

ABSTRACT OF THE DISCLOSURE

The present invention relates to an improved rotor balancing system which allows for fine tune onsite adjustment for turbomachinery. The rotor balancing system comprises a rotor element having a row of locating slots and a device for reducing windage effects caused by the locating slots and protruding anti-rotation pins. In a preferred embodiment, the device for reducing windage effects comprises at least one balancing ring which partially or fully covers the locating slots and internal slots for engaging and disengaging that does not protrude outbound of the ring. Each balancing ring is preferably provided with two integrally formed anti-rotation members for engaging the locating slots. Each balancing ring is also preferably provided with a slot in a weighted portion of the ring for receiving a tool for positioning the balancing ring in a desired position. A method for positioning the balancing ring on a rotor element using the slot and the tool is also described herein.



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