



# MS-SGP

## Multi Service – Standard Guided Projectile

The BAE Systems guided projectile team has developed the MS-SGP and its sabotaged variant to meet the U.S. Navy, U.S. Army and U.S. Marine Corps' requirements for affordable long range precision fire support.

The MS-SGP will provide the U.S. Army, U.S. Navy, U.S. Marine Corps, and U.S. allies with precision long range tactical fires out to a range of 100 km (54 nautical miles). It is compatible with over 1,000 fielded M777 and M109 howitzers in the Army and Marine Corps, and over 200 deployed Mk 45 5-inch (127mm) naval guns.

**Volume of Fire** – The Mk 45 Mod 4 will deliver 5-Inch fires at a maximum rate of 10 rounds per minute to 100 km (54 nautical miles) to achieve desired volume of fire

through effects. Artillery units firing the sabotaged MS-SGP will deliver a volume of effects on desired area targets out to a maximum range of 85 km.

**Precision and Lethality** – The MS-SGP delivers all weather precision attack capability (< 10 m CEP) to fully defeat targets with a 16.3 kg (36 lb) high explosive warhead.

**Survivability** – The MS-SGP is designed to deliver long range precision fires in a GPS jammed or denied environment.

**Multi-mission Capability** – The MS-SGP can effectively address multiple mission areas including: Land Attack, Surface Attack, Anti-Air defense, and moving targets on land and at sea. It is capable of in-flight retargeting to address relocatable targets. Additionally, MS-SGP can be equipped with an optional Imaging Semi-Active Laser seeker to autonomously address moving targets.

**Proven Performance** – The MS-SGP has been flight tested to TRL 6/7.

**Affordability** – The MS-SGP leverages the qualified 155-mm Long Range Land Attack Projectile (LRLAP) and significant industry investment to reduce qualification costs while minimizing production cost.



## Specifications

<b>Length</b>	61 inches/1.5 m
<b>Weight</b>	110 lbs/50 kg
<b>Range</b>	
M777	85 km
Mk 45 Mod 4	54 nmi
<b>Time of flight</b>	3 min 15 sec to 70 km
<b>Maximum rate of fire</b>	
M777/M109	3 rpm
Mk 45	10 rpm
<b>MRSI</b>	
Mk 45	5 rounds within 2 sec per gun



The MS-SGP is compatible with the U.S. Army's M777 and M109 and the U.S. Navy's Mk 45.

The MS-SGP guided flight test on June 18, 2013 impacted 1.5 meters from the target, which was 40 km down-range.



**BAE Systems, Inc.**  
Platforms & Services  
[www.baesystems.com](http://www.baesystems.com)

**For more information contact**  
[platforms.services@baesystems.com](mailto:platforms.services@baesystems.com)

### Disclaimer and copyright

This document gives only a general description of products and services and except where expressly provided otherwise shall not form part of any contract. From time to time, changes may be made in the products or conditions of supply.

### © 2016 BAE SYSTEMS. All rights reserved.

The information contained in this document is proprietary to BAE SYSTEMS unless stated otherwise and is made available in confidence; it must not be used or disclosed without the express written permission of BAE SYSTEMS. This document may not be copied in whole or in part in any form without the express written consent of BAE SYSTEMS which may be given by contract.

BAE SYSTEMS is a registered trade mark of BAE Systems plc.

06.16.MS-SGPBTR

Approved for public release 8.2013.