



Smart Quarry Site

Your fleet management solution



ROI – Your Return

- Increase quarry and construction productivity
- Increase fuel efficiency and reduce fuel burn
- Monitor and improve site safety
- Reduce overall site emissions
- Manage utilisation and reduce unnecessary idling
- Average ROI within 12 months

Do More – Save Money

- Understand exactly what your fleet is doing and when to make decisions to optimise fleet efficiency
- Ongoing real time overview of every connected machine movement and machine condition
- Save time with automated data collection
- Improve accuracy of data by eliminating human error
- Improve operations from real-time operator scorecards
- Automated operation requiring minimal interaction by operators

Smart Quarry Site Product Summary

- Smart Quarry Site is a fleet management solution for quarry and large construction sites
- Simple in-cab automated operation and display
- Sophisticated in office real-time site monitoring
- Real-time data aggregation visualised and usable
- Selection of industry leading dashboards – built with voice of the industry in mind
- Electronic PreStart checks plus auto-reporting
- Supports agnostic OEM fleet over most construction and mining sized machines

Smart Quarry Site

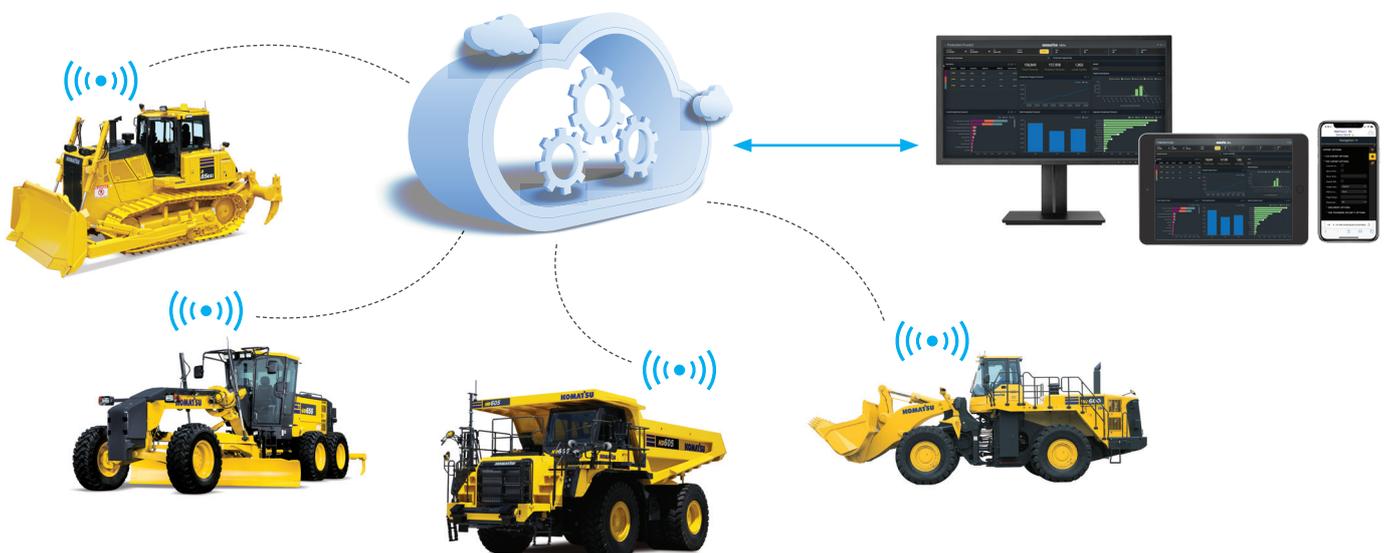


Smart Quarry Site is an all-makes Fleet Management Solution tailored for the global market. It is designed to optimise operations in six critical areas:

- Site management
- Production
- Machine health
- Effective utilisation
- Maintenance
- Safety for quarry operations and large civil construction projects



Through the Smart Quarry Site offering, site management can access an intuitive and informative fleet management visualisation suite of products. Smart Quarry Site provides a close to real-time animated overview of all production machines and their activities, including material extraction, movement, and specific dump locations tracked by circuit, material and machine. Specifically catered to various equipment types such as trucks, loaders, excavators, graders, and dozers, Smart Quarry Site empowers businesses to streamline workflows and improve productivity in quarry and construction projects. Additionally, it enhances safety measures, ensuring smoother and more efficient operations throughout business.

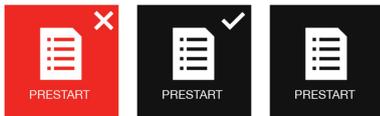


Safety and PreStart

PreStart is an app that enables the automatic collection and distribution of vehicle specific PreStart checks. Operators use an in-cab multi-step interface to enter their PreStart check results.

These results are then sent back to the Smart Quarry Site database and are immediately visible to supervisors and the maintenance teams, through notifications. At each new shift operators are presented with PreStart.

Stored PreStarts are easily retrieved for compliance verification when needed.



Detailed report for each daily PreStart – sent to key site stakeholders for actioning of defective items.

Pre-start Checklist

Pre-start ID : 7061 Unit : L001
 Date : 01/Feb/2024 06:45 PM Operator : Unknown Operator
 Matt Jones

Category: 1 - Walkaround checks

Status	Item	Details
FAIL (LOW)	Inspect bucketwear and condition including [G.E.T]	
PASSED	Inspect loader arm condition	
FAIL (LOW)	Tyres / rims	
PASSED	Check front tire chains	
PASSED	Check wheel chock is present and secure	
FAIL (HIGH)	Cylinders / hoses / bolts	
PASSED	Engine checks	
PASSED	Batteries	
PASSED	Cooling package	
PASSED	Check all antennas [KOMTRAX/iSite]	
PASSED	Mirrors / windows	
PASSED	Machine grease points	
PASSED	Check water and fire proofing dividing walls	
PASSED	Steps / ladders / handrails	

Category: 2 - Checks before starting

Features

- Specific PreStart covering locally customised list applicable to each machine. Includes OEM's and all machine types.
- Assign severity to checklist items.
- Update and customise pre-start checks from anywhere.
- Automatic reporting (individual detailed report and summary report).
- Automatic notification of missed, failed, or incomplete pre-starts.
- Email notifications to the maintenance team allowing immediate action on machine defects.
- PreStart checklists are tied to operator ID.
- Geofenced speed zones specific to site.
- In cabin visual and audible alerts warning operators of speeding breaches reported back to SQS scheduled reports.



Site Pre-start Summary

Smart Quarry Site

Start Date: 01/Feb/2024 08:47 PM **End Date:** 01/Feb/2024 08:47 PM **Site:** Demo Site B

LO01				
Date	Pre-start Result	Operator	Pre-start ID	Failed Items
01/02/24 06:45 PM	FAIL (HIGH)	Unknown Operator	7061	Cylinders / hoses / bolts (HIGH), Inspect bucket wear and condition including [G.E.T] (LOW), Tyres / rims (LOW)
Total Pre-Starts :				1
LO02				
Date	Pre-start Result	Operator	Pre-start ID	Failed Items
01/02/24 03:45 PM	NO RECORD	Unknown Operator		
Total Pre-Starts :				1
LO03				
Date	Pre-start Result	Operator	Pre-start ID	Failed Items
01/02/24 03:45 PM	NO RECORD	Unknown Operator		
Total Pre-Starts :				1
LO07				
Date	Pre-start Result	Operator	Pre-start ID	Failed Items
	NO RECORD	Unknown Operator		
Total Pre-Starts :				1

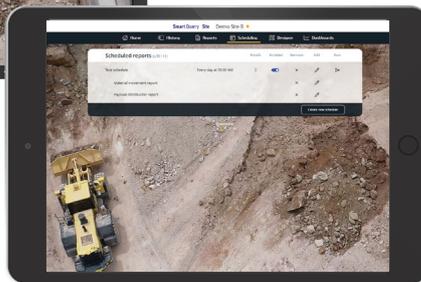
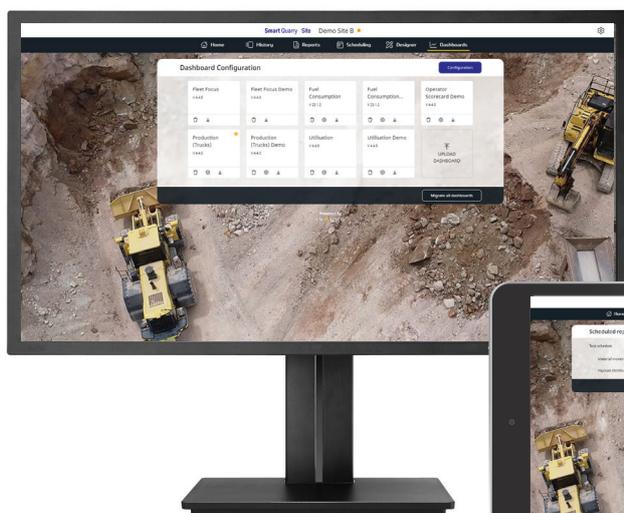
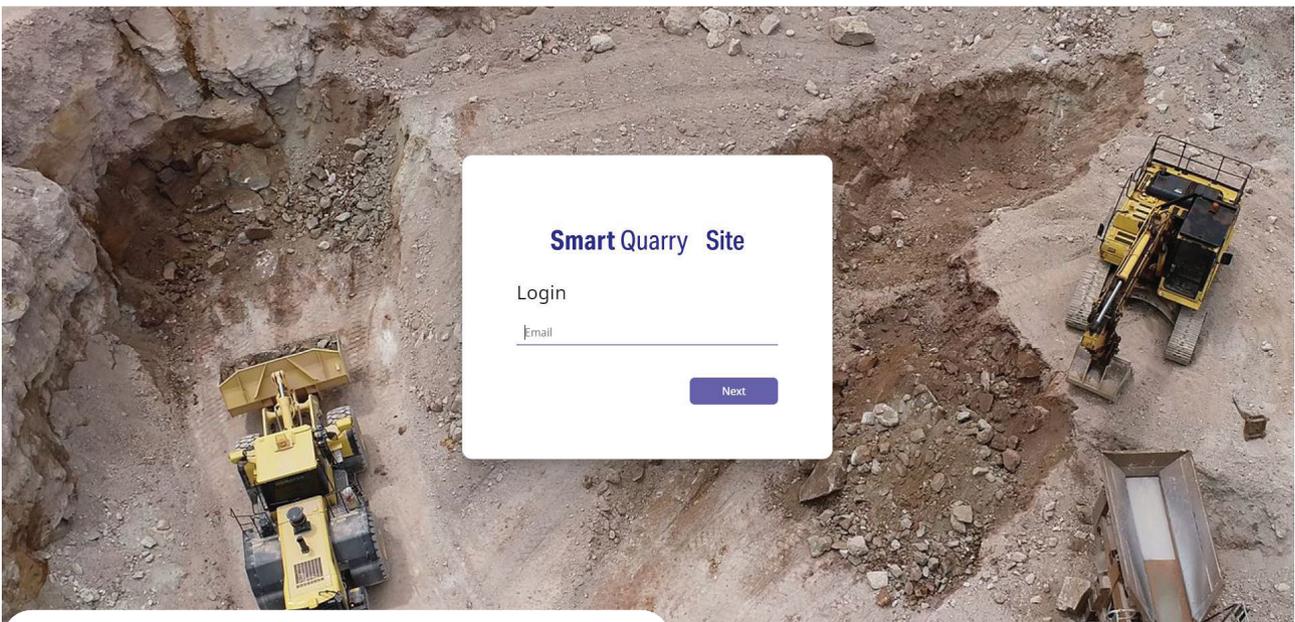
Summary PreStart report can easily be scheduled and made available for review or site audit requirements.



Free text can be easily added through editing feature of each defective PreStart item.

GoLine and User Management

Simple access to your site, anywhere, on any device. GoLine is a user interface that provides Smart Quarry Site users direct access to their fleet and apps from one place.

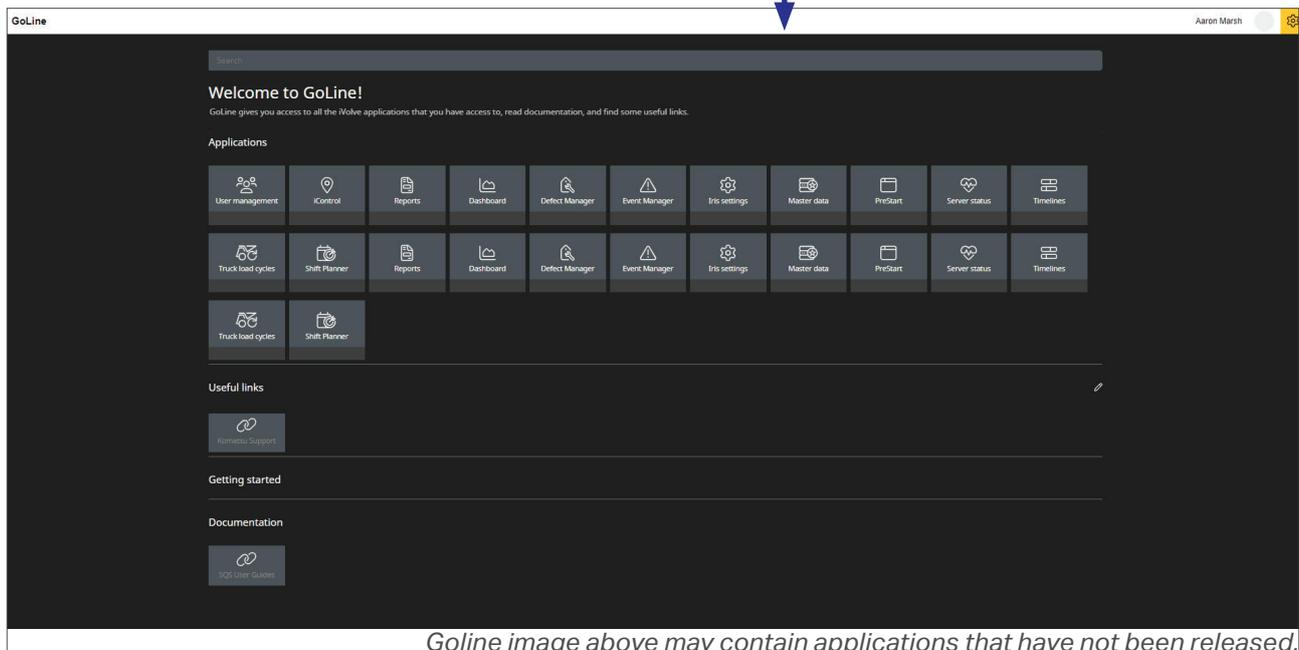
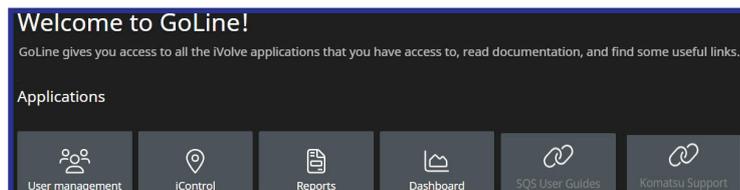


Overview

The following apps and tools are available (dependant on user permission);

- Access your dashboards
- Access and schedule your reports
- Access your back-end management
- Access iControl*
- Multiple site view available
- Customise and favourite your dashboards
- Directly access Komatsu support and Smart Quarry Site user guides

Recommended Web Browser



Goline image above may contain applications that have not been released.

* iControl Application must be first installed on your personal device (PC or Laptop).

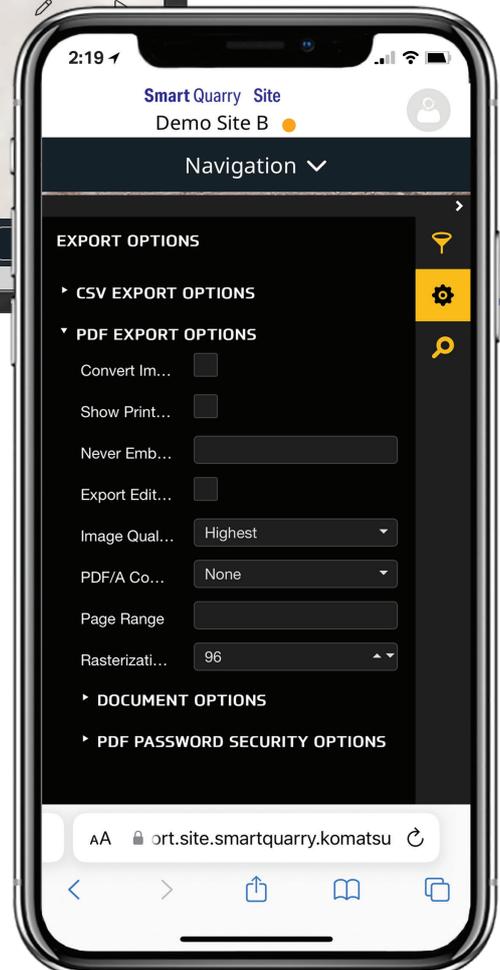
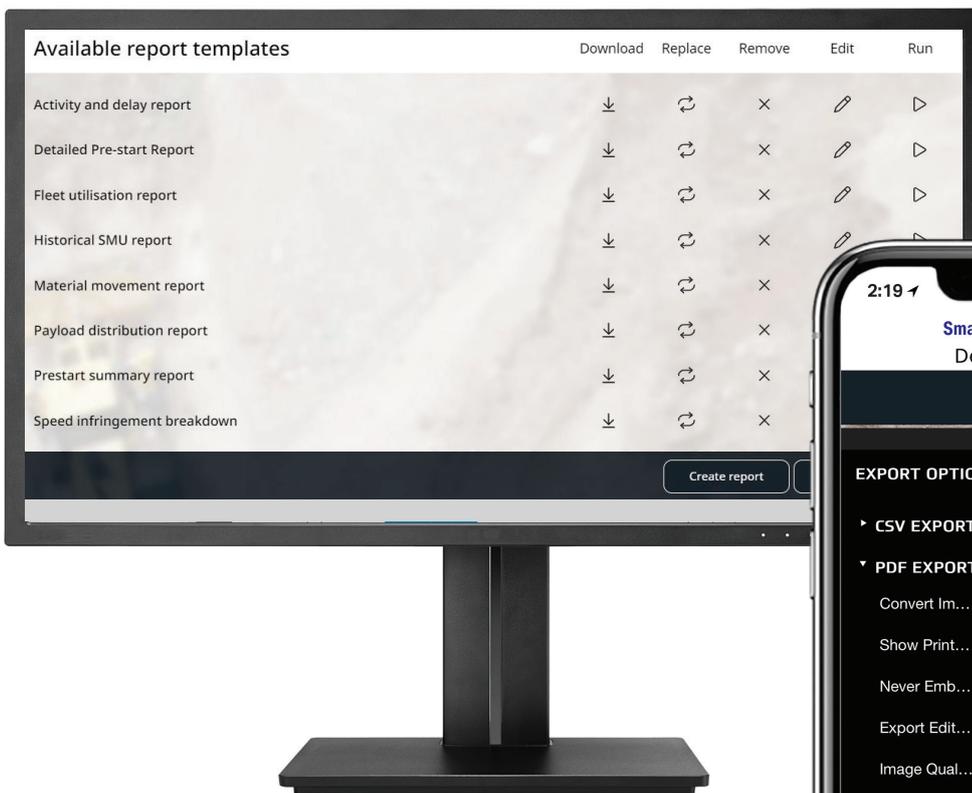
Note: Single sign on is under development to connect your cloud single sign on – AZURE/AWS/Google.

iReport

iReport is an online reporting tool that can be accessed via Smart Quarry Site and provides summary production data in a format configured to site needs.

- **Access all historical data:** Easily schedule reports to anyone anytime
- **Do it all:** Save, print and share reports easily.

- **Set and forget:** To schedule recurring reports, choose a report, a time, and the recipients.
- **Universally accessible:** Install once, access anywhere and on any device.
- **Schedule reports:** Send multiple reports at once in .PDF or .CSV or both.



Site Pre-start Summary Smart Quarry Site

Start Date : 31/Jan/2024 09:49 PM End Date : 01/Feb/2024 09:49 PM Site : Demo Site B

HeavyTruck

TRO7

Date	Pre-start Result	Operator	Prestart ID	Failed Items
01/02/24 06:39 PM	PASSED	Unknown Operator	7062	
				Total Pre-Starts : 4

TRO8

Date	Pre-start Result	Operator	Prestart ID	Failed Items
31/01/24 09:30 PM	PASSED	Unknown Operator	7051	
01/02/24 04:50 AM	PASSED	Unknown Operator	7052	
01/02/24 06:45 AM	PASSED	Unknown Operator	7056	
01/02/24 09:53 PM	PASSED	Unknown Operator	7059	
				Total Pre-Starts : 4

TrackDozer

DT01

Date	Pre-start Result	Operator	Prestart ID	Failed Items
31/01/24 09:49 PM	PASSED	Unknown Operator		
01/02/24 01:15 AM	PASSED	Unknown Operator		
01/02/24 06:00 AM	PASSED	Unknown Operator		
01/02/24 09:49 PM	PASSED	Unknown Operator		
				Total Pre-Starts : 4

WheelLoader

LO01

Date	Pre-start Result	Operator	Prestart ID	Failed Items
31/01/24 09:39 PM	FAIL (HIGH)	Unknown Operator	7049	Cylinders / hoses / bolts (HIGH), Tyres / rims (LOW)
01/02/24 03:12 AM	PASSED	Unknown Operator	7050	
01/02/24 06:44 AM	FAIL (LOW)	Unknown Operator	7055	Inspect bucket wear and condition including (S.E.T) (LOW), Tyres / rims (LOW), Check wheel chock is present and secure (LOW)
01/02/24 06:45 PM	FAIL (HIGH)	Unknown Operator	7061	Cylinders / hoses / bolts (HIGH), Inspect bucket wear and condition including (S.E.T) (LOW), Tyres / rims (LOW)
				Total Pre-Starts : 4

LO02

Date	Pre-start Result	Operator	Prestart ID	Failed Items
31/01/24 09:49 PM	PASSED	Unknown Operator		

Thursday, February 1, 2024 11:50 Report Powered By: Voka 2

Detailed PreStart Reporting

- Get instant notifications by email.
- Detailed summary report for each PreStart.
- Any item that fails a PreStart is sent by email to relevant site personnel.

Summary PreStart Reporting

- Be ready to support your site PreStart audits with full history of completed PreStarts and easily generate reports for any date range.
- View failed items for the history of your PreStarts.
- All failures are specific to the machine and based on severity.

Reports

- Activity and delay report
- Detailed pre-start report
- Fleet utilisation report
- Historical SMU report
- Material movement report
- Payload distribution report
- Pre-start summary report
- Speed infringement breakdown

Dashboard Overview

The Smart Quarry Site dashboards provide real-time and historical information about the production state, health and maintenance of your fleet. All data is updated in 5 minute increments.

Easily filter your dashboard view with incredible flexibility via the common menu along the top of the dashboards page.

Select specific date ranges filtered by shifts, circuits, by material types, operators, site fleet or by individual machines.

*Multi site access is available through Goline.

Current Dashboards – Available

Utilisation Dashboard – Included in standard package.

Fuel Dashboard – Included in standard package.

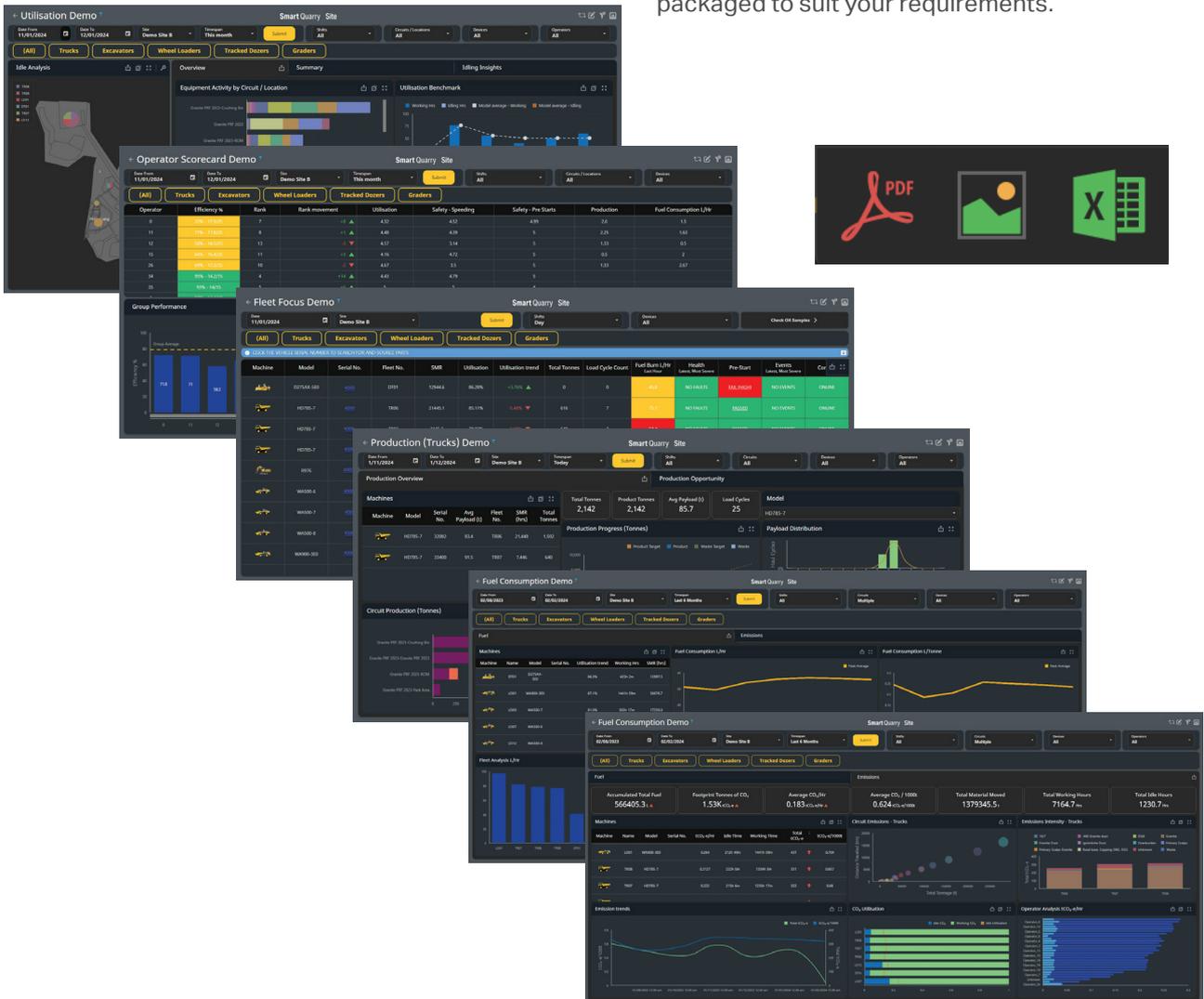
- **ESG** – Included in standard package.

Fleet Focus – Included in standard package.

Production (Trucks) Dashboard – Optional.

Operator Scorecard – Optional.

*Dashboards are part of the SaaS – Software as a Service connected to your Smart Quarry Site Fleet Management solution Dashboards can be packaged to suit your requirements.



Utilisation Dashboard – Overview

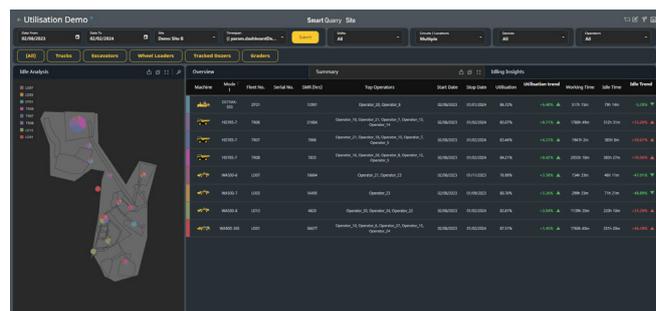


Utilisation

Graphical and tabular overview of the utilisation of your full fleet for incredible insights across site and using detailed granular data.

Utilisation Dashboard – Summary

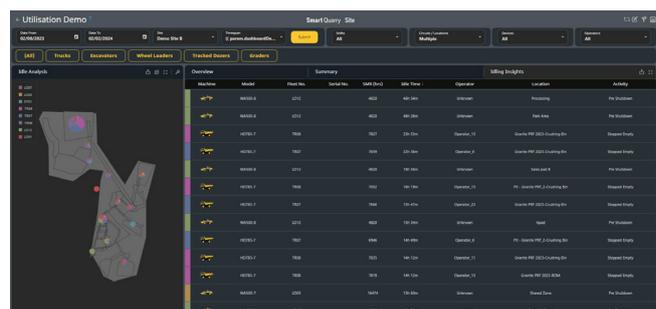
Summarise your fleet by mapping where idle is taking place. At a glance see your utilisation and idle trends over a selected date range or by current shift. Highlight top performing operators.



Utilisation Dashboard – Idling Insights

Idling Insights allows you to visualise idling data via the mapping feature:

- High idle areas based on activity
- Select a date range or by current shift.
- Idling location and idling event.
- Idle time by operator.
- Idling location [geo referenced].
- Idling by operational activity.



Fuel Dashboard

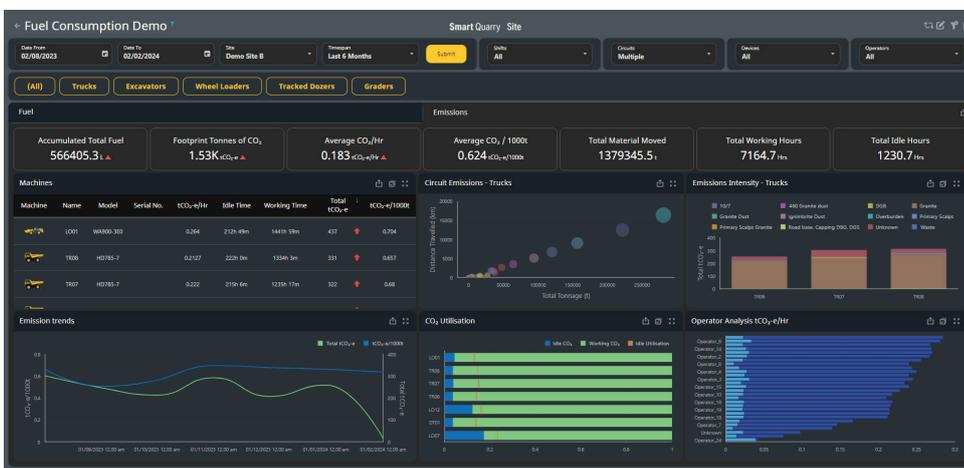


Fuel Consumption

Fuel Consumption broken down by machine, fleet and operator in relation to working hours and SMU. Visualise through Fuel Dashboard:

- Fleet analysis litres per hour and litres per tonne.
- Fuel consumption litres per hour and litres per tonne.

- Individual operator analysis of operation by litres per hour.
- Select current shift, date ranges, by circuit, by machine, or by operator.



ESG

Fuel Consumption Dashboard – Emissions

Emissions tab allows you to visualise the emission trends of your fleet and the carbon footprint as a result:

- Accumulated total fuel
- Footprint tonnes of CO₂
- Average CO₂ / hour
- Average CO₂ / 1000 tonnes

- Emission intensity - trucks
- Circuit emissions - trucks
- Fleet emission trends
- CO₂ utilisation - idle vs working hours
- Operator analysis tCO₂-e/hour

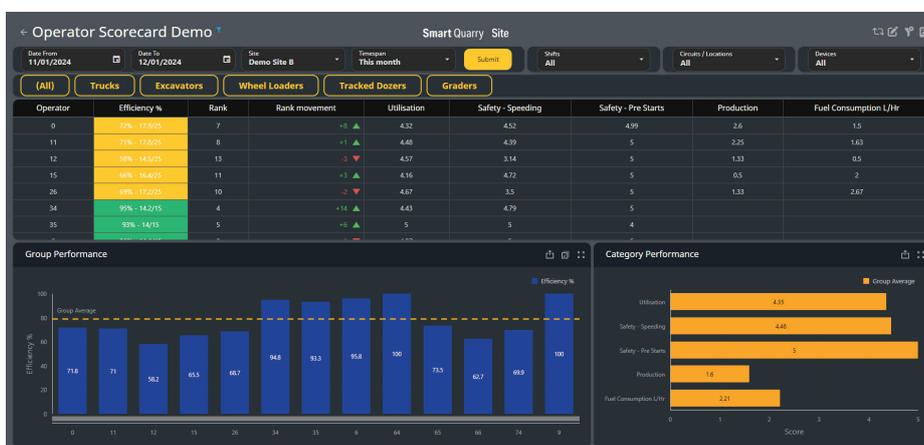
Fleet Focus Dashboard

Machine	Model	Serial No.	Fleet No.	SMR	Utilisation	Utilisation trend	Total Tonnes	Load Cycle Count	Fuel Burn L/Hr Last Hour	Health Latest, Most Severe	Pre-Start	Events Latest, Most Severe	Cor
	D275AX-5ED	4000	DT01	12944.6	86.28%	+5.76% ▲	0	0	45.8	NO FAULTS	FAIL_HIGGR	NO EVENTS	ONLINE
	HD785-7	4000	TR05	21445.1	85.11%	-4.48% ▼	616	7	75.7	NO FAULTS	PASSED	NO EVENTS	ONLINE
	HD785-7	4000	TR07	7445.7	78.03%	-3.88% ▼	640	7	94.4	NO FAULTS	PASSED	NO EVENTS	ONLINE
	HD785-7	4000	TR08	7611.9	66.42%	-23.30% ▼	0	0	0	NO FAULTS	PASSED	NO EVENTS	Last Communicat...
	R976	4000	R976	3823.9	0.00%	0.00%	640	7	0	NO FAULTS	FAIL_HIGGR	NO EVENTS	ONLINE
	WA500-6	4000	LD07	16685.5	0.00%	0.00%	0	0	0	NO FAULTS	NO RECORD	NO EVENTS	NO COMM SINCE
	WA500-7	4000	LD03	17121.0	0.00%	0.00%	0	0	0	NO FAULTS	NO RECORD	NO EVENTS	NO COMM SINCE
	WA500-8	4000	LD12	4623.5	76.18%	-10.73% ▼	0	0	29.4	NO FAULTS	NO RECORD	NO EVENTS	ONLINE
	WA900-3ED	4000	LD01	35391.7	94.13%	-2.47% ▼	616	7	91.4	NO FAULTS	PASSED	NO EVENTS	ONLINE

Fleet Focus

- **Serial No:** Links to the Komatsu store for simple search to source parts.
- **SMR:** The SMR is updated immediately as data is available through API or direct by J1939 CAN protocol.
- **Health:** Machine health at a glance – shows last 3 active events.
- **PreStart:** Shows latest PreStart check result for the current shift and access to PreStart detailed report.
- **Events:** Latest 3 based on most severe events in the current shift for the given vehicle.
- **Communication:** Shows the latest communications status received from that vehicle in the current shift.

Operator Scorecard Dashboard



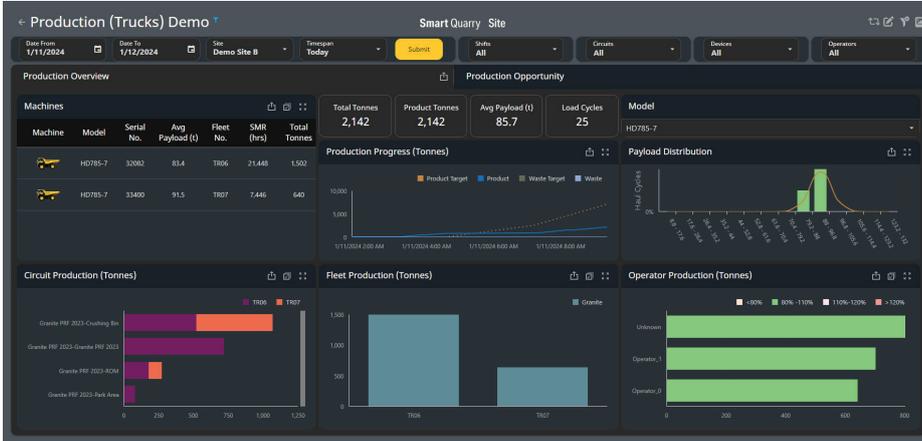
Operator Scorecard

Delivers at a glance operator performance by individual or benchmark against other operators at your site, enhancing operations and encouraging best practice. Quickly visualise:

- Operator efficiency based on the individual's last shift.
- The operator's rank movement from last shift.

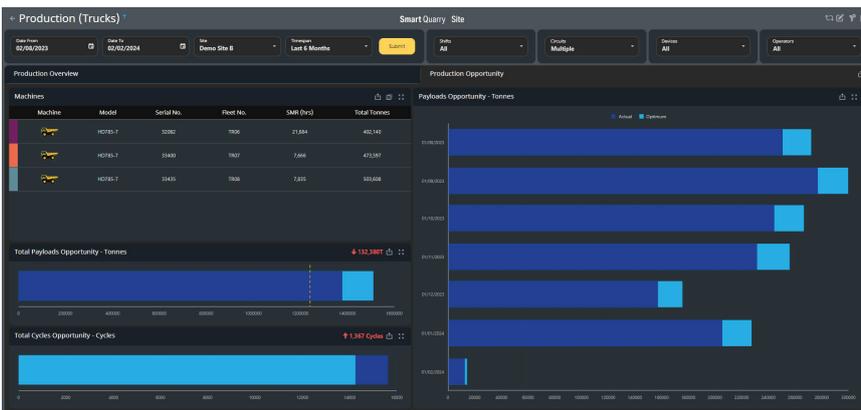
- Group performance and category performance by group average.
- These rankings are a collective from operational data, over 5 key metrics:
- Utilisation, speeding events, PreStart completion, production and fuel consumed during operation.

Production Dashboard - Trucks



Production

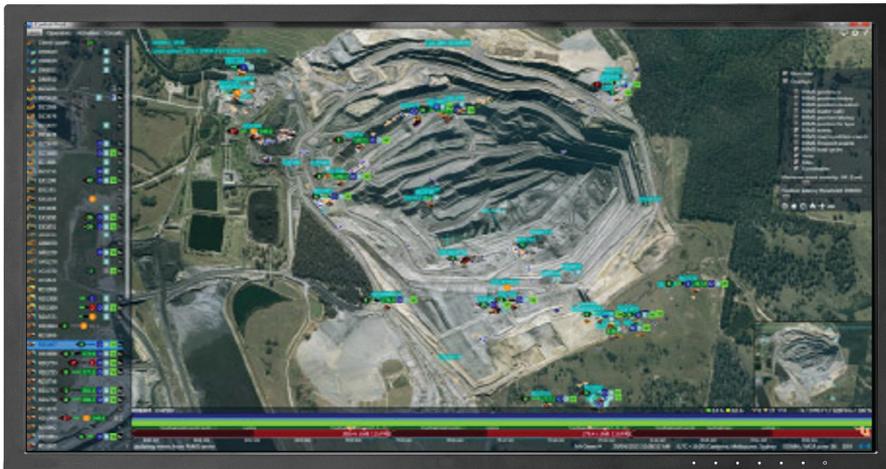
- **Machines:** Your active production vehicles listed in an easy to view table with key data including model, serial number, site fleet number, SMR, and total tonnes.
- **Production progress:** Graph showing your production progress in tonnes throughout the shift.
- **Payload distribution:** Instantly know how efficiently your loading tool is loading the trucks. Overloads and underloads are easily identified with payload opportunity visualised.
- **Circuit production:** View the productivity (tonnage) of each circuit broken down by truck.
- **Fleet production:** View the productivity [tonnage] by each truck, broken down by material type
- **Operator production:** Easily monitor operator performance based on the 10, 10, 20 rule. Easily swap between truck models to view the relevant distribution curve.
- **Summary view:** Total tonnes - combined productive and waste calculation. Show product tonnes, average payload for the fleet, total load cycles.



Production Opportunity

- At a glance understand the breakdown of total truck payload opportunity by tonnes and number of total load cycles.
- Benchmarked against actual production payloads and cycles completed.
- Make changes to production trucks immediately increasing production and shortening your ROI.
- Utilise the production information to target and monitor additional tonnes per cycle. Release significant profit from a small increase in average tonnage

iControl



*iControl – Application

iControl is a map-based tool that provides a real-time overview of the fleet and assets on site.

Highlights:

- Instantly see the location and status of vehicles & operators.
- Instant snapshots of production data for each vehicle and circuit.
- Dashboards show real-time progress of the shift vehicle timeline.

*iControl updates machine position and production information every 30 seconds - Availability of the data may vary based on site connectivity across the site.

Control: Manage your backend by yourself, easily updating and editing production data, operators, vehicles, PreStarts, material lists and geofences.

Analyse: Replay, analyse and report historical fleet movements including position, speed, events, heading, operational height and PreStart status for each shift.

iControl - Production



Visualise in real time your loading tool operation highlighting:

- Dig rates
- Total tonnes
- Trucks loaded
- Number of trucks to loading tool
- Average passes per truck
- Payload targets
- Queue of trucks vs waiting on loading tool

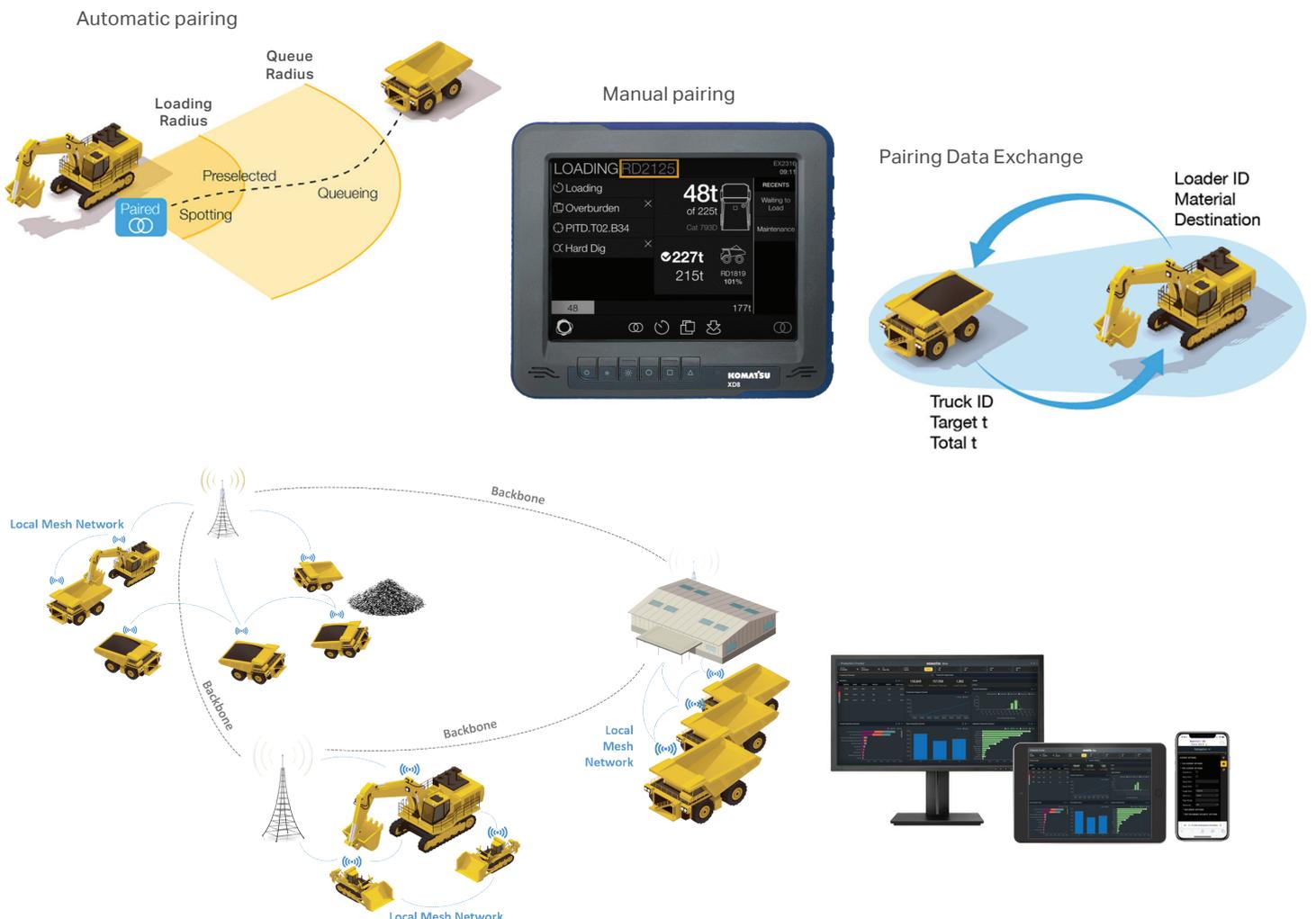
Peer to Peer and Machine Handshake

Once loading has been instigated, the vehicles will automatically “pair”.

Retrospectively: the queue and spotting times will be back-calculated from when the truck crossed the queue and loading radius of the paired loader/excavator.

If for any reason pairing does not occur automatically, the truck/excavator operator can manually pair by tapping the highlighted vehicle ID box at the top of the screen.

Data is exchanged automatically between paired vehicles: vehicle IDs, target & actual tonnage, material, destination.



The Smart Quarry Site Mesh Network is made up of a collection of wireless networking devices running Smart Quarry Site mesh networking software.

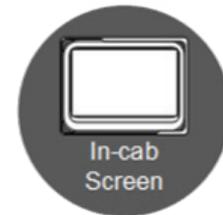
These wireless devices “Machines” automatically recognise and talk to each other

The Smart Quarry Site Mesh Network automatically routes network traffic between the available wireless nodes so that it reaches the intended destination in the most efficient way possible.

Hardware – Main Components

Ruggedised 8" Operator Panel

The in-cabin guidance allows operators to make changes on the run without supervisor intervention. The in-cabin device collects data automatically for the full production cycle. Easy to use interface with added machine specific electronic PreStart checks including automatic notifications to improve defect management.



Features

Purpose built: Excels in tough environments. Built to withstand high vibration, shock and wide temperature variance.

It offers high performance fanless operation and IP-65 certification.

Quick installation: A single light-weight cable with latched connector provides both power and data to the device. Various installation solutions are supported via a flexible RAM standard bracket.

Ruggedised Smart Interface Cable

The interface cable combines an industry leading machine interface catalogue with support for the latest generation of heavy machinery.

The interface cable packs our best interface technologies into a single, small, light-weight, ruggedised smart cable.



Features

Supports all Komtrax and Komtrax Plus interfaces including PLM.

Supports OEM agnostic interfaces including PLM Plug and Play operation. All platforms supported with remote updates available for software and firmware.

Quick downtime recovery with real-time fault detections, alerts and clean user interface SMW-311 multiband, 3-cable Global Cellular/ LTE, Wi-Fi & GPS Antenna.



The 3:1 Series antennas features 3 antenna elements in one radome

The unique feature of this model is that the cellular element (Cable 1) is extremely wide banded and can cover the traditional GSM/CDMA frequencies, 700 MHz LTE, 1.7 & 2.1 GHz AWS/UMTS bands and LTE/WiMAX at 2.5 or 3.7 GHz, all on a single board.



Features

The 3:1 antennas are compatible with legacy GPRS networks as well as next generation 4G and 5G networks.

The antenna also covers 2.4/5 GHz dual-band WiFi on the second antenna element.



Features and Benefits

In-Cab/Operator Features

- Simple, intuitive display design.
- Shift statistics displayed to both the operator and supervisor via dashboards for shared knowledge and tracking.
- New operator performance can be remotely monitored for quick feedback.
- Simple Sign-on. Operators sign on with the in-cab screen.
- Operator-centric data. All data logged is tied to a specific operator. This allows for monitoring and reporting of best work practices and pinpointing opportunities for training or enhancing operations by best practices.
- **PreStart:** Flexible: Configure a simple pass/fail PreStart or more complex check lists customised for each vehicle's specific requirements.
 - Speedy fault reporting:
 - Eliminate Paper
 - PreStart policy to control when PreStart screen is presented (enable, disable, once per shift, once per shift per operator)
 - Free form comments on failed items (operator can add a comment to a failed item)
 - Auto-submit PreStart if not completed in set time (time configurable)
- Email notification on failed PreStart
- PreStart report (Detailed)
- PreStart summary report (Basic)
- Visualise product targets to optimise payload opportunities and loading distribution.

In-Cab/Operator Benefits

- Ease of use with minimal distraction.
- Start operating more quickly to maximise working hours.
- Easily log and manage faults specific to the machines to keep vehicles operating.
- Speed up unscheduled maintenance response with notification of faults.
- Eliminate time lost to manual data entry
- Clear instruction for operators with one source of truth.
- Real-time progress feedback for operators and their supervisors enables performance improvements.
- Save time on data collection by eliminating the need for log sheets.
- Improve accuracy of data collection by eliminating human error.
- Easily locate vehicles and operators.
- Eliminate speeding events.
- Loader operators physically sees the PLM of the truck he is loading and can therefore max-load the truck
- Loading operator sees the centre of balance of the truck allowing him to better balance the load while loading

In-Office Manager Features

- Real-time data visualisation of your operation in the office.
- Simple data monitoring and adjustments.
- Standard and customised reporting capability for both scheduled and ad-hoc reporting.
- Time usage model. Because each site typically runs their own specific time usage model [shifts Start-Finish], sites can configure their system to align with their requirements. This allows for ease of monitoring and reporting.
- Intelligent activity and delay handling. When a vehicle has been idle for a set time, the operator is prompted to either confirm if the current activity is still valid or to enter a delay code. If the operator does not take action, the vehicle automatically selects a delay code (such as "Unknown Delay").
- Have the ability to track all your production data by specific operator.
- Create specific machine PreStarts – not generic items that don't reflect your machine, local options added or the brand of machine
- Setup notifications SMS and email to key stakeholders to manage PreStart faults
- Setup machine specific truck payloads to enhance the payload opportunity

In-Office Manager Benefits

- Enables real-time production decisions.
- Understand exactly what your vehicles are doing and when to make decisions to optimise their efficiency.
- Optimise vehicle utilisation.
- Save time on manual data collection.
- Improve accuracy of data collection by eliminating human error.
- Easily log and manage faults to keep vehicles operating.
- Speed up unscheduled maintenance response with notification of faults.
- Eliminate time lost to manual data entry.
- Easily add new operators and create personalised operator ID

GoLine Cloud-Manager Features

- Web interface that provides Smart Quarry Site users direct access to their fleet and apps from one place
- Cloud portal for fleet management
- Responsive design (desktop, mobile, tablet)
- Access all apps from one place
- Single Sign-on (SSO)* available soon
- Hosted on Cloud but capable to be hosted On-Premise for remote sites.
- *ON PREM requires consultation with your Komatsu representative
- Personalised experience though role based access and relevant information display
- Multi-site capable

GoLine Cloud-Manager Benefits

- Easy access on any network or connected web browser.
- No complicated sign-in process based on your role at the site
- Add new users through the in-office manager access
- For multi-site users – see all sites easily through your user access – no complicated logins
- Local user management setup for individual users based on your role at the site quarry or construction site

iReport Features

- Access all historical data anytime
- Do It All: Save, email, and share reports easily
- Set and forget: Schedule recurring reports, choose a report, a time, and the recipients. Universally accessible: Install once, access anywhere on any device.
- Dashboards show real-time progress of the shift.
- Vehicle timeline.
- Replay, analyse, and report on historical fleet movements (including position, speed, heading, and operational height) and historical events.
- Manage operator, vehicle, and materials lists and geofences.
- Easily update and edit production data.

iReport Benefits

- Instantly see the location and status of vehicles & operators.
- Instant snapshots of production data for each vehicle and circuit.
- Scheduling makes reporting easy, saving time gathering data to report to management or auditors

Hardware Features

- BM2 combines industry leading machine interface catalogue with support for the latest generation of heavy machinery.
- Quick downtime recovery with real-time fault detection, alerts, and a clean web interface.
- New ECM parameters added automatically via remote software update.
- In-cab display offers operator benefits from real-time operational feedback.
- Purpose built
- Quick installation
- Ultra-bright screen
- 3 in 1 antenna (GNSS, WIFI, LTE)

Hardware Benefits

- Supports all Komtrax, Komtrax Plus & PLM and most other OEM Interfaces
- Plug and play operation with all platforms – XS, XG and XD series.
- Converts proprietary machine data into an open standard suitable for analytics and artificial intelligence applications.
- Instant on and smart setup.
- Simplify installs using the same parts and process across different vendors consistent on all models
- Ruggedised equipment tested in the harsh environments of quarry and construction sites
- Komatsu backed warranty and support
- Remote access to hardware to push updates and maintenance without needing costly site visits

Standard and Local Options

Standard Options – Hardware

- XD8 8" HD ruggedised operator panel
- 3:1 Antenna [GNSS/WIFI/LTE]
- BM2 ruggedised Interface cable
- PC Operator panel cab mounts
- XD8 power cable
- Installation of hardware to each machine
- Onsite commissioning for each machine

Standard Options – Software

- XD8 specific vehicle firmware / software
- Remote access availability to the connected machine
- BM2 Specific vehicle firmware / software
- Smart Quarry Site operational software and Installations
- Five iControl PC Application installations

Optional or Required Non-Standard Options – Hardware*

- Site access points for poor connectivity on site
- Komtrax translator – High-res data from Komtrax enabled machines
- Additional machine harness as required by the specific OEM

- Upgraded controllers as required by the specific OEM
- * Dependant on machine types, site connectivity and outcome of site readiness survey

NOTE: onsite Connectivity LTE, WIFI is the responsibility of the end user, our Komatsu Smart Construction team will advise and support as needed.

Standard, SaaS, Training and Access Options

- Site readiness investigation and report
- Initial site master data site setup
- Cloud hosting and server maintenance
- Software and firmware remote updates
- User management – Go-line access base on permission levels
- Single or multiple site access through Go-line
- Operator training each vehicle, including PreStart – 1 day
- Fleet Focus dashboard – Access
- Utilisation dashboard – Access
- Fuel dashboard – Access
- Komatsu Support – Email / Phone
- Electronic Specific PreStart – Individual operator ID
- Peer to peer connected network
- Data and SIM – LTE connectivity

Optional or Required Non-Standard Options – SaaS

- **Required:** Admin training – Support your own site
- **Required:** Admin advanced training – Support your own backend
- **Optional:** Production trucks dashboard
- **Optional:** Operator scorecard dashboard
- **Optional:** Customised reports – Reports can be scheduled in the back office

Available standard and report types

Available Report Types	
SMU Report	Vehicle type, SMU value timestamp, latest SMU, Site name
Fleet Utilisation	Vehicle, Discription, Last SMU, Total hours, Working hours, Idling hours, Off hours, Idle %
Payload Distribution	Truck Payload Summary by Truck, Weight, Volume (BCM), Volume (BCM/HR)
Material Movement by Truck	Truck, Load location, Material, Dump destination, Loads, Weight, Volume (BCM)
Activity and Delay	Machine name, delay type, delay count, delay duration (hours)
Detailed pre-start	PreStart ID, unit, date, operator name, check result based on severity, by category
Prestart summary	Seperated by vehicle, start and end date, PreStart result, by operator, PreStart ID, failed items
Speed infringement breakdown	Device, infringement start and end, operator, speed limit, actual speed, above mimit, total infringements by Geofenced circuit
Individual speed infringements	Machine name, Geofence, infringement start and end, duration, speed limit, max speed recorded, Km/h above limite, total infringements

Smart Quarry Site

Komatsu Products				Other OEM
Products by Class (Not model dash specific)		KOMTRAX Enabled [Construction Class]"	KOMTRAX Plus [Mining Class]	Other OEM's – with Telemetry available Data [J1939 or API or PLM]
Model	Model Series	J1939 / API / *PLM	J1939 / PLM	
RDT 	HD325, HD405	✓		Equivalent size units from other OEM available
	HD605, HD785		✓	
*ADT 	HM300, HM400	✓		Equivalent size units from other OEM available
Excavator 	PC130, PC138, PC200, PC210, HB205			Equivalent size units from other OEM available
	HB215, PC220, PC240, PC270, PC290	✓		
	PC300, PC360, PC450, PC490, PC600			
	PC700, PC800, PC850, PC1250	✓	✓	
Loader 	WA150, WA200, WA250, WA270,			Equivalent size units from other OEM available
	WA320, WA380, WA430, WA470	✓		
	WA480, WA500			
	WA600 , WA800, WA900		✓	
Dozer 	D61, D65, D71, D85, D155, D275	✓		Equivalent size units from other OEM available
	D375, D475		✓	
Grader 	GD655, GD825	✓		Equivalent size units from other OEM available
Other 	WB97R, SK820	✓		Equivalent size units from other OEM available

***PLM may be available on some construction models like ADT**

Note: J1939, PLM and API connectivity to Smart Quarry Site is dependent on hardware installed on the base machine, a site readiness survey will be conducted to determine any requirements for further hardware or software – Covered under the Optional or Required Non-Standard Options – Hardware



Learn more about Smart Construction by contacting your local Komatsu representative or visit: <https://komatsu.com.au/innovation/smart-construction/isite>

Product designs, specifications and/or data in this document are provided for informational purposes only and are not warranties of any kind. Product designs and/or specifications may be changed at any time without notice. The only warranties that apply to sales of products and services are Komatsu's standard written warranties, which will be furnished upon request.

Komatsu and other trademarks and service marks used herein are the property of Komatsu Ltd., Komatsu Australia Pty Ltd., Komatsu America Corp., Komatsu Mining Corp., or one of their affiliates, or the respective owners or licensees.

KOMATSU

komatsu.com.au

1300 566 287

