

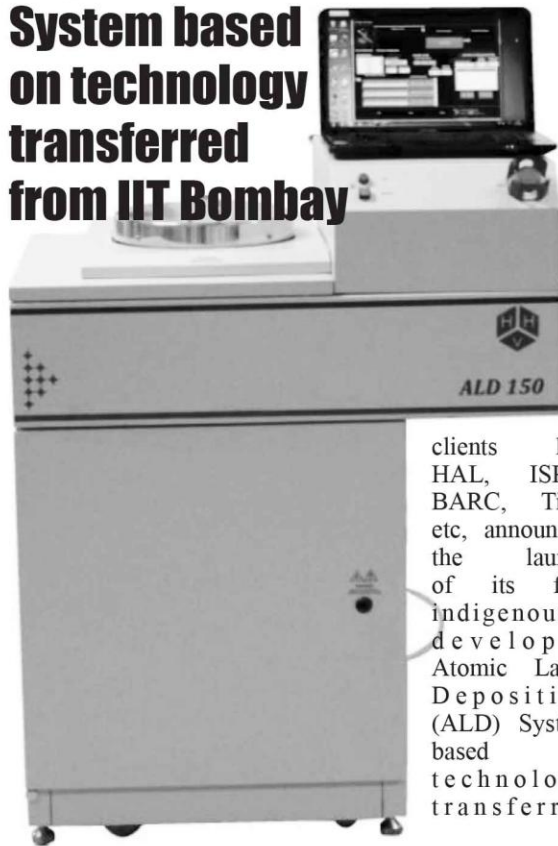
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HHV develops Atomic Layer Deposition System based on technology transferred from IIT Bombay



Mumbai, : Hind High Vacuum Co. Pvt. Ltd. (HHV), a vacuum science and technology company with major

clients like HAL, ISRO, BARC, Titan etc, announced the launch of its first indigenously developed Atomic Layer Deposition (ALD) System based on technology transferred from IIT Bombay. This tool was developed entirely by HHV's Thin Film Technology Division out of its Bengaluru facility as a part of the company's on-going 'Make in India' initiative. The ALD System would be initially supplied by HHV to academic and industrial institutions in India and abroad for research and development in the area of Nanotechnology. .

The ALD process has gained interests in the fields of microelectronics and nanotechnology for manufacturing Nano films. Extensive research activity is on to improve the rate of depositions.

The process improvements will make it commercially viable to find applications in various areas such as electronics, optics, energy, life sciences, sensors, instrumentation, medical, biological, mechanical, chemical,

flexible devices, etc "Atomic Layer Deposition (ALD) is a process technique that builds up thin film layers one monolayer at a time. The deposition technique gives great control over the thickness uniformity on three dimensional surfaces. Pin-hole free films can be deposited over large areas with extreme conformality, repeatability and precision." said Prasanth Sakhamuri, Managing Director of HHV.

"Researchers are currently developing ways to deposit metals and di-electrics in specific locations. The selectivity is the most important property for integration at 5 to 3 nanometer technology nodes.

Looking ahead it is expected that ALD will play an increasingly important role in advancing semiconductor manufacturing and other applications."