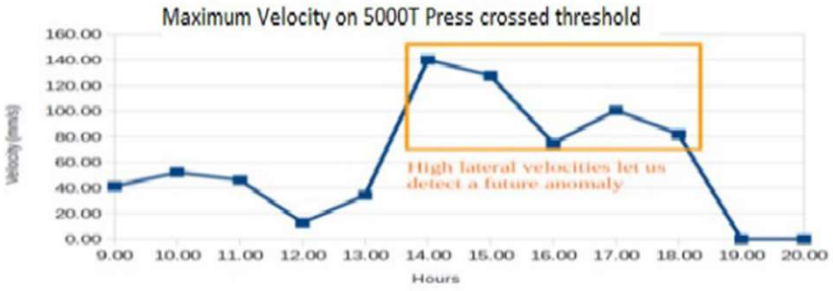
One of the largest forging company in Automotive industry saved **24 hours of unplanned downtime** by adopting a predictive approach to maintenance.

Application-

5000 Tonne press line at a 0.6 MTPA forging and 1.2 M crankshaft machining unit.

Challenges-

- Frequent machine breakdowns or high idle time due to asset unavailability.
- Chronic production downtime leading to delay in product delivery.
- Lack of monitoring and maintenance management system to proactively identify impending machine faults and avoid critical equipment failures.



Solution –

An IoT enabled, remote diagnostics solution empowered the plant maintenance teams with real-time machine health information and advance notifications of potential faults. Increased vibrations in the motor of the press line were observed, prompting a fault notification and machine check alert for the maintenance teams.

The on-site inspection revealed looseness in die-holder bolts, causing machine vibrations to cross pre-defined threshold value. The loose bolts were tightened by the maintenance experts, to avoid machine breakdown and potential fluttering of holder bolts that could compromise workforce safety.

This predictive maintenance approach helped in avoiding **24 hours of unplanned downtime.**