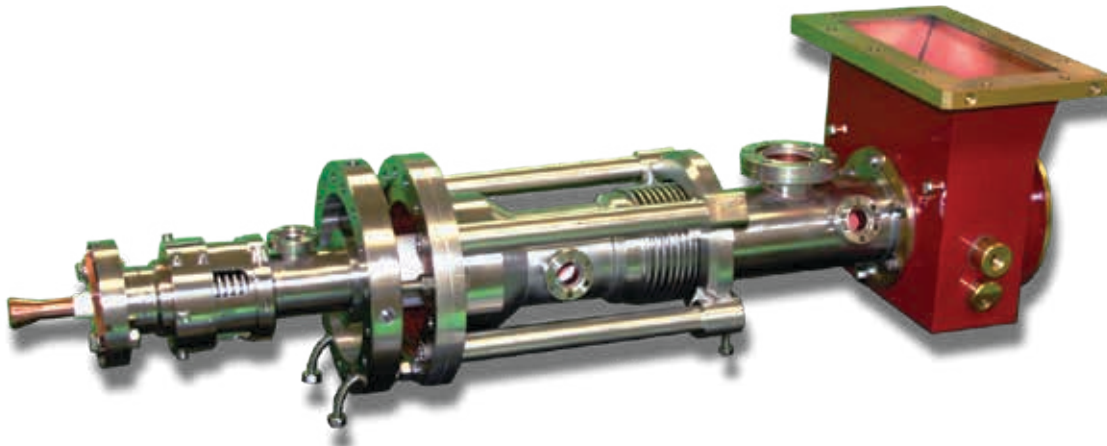


## Communications & Power Industries Power Coupler



The WVP3049 Fundamental Power Coupler is also known as the TTF3 Power Coupler. Designed by DESY for use in the Tesla Test Facility, the TTF3 Power Coupler is the base-line design for the European XFEL and the International Linear Collider. The WP3049 utilizes two ceramic cylinders to provide the vacuum interface. The ceramics are coated with TiN to suppress multipactor. RF-conducting surfaces are electroplated with high-RRR copper. The WVP3049 has been in production since 2003. As of the end of 2013, CPI has built over 110 WVP3049 couplers for Institut de Physique Nucleaire d'Orsay, Fermi National Lab, SLAC, and DESY.

### FEATURES:

- Frequency: 1300 MHz
- Peak power: 1110 kW
- Average power: 7.2 kW
- Cooling: Air

### APPLICATIONS:

- Superconducting linear accelerators

CPI Model Number	Accelerator Application	Freq. (MHz)	Peak Power (kW)	Avg. Power (kW)
WVP3049	ILC Test Area (Fermi, SLAC and Triumf)	1300	1100	7.2



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For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

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