



PAYLOAD MANAGEMENT

Maximise the productivity
of your earth moving fleet



Boost **productivity** by achieving **optimum** payloads

The Payload Management range of products consists of production monitoring tools designed to maximise the efficiency and productivity of your earthmoving fleet.

The products are design to increase productivity by utilising payload data to increase production efficiency and to enable safer loading practices.

The Payload Management system works by transmitting payload data between the truck and loader, allowing the loader operator to see the trucks weight to enable them to fill the optimal load onto the truck's every time.

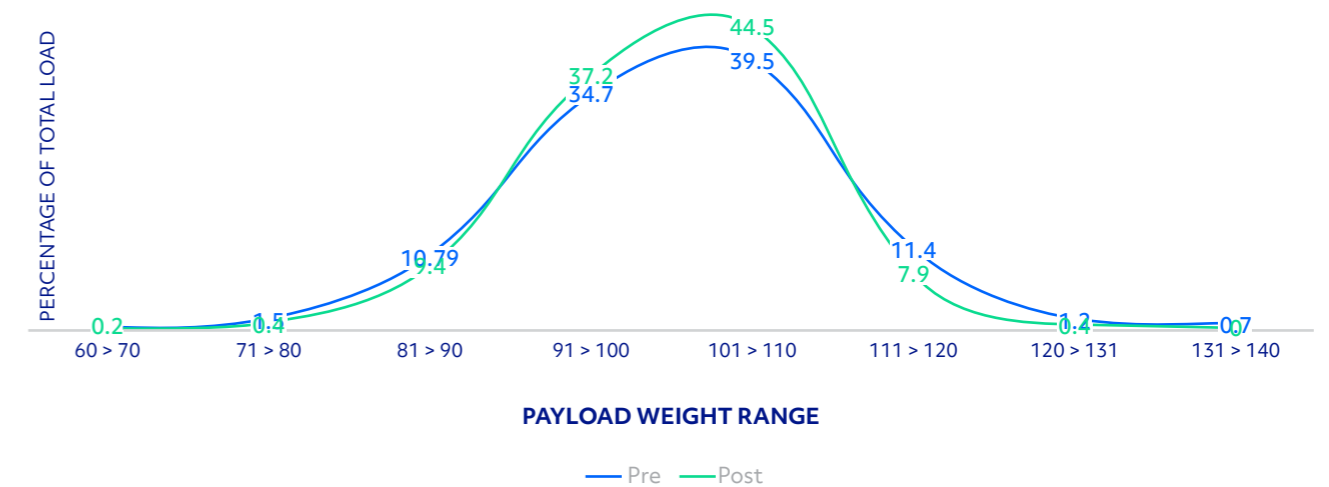
Increase efficiency and productivity of your earthmoving fleet

The data is transmitted between the truck and loader – allowing the loader operator to see the truck’s weight so they can fill the optimal load. Strut pressures from the truck send both ‘weight’ and ‘weight distribution’ to the loader – resulting in even and accurate payload.

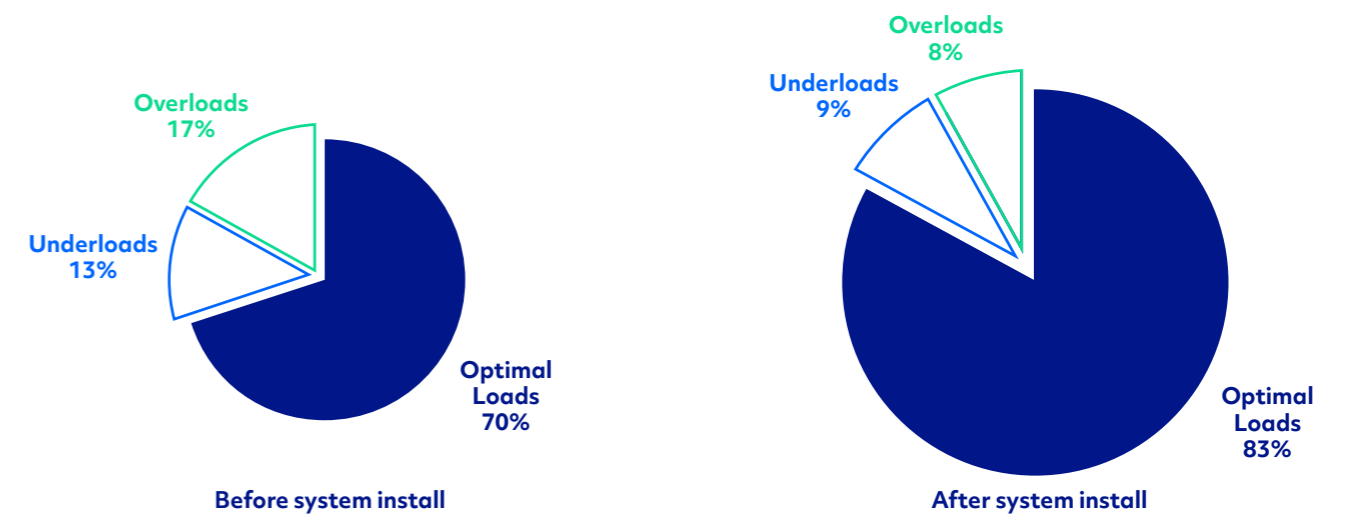
- ✓ **Display**
All payload weights are displayed and stored. Optional single or dual external displays
- ✓ **Data**
Records number of loads per truck and loader, reports average loads per truck, average bucket weight per loader, shows total dirt moved by truck and loader by fleet for greater productivity and Increase Bank Cubic Meters moved per shift/truck
- ✓ **Easy Install**
Off-the-shelf kits allow fast set up, with universal components suit all truck makes and models
- ✓ **Safety**
Weight properly and safely distributed on truck every time, preventing over and under loading
- ✓ **Information**
Logging of the entire truck fleet payload and .CSV data downloaded from loader/ excavator
- ✓ **Distribution and Spillage**
Empower the loader operators to achieve better load distribution whilst loading and less clean-up of spillage from over loading
- ✓ **Warranty**
Preserve OEM weight-related warranty and extend life of power train
- ✓ **Longevity**
Reduce machine stress, strut damage, tyre wear and better return on fuel consumption

Get the productivity gains from every payload

The bell curve illustrates payload results when an EarthTrack® Payload System is installed. Data indicates optimal payloads increasing and over loads decreasing; thus improving productivity whilst reducing excessive stress.



Data is showing that an approximate 13% increase in optimum loads was obtained with minimal operator training. The system will enhance the loading of trucks, so all operators become more efficient over time.



EarthTrack® Payload Management is simple setup and comes in three different options



CAPABILITIES	CONTROLLER	EXTERNAL DISPLAYS	ANTENNA	CHANNEL SELECTOR
Option 1 External payload display (single or dual); no communications to loader; no logging	✓	✓		
Option 2 Truck to loader communications; no external display; logging as standard	✓		✓	✓
Option 3 Truck to loader communications with external display (single or dual); logging as standard	✓	✓	✓	✓

We create intelligent technology solutions for **better insights** and **informed decision making** to achieve your business goals.

FEATURES & FUNCTIONS	DIGITAL CHECKLIST	PAYLOAD MANAGEMENT	VEHICLE MONITORING	MACHINE DATA GATEWAY
Pre-start checklist (w/lockout) and in-cab display	✓	✓	✓	
Operator ID/access and service due	✓		✓	
GSM/LTE & Wi-Fi	✓		✓	✓
API - via SQL database, email reporting and data export (.csv)	✓	✓	✓	✓
Cloud based historian (ONLY)	✓		✓	
Cloud based, onsite historian (database) and customer owned server				✓
Payload too high/low, payload weight and payload placement		✓		✓
Utilisation, key on/off, excess idle, impact and seatbelt monitoring, engine and vehicle overspeed, geo-zoned speed threshold, engine oil pressure and temperature, coolant level, and travel distance			✓	✓
Cycle time, low/high idle and machine moving			✓	✓
Maintenance process ¹				✓
Production process ²				✓

¹ Including; gear selection, harsh braking low hydraulic oil level tray up/down bucket up/down water tank level low fuel low park brake on/off, remote, teleremote and automation on/off, travel time, site/production area, trip start time, trip end time, trip geolocation (if GPS is available), trip distance, maximum engine speed, average trip, engine speed alert (with timestamp), count of engine speed, alerts average trip, ground speed alert (with timestamp), and count of ground speed alerts
² Including; check engine status (with timestamp), cycle start time, cycle-id, total cycle time, total cycle distance, dump point, ID draw point ID bucket weight (if sensor fitted) estimated bucket weight, CAN BUS J1939. CAN-BUS open and OEM i.e. CAT. Machine specific customisation and customer-specific customisation



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