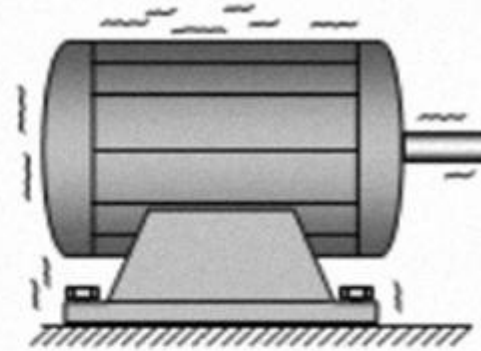


# Methods and methods for measuring vibration. Vibration diagnostics.

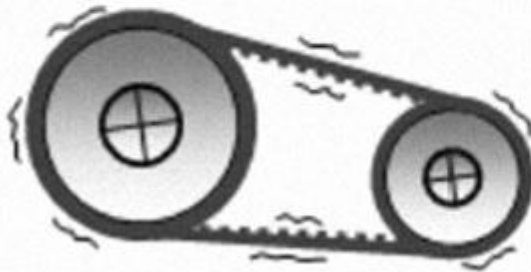




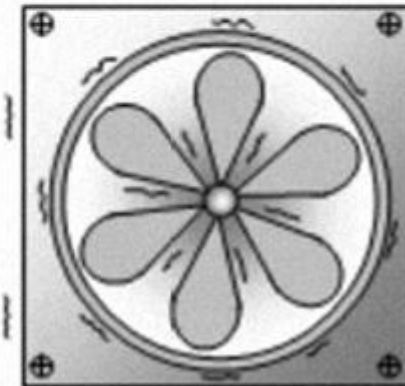
**pump vibration**



**engine vibration**

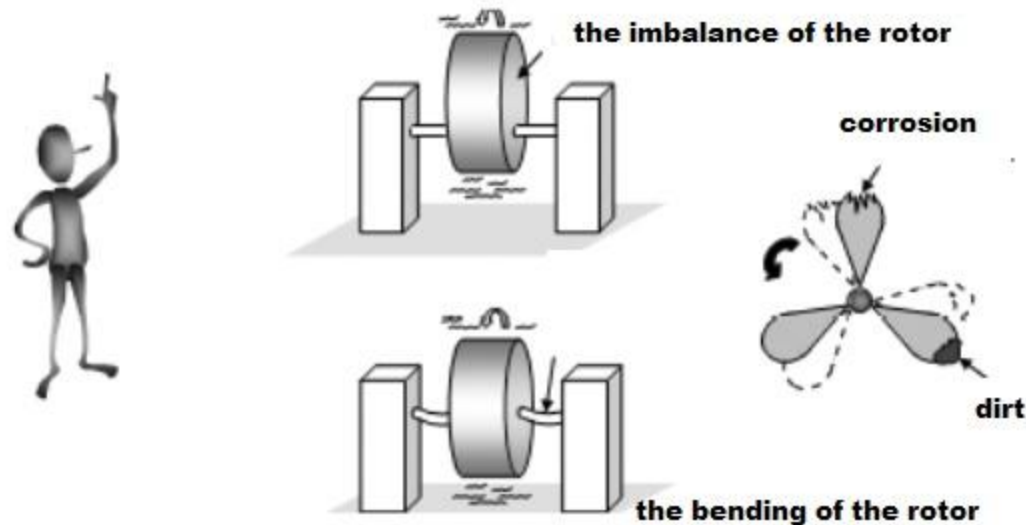


**belt vibration**



**the vibration of the fan**

# Where do the periodic forces that cause machines to vibrate come from?



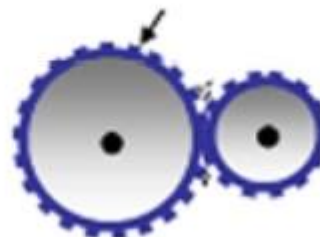
Where do the periodic forces that cause machines to vibrate come from?



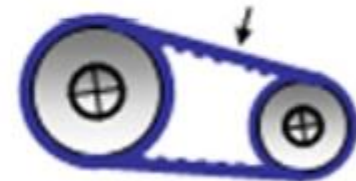
**wear of rolling elements**

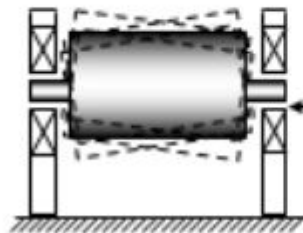


**wear of the teeth**

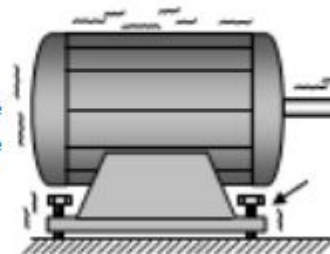


**belt wear**





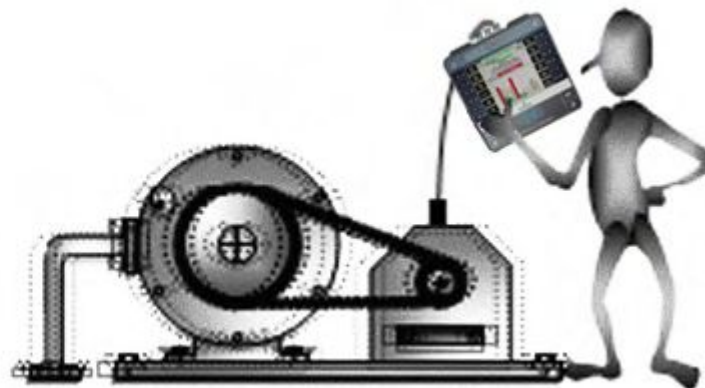
**excessive  
clearance**



**loosened  
bolts**



# Let's make a diagnosis!



Thank you  
for  
your attention!