

Company Profile of AIXTRON AG, Aachen Germany

Website: www.aixtron.com

AIXTRON is the world leading manufacturer of MOCVD equipment for compound semiconductor industry with a world market share > 60% and offers its competence in the development, optimization and up-scaling of semiconductor equipment as well as its extensive experience in developing novel deposition processes.

Based on more than 20 years of experience in the development and up-scaling of customized CVD equipment including integrated in-situ monitoring tools and extensive experiences in developing MOCVD processes for III-V-based compound materials AIXTRON is participating in numerous national and international Projects as an equipment partner for the development and production of modern gas phase technologies. The Company's technology solutions (MOCVD, CVD, ALD, AVD[®], OVPD[®], PVPD[®] and PECVD) are used by a diverse range of customers worldwide to build advanced components for electronic and opto-electronic applications based on compound, silicon, organic semiconductor, or carbon nano materials. Such components are used in fiber optic communication systems, wireless and mobile telephony applications, optical and electronic storage devices, computing, signalling and lighting, as well as a range of other leading-edge technologies.

Customer may choose from several system configurations of AIXTRON (Planetary Reactor[®], Tricent[®], OVPD[®] PVPD[®], Close Coupled Showerhead[®]), Epigress (SiC Hot Wall), Genus (Stratagem, Lynx), or Nanoinstruments (Black Magic). The many advantages of the AIXTRON Planetary Reactors[®] include user-friendly operation, excellent process stability as well as very high material efficiencies and world best uniformities. Together with excellent reliability and high throughput, all these properties lead to a valuable device yield and a high uptime.

In 2007 about 600 employees created a revenue of 215 Mio€ and a profit of 20 Mio€.

AIXTRON has a very close collaboration with the technical University of Aachen. Prof. Heuken, Vice President Corporate Research and Development at AIXTRON, is also a professor at the RWTH University of Aachen and focuses here on the education of students in growth by MOVPE and OVPD, materials characterization, device technology, electronic and optoelectronic devices and circuits. Prof. Heuken is author and co-author of more than 300 publications in international journals and several invited papers at international conferences. He was President of DGKK (German Crystal Growth Association), member of VDE/ITG and board member of OptechNet e.V., and EPIC. He has been granted several patents in the field of MOVPE technology.