

SRB MACHINES CHOOSE SCHMITT DYNAMIC WHEEL BALANCER FOR IMTEX 2009

For the last 4 decades the IMTEX (Indian Metal-cutting Machine Tool Exhibition) has been one of the most important Indian and international events for machine manufacturers to introduce the latest in metalworking machine tools and manufacturing solutions. SRB Machines from Ghaziabad near New Delhi are no exception and IMTEX was a chance for SRB to showcase their CAM650 CNC camshaft grinding machine at 2009's event, held at the BIEC Bangalore International Exhibition Centre from 22nd – 28th January. The machine was fitted with an SBS (Schmitt Balance Systems) automatic wheel balancer from Coventry UK based Schmitt Europe.

The machine model CAM650 CNC is supplied with special software for grinding various types of cam profiles by interpolation of the X and C axis. The machine can also be used for cylindrical grinding. The SBS automatic grinding wheel balancer is a dynamic system, permanently installed on the grinding machine spindle through an adapter arrangement. A vibration sensor picks up spindle vibration caused by wheel imbalance and feeds this information to the SB4500 series electronic controller. The controller drives two tungsten weights inside a balance head – fixed to and rotating with the spindle. The two weights are moved to positions to counteract the wheel imbalance, reducing vibration on the spindle. All of this is done automatically, eliminating the requirement of wheel pre-balance or balancing on knife-edges prior to mounting on the machine. The SBS system can be installed on almost any cylindrical, centreless, roll, creepfeed or surface grinder. An unbalanced grinding



wheel will increase machine vibration and decrease the life of spindle, bearings, grinding wheel and diamond dresser. Poor surface finish, chatter marks, work-piece 'ovality' and grinder/surface burn can often be attributed to a badly balanced wheel. SRB took advantage of the I/O capability of the SB4500 dynamic balancer and interfaced it with the Siemens Sinumerik CNC on the CAM650 machine. The machine can start and stop automatic balancing via the inputs as well as locking the keypad. Useful outputs such as balance in and out of tolerance, spindle RPM and critical vibration are also utilised. "We are pleased with the Schmitt systems effectiveness

and user friendliness" state SRB's Mr. R. K. Singh (Managing Director) and Mr. N. S. Verma (Director Technical). becoming an important addition to many types of grinding machine. We were very pleased to form a partnership with SRB for IMTEX 2009 and they are achieving very low, stable spindle vibration on the CAM 650 range".

SBS Precision Systems (India) have a dedicated service centre and engineers are available for on site diagnostics and installations in India.



"The Indian balancer market is growing rapidly for Schmitt Balance Systems" adds Tim Wood – International Sales Manager at Schmitt Europe. "The drive for increased precision by domestic grinding machine OEMs means that our automatic and semi-automatic balancers are

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