



BRUTUS 155MM MHS (MOBILE HOWITZER SYSTEM) CONCEPT



INTERNATIONAL 155MM MOBILE ARTILLERY SYSTEM CONCEPT



2-CT™ HAWKEYE MHS (MOBILE HOWITZER SYSTEM)

# SOFT RECOIL TECHNOLOGY

Transforms your existing vehicle platforms into more mobile and lethal weapons systems



Easily integrates into your existing weapons system and mounts on your **indigenous vehicle**



Allows for up to **60% reduction** in recoil forces transferred to the platform and is the key ingredient to enable larger guns on smaller mobile platforms



**Increases** speed, lethality, agility, deployability, and survivability



## COLLABORATING TO REVOLUTIONIZE ARTILLERY SYSTEMS

AM General teamed up with Mandus Group and Supacat to develop an HMT Extenda Mk2 Concept upfitted with a 105mm light weight gun containing soft recoil technology.

### HMT EXTENDA MK2 CONCEPT

Weight: 1250 kg (with gun installed)

Range: 17,200m; 22,600m with extended range munitions

Fires: High Explosive, Smoke (Base Ejection), Illuminating, Target Marking, Anti-Armour (High Explosive Squash Head)

### INCREASED LETHALITY & SURVIVABILITY

Up to 60% reduction in recoil forces allows the integration of the 105mm gun onto this nimble vehicle platform.

“Shoot and scoot” – quickly deploy, fire, and displace.

Multiple levels of operation – electronic, conventional and manual.

### COST EFFECTIVE & FLEXIBLE

Fewer moving parts on the gun reduce maintenance costs and downtime.

Soft Recoil Technology can convert current towed systems to self-propelled systems like the HMT Extenda Mk2.

Integrated weapons systems allow simpler logistical deployments.

Soft Recoil Technology can be applied to multiple artillery systems utilizing your indigenous vehicle.

## CONVENTIONAL RECOIL CYCLE VS. SOFT RECOIL CYCLE

<p>The cannon sits in-battery and moves to the rear when fired</p>	<p>The cannon is released from “latch” position and moves forward to a predetermined run-up distance</p>
<p>The recoil system stops the rearward motion then moves it forward back into the in-battery position, which creates a counter-recoil motion</p>	<p>Upon run-up distance, the system fires and uses a hybrid soft recoil system to absorb forces and return cannon to “latch” position</p>
<p>All rearward forces are transferred to the gun mount, trailer carriage or vehicle platform</p>	<p>This technology illustrates the concept of conservation of momentum which significantly reduces recoil forces</p>

