INDUCTION ROCKET SYSTEMS

- Rocket Launchers
- Rockets
LOGISTICS FOOTPRINT BENEFITS

Less constraints and lower cost of ownership

The use of induction technology combined with digital open architecture brings new added value functionalities

MAINTAINABILITY AND AVAILABILITY

- Maintenance level 1, 2, 3
- 300 shots per replaceable tube
- No shelf life time limit

IMPACT ON PLATFORM MAINTENANCE

- No Foreign Object Damages (FODs)
- Reduced platform maintenance down time

INVIOLABLE ROCKETS

- Encrypted data exchange
- Impossible to use in other launchers
- Impossible to turn into Improvised Explosive Device (IED)

EASY LOADING

- Wireless, no connectors
- One operator without tools
- Loading by the rear

EMBARKABILITY

- Insensitive Munitions (IM)
- HERO, HIRF and thunder safe

SCALABLE DIGITAL ARCHITECTURE

- Health Usage Monitoring System (HUMS)
- Automatic ammunition type recognition
- New digital Interface (1553, 1760)
TACTICAL EFFICIENCY
Safer and more accurate
The new generation of induction rocket systems delivers deep protection and attack solutions for all platform types, for developed armed forces, to the highest NATO standards

PRECISION CAPABILITY
- Unguided rockets three times more accurate
- Sub-metric precision for the guided rockets

HIGHER STOCK KILL
- Lighter rocket weight; 7,5 and 8,8 kg
- Rocket launchers: 2 to 22 tubes
- Combination of ammunition

UNPRECEDENTED LEVEL OF SAFETY
- Qualified to all safety hazards
- Neither hang-fire, nor misfire
- Integrated built-in test before motor ignition

INTELLIGENT FAMILY OF AMMUNITION
- In flight programmable HE Airburst and Laser Guided
- Modular and evolutive ammunition (IR, anti light aircraft and UAVs)

JOINT CAPABILITY
- Multi-platform solutions (jet fighters, helicopters, light aircraft and UAVs)
- Ground or naval solutions feasible
- Possibility of joint ammunition management

ENLARGED MISSION SPECTRUM
- From sea based to progressive and heavy rotation missions
- Qualified up to 100 hours flight time
- Laser guided with low collateral damage warhead
Telson™ 12 CA on Jet Fighter

Telson™ 8 on Recce helicopter

Telson™ 12 CA

12 INDUCTION ROCKETS
- UNLADEN MASS: 85 KG
- MULTI-DARTS ROCKETS: 175 KG
- MAXIMUM MASS: 191 KG
- 14” NATO Lug
- DIGITAL INTERFACE TO PLATFORM

Telson™ 22

22 INDUCTION ROCKETS
- UNLADEN MASS: 65 KG
- MULTI-DARTS ROCKETS: 230 KG
- MAXIMUM MASS: 259 KG

Telson™ 12

12 INDUCTION ROCKETS
- UNLADEN MASS: 43 KG
- MULTI-DARTS ROCKETS: 133 KG
- MAXIMUM MASS: 149 KG

Telson™ 8

8 INDUCTION ROCKETS
- UNLADEN MASS: 30 KG
- MULTI-DARTS ROCKETS: 90 KG
- MAXIMUM MASS: 101 KG

Telson™ 2

2 INDUCTION ROCKETS
- UNLADEN MASS: 9 KG
- NON GUIDED ROCKETS: 24 KG
- MAXIMUM MASS: 27 KG

Combat Aircraft (All Types)
- Designed for the latest generation of jet fighters
  - Rafale or Mirage 2000 of Dassault Aviation
- Adaptable on all the other jet fighters of this type
- Single or burst launching
- In flight programmable and selectable rocket

Combat Helicopters
- All types of helicopters in service
- Capacity of the TIGER:
  - Two 22 tube rocket-launchers
  - Two 12 tube rocket-launchers
  - Instant stock kill: 68 rockets
- Possibility to mix:
  - Guided and non-guided rockets
  - Rockets and air to ground missiles (e.g. Hellfire)
  - Rockets and air to air missiles (e.g. MISTRAL)
  - Or the three kind of munitions together

Light Helicopters
- Specific rocket-launcher for light helicopters (e.g. Gazelle type)
- Liaison helicopters
- Recce Helicopters

Light Aviation
- Bi-tube rocket-launcher for light propelled aircraft
- LH 10 Ellipse of LH Aviation
- Chevalier of ISSOIRE Aviation / ALKAN trigger
- Fixed-winged drones
- Rotary-winged drones, of the Tanan class of Airbus Defence and Space
**Practice / Marking**

**ACULEUS™ P AND P&M**

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<th>RANGE: FROM 500 UNTIL MORE THAN 5,000 METRES</th>
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<td>7,5 OR 8,8 KG</td>
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**Practice**
- Impact effect only (dust)
- Very low cost munition
- Practice
- Marking of target preliminary to a Close Air Support (CAS) action
- Production of a smoke screen

**Multi-darts**

**ACULEUS™ MD-36 AND MD-432**

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**MD-36 (36 darts)**
- Neutralization of light armoured columns of vehicles

**MD-432 (432 darts)**
- Treatment of deployed troops and sensitive assets
- Mixing with HE-IMP and/or HE-MM possible

**High Explosive**

**ACULEUS™ HE-IMP AND HE-MM**

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**HE-IMP (IMpact)**
- Destruction / Neutralization of sensitive elements

**HE-MM (Multi-Mode)**
- Destruction / Neutralization of elements entrenched behind an obstacle ('Airburst' mode)
- Destruction / Neutralization of small infrastructure or vehicle in point detonating mode
- Mixing possible with MD rockets

**Laser Guided**

**ACULEUS™ LG**

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<th>SAL STANAG 3733</th>
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<tr>
<td></td>
<td>ONLY SUBMITTED TO FRENCH EXPORT CONTROL</td>
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<td>LOCK-ON AFTER LAUNCH (LOAL)</td>
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<td></td>
<td>RANGE: FROM 500 UP TO MORE THAN 5,000 METRES</td>
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<td>RISK ESTIMATED DISTANCE ≤ 20M</td>
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<td>8,8 KG</td>
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**Very easy to load, without any tool**

**Non-guided Aculeus™ shot by bursts**

**Test of Aculeus™ LG**

Appointed under the Trade Mark ACULEUS™, our induction rockets can be shot from any launcher of the TELSON™ family, individually on a punctual or moving target, or by bursts on a static surfacing target.
Rich of the expertise of its 62,000 collaborators and its operational presence in 56 countries, Thales is a key player of the security of the citizens, the infrastructures and States.

World leader in numerous domains such as aeronautics, space, ground transportation, security and defense, the Group provides equipment and systems offering decisive advantages in terms of reactivity and response.

Specialized in pyrotechnics and microelectronics, its industrial site of LA-FERTÉ-SAINT-AUBIN is meant to become a center of excellence for the development and the manufacturing of precision weapon systems with terminal guided effect.

The most advanced rocket system in the world