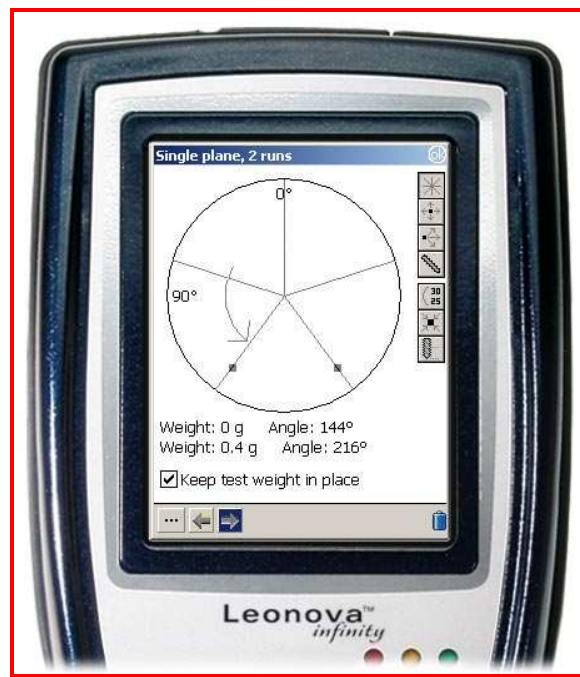


KEY PMR'S

DYNAMIC BALANCING IN SPM

DETAIL PROCEDURE



PURPOSE

1 - To reduce the fan vibration due to unbalanced mass on the rotor

SAFETY

1 –The process involves running and stopping the equipment for intermediate jobs like welding initial mass . final mass , & intermediate reading for corrected mass required , so for all these jobs the electrician needs to be present till end of the balancing and a format indicating power to on and off to be maintained with signature of electrician and the job owner .The format is attached here , at the time of job a copy to be attaché din the work order to carry out the process .

			Sign	
	Time	Reason	Job owner	Electrician
1st start				
1st stop				
2nd start				
2nd stop				
3rd start				
3rd stop				

STEPS: DYNAMIC BALANCING OF A FAN IN LEONOVA INFINITY.

1. Run the fan, take the reading, and check the vibration at 1 x rpm & over all horizontal vibration contributing to 1 x rpm.
2. Put the sticker at shaft with one line number the impeller vanes in the direction of rotation run the fan. get vibration from the machine.
3. Put appropriate weight on the impeller starts 0 or 1 i.e. 1st impeller vane you numbered.
4. Run the fan again & get v. and final weight in fix with removal of trial weight.
5. After welding the final weight, run the fan & take reading.
6. If it is not decreased to the extent you desire repeat it.

Before doing dynamic balancing, make sure the bolts are lightened & there is no axial & vertical vibration.

$$0 = 360/8 = 45$$

If final w1 = x gm & degree

b = 135 it will be on 4th line.

