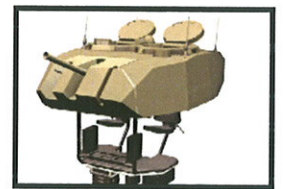
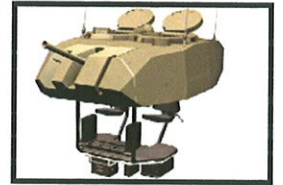
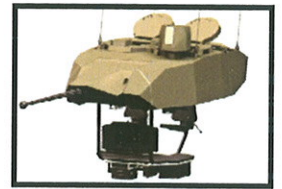
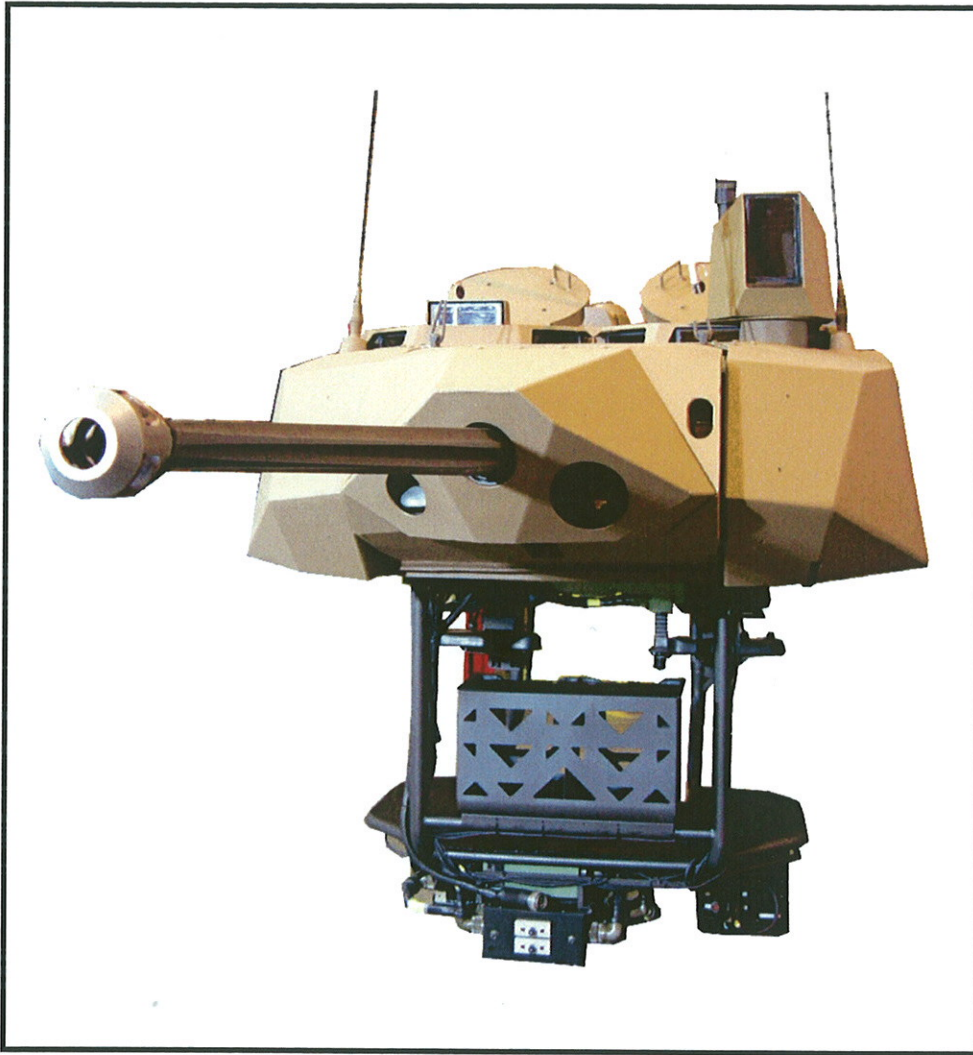


# ADVANCED MODULAR INFANTRY COMBAT TURRET

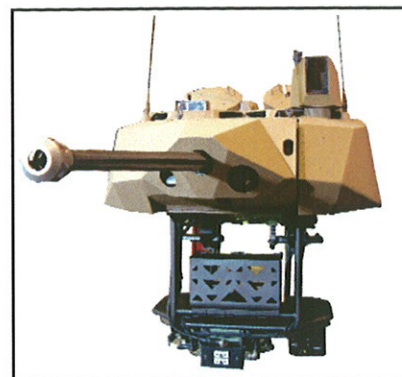


DENEL LAND SYSTEMS



## DIMENSIONS

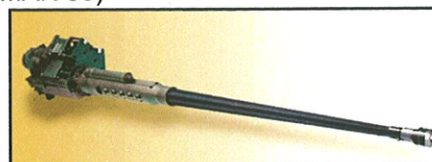
- Mass < 2,5 t (basic protection)
- Height 810 mm above vehicle roof
- Width 2 830 mm Excluding commander sight 303 mm
- Width 2 009 mm
- Length 3 269 mm Basket centre to muzzle  
1 646 mm Centre to turret rear



## FIRE POWER

### MAIN WEAPON

- Main Weapon Denel 30 mm linkless Cam Gun (EMAK 30)
- Calibre 30 x 173 mm
- Muzzle Velocity ~ 1 100 m/s  
APCIT, PRACT, SAPHEI  
~ 1 400m/s (APFSDS)
- Effective Range 3 000 m
- Rate of Fire 180 - 200 in single shot limited burst or full burst
- Feed System Dual, linkless
- Ready Rounds 70 (30 left, 40 right and 4 in feeder)
- Stored Ammunition 210 including ready rounds in turret
- Elevation -10° to +45°



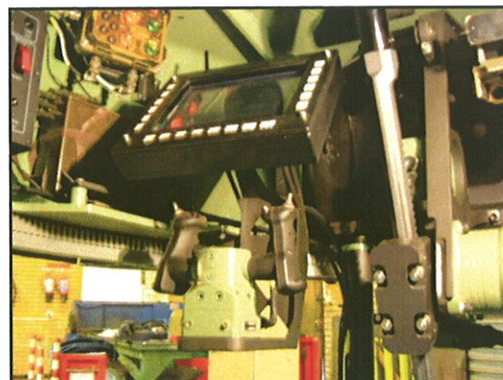
### SECONDARY WEAPON

- Calibre 7,62 x 51 mm
- Muzzle Velocity ~ 840 m/s
- Effective Range ~ 1 000 m
- Rate of Fire 600 - 800 rounds per minute
- Feed System Belt fed
- Ready Rounds 800



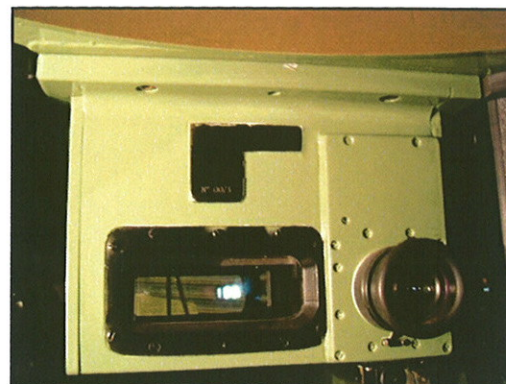
### FIRE CONTROL

- Auto Tracker Optional
- LAN 100 base T TCP/IP  
CAN bus (upgradeable)  
LIW bus (RS 485 ARCNET)
- Fire Control Computer VME running VXWORKS RTOS
- Drives Electrical, stabilised
- Fire on-the-move Yes
- Hunter-killer operation Yes
- Stabilisation Accuracy < 0.4 mrad (1 standard deviation  
Azimuth and Elevation)
- Laying Accuracy < 0.1 mrad
- Firing Accuracy (burst fire) < 0.4 mrad (1 standard deviation azimuth and elevation)
- Single Shot Hit Probability  
Static 2,4 m x 2,4 m target  
@ 2000 m > 65%
- Battle Range Set to customer preferences



## COMMANDER SIGHT

- Commander Sight Primary stabilized 360° panoramic video sight
- Day Channels 2 x CCIR video
  - WFOV 4° or 12°
  - NFOV 2°
- Night Channels Optional
- Range Finder Optional



## GUNNER SIGHT

- Gunner Sight Secondary stabilised video sight, aligned with main weapon
- Day Channels 2 FOV (CCIR video)
  - WFOV 4° or 12°
  - NFOV 2°
- Night Channels 2 FOV (3 - 5 µm cooled IR)
  - WFOV 12°
  - NFOV 2,5°
- Laser Range Finder Erbium Glass, 1,54 µm, eye safe
- Range Performance 5 m accuracy up to 10 km



## AUXILIARY GUNNER SIGHT

- Auxiliary Gunner Sight Direct view optics with aiming reticules
- Magnification 5 x
- FOV 230 mrad

## SURVIVABILITY

- Anti-spall Liners Yes
- Smoke Launchers 2 banks of 4 fixed recessed launchers
- BC Protection Optional
- Active Protection Optional
- Fire and Explosion Suppression Controlled from turret commander station

## OPERABILITY

- Crew 1 commander  
1 gunner
- Radio Communications Turret makes provision for 3 VHF and 1 HF radio, data modems may be accommodated
- Crew Intercom Yes
- Air-conditioning Provided by vehicle
- Spotlight Yes
- Storage Space Yes
- Situational Awareness Commander and gunner – 360° episopes and multi-function flat panel video displays
- Navigation Optional



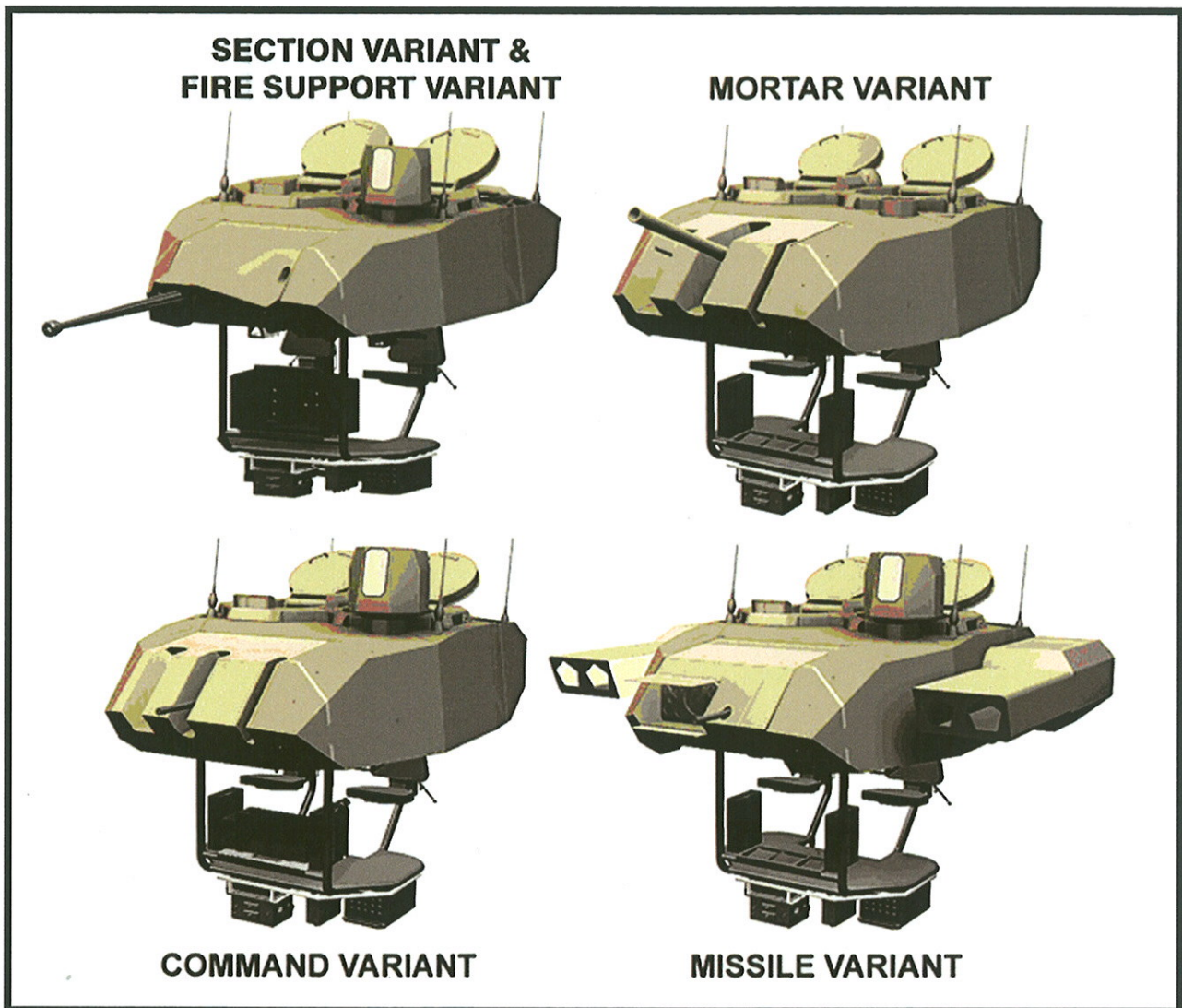
## SUPPORTABILITY

- Modular Design Yes
- COTS/MOTS Components Yes
- Built-in Test Equipment Yes
- Logistic Support Products Full integrated logistic support package available.

## TURRET FAMILY

The LCT-30 turret forms part of a Modular Infantry Combat Turret family developed by Denel as part of the New Generation Infantry Combat Vehicle (NGICV) Programme for the South African National Defence Force. The NGICV programme will provide for five combat variants:

- Section Variants (SV) - Mounting the LCT-30 Turret
- Fire Support Variants (FSV) - Mounting the LCT-30 Turret
- Mortar Variants (MV) - Mounting the LCT-60 Missile Turret
- Command Variants (CV) - Mounting the LCT-12,7 or LCT-40 Turret
- Missile Variants (MSV) - Mounting the LCT-Missile Turret (Denel INGWE Missile)



All turrets are designed around the same basic Fighting Compartment Module (FCM) to ensure maximum commonality and re-use of components and modules.

The FCM turret can be configured to any of the variants depicted, by the addition or removal of armour, sights and weapon system modules.

Denel Land Systems,  
a division of DENEL (Pty) Ltd.  
PO Box 7710, Pretoria, 0001, South Africa.

International Tel: +27 12 620 9111  
Fax: +27 12 620 3466  
E-mail: [marketing@dlsys.co.za](mailto:marketing@dlsys.co.za)  
Web: <http://www.denellandsystems.co.za>

**NOTE:** Subject to improvement of change without prior notice. The document is issued for information only and shall not be deemed to form part of any contract