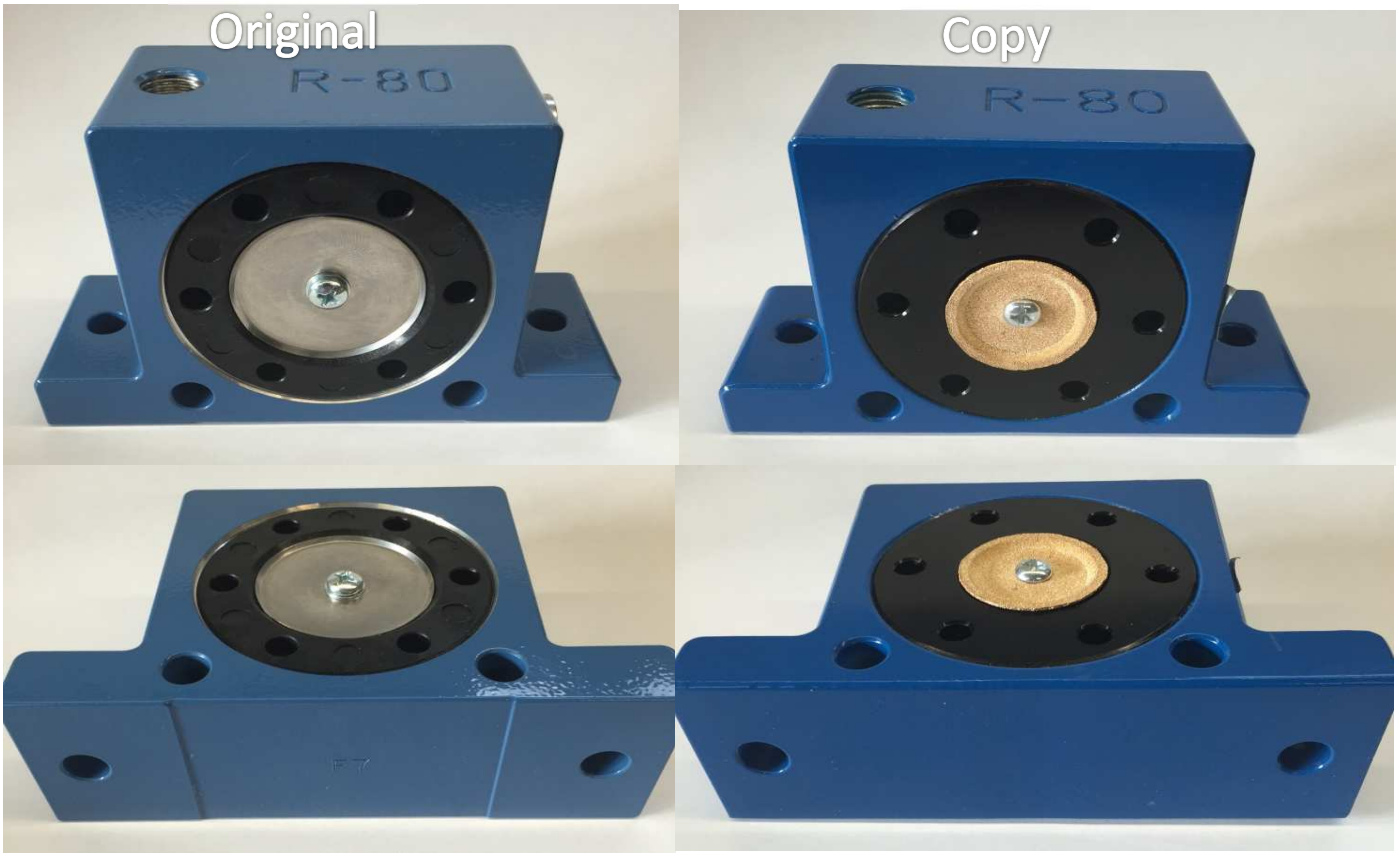
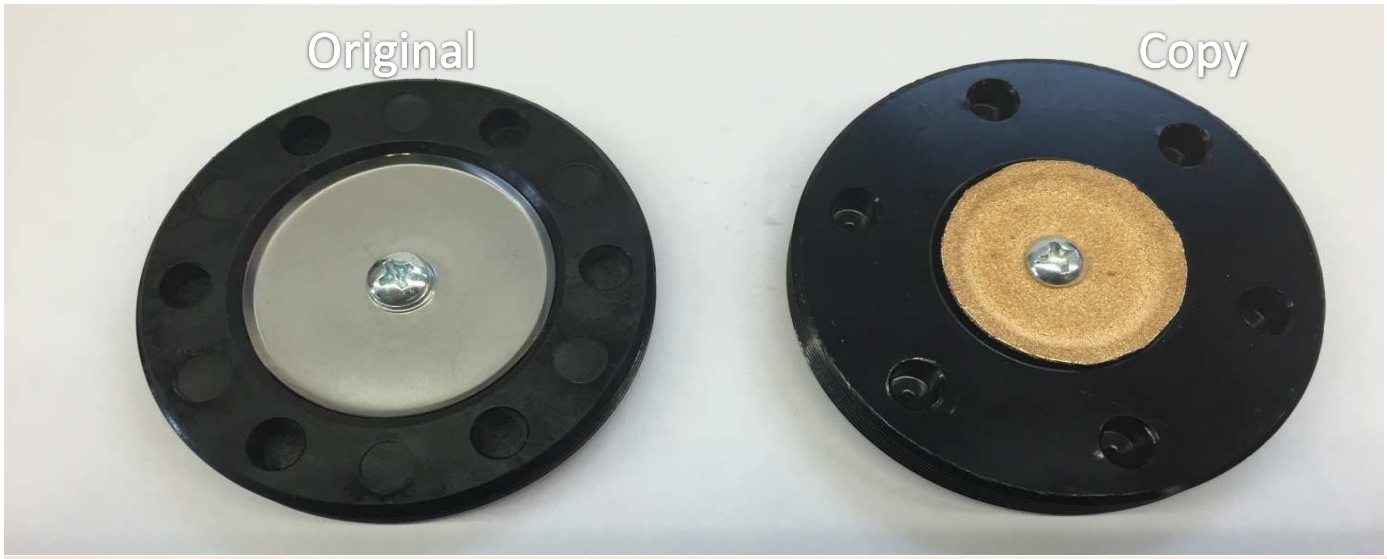
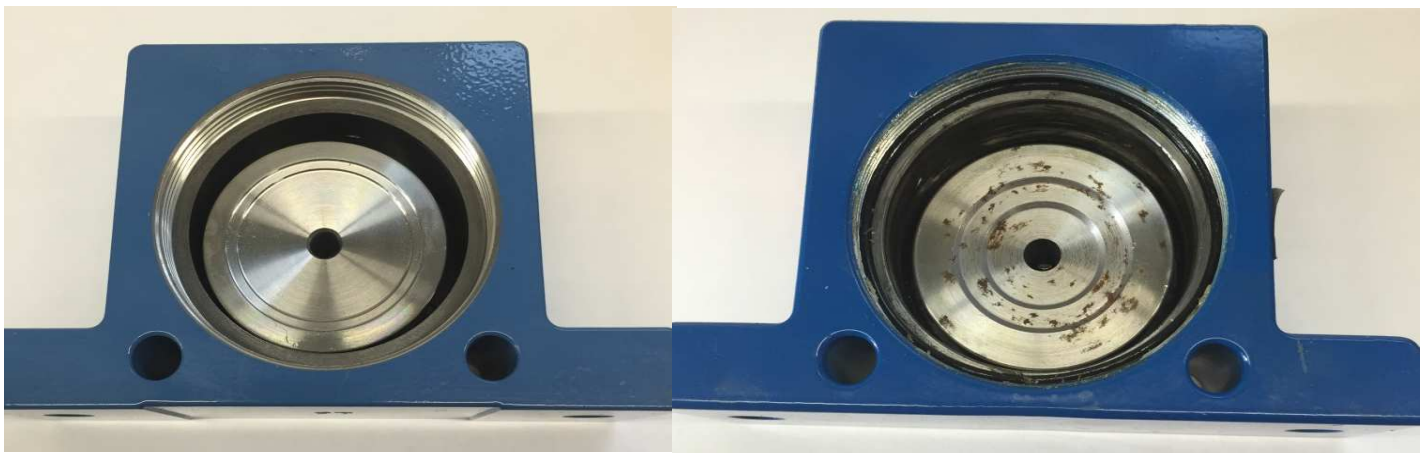
Vibrator benchmark test FINDEVA R

	Original R-80	Copy R-80
at 2 bar		
Force (N)	3'000	420
Frequency (min^{-1})	15'500	not measurable
at 4 bar		
Force (N)	6'090	800
Frequency (min^{-1})	18'500	6'000
at 6 bar		
Force (N)	7'450	950
Frequency (min^{-1})	19'000	7'000

Pictures:

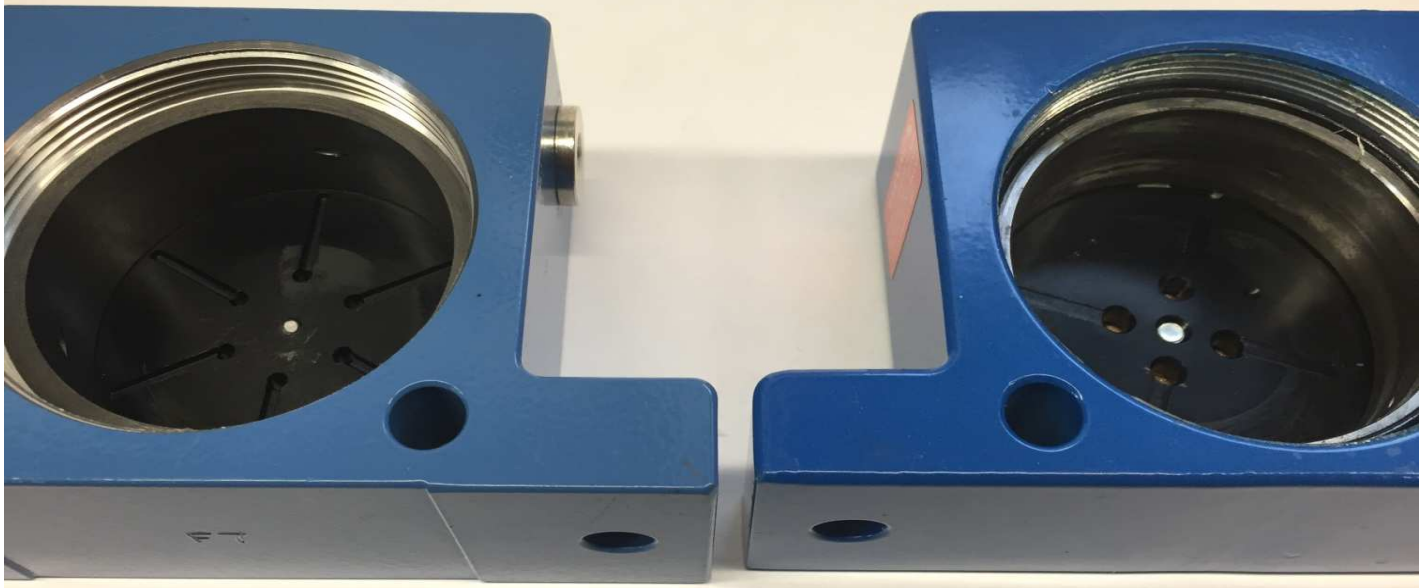


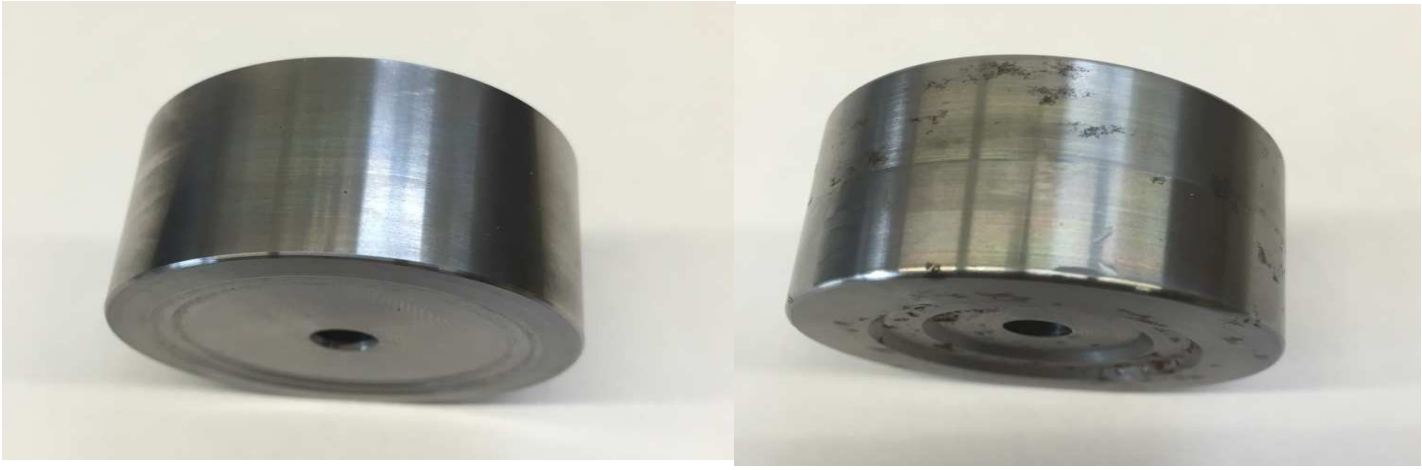

Original
Copy



Original

Copy





The big difference between the vibrators is the bearing race. We pull-in the race bearing under temperature process, the copy's race bearing is just pull-in and "safed" by 2 o-rings. So race bearing could be turn while running.
The tolerance between roller and race bearing is also different.
We have 3/100mm and the copies have 27/100mm tolerance.
That means, the roller have more space to roll right and left while it running, it could damage end caps.