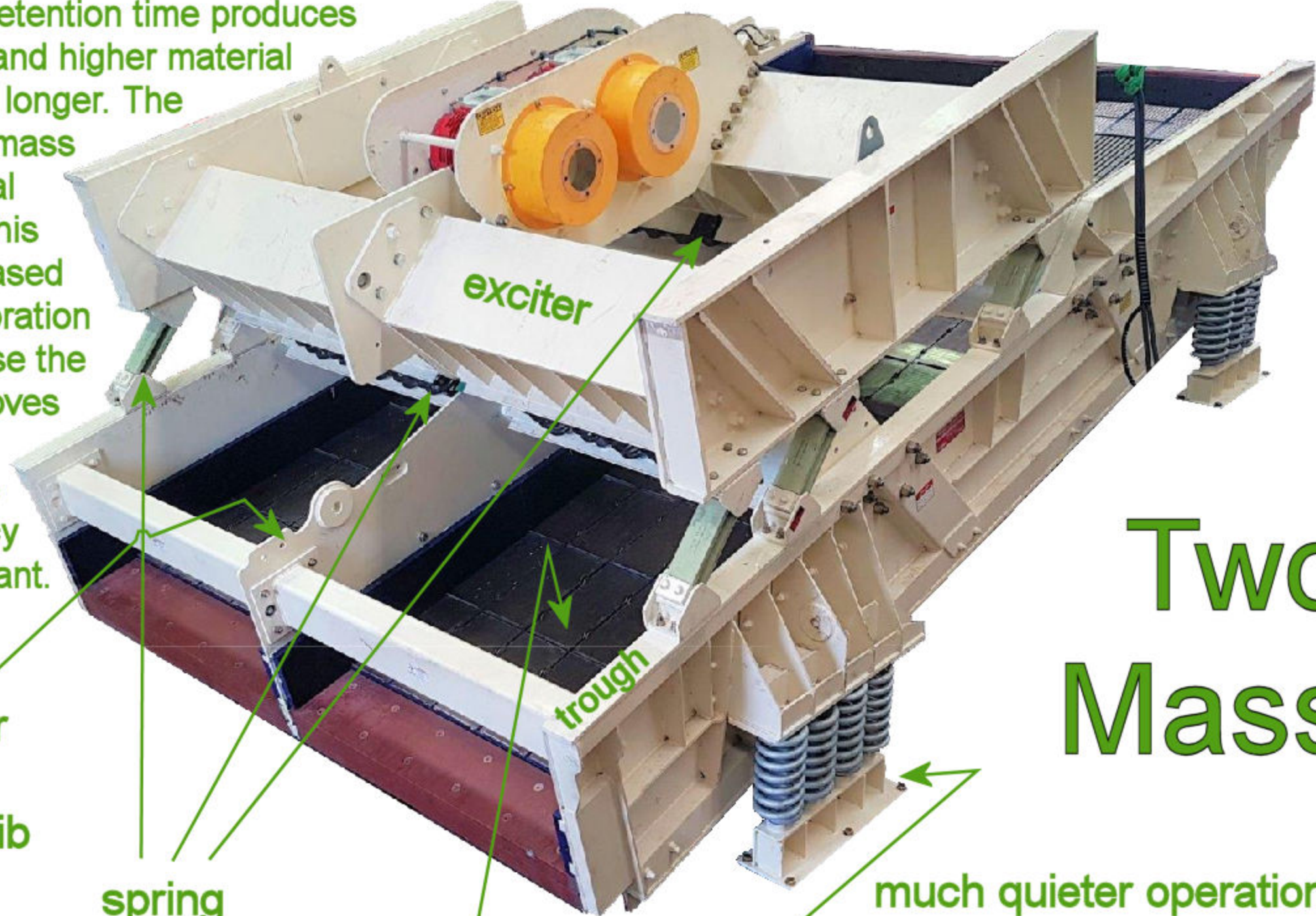


**Pictorial Explanation of iPUT's
Step Change Screening Technology***

*iPUT Pty Ltd has patented the Methodologies of implementing this Enabling Technology to extract maximum performance value from process modifications in coal, iron ore and minerals.

Next Gen Two Mass Inclined Screen Design

The uniformly excited trough, constant bed depth and double the retention time produces better stratification and higher material activation, for much longer. The exciter section's lower mass means ~50% less total energy req'd to do this much bigger job. Increased load increases vibration amplitude because the system response moves closer to resonant frequency, and the screening efficiency remains fairly constant.



**Two
Mass**

much stronger due to centre strengthening rib and evenly distributed force.

spring coupling system

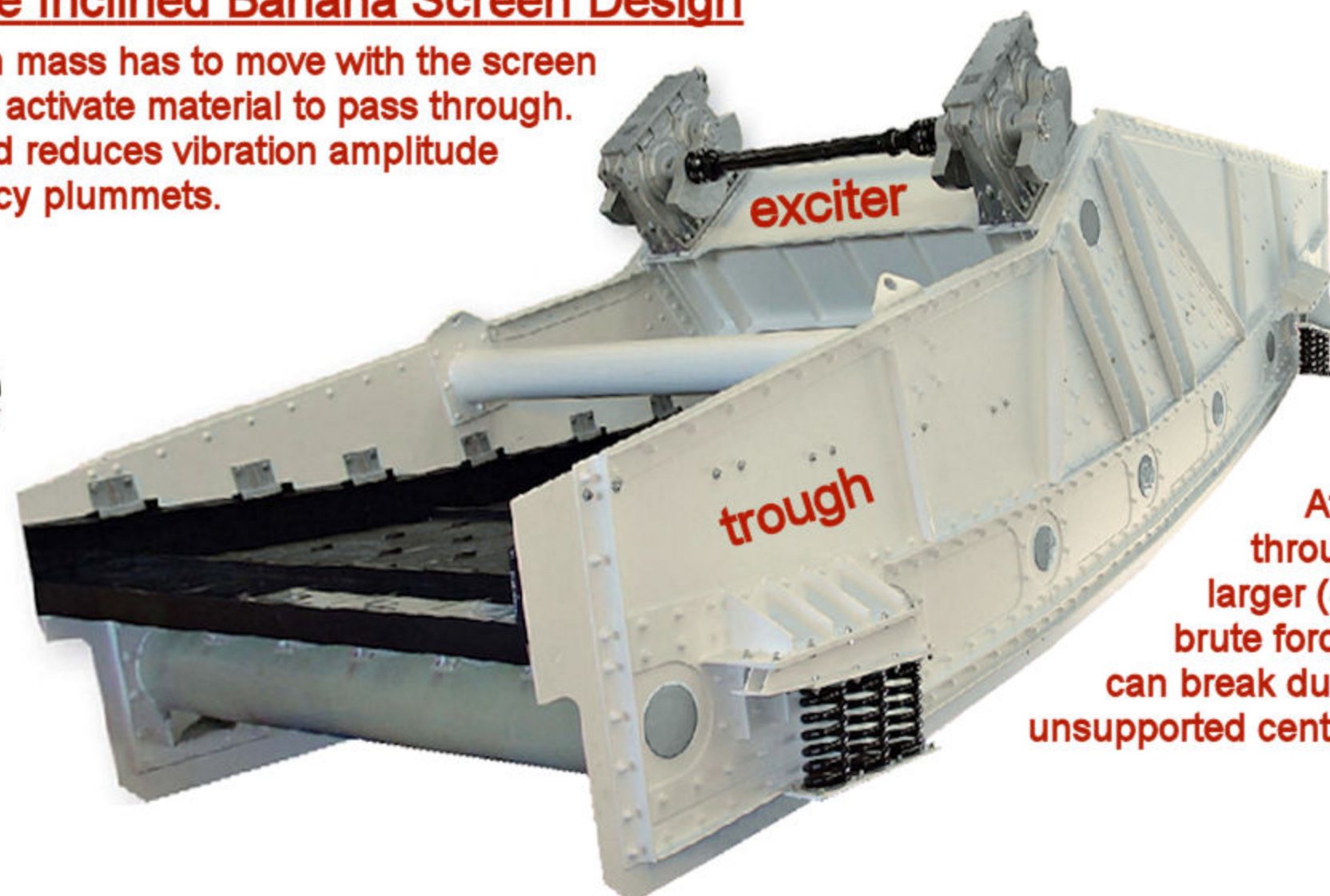
triple deck life due to bouncing action, not sliding

much quieter operation with lower vibration levels transmitted to structure due to 'open - shut' action which cancels out most vibration. A simple add-on can virtually eliminate it.

Modern Brute Force Inclined Banana Screen Design

The entire screen mass has to move with the screen deck in order to activate material to pass through. Increased load reduces vibration amplitude and efficiency plummets.

**Brute
Force**



At higher throughput rates, larger (4.2+m wide) brute force screens can break due to large unsupported centre span.

Note

The above two mass 3.6 x 6.1m rejects drain & rinse screen is rated at 800t/hr @ <0.4kg/t magnetite loss and was installed by iPUT July 2016 in a Qld Coal Mine; No modern 3.6 x 6.1m brute force screen is rated above 600t/hr, or in practice can go much above 700t/hr. If not volume constrained, the two mass screen is 1,000t/hr rated.