

Travelling Plough Feeder

Improvement through Innovation



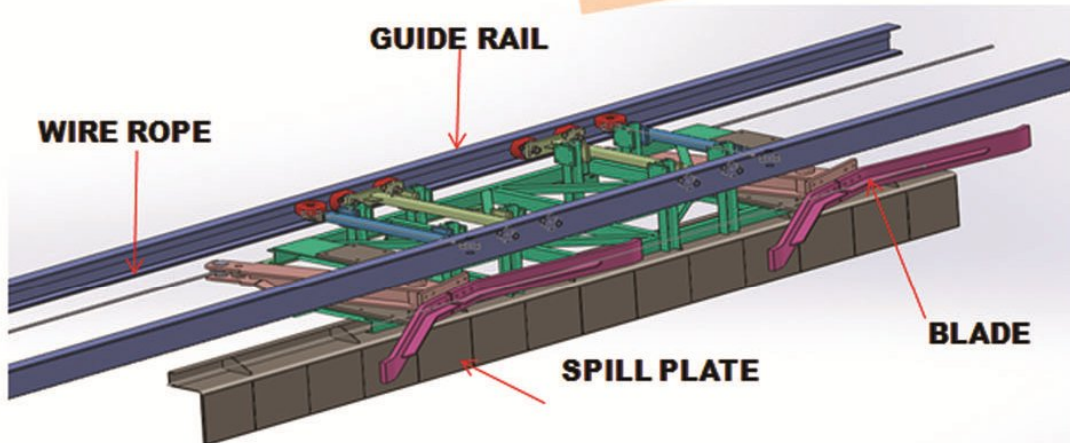
In a coke oven, the coke discharged is carried to the quenching tower. After wet quenching, the coke is stored on a wharf. Travelling Plough Feeder is deployed for the extraction of coke from coke wharf and fed to downstream belt conveyor. TRF has made certain innovations in the Travelling Plough Feeder with the following features:-

- Trolley frame with blade & travel arrangement
- Supporting structure with guide rail
- Rope & Winch along with supporting structure
- Drive arrangement for winch
- Rope guide wheels
- Return rope wheel with tensioning system
- Trolley can travel in both directions (to & fro) and extract coke after the blade position is changed automatically.



Benefits from innovation:-

- Platform is kept free from any of the equipment except the plough blade & one encoder to detect the position of the equipment.
- Drive unit i.e. electrical motor, gear box, winch drum etc. has been kept at a distance, hence eliminating the effects of heat and dust on the driving element.
- Maintenance is very easy and safe as the drive arrangement is outside the tunnel.



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