

**Underground articulated mining haul truck**

**DIESEL or ELECTRIC**

# REFLEX

## **Onboard weighing for mining truck**

*The only weighing system in the world that can be installed on the vehicle without modification. No load cells, so chassis damage issues are a thing of the past.*

Protected against  
electromagnetic interference

Large  
display



## **THE ONLY WEIGHING SYSTEM FOR TIPPER OR EJECTOR BOX**

### **Large outdoor display to monitor production in real time**

The Cleral Reflex is an on-board weighing device that can be installed on all types of articulated dump trucks.

Reflex is the only system on the market that does not require any modifications to the vehicle. Instead of using load cells that have the disadvantage of cracking the chassis due to the transformation of the vehicle; Cleral's solution is based on the use of a proprietary strain-relief sensor. This technology, unique to Cleral, makes it possible to install them directly on the axles and measure the real weight supported by the vehicle. Weights can be displayed in pounds or kilograms or even tons.

The in cab display, fully sealed, indicates the weight distribution on the vehicle and the total weight with good accuracy.

Optionally, the total weight can be relayed to two large external displays attached to each side of the vehicle, monitoring productivity in real time. It is therefore possible to maximize payload without overloading the vehicle.

The Reflex is designed to be installed on a diesel or electric vehicle. The whole system is designed and protected against (EMI) electromagnetic radiation. The device complies with the (EMC) electromagnetic radiation CE standard.

The Reflex, with a digital output on wired link, allows to transmit the weight information to an on-board computer. Operations can be managed remotely.

#### **ADVANTAGES:**

- Real time weight
- Very good accuracy and repeatability
- Reduces the risk of overload
- No manual intervention
- No modification to the vehicle
- Installation on tipper or ejector box
- Large outdoor display (optional)

#### **SPECIFICATIONS:**

- Weight display: net or gross
- Unit: Lbs, Kg or Ton
- Power supply: 12 to 36 Volt
- Display screen: OLED
- Display protection: IP68
- RS232 output(onboard computer)
- Two outputs for large display
- Cable jacket: TPE -50 to 105 °C
- Automotive connector: IP68
- Mechanical sensor: stainless steel
- Strain range: 3000 µε
- Protection against EMI
- Conforms to EMC Directive 2004/108/EC