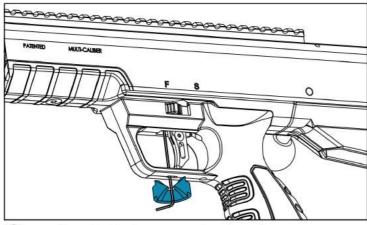
#### TRIGGER GROUP



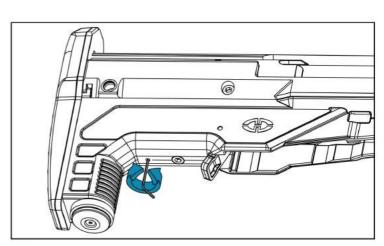
1 To adjust the trigger position, loosen the M4X6 trigger screw. 2 Slide the trigger forward or backward to the desired position. Excessive backward trigger position could block the trigger movement.



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

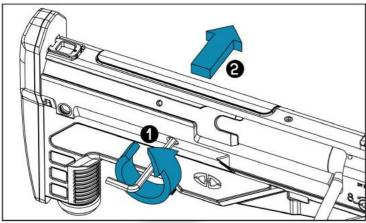


◆ To reduce the dual stage travel, tighten the M3x12 trigger screw. To increase dual stage travel, loosen the M3X12 trigger screw. ♠ Excessive short dual stage travel will affect the piston sear preload, disable the safety, and disable safe piston sear action.

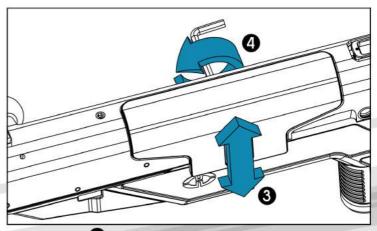


To increase piston sear preload, tighten the M3X12 trigger sear screw. To loosen piston sear preload, loosen the M3X12 trigger sear screw. ⚠ Excessive preload will disable safe piston sear action.

#### CHEEKPAD



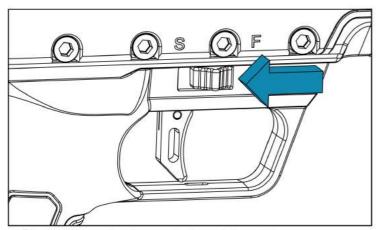
1 Loosen the M6X40 cheekpad screw. 2 Slide the cheekpad outward.



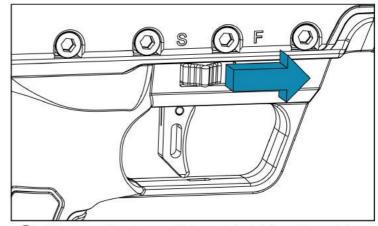
3 Adjust the cheekpad position.
4 Tighten the M6X40 cheekpad screw to lock the adjustment.

# OPERATION

#### SAFETY

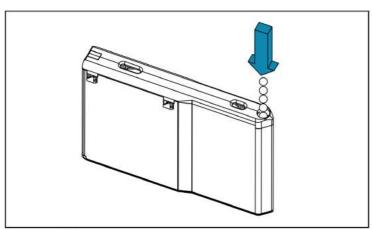


1 Slide the safety button (right or left side) to «S» position to engage the safety.



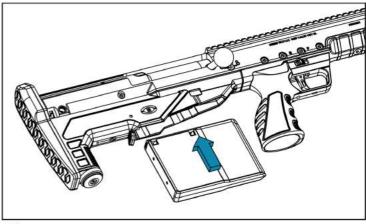
2 Slide the safety button (right or left side) to «F» position to disengage the safety.

#### MAGAZINE

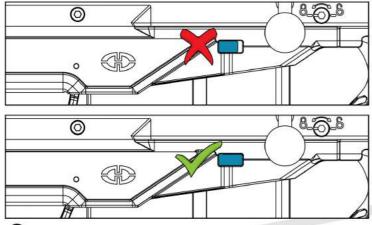


Insert 6 mm bbs inside the magazine, by hand, or using a loader.

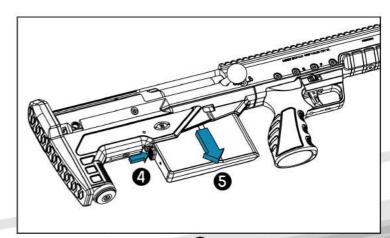
Maximum capacity: 38 bbs with std. follower.



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



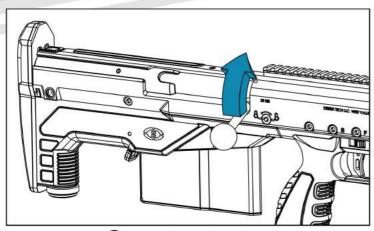
3 Make sure the magcatch plates are in the correct position.



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

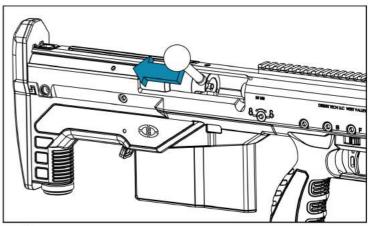


#### SHOOTING

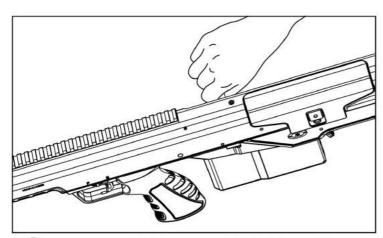


Pull up the bolt handle.

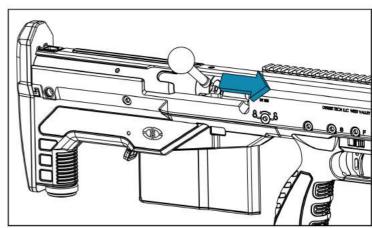
Make sure that the bolt has not yet primed to avoid double feed.



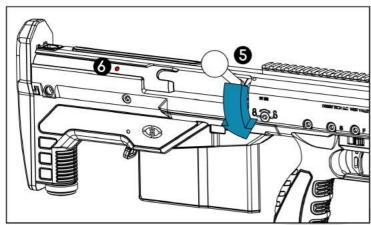
2 Move the bolt backward to compress the spring and lock the piston sear (until it clicks).



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).

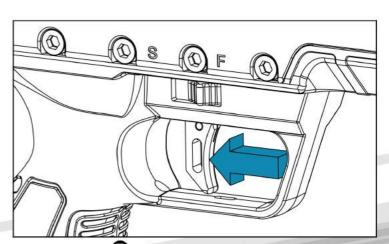


 Push foward the bolt to engage a bb inside the hopup chamber.
 You can visualy check inside the hopup chamber if your magazine is empty.



5 Pull down the bolt handle to lock the bolt in battery.
6 It is possible to check if the rifle is primed by looking at the load indicator.

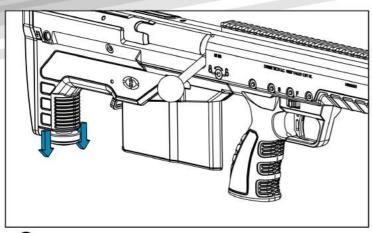
1 Black color = not primed. Red color = primed.



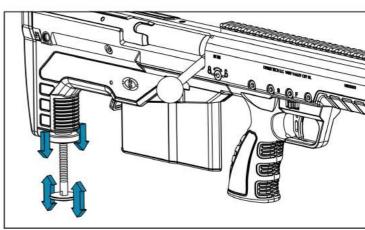
Pull the trigger to shoot.

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

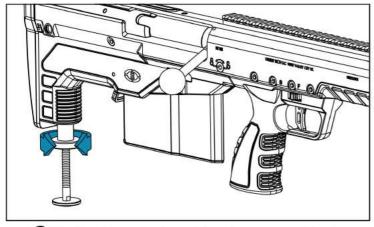
#### MONOPOD



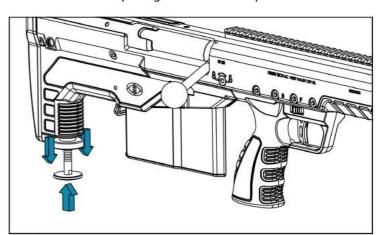
Pull down the monopod knob to extract the monopod.



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.



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

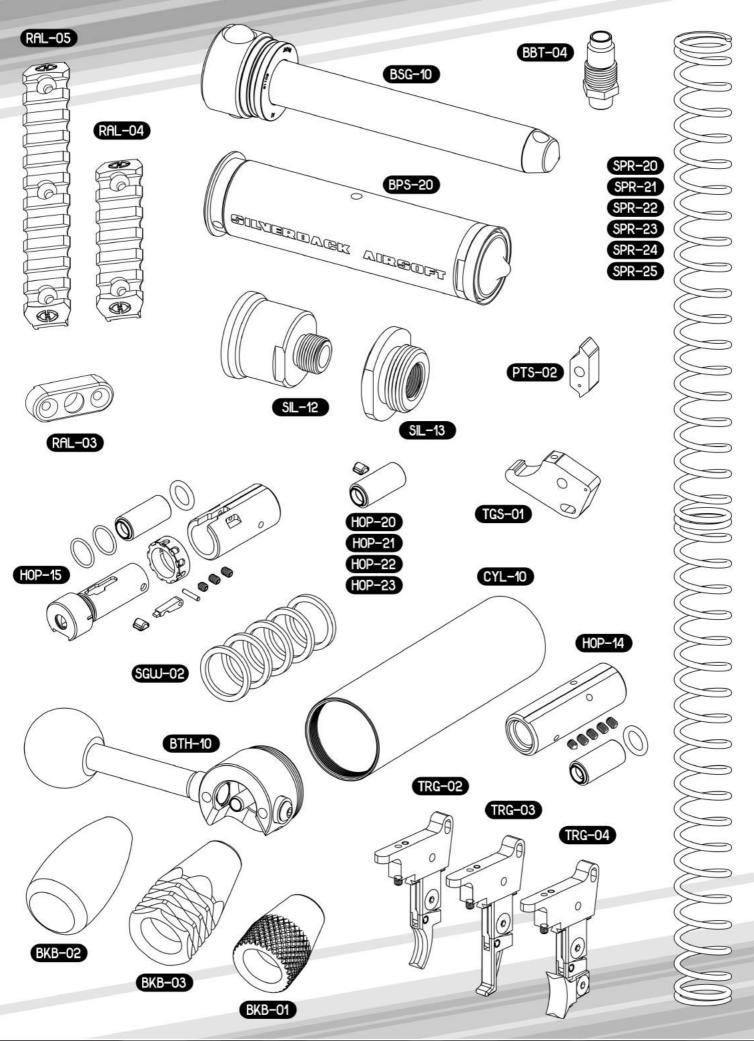
BARREL & MUZZLE DEVICES			
SBA-OBL-30	barrel - 29" fluted50 BMG		
SBA-SIL-10	Elite Iron ALPHA .50 dummy silencer		
SBA-SIL-11	replacement foam for SIL-10		
SBA-SIL-12	M25x1.5 ♀ to M14x1 CCW ♂ adapter		
SBA-SIL-13	M25x1.5 o to M14x1 CCW ♀ adapter		
SBA-FHD-05	muzzle brake50 BMG		

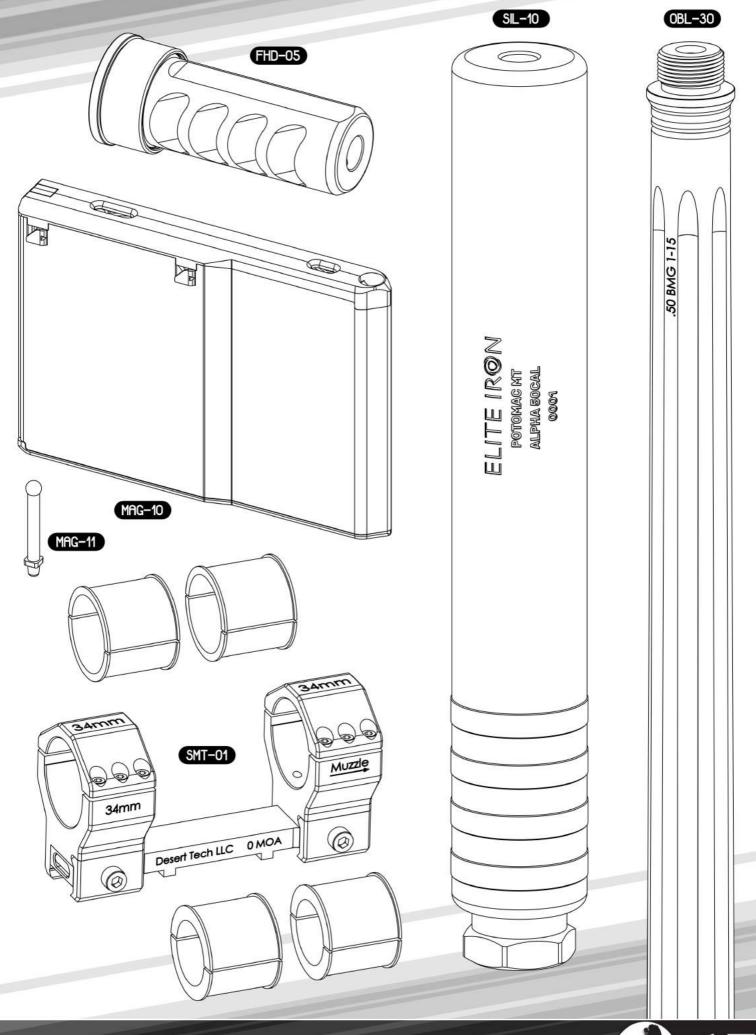
	SCOPE MOUNT	
SBA-SMT-01	DTSM replica with 25/30 mm adapters	

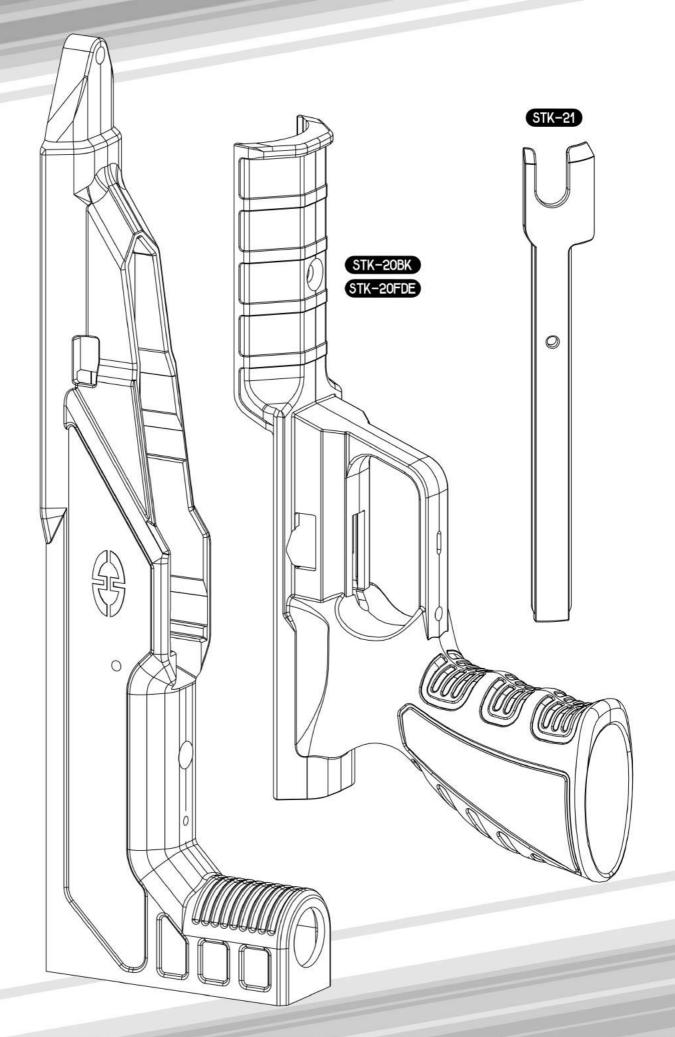
	HOPUP
SBA-HOP-06	FAST hopbar & pin
SBA-HOP-14	hopup + SBA-HOP-21
SBA-HOP-15	FAST hopup + SBA-HOP-21
SBA-HOP-20	flat rubber 50° + nub
SBA-HOP-21	flat rubber 60° + nub
SBA-HOP-22	flat rubber 70° + nub
SBA-HOP-23	flat rubber 80° + nub
SBA-HOP-24	SBA-HOP-20 + 21 + 22 +23
SBA-HOP-25	nub - 2 pcs.

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	HTI spare Nylon stock FDE	
SBA-STK-21	HTI dust cover	

	BOLT
SBA-BKB-01	bolt knob - tactical
SBA-BKB-02	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	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 / Stock		
HTI-0301	grip	
HTI-0302	stock	

HTI-0400 / buttplate			
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-0600 / magazine			
HTI-0601	magazine shell		
HTI-0602	magazine internal right		
HTI-0603	magazine internal left		
HTI-0605	magazine bbs stopper		
HTI-0606	magazine spring guide		
HTI-0607	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			

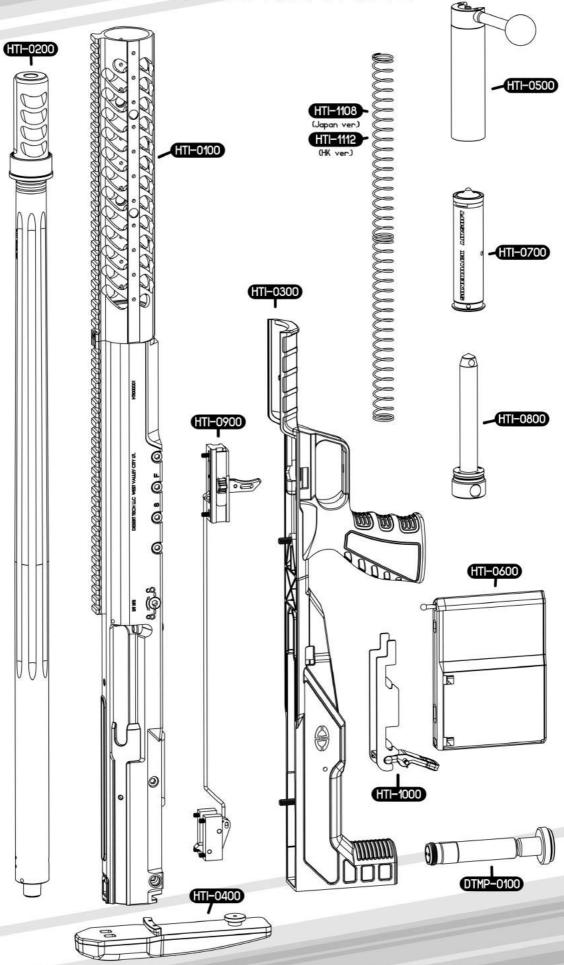
HTI-0	800 / Spring guide
HTI-0801	spring guide base
HTI-0802	spring guide rod
HTI-0806	spring guide lug
HTI-0808	spring guide nut

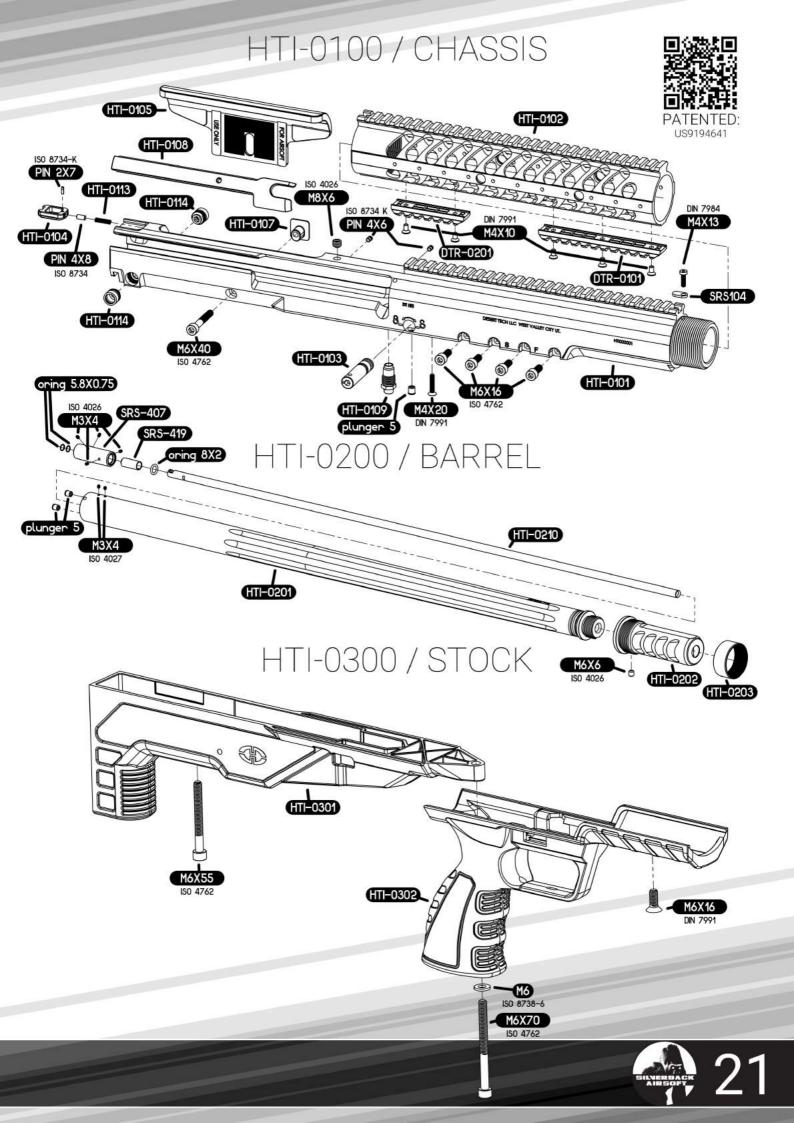
HTI-0	1900 / trigger group
HTI-0901	sear cage
HTI-0902	trigger sear
HTI-0903	piston sear
HTI-0904	transfer bar
HTI-0905	piston sear spring left
HTI-0906	piston sear spring right
SRS-110	trigger base
SRS-111	trigger blade
SRS-122	trigger block
SRS-123	safety
SRS-124	safety button
SRS-125	dust cover

HTI-100	0 / magcatch system
HTI-1001	magcatch button
HTI-1002	magcatch plate
HTI-1003	magcatch spring

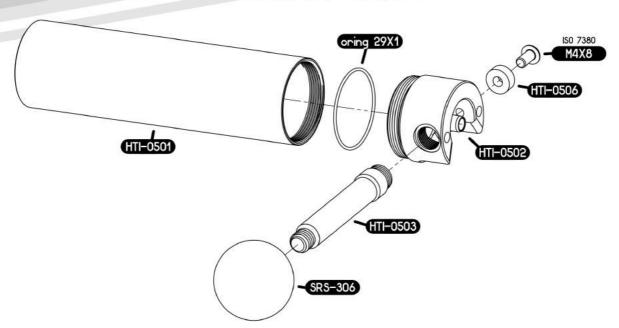
ווע	//P-U1UU/ Monopod
DTMP-0101	monopod first housing member
DTMP-0102	monopod second housing member
DTMP-0103	monopod third housing member
DTMP-0104	monopod extension shaft
DTMP-0105	monopod footpad
DTMP-0106	monopod spring guide
DTMP-0107	monopod knob
DTMP-0108	monopod hat
DTMP-0109	monopod lock spring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

## NOMENCLATURE



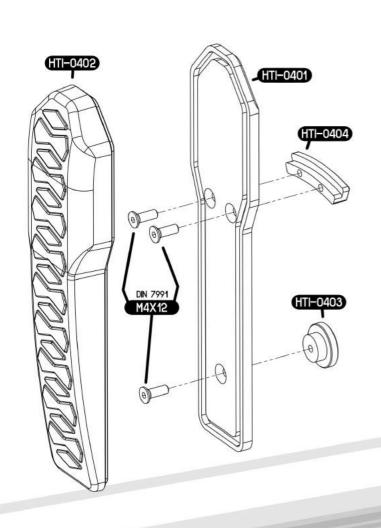


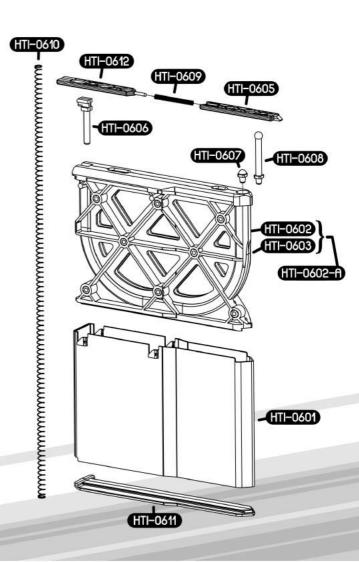
## HTI-0500 / BOLT



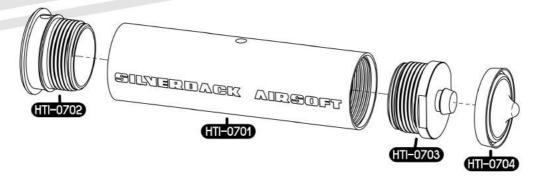
## HTI-0400 / BUTTPLATE HTI-0600 MAGAZINE

# 6 mm

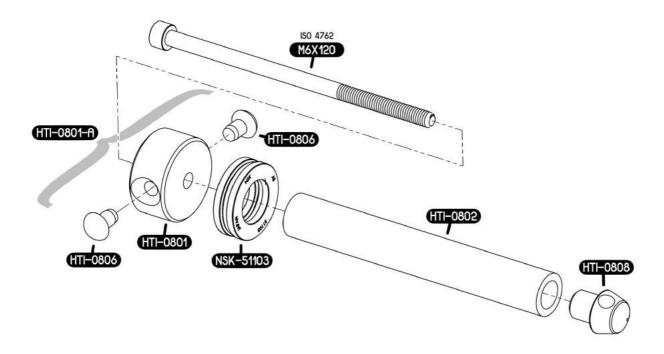




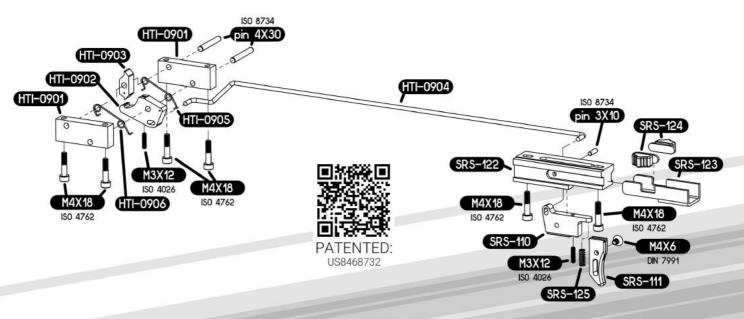
## HTI-0700 / PISTON



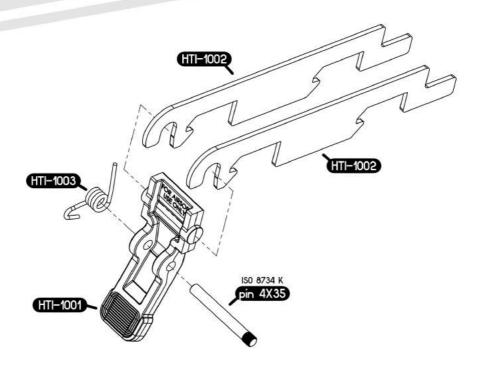
## HTI-0800 / SPRING GUIDE



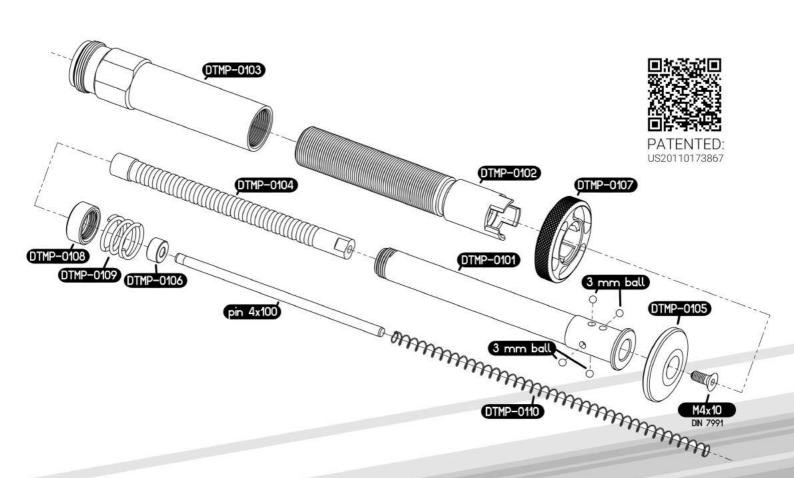
## HTI-0900 / TRIGGER GROUP



## HTI-1000 / MAGCATCH SYSTEM



## DTMP-0100 / MONOPOD



# 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						1 1						
DTMP-0100 / monopod												
screws / pins												
orings												
springs												

## SIZE / MASS

	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

1125	
	1125

# SERIAL NUMBERS

Serial	number:			
Color:	black			
	flat dark earth			



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