

Schenck RoTec Press Release

Darmstadt, March 2010

The new standard

Flexible system increases the efficiency of crankshaft balancing

With the new CENO, Schenck RoTec presents a complete solution for the automatic balancing of crankshafts. On a footprint of less than 4 m², this twin station machine offers everything for the productive balancing of small and medium sized crankshafts that suppliers and engine manufacturers need today. Whether single cylinder or V6 crankshafts, up to 500 mm long and up to 20 kg, the CENO can be used for the fast and accurate measurement and correction of all common crankshaft types.

Depending on the relevant manufacturing strategy, the CENO can be configured for either manual or automatic loading. Since it is designed with an overlapping cycle for measurement and correction of two crankshafts simultaneously, it can replace up to four manual balancing systems, according to the calculations of the Darmstadt manufacturer! The operator loads the unbalanced crankshaft and removes the balanced part – all other process steps (unbalance measurement, correction, audit check) take place automatically. In practical tests, average cycle times of well below one minute have been achieved.

The economical answer

With the CENO, Schenck RoTec has produced the most efficient balancing centre in its class. The operating costs of the machine alone have been reduced by 35%! This has been achieved by the use of energy saving drives and the consistent application of light construction principles, as well as by dispensing with inefficient hydraulic and cooling systems. The basis for effective working with the CENO is created by the advanced and consistent operating concept of the machine: The mechanical set up is quick and easy, the measurement system (CAB 950) and the control equipment (Siemens) are self explanatory, the many operating aids (such as the multi-function button) guide the user through the process and all functions of the machine are very easily accessible. Further productivity advantages of the CENO include dispensing with master weights, fast tool change over and simple swarf disposal. The operation

of this balancing centre can be mastered in a very short time, and makes a convincing and thoroughly economical overall solution.

The new CENO from Schenck RoTec is the perfect answer to the trend towards more fuel efficient engines with small crankshafts ("downsizing"). At the right time, suppliers in engine and vehicle manufacture, now have a highly efficient balancing solution with which they can significantly reduce their processing costs. The CENO also makes the ideal initial step towards automation.

Contact

Schenck Limited

Nigel Best

Tel.: +44 (0) 1926 / 474 090

Fax: +49 (0) 1926 / 474 033

nigel.best@schenck.co.uk



Fig.: General View