

**Save thousands of pounds on wheel weights with the new 'economy' balance program featured on the megaspin 400-2, 800-2 and 900P models**



# Weight Wizard



'Weight Wizard' represents an alternate approach to balancing a rim and tyre, totally turning the traditional corrective calculation on its head and saving the owner thousands of pounds during the lifetime of the balancer.

## **What is WEIGHT WIZARD?**

Weight Wizard is a new function that is designed to reduce the cost of ownership of a balancer by limiting the quantity of wheel weight required to balance a wheel to within a satisfactory tolerance. Traditionally when carrying out a 'dynamic' balance the machine looks at the dynamic imbalance (i.e. side to side) by looking straight at the rim in 2 planes (i.e. inner/outer). Weight Wizard firstly eliminates all the static imbalance (the bit that the driver really feels) and then, based on several key parameters, calculates the minimum amount of corrective weight needed to bring the dynamic residual imbalance within acceptable limits.

## **Apart from saving money on weights, what other benefits can WEIGHT WIZARD offer?**

Unquestionably the other major benefit has to be aesthetics. With wheel weights now being of larger mass than traditional lead weights in order to achieve the same weight, anything that reduces the amount of visible weight has to be good. This, in turn, makes carrying out a behind spoke balance a much easier, tidier and more cost effective process.

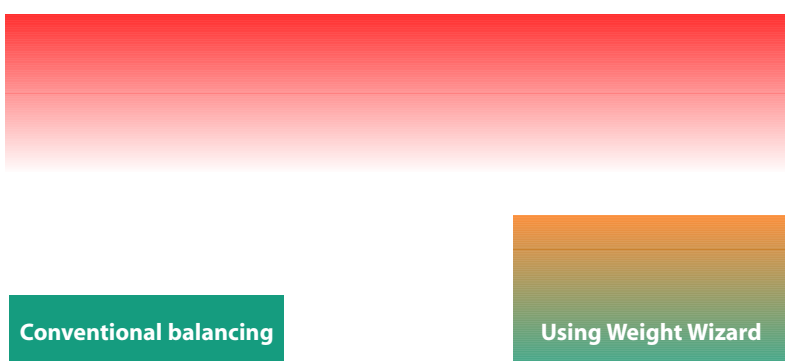
## **But is WEIGHT WIZARD still accurate?**

In all honesty that is a point for conjecture. Some wheel balancer manufacturers who have similar weight saving programs will hail them as being 100% accurate, but it depends on how you view 'accuracy'. It is certainly not 'perfect', how can it be? But as already stated it does provide a balance within what we as a balancer manufacturer accepts as 'tolerable'. It is for this reason that economy programs are not, in our opinion, for every job. Particularly sensitive vehicles (or indeed customers!) may be best served using traditional, conventional balancing methods. But the beauty of Weight Wizard is that you have the flexibility to use it in the right areas; simply turn the function on or off – it's as simple as that.

## **So does Weight Wizard make a mockery of using stud plates in order to improve mounting and therefore balancing accuracy?**

Absolutely not. Anything that improves the accurate mounting of a wheel will have a huge, positive effect on the balancing results. So, in fact, if you intend to operate an economy balance then using stud plates will improve its accuracy.

The diagram below displays the theory of Weight Wizard in a simple format:



This is the point considered to be the safe maximum before vibration is noticed by the driver.

The Weight Wizard program permits a higher threshold, but remains under the 'maximum tolerance' point deemed acceptable by the machine. And remember, the static imbalance is still 100% eliminated, regardless of dynamic tolerance.