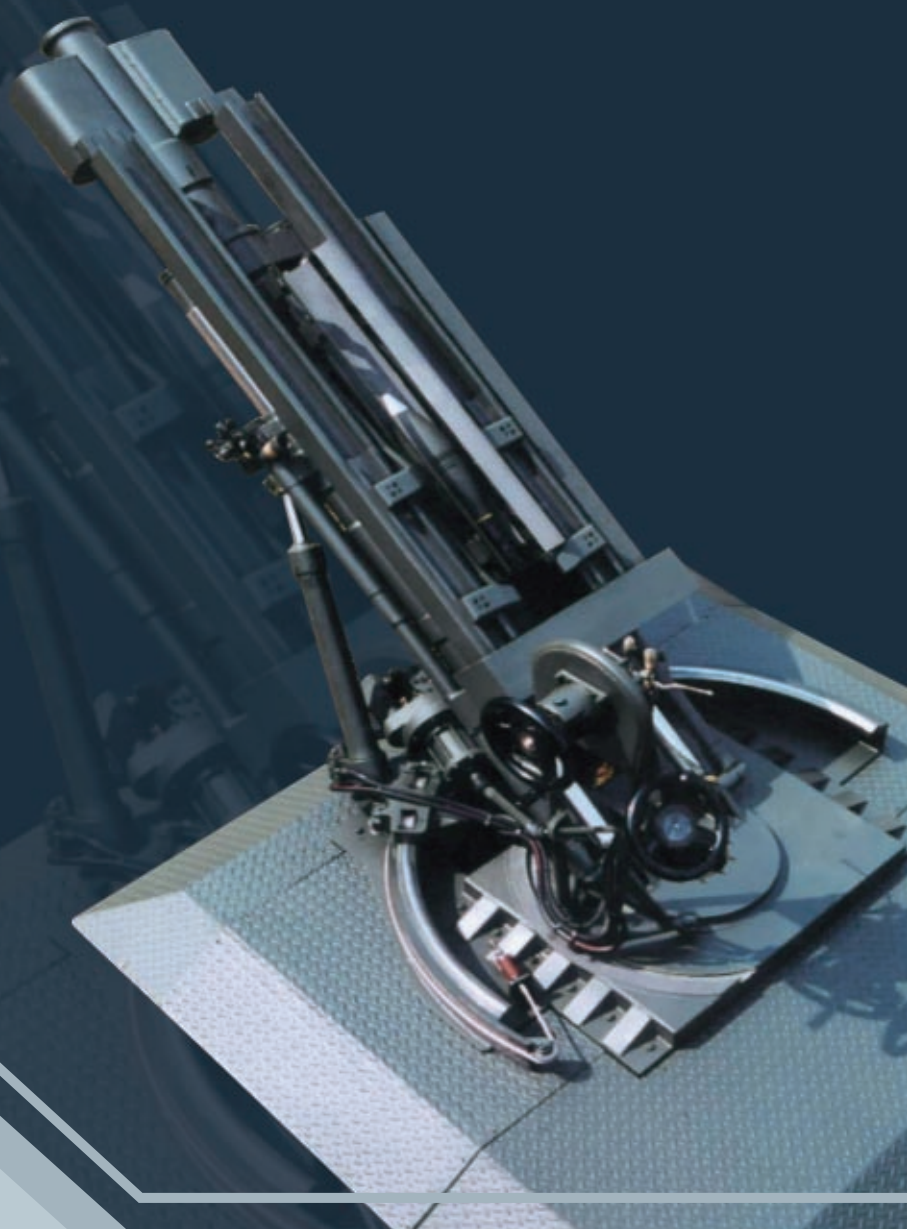


120MM SRAMS



120MM SRAMS

Super Rapid Advanced Mortar System



- **Lowest recoil load of 20 tonnes in the world**
- **High rate of fire of up to 10 rounds per minute**
- **Incorporated with an Automatic Fire Control System to enable autonomous operations**
- **Incorporated with a patented Blast Diffuser to reduce blast overpressure**



**Singapore Technologies
Kinetics**

A company of Singapore Technologies Engineering



Fire Control System



SRAMS on Bronco



SRAMS on Humvee



SRAMS on Spider

Modular

ST Kinetics' 120mm SRAMS is the first mortar system in the world with a recoil force of less than 20 tonnes when firing maximum charge. This means that the system weighing only 1200 kg can be integrated to and in some cases, fired from onboard a wide range of light tracked or wheeled vehicles.

Autonomous Operation

The 120mm SRAMS is equipped with a navigation and positioning system and mortar laying system. It is also integrated with an Automatic Fire Control System (AFCS) that enables it to perform autonomous fire missions.

Reduced Logistics and Crew Size

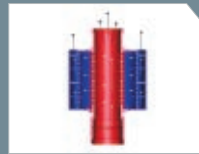
As the 120mm SRAMS has a high rate of fire, the mission can be accomplished with fewer mortar systems. This results in a savings on vehicles and equipment. There is no need for a survey team and command post, thus reducing crew size and manpower costs.

Features

Blast Diffuser - allows significant amount of high pressured gas to escape through intermediate chambers of the diffuser, before the bomb leaves the barrel, thus reducing blast over-pressure.

Breech Valve Mechanism (Optional) - allows trapped air between the bomb and the breech chamber to escape through the air vent. As a result, the in-bore travelling time and the overall firing cycle time is reduced significantly.

In-Bore Barrel Cooling System (Optional) - allows high pressure air and water mist to be injected through the Breech Valve, thus cooling the barrel. The cooling cycle is synchronised with the firing cycle to achieve effective cooling.



Blast Diffuser (Patented)



Breech Valve Mechanism (Patented)



In-Bore Barrel Cooling System (Patented)

Technical Specifications

Calibre	120mm smoothbore		
Range	9 km with non-assisted ammunition 13 km with assisted ammunition		
Barrel Length	1.8 m	Elevation	40° to 80°
Traverse	+28°	System Weight	1200 kg
Response Time	<1 minute		
Firing Rate	up to 18 rounds per minute		
Ammunition	Standard 120mm, 120mm ER rounds and Rocket-assisted bombs		
Recoil Brake Force	<20 tonne (120mm ER Charge 8)		
Crew Size	3 men		

Note: Specifications are subject to changes by the manufacturer without prior notice.

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