NDIA - 18360
GUNS, AMMUNITION, ROCKETS & MISSILES
CTA International
Joint venture company 50/50 BAE Systems and Nexter Systems
Dedicated Anglo-French team, focused on 40mm CTAS based in Bourges, France.

Product: 40 CT Armament System
Mission:
• Design, development and qualification of the 40CTAS
• Marketing, sales and where appropriate manufacturing, supplying and supporting the 40CTAS

End 2015 Key Numbers

<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Employees</td>
<td>81 Permanent</td>
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<tr>
<td>20% British – 80% French</td>
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<tr>
<td>Order Book</td>
<td>&gt;€200M</td>
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<tr>
<td>Turnover</td>
<td>€41M</td>
</tr>
<tr>
<td>Year</td>
<td>Event</td>
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<tr>
<td>1988-1993</td>
<td>Technological studies by Giat Industries (GI) caliber: .50 and 35mm. Interoperability demonstration in Bourges &amp; Minneapolis (cal 45mm) – 03/1993. Technical Demonstrator Program launched in the UK.</td>
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<td>1994</td>
<td>18 Oct.: <strong>Creation of CTA International 50/50 JV between RO (BAE) and GI (now NEXTER)</strong></td>
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<td>1997</td>
<td><strong>International Demo by CTA International with Automatic Cannon (cal. 45mm):</strong> AP at 1700 m/s. 2 consortia: SICA / LANCER, UK/US TRACER vehicle.</td>
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<td>2003</td>
<td>Broadening of the CTAI scope activity to CTAS.</td>
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<td>2004-2007</td>
<td>Turret Integration Capability demonstrated under MoD &amp; DGA 40 CTAS turret integration contract. 2 man MTIP &amp; unmanned turret TOUTATIS. Successfull moving/moving firings demonstrated for both MTIP &amp; TOUTATIS.</td>
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<td>2008-2011</td>
<td><strong>40CT Cannon downselected by MoD</strong> (mandated item for Warrior and FRES-SCOUT programs) and préselection by DGA for JAGUAR program. <strong>Growth of reliability</strong> until TRL8.</td>
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<td>2011-2014</td>
<td>Qualification Contract (Canon &amp; munitions).</td>
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<td>2012</td>
<td>CTAS integrated in T40M turret &amp; DEMO DUNE.</td>
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<td>2014</td>
<td>June: <strong>Qualification of Cannon + APFSDS-T + TP-T by UK MOD &amp; Fr DGA</strong></td>
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<tr>
<td>2016</td>
<td>March: <strong>1st serial 40CT cannon delivery to UK MoD</strong></td>
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40CTAS : Cased Telescoped Armament System

- 40 CTAS
  - 40CT Cannon
  - 40CT Ammunition Family
  - Ammunition Handling System
  - Gun Mount
  - Traverse and elevation drive
  - Electronic controllers
    - Aiming drive
    - Gun and AHS
CTA INTERNATIONAL

CT40 – AMMUNITION FAMILY

Less Volume

More Performance

**APFSDS**
- Armour Piercing
- Fin Stabilised
- Discarding Sabot

Defeat of RHA and add-on armours
- 140 mm RHA

**GPR-PD & AB**
- PD + AB fuzed HE ammunition combined in one General Purpose Round
- Point Detonating defeat of structures with behind-structure effect (200 mm)
- AirBurst suppression, both 'line of sight' & 'non line of sight' land and air targets

Defeat of soft skin targets

**TP**
- Target Practice

TMR – Target Marking Round
TPRR – Target Practice Reduced Range
A3B – Anti-Aerial AirBurst
SHORT / MEDIUM TERM APPLICATIONS

**WCSP**
- Final customer: UK MoD
- Prime: Lockheed Martin

**SCOUT SV**
- Final customer: UK MoD
- Prime: General Dynamics
- Turret Supplier: Lockheed Martin

**Other Export**
- Prime: Nexter/ Lockheed Martin/ Other
- Turret Supplier: Nexter/ Lockheed Martin/ Other

**RapidFire**
- Prime: Thales
- Turret Supplier: Nexter

**Jaguar**
- Final customer: French DGA
- Turret Supplier: Nexter
LETHALITY - ARMOUR PIERCING

- Fully stabilised - Fire on the move
- No ready round - select the effect you want
- Effective out to 3000m

Armour Piercing

Penetrates greater than 140mm of RHA @ 1500m
LETHALITY - AIRBURST

- Fully stabilised - Fire on the move
- No ready round - select the effect you want
- Effective out to 3000m

Airburst
Engaging unprotected targets with a lethal area of 125m² @ 1500m
> Fully stabilised - Fire on the move
> No ready round - select the effect you want
> Effective out to 3000m

Point Detonating
Penetrating 210mm or re-enforced concrete @ 1500m
> Fully stabilised - Fire on the move
> No ready round - select the effect you want
> Effective out to 3000m
BATTLEFIELD MISSION

- Fully stabilised - Fire on the move
- No ready round - select the effect you want
- Effective out to 3000m

Infantry Section

30mm
12.5 Rounds

40mm CT
3.1 Rounds
FLEXIBILITY

- Fully stabilised - Fire on the move
- No ready round - select the effect you want
- Effective out to 3000m

Cannon elevates up to 75° for urban environments
With a swept volume of 80L and low recoil intrusion, CTAS releases additional space and improves crew ergonomics.