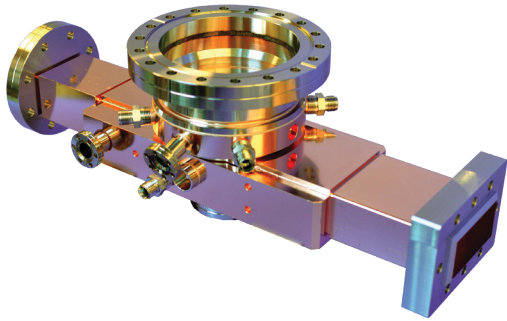


1.6 Cell Photoinjector



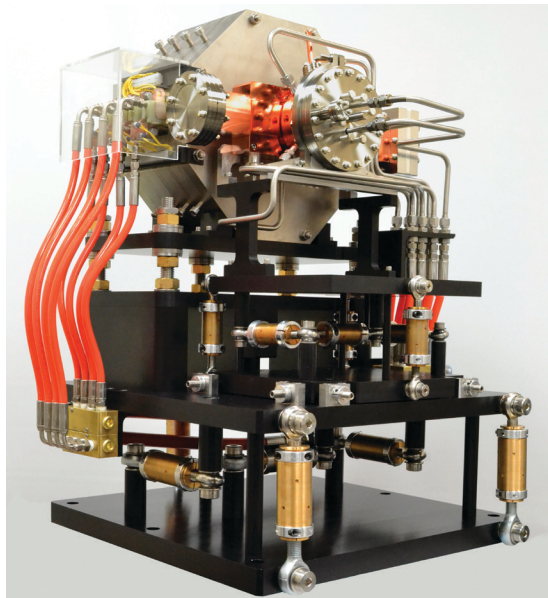
Energy	~5 MeV
Bunch change	500 pC
Normalized emittance.....	< 1.0 μm
π -mode frequency	2856/2998 MHz
RF repetition rate	Up to 120 Hz
0- π mode frequency difference	14 MHz
Quality factor	13,800
External coupling	1.8
Shunt impedance	60 M Ω /m
Peak surface field	102 MV/m
Peak cathode field	120 MV/m
Input power	9.5 MW

AVAILABLE OPTIONS

- ◆ High RF repetition rate, up to 120 Hz
- ◆ Removable cathode
- ◆ Fully positionable kinematic mounts
- ◆ Tunable solenoid
- ◆ Turnkey system with RF transmitter

The RadiaBeam High Repetition Rate Gun features several innovative features, including Z-coupling and enhanced cell-to-cell coupling to produce higher mode separation, symmetric couplers to minimize the dipole mode, and racetrack irises to minimize quadrupole field components. These features, currently found only in state-of-the-art photoinjectors such as the LCLS Gun and the RadiaBeam-produced Sincrotrone Trieste Fermi Gun II and STAR Gun, are achieved with a simpler and more economical single-feed design.

The RadiaBeam High Repetition Rate Gun is available with several options, including a range of external couplings, a matching emittance compensation solenoid, and precision stands. We also offer turnkey services or full injector line development and production.



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Other options are available upon request.
Please contact us or visit our website for
purchasing information.