

ITALIAN MACHINE TOOLS, ROBOTICS & AUTOMATION INDUSTRY ~ NEWS

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PIATTAFORMA INDIA PROJECT

NEWSLETTER NO. 87



UCIMU-SISTEMI PER PRODURRE



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HORIZONTAL BALANCING MACHINE

The balancing machine we are proposing is 'hard bearing' type. This feature allows to easily calibrate the machine and to obtain the best possible measuring accuracy.

Machine calibration is simply achieved by setting rotor geometrical dimensions. This done, after one spin only and independently from the rotation speed, the machine automatically displays the value in grams and the angular position of unbalance for both planes. At the end of the cycle, the balancing machine instrument keeps this data in the memory.

The measuring cycle is fully automatic; in fact, by pressing the start button, the machine accelerates the rotor progressively, completes the unbalance search cycle, stores the obtained data and decelerates the rotors till stop. Depending on rotor inertia, this operation is completed in a few seconds.

Many other special functions are also available on the instrument panel and this thanks to the experience we have accumulated in more than 30 years manufacture of hard bearing balancing machines.

Our machines make use of piezo-electric force transducers and this ensures remarkable advantages when compared to the 'semi-rigid' or 'dynamometric' system with electro-dynamic pick-ups as in use by other manufacturers.

In fact, thanks to the mechanical rigidity of these new type transducers, a wider range of application is ensured, since the measuring of the relative elasticity of the pedestals is not altered.

With the 'dynamometric' or 'semi-rigid' system it was in fact necessary to come to a compromise between the pedestals stiffness (necessary for maintaining the assembly rotor-pedestal far from the critical speed and thus allow the dimensional calibration) and the must to pick-up in any case a displacement of the pedestals by means of an electro-dynamic transducer.

By making use instead of the piezo-transducers, it is no more necessary to have any relatively elastic element. This implies that a large size balancing machine may also balance very light rotors with the same accuracy obtainable with a small size balancing machine and that wider application (stiffness) range may be obtained in comparison with semi-rigid balancing machines having same dimensions.

Model ZB20/TC/GV



A belt drive machine with measuring instrumentation.

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The project Piattaforma India has been promoted by UCIMU – Association of Italian Machine Tools Manufacturers and AMAPLAST – Italian Plastics and Rubber Processing Machinery and Moulds Manufacturers Association. The two associations agreed on the idea that promoting a network of associations and entrepreneurs who have developed knowledge and experience on the Indian market, can be useful in favoring of new paths of development for business. The Indian companies who are interested to form JV, cooperation, technical tie up, purchase machinery etc from/with Italian companies can contact below mentioned address for any assistance:

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