

The 155mm Advanced Gun System-Lite (AGS-L) for DDG-51 Flight III

A Summary of the BAE Systems IRAD Effort

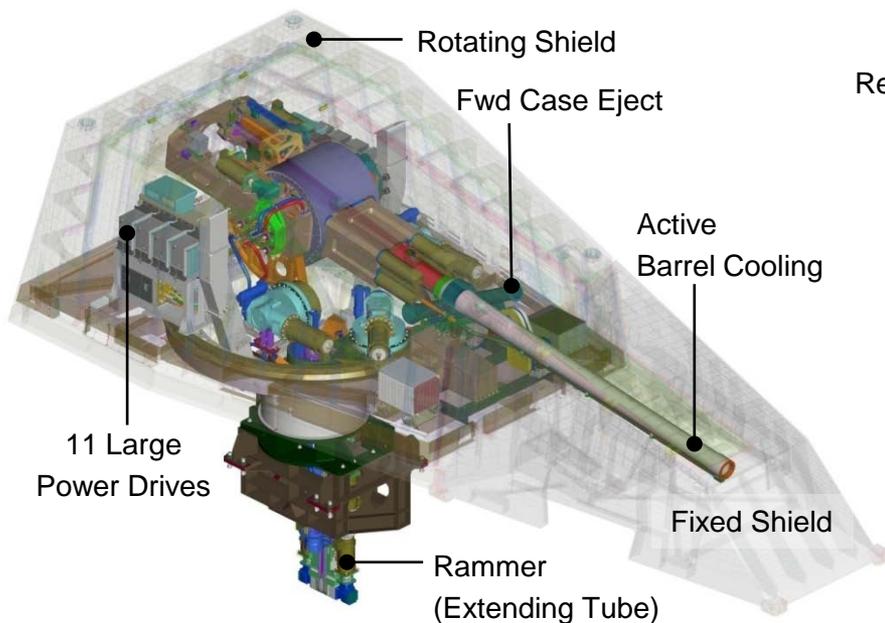
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BAE Systems Land & Armaments

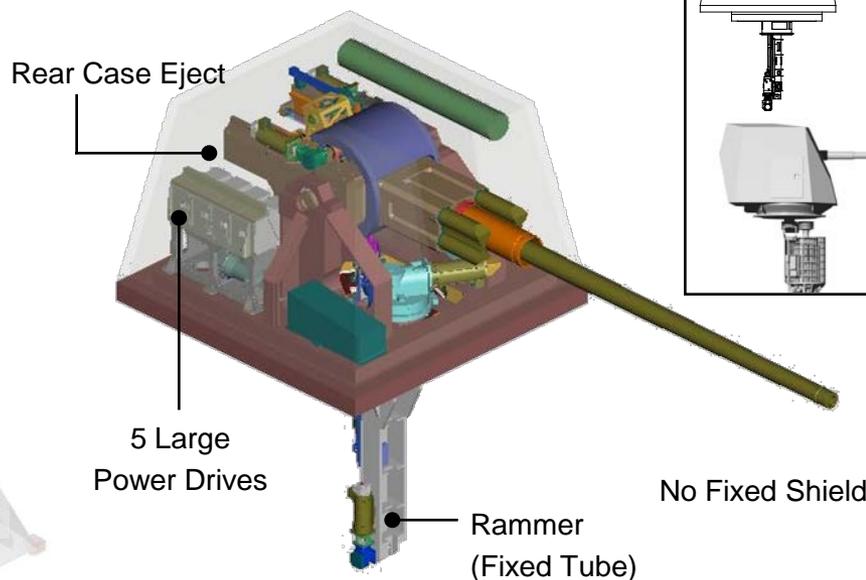


AGS and AGS-Light Gun Mount Comparison

Current DDG-1000 Gun Mount



AGS-Light Gun Mount



Range	71 nmi (155mm LRLAP)
ROF@ 60 degrees	10 RPM
Gun Mount Weight	106 MT

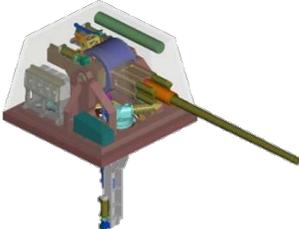
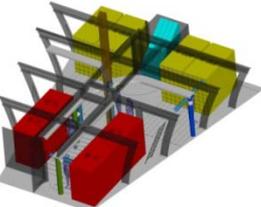
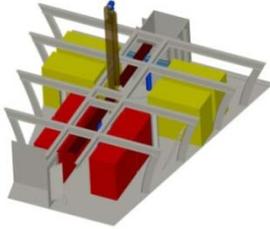
Range	71 nmi (155mm LRLAP)
ROF@ 60 degrees	6 RPM
Gun Mount Weight	51 MT

AGS-Light fires 155mm LRLAP to max range, reuses production AGS assemblies and electric power drives, is half the weight of AGS, and is similar in size to a 5" Mk 45

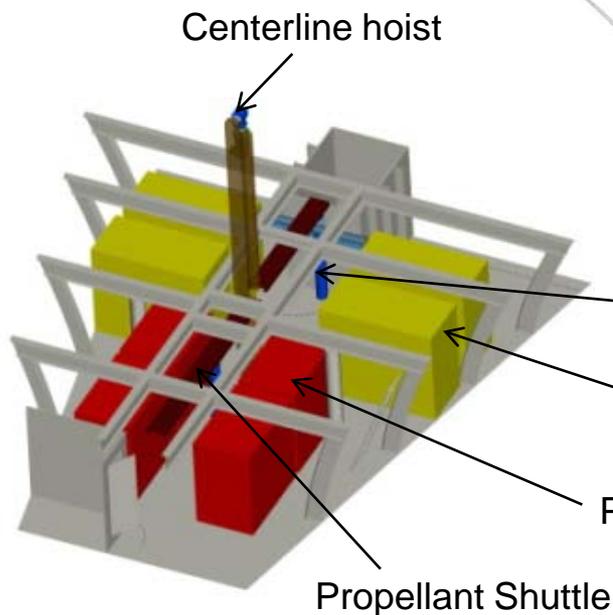
DDG-51 Forward Mount Magazine Options

- Examined different magazine arrangements:
 - Manual assist loader with individual ammo containers
 - Automated loader with individual ammo containers
 - DDG-1000 derivative using palletized ammo



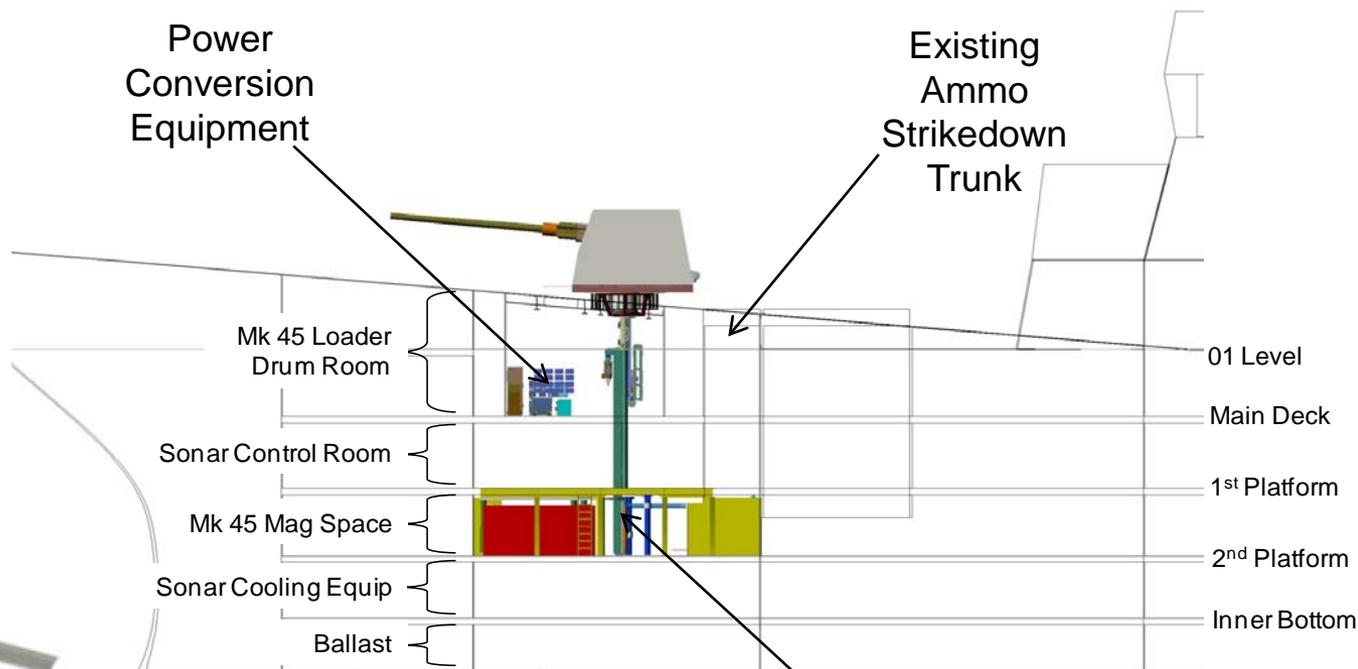
	Option	# Rounds and ROF	Manning during firing
	AGS-Light Gun Mount	6 RPM	0
	Manual Assist magazine with ready service loader (similar to Mk 45 Mod 4 with ERM)	180 total, fires 12 ready rounds at 6 RPM, then rest of rounds at 5 RPM	0 for 12 rnds 7 for the rest
 	Automated Loader in magazine	180 @ 6 RPM	0

Probable AGS-Light DDG-51 Installation Arrangement



Power Conversion Equipment

Existing Ammo Strikedown Trunk



180 Round Magazine and Automated Loader

Projectile Shuttle

Projectile Storage

Propellant Storage

Propellant Shuttle

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