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TRANSMISSION PVT LTD

WHY BUY A LOOK ALIKE WORM GEARED MOTOR??

WHEN YOU HAVE THE ORIGINAL..

A STUDY ON THE ORIGINAL VS LOOK ALIKE

Today the Indian market is flooded with light duty worm gear units...especially the aluminium casing units.

Surprisingly, all of them look alike!!

Are they designed well enough to take care of your customer needs?? Or

Are they designed to meet the cost thereby compromising performance??

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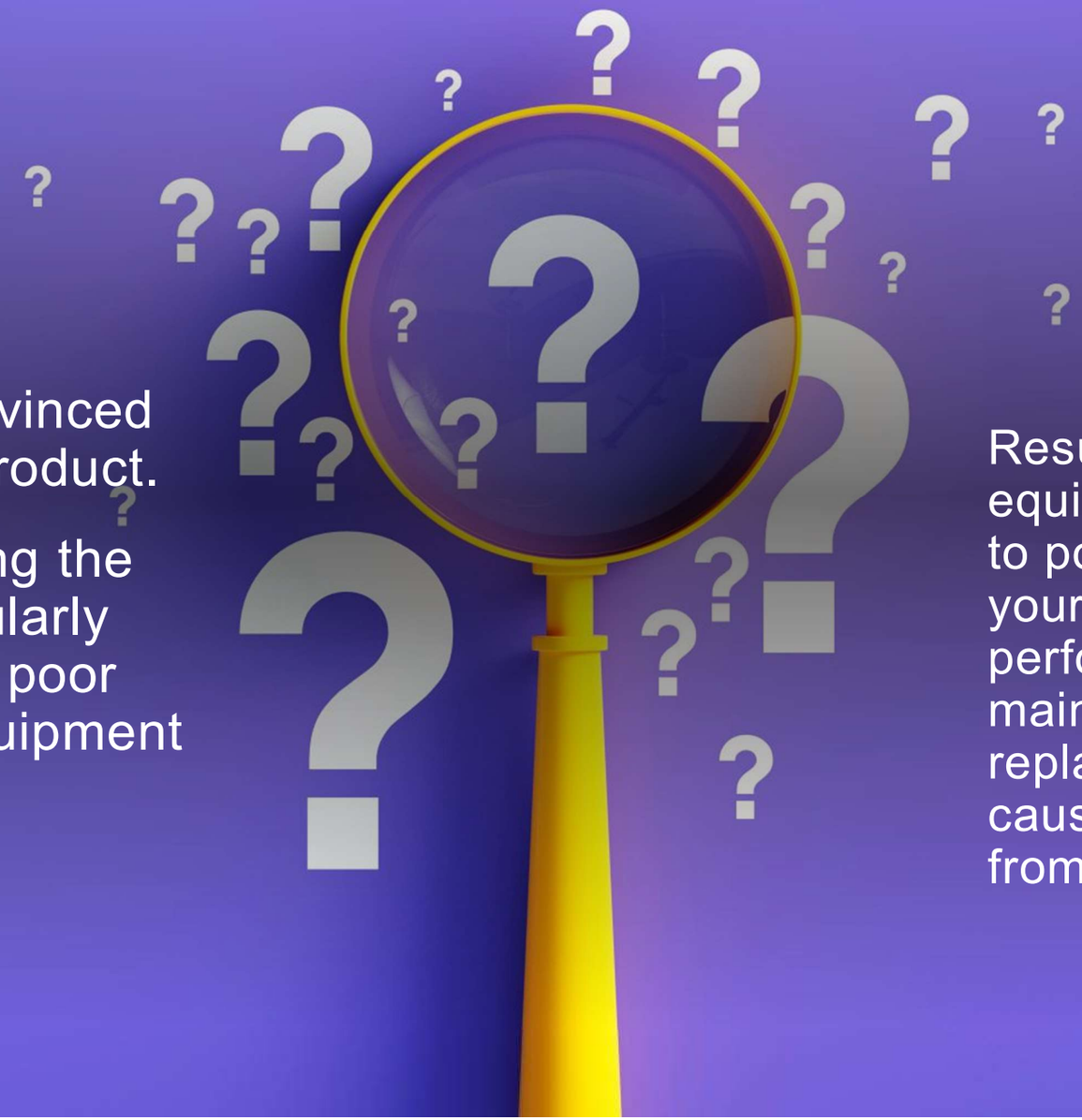
WHAT ARE THE IMPLICATIONS??

Today you were convinced to buy a mediocre product.

Your customer, during the product lifetime regularly suffer on account of poor availability of his equipment to produce the final product. The culprit mediocre products.



Result, OEE of the equipment suffer leading to poor delivery and affect your customer performance. Frequent maintenance and replacement of parts can cause mental strain apart from time loss..

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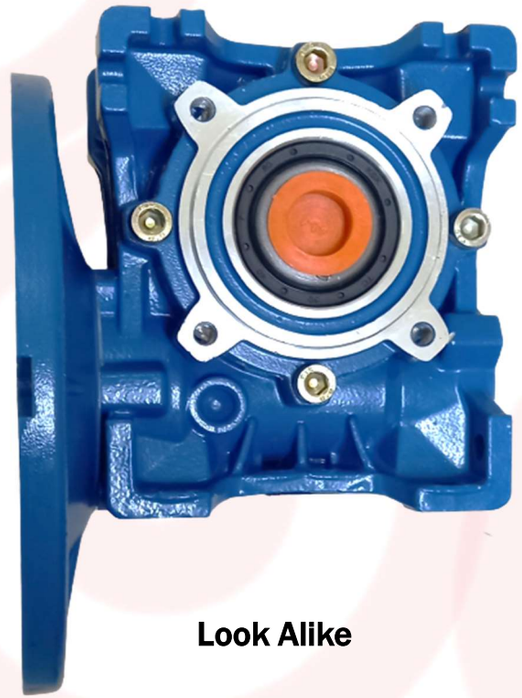
LEFT SIDE VIEW

Observation on Look Alike:

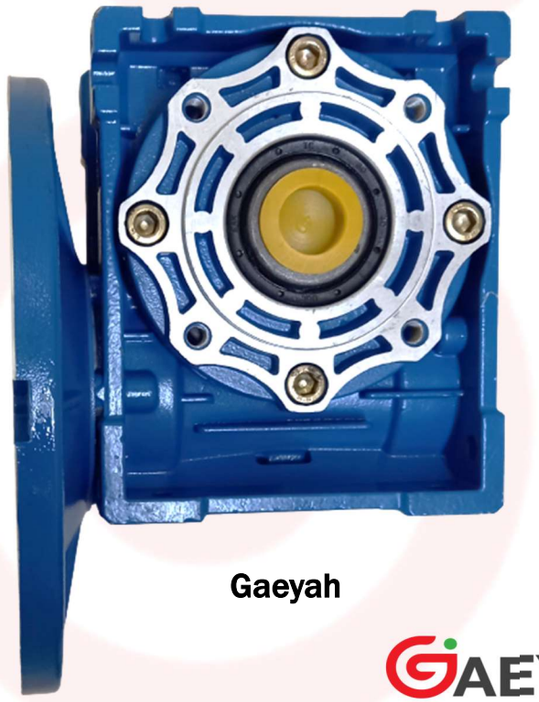
Rectangular casing is cut inward on sides to save metal cost

Result:

Stability of the casing is affected. It can result in more vibration leading to bearings and seal damage



Look Alike



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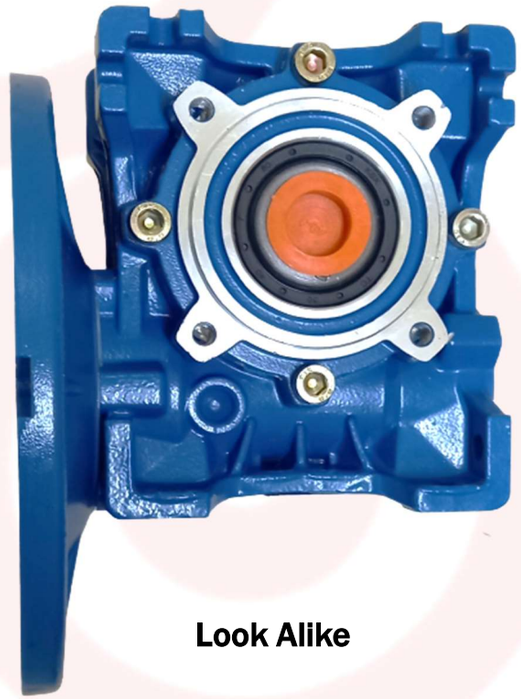
LEFT SIDE VIEW...

Observation Look Alike:

Output mounting surface is considerably reduced, leading to reduced support to geared motor

Result:

Often it can lead to loosening of mounting bolts and damage the connected equipment and geared motor parts



Look Alike

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TOP VIEW

Observation Look Alike:

The base is cut, just to accommodate the bolts. No fins.

Result:

The geared motor always runs at high temperature.

Heat generated in worm geared motors as follow:

- on account of sliding friction between the worm and and wheel
- the bearing frictional losses
- windage losses
- Oils seal friction losses

Worm geared motors required large surface area to dissipate the generated heat. if the surface area is reduced, the generated heat continue to raise the lube oil temperature.

Look Alike

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TOP VIEW...

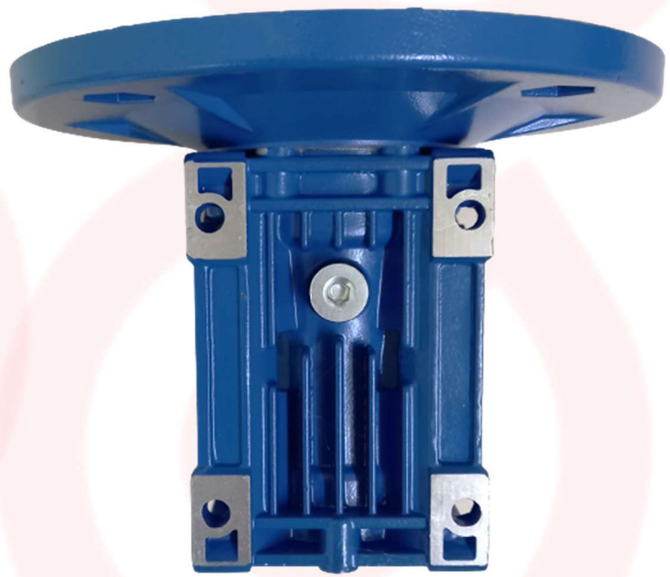
Observation Look Alike:

Mounting holes Open up

Result:

It offers flexibility while mounting. Most of the time the bolts get loosened and the geared motor start moving during running and can damage the housing and the connected equipment

Look Alike



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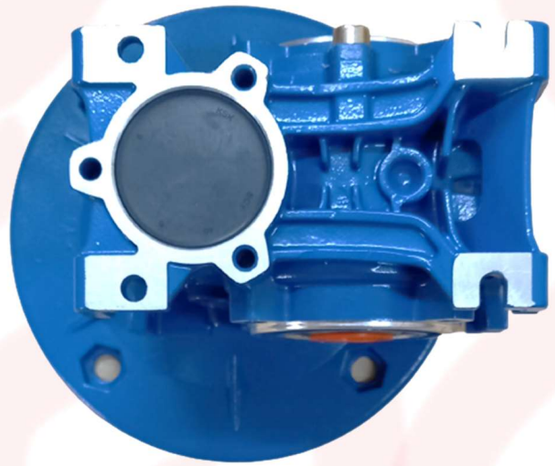
NON DRIVE END VIEW

Observation Look Alike:

Low quality Bearings and Seal used inside the geared motor

Result:

Heat generated in worm units is transferred to atmosphere through the fins and casing by means of conduction, radiation and convection. Hence large surface area allows the gear unit to run at less temperature. If the generated heat is not transferred the lube oil will lose its property and the worm wheel will wear out quick also damage bearing and seal. Apart from frequent change of lube oil.



Look Alike

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NON DRIVE END VIEW

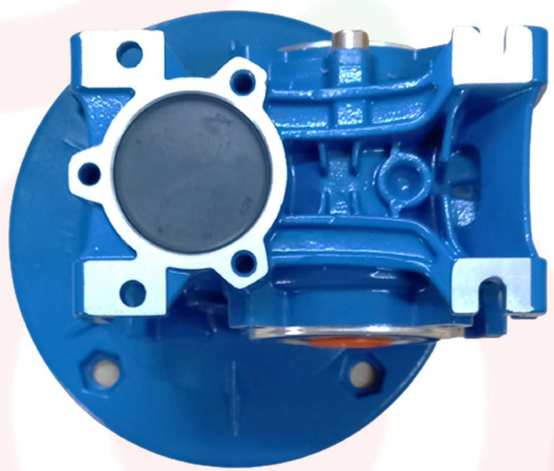
Observation Look Alike:

The base is cut just to accommodate the bolts. No fins. Lead to high temperature on gear unit.

Low quality Seal used

Result:

Heat generated in worm units is transferred through the fins and casing as they absorb heat transfer it to air by means of convection and radiation process. Hence large surface area allows the gear unit to run at less temperature.



Look Alike

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THE PAIN OF USING POORLY DESIGNED PRODUCTS WILL SCARE YOUR CUSTOMER...

DON'T COMPROMISE YOUR BRAND VALUE FOR FEW BUCKS??

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