

## Travelling Wagon Loaders



### TECHNICAL SPECIFICATIONS

- Capacity upto 3000 TPH
- One full rake loaded in less than two hrs
- Negligible spillage between wagons
- Environment friendly
- Data logger to minimize loading error

## Loading of bulk materials in steel, power & mining industries

Travelling Wagon Loaders are essential equipment for loading bulk material into railway wagons at high speed. Wagon Loaders supplied by TRF can load up to 3000 tonnes per hour.

TRF wagon loading systems are so designed that there is no spillage between the wagons when the loader is traveling from one end of the rake to the other. Filling efficiencies up to 99 percent of the desired capacity have been achieved.

A Travelling Wagon Loader manufactured at TRF comprises:

- The tripper conveyor
- Intermediate conveyor with belt weigher
- Cross conveyor with loading chutes

TRF has supplied Travelling Wagon Loaders for loading bulk cargo like coal, coke, limestone and iron ore. TRF's travelling wagon loaders can load rakes placed on both sides of the track in a 2 x 2 formation. The cross conveyor shuttles out while loading into rakes at the farther end. All controls are through PLC. The travel speed of the wagon loader is synchronized automatically to complete the loading of one wagon and then travel rapidly to the second wagon to minimize detention time of the rake. Facilities on board include checking of loading rate and totalizers on shift, day,

and month basis. TRF Travelling Wagon Loaders are designed to automatically identify sick wagons in the rake and bypass these wagons while completing the loading of the full rake.

The material feeding into the wagons is kept uniform by use of TRF designed belt weigher over the cross conveyor. The feeder is synchronized with the loading rate and can be programmed to feed at any desired rate up to its maximum capacity.

The operator's cabins are so located that the operator gets a clear and unobstructed view of the loading process. The cabin is air-conditioned and ergonomically designed for maximum comfort of the operator. The front screen is mounted in the operator's console and displays details of all operations enabling the operator to program according to the loading requirement.

The air-conditioned electric house is equipped with online fault display and analysis tool to minimize downtime. Hydraulic rail clamps, storm anchor and air conditioned electric room, dust suppression system, radio control and fire alarm are also provided, if required by the customers.

TRF's wagon loaders are provided with pneumatically PLC controlled sector gates to avoid choking of material.

## Wagon Loaders Details

Capacity	Material	Track size	Types of Feeding Options
720 tph	Coke	6.0 m	Wagons on one side with shiftable discharge conveyor
1500 tph	Coal	6.0 m	Wagons on both sides of track
2400 tph	Coal	6.0 m	Wagons on both sides of track
3000 tph	Iron Ore & pellets	6.0 m	Wagons on both sides of track
3000 / 3300 tph	Iron Ore Mines	6000	Wagons on one side

## Services

TRF today offers comprehensive operation and maintenance services for their travelling wagon loaders with guaranteed up-keep time for the customer. This ensures that customers can plan their raw material handling strategy and requirement with added precision, reducing raw material inventory.

## HEAD OFFICE & WORKS

### TRF Limited

11, Station Road Burma Mines, Jamshedpur-831007, Jharkhand  
Phone : +91-657-2345721, e-mail : lcs@trf.co.in  
Website : www.trf.co.in