

Modular Charge System (MCS)

Low C501A2 & Standard C502A1

Featuring LOVA characteristics such as low barrel erosion, low variation due to temperature and better ignitability, MCS offers consistent ballistic performance with minimal residue. It consists of two modules - the Charge Propelling 155mm Low C501A2 (Low Charge) and the Standard C502A1 (Standard Charge) - for different zones.



Technical Specifications

		C501A2	C502A1		
Length of Single Module (mm)		167 ± 2	167 ± 1		
Diameter (mm)		149 ± 1	158 ± 1		
Mass of Single Module (kg)		1.8	2.7		
Hazard Classification		1.3C	1.3C		
UN Number		0242	0242		
Weapon Compatibility		39 Cal., 45 Cal. and 52 Cal.	39 Cal., 45 Cal. and 52 Cal.		
Charge Zone	Gun	Projectile	Standard Muzzle Velocity (m/s)	Range (km)	
				Min	Max
1	39-Cal.	HE M107	301	3.3	7.5
	52-Cal.	HE M107	446	5.3	11.7
2	39-Cal.	HE M107	450	5.4	11.8
	52-Cal.	HE M107	555	7.3	14.5
3	39-Cal.	HE M107	573	7.7	15.1
	52-Cal.	HE M107	694	10.0	18.4
4	39-Cal.	HE M107	704	10.2	18.8
	52-Cal.	HE M107	823	16.0	33.1
5	39-Cal.	HE ERFB BB	814	15.9	32.3
	52-Cal.	HE ERFB BB	925	19.3	40.7
6	52-Cal.	HE ERFB BB			

Note: • Performance data based on ST Engineering Land Systems' 155mm gun howitzers
• Custom configuration available to match a wide range of gun systems