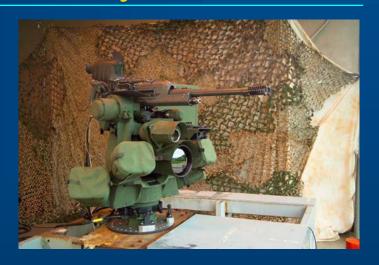
XM307 Advanced Crew Served Weapon Increased Lethality Capability for the Stryker Vehicles





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GDATP GDLS

Stryker Program Overview



- 7 Brigades funded by the U.S. Army
- Nearly 1000 vehicles built and delivered
- Over 300 vehicles deployed to Iraq
- Exceeding contract requirement for Operational Readiness Rate
 - Contractual ORR = 90%
 - Performance for 30 months deployed averages at 95.5%



Infantry Carrier (ICV)



Engineer Squad (ESV)



NBC Reconnaissance (NBCRV)



Command (CV)



Mobile Gun System (MGS)



Reconnaissance (RSV)



Anti-Tank Guided Missile (ATGM)



Medical Evacuation (MEV)



Fire Support (FSV)



Mortar Carrier (MCV)

Stryker Vehicle Overview



Mobility

- 350 HP Caterpillar 3126 Diesel Engine
- 8 Wheel, Run-Flat / Central Tire Inflation System
- 62.5 mph Top Speed (Governed)
- 78 Inch Trench Crossing
- 23 Inch Vertical Climb, 60% Grade
- 330 Mile Cruising Range
- 53 Gallon Fuel Capacity

Survivability

- 14.5 AP Protection
- Kevlar Spall Liner
- Ballistic High Hard Steel Structure
- MEXAS Ceramic Layer
- RPG-7 Add-On Armor

Supportability

- IETMs on Video Display Terminal
- Embedded IETMs Block Improvement
- Diagnostics Linked to VDT
- BIT / BITE Power Pack Display



RWS Evolution: M151E2



- Customer
 - U.S. Army PM-SBCT
- Block 1 Program Accomplishments
 - New IR Sensor, Improved Range
 - Laser Range Finder
 - New Control Grip
 - Color Day Sensor
 - Prepared for Stabilization
 - Automatic Focusing
 - Zero Larger Ammunition Box
 - Upgraded FCU with Improved Processing Capability
 - Period of Performance
 - MAY 04 to JUL 05
- Block 2 Program Accomplishments
 - ▼ Integrate 2-axis vector Stabilization.
 - Increase the Slew Rate (AZ & EL)
 - Period of Performance
 - APR 05 to JUN 06





RWS Evolution: Increased Lethality







XM307 ACSW



Block 3 Candidate for Increased Lethality

XM307 Advanced Crew Served Weapon (ACSW)

- >25mm HEAB & AP Ammunition
- **▶**Low Recoil
- Light Weight
- Converts to .50 Caliber (XM312)

RWS-ACSW



Develop ment

Technology Compling

GENERAL DYNAMICS Armament and Technical Products

GENERAL DYNAMICS Land Systems

GENERAL DYNA MICS Ordnance and Tactical Systems

March 30, 2006 5

Lethality

XM307 / XM312 Weapon System



- HEAB and AP ammunitions provide Increased Lethality against defilade and light-armor targets
- Low recoil results in lightweight design and stable system, enhancing accuracy & dispersion
- Low weight minimizes loads to vehicle mount and allows easy dismount and portability
- Operator level change from 25mm to .50 caliber with four sub-assemblies parts and no special tools







XM307 / XM312 Mobility

Portability for Dismounted Operations









System	40mm Mk-19 Mod3	Cal .50 M2HB	7.62mm M240	25mm XM307
Weapon Weight (lb)	75.6	84.0	24.2	30.0
Tripod Weight (lb)	65.4	46.1	19.2	18.8*
Fire Control (lb)	N/A	N/A	N/A	6.5
Unloaded System Weight (lb)	141.0	130.1	43.4	55.3
Peak Recoil (lbs)	800	1000	80	250

* includes Pintle/T&E

- Quickly dismounts from vehicle
 - Portable over rough terrain
 - Supports Close Combat Fight
- Light & compact
 - 80-90 lb weight savings for most platforms

Enhances Close Combat Employment Flexibility

XM307 / RWS / Stryker Phase 1 & 2 Integration Accomplishments

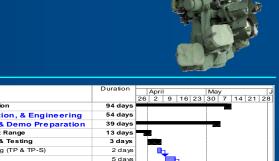


- Phase 1
 - Accomplished 4Q04
 - XM312, .50cal, integrated onto Kongsberg Block 1 RWS
 - Successful Integration, Operation, Targeting, & Firing
- Phase 2
 - → Accomplished 3Q05
 - XM307, 25mm, Integrated onto Kongsberg Block 2 RWS
 - Successful Integration, Operation, Targeting, Firing, and Air-Bursting of 25mm rounds
 - Dispersion 70% of XM307 SDD Exit Criteria

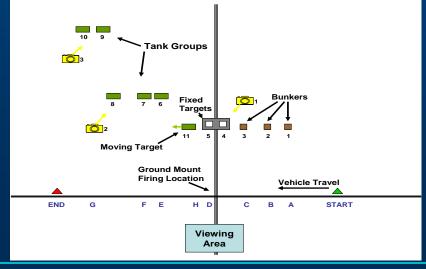
XM307 / RWS / Stryker

Phase 3 Integration

- Phase 3 underway
- Joint Industry / Government initiative
- Planning, design, engineering, and fabrication activity - <u>Complete</u>
- Three week integration, testing, and Demo prep starting at RTTC 3Apr06
 - 25mm TP & TP-S rounds
 - Static Vehicle live fire
 - → Moving Vehicle live fire
 - .50cal Ball & Tracer rounds
 - Static Vehicle live fire
 - → Moving Vehicle live fire
 - Moving Vehicle / Moving Target Live Fire
- May 11, 2006 Demonstration



ID	raskivame	Duration		Apri	l			May			J
			26	2	9	16	23	30 7	14	21	28
1	Stryker / RWS / ACSW Integration	94 days							/		
2	A. Planning, Preparation, & Engineering	54 days									
67	B. Integration, Test, & Demo Preparation	39 days									
68	Stryker/RWS/ACSW at Range	13 days		2							
71	Pre-Firing Integration & Testing	3 days									
77	Stationary Vehicle Firing (TP & TP-S)	2 days		- 0	L						
78	Stand-Down Week	5 days				ь					
79	Moving Vehicle Firing (TP & TP-S)	2 days				1					
80	Scenario Set-Up and Planning	1 day				- 6					
81	Demo Scenario Evaluation (TP & TP-S)	2 days				ı	ı				
82	Stationary Vehicle Firing .50cal	1 day	1				Ъ				
83	Moving Vehicle Firing .50cal	1 day					6				
84	Demo Scenario Evaluation .50cal	2 days					- Б ь				
85	Demo Rehearsal 25mm & .50cal - Part 1	1 day	1				Ē	ь			
86	Stand Down & Buffer Week	5 days	1								
87	C. Demonstration at RTTC	88 days						-	2		
88	Preparation & Planning	82 days	_								
89	Coordinate Safety Release for Demo	45 days	1								
90	Visit Demo Range	3 days	1								
91	Develop Demo plan, provide to APG	25 days	1					ШΙ			
92	TRR at GDATP	1 day						ĭ			
93	Demonstration Week Activities	4 days							2		
94	Set-up & Check-out	1 day						l L			
95	Demo Rehearsal 25mm & .50cal - Part 2	1 day	1					l t	Ĺ		
96	Buffer Day	1 day						1	Ĺ		
97	DEMONSTRATION	1 day						i	ľ		



RWS Block 2 / XM307 ACSW

Increased Lethality for Stryker

- RWS Block 2 provides the latest capability for the Stryker to engage targets with operational weapons
- XM307 provides low weight, low recoil and high lethality
- Combined, the RWS Block 2 and XM307 will provide the Stryker vehicles with increased lethality capability:

 - 25mm HEAB rounds
 - **尽** 25mm AP rounds







CONTACT INFORMATION

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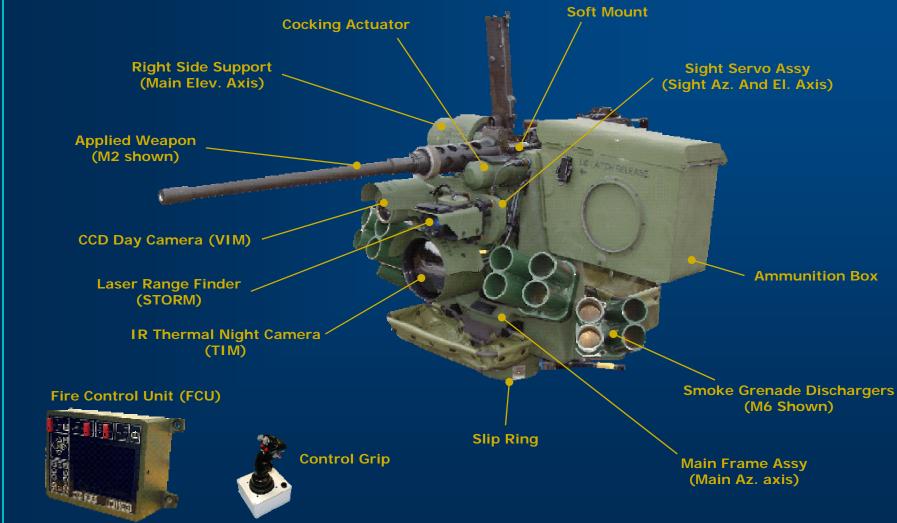
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RWS Evolution M151E2





XM307 ACSW System

Fuze Setter

Contact type fuze interface



Target Acquisition / Fire Control System (TA/FCS)

- Direct View Optics (DVO)
- Range Finder/CIDDS/MILES/Pointing Lasers
- CCD Video/FLIR/Tracker module
- Full Solution Ballistic Calculation/Reticle Aimpoint
- •Fuze Programming/Powers and sets Fuze
- •Digital Compass/Environmental Sensors

Muzzle Device

- Flash Suppression
- Muzzle Velocity Correction

Weapon

- Light Weight, 28 lbs.
- 25mm, 250 spm
- Impulse Averaging
- Gas Operation

Ammunition

- High Explosive Air Burst
- Target Practice -Spotter
- Target Practice
- Armor Piercing

TAFCS Controls • Grip mounted switches

- FCS Rear Panel switches
- Lase & Menu select
- Increment/Decrement

T&E Controls

- Rapid Acquisition
- 1 mil fine adjust

Land Warrior Interface

- Lanyard style "breakaway" connector
- Power, data and video over interface
- Compliant to LW requirements

Tripod

• Lightweight, 12 lbs.

Height adjustable

Stable without ballast