The very latest generation of Travelling Block Monitor (TBM) collision avoidance systems was launched in August 2016.

RCP travelling block monitor (TBM) is used to dynamically protect the blocks from crowning out and the elevators impacting with the drill floor. The TBM has been continuously improved for over 14 years, RCP launched the latest version of the system in 2016 with enhanced self-diagnostic features and operator interface.

The basic system is configured for an oilfield D.C drawworks fitted with an auxiliary brake and drum friction main brake. Once commissioned the system will automatically monitor the direction, speed, weight and position of the travelling block and maintain safe limits of operation for the blocks at all times. When required the system will automatically control the drawworks brakes, clutches and motors in order to safely slow and stop the travelling block assembly within pre-defined upper and lower limits of travel for any given weight.

RCP also supply PWM and SCR brake controllers and battery backup units for eddy current brakes.
TBM SCREEN DESIGNATION

Alarm Screen
System alarms are displayed here showing date and time stamp and identifying hardware failure.

System Setup
Sequential instructions with diagrams are used to setup and reset the system easily.

Maintenance Screen 1
Maintenance screens are used to check the status of digital inputs and encoder sensors.

Maintenance Screen 2
Maintenance screens are used to test and fault find digital outputs as well as analogue inputs.

Maintenance Screen 3
Maintenance screens are used to check and configure the anti collision points of the TBM system.

Event Logging
The TBM event logger continuously monitors and logs travelling block and brake control parameters.