

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)



Mobile Gun System (MGS)



Reconnaissance (RSV)



Anti-Tank Guided Missile (ATGM)



NBC Reconnaissance (NBCRV)



Medical Evacuation (MEV)



Fire Support (FSV)



Mortar Carrier (MCV)



Command (CV)

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
- 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*



Stryker
Up-Armored Platform



Mission

Remote Weapon Station



Capability

XM307 ACSW



Lethality

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



Technology Coupling

*Spiral
Development*

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

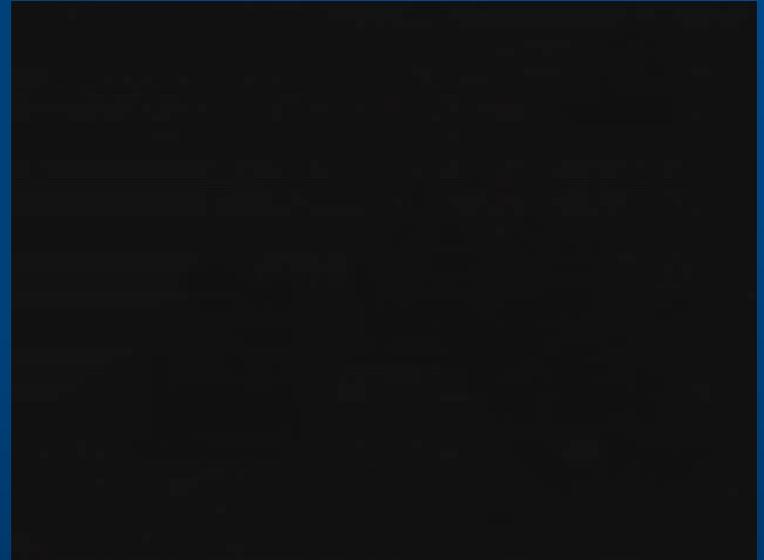
Enhances Close Combat Employment Flexibility

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

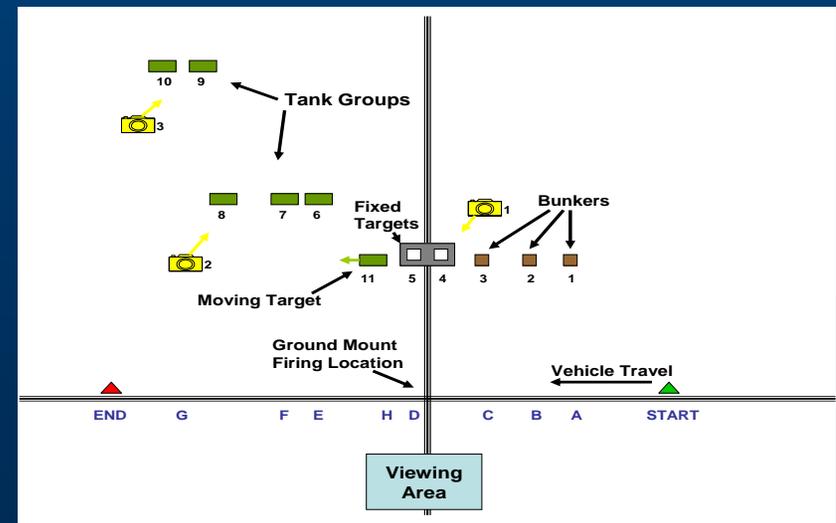
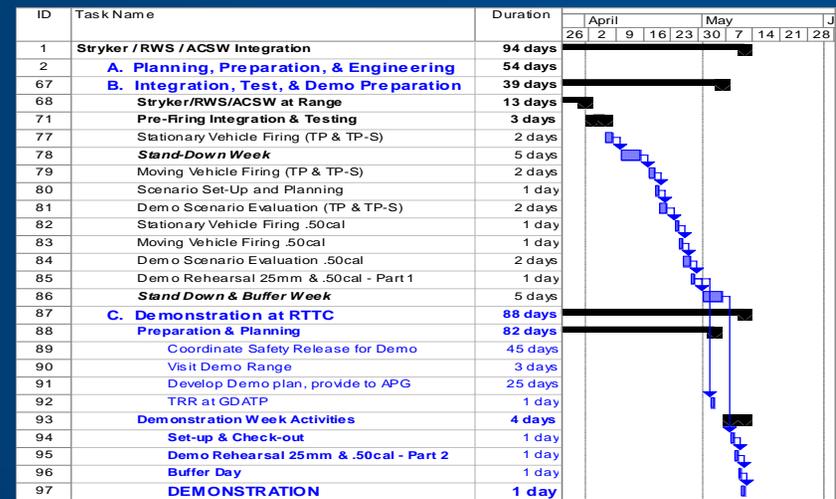


XM307 / RWS / Stryker

Phase 3 Integration



- Phase 3 underway
- Joint Industry / Government initiative
- Planning, design, engineering, and fabrication activity - Complete
- 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



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:
 - Fire on the move
 - 25mm HEAB rounds
 - 25mm AP rounds
 - Flexibility to convert to .50cal



CONTACT INFORMATION

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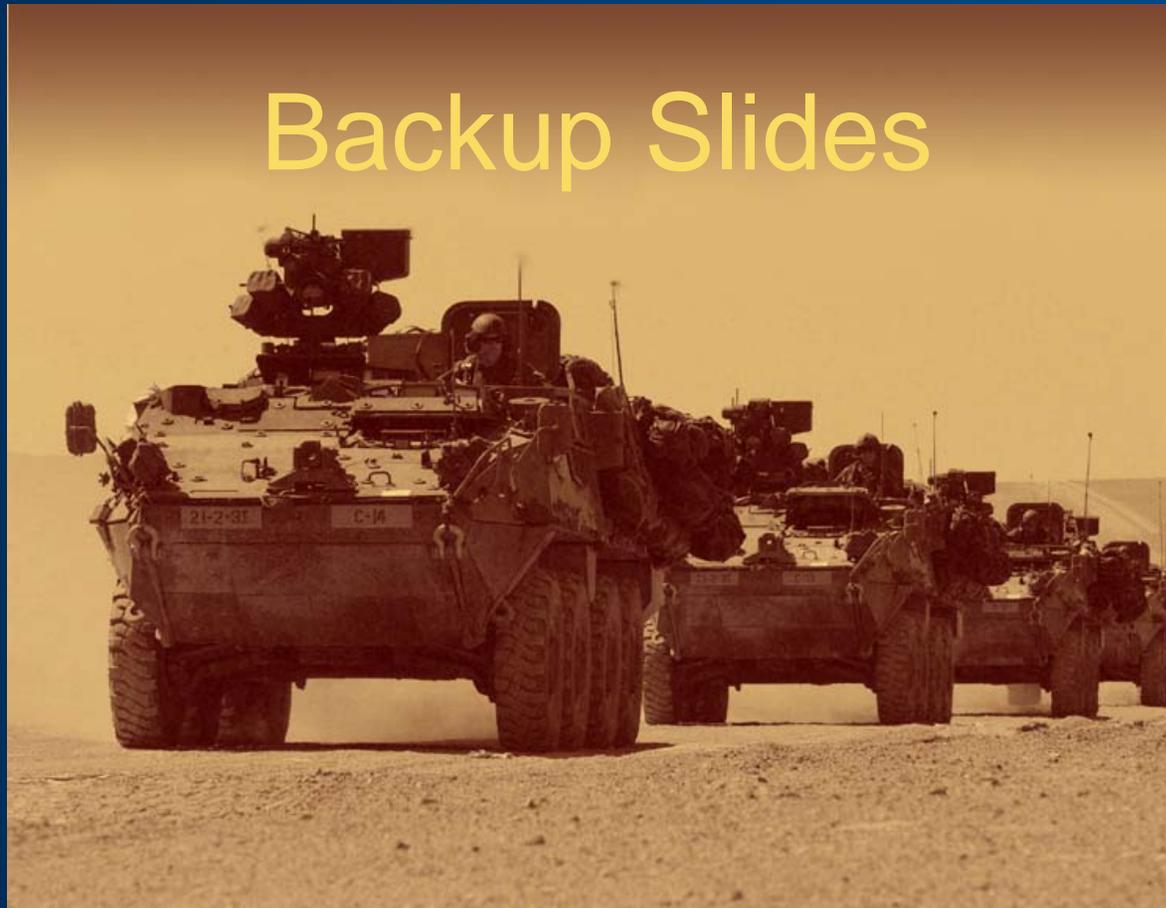
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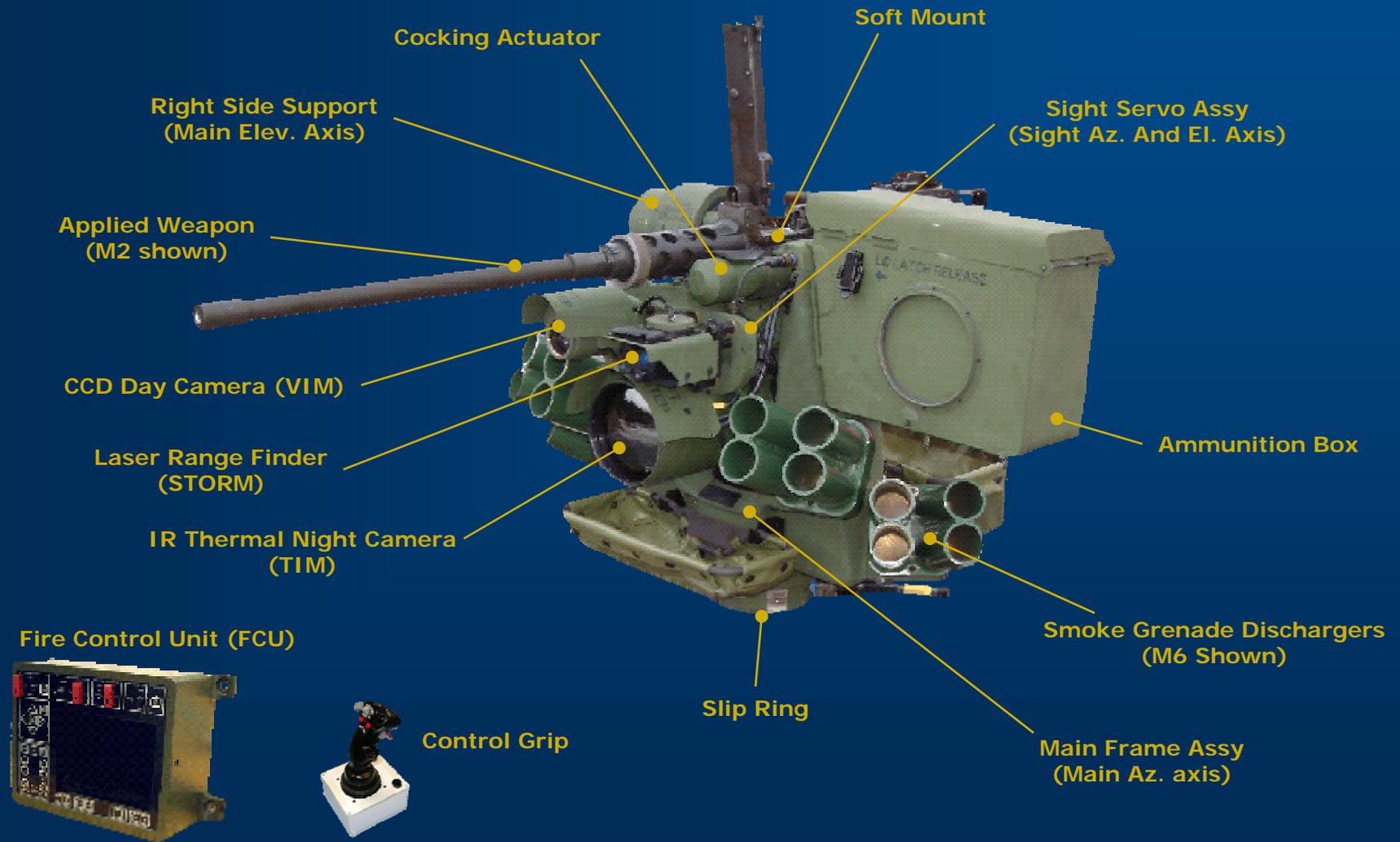
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Backup Slides



RWS Evolution M151E2



XM307 ACSW System

