

Move Forward Science with Thales Products & Services

Particle accelerators, high power sources and modulators

Know-how and Assets developed over years

- Design, Manufacturing, Commissioning and Maintenance
- High technical expertise:
 - Advanced calculation means and simulation tools
 - Original patented solutions for outstanding performances
- High industrial quality standards
- Up to complete turnkey systems
 - New systems, upgrades or renovation
- Close cooperation and proven involvement to satisfy customers

Worldwide references:

SOLEIL, ALBA, BESSY, ESRF, CEA, AWE, DGA, CERN, C2RMF at Louvre Museum

Accelerators

- Simulation and design
- Components manufacturing
- System automation

Electron linac

- > 50 MeV for synchrotron or Free Electron Laser
- < 15 MeV for compact X-ray source

Generators - RF sources

Wide range of specifications:

- High Pulsed Power: 100kV-1MV, 10kA-400kA
- RF Power Amplifier: Up to 2MW
- Narrow band or broadband
- 1% to 100% duty cycle

Various principles and technologies including original patented Solid State Power Amplifiers

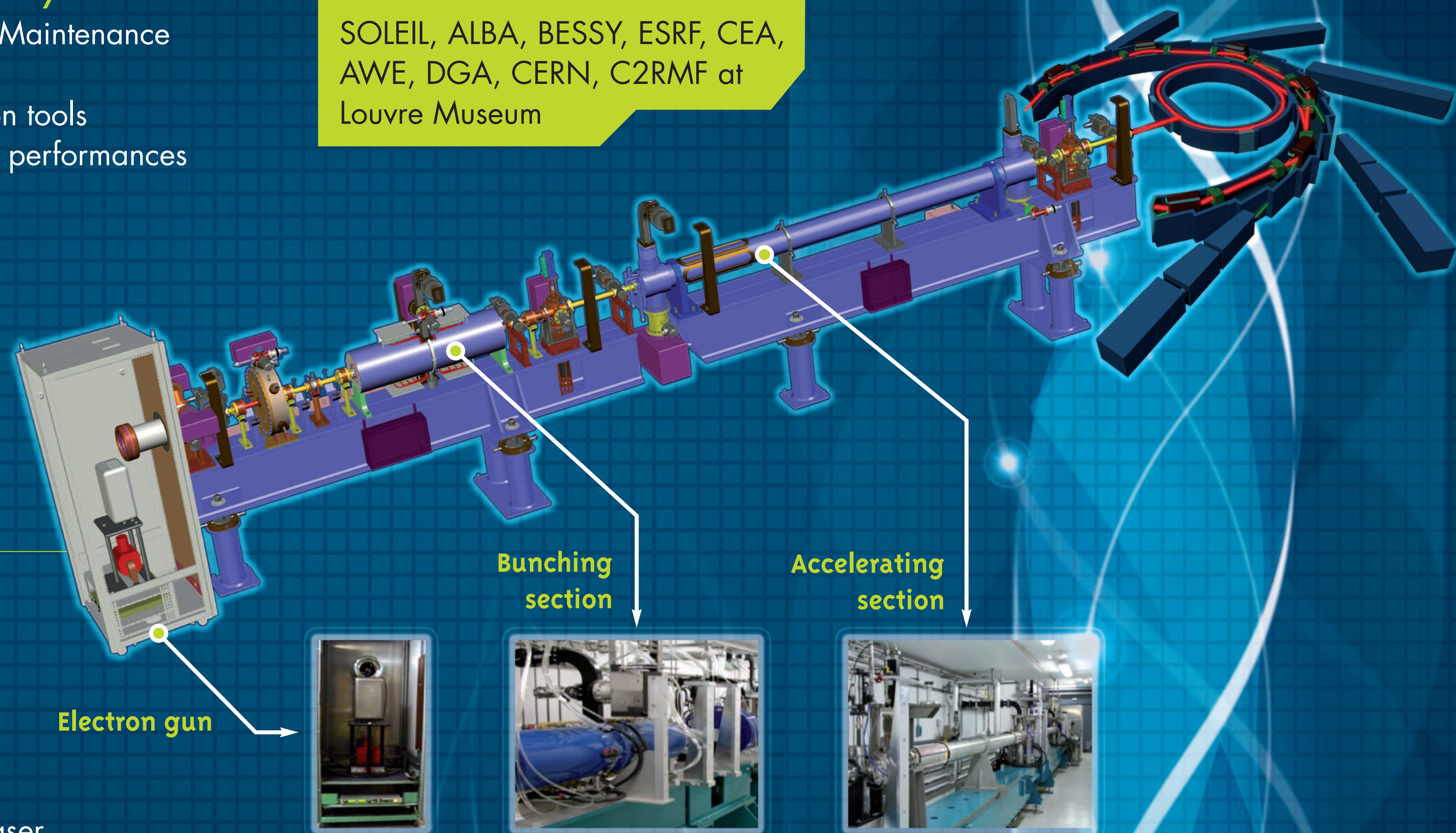
High voltage modulators

For RF and microwaves tubes:

- TWT
- klystron/magnetron

NEW: SICMOS technology as alternative to IGBT

- Higher switching frequency with higher efficiency



Electron gun

Bunching section

Accelerating section

