TECHNOLOGIES
PAVING INNOVATION

MatManager™

PAVING QUALITY SYSTEM

MatManager™

Monitor key quality parameters of your paving job with the MatManager™ paving quality system.

The MatManager™ enables you to keep track of material consumption with real-time measurements to ensure you are on target and eliminate material overruns. Document how many kg you have put down per m^2 paved and register instances of stop, start and loading to document your work flow. Paving speed, paved distance and material temperature are also presented on the 7" graphical display.

Export and save all logged data at the end of the paving job for data processing and analysis. Deliver a printed report of key data to validate that road specifications have been met.

How it works

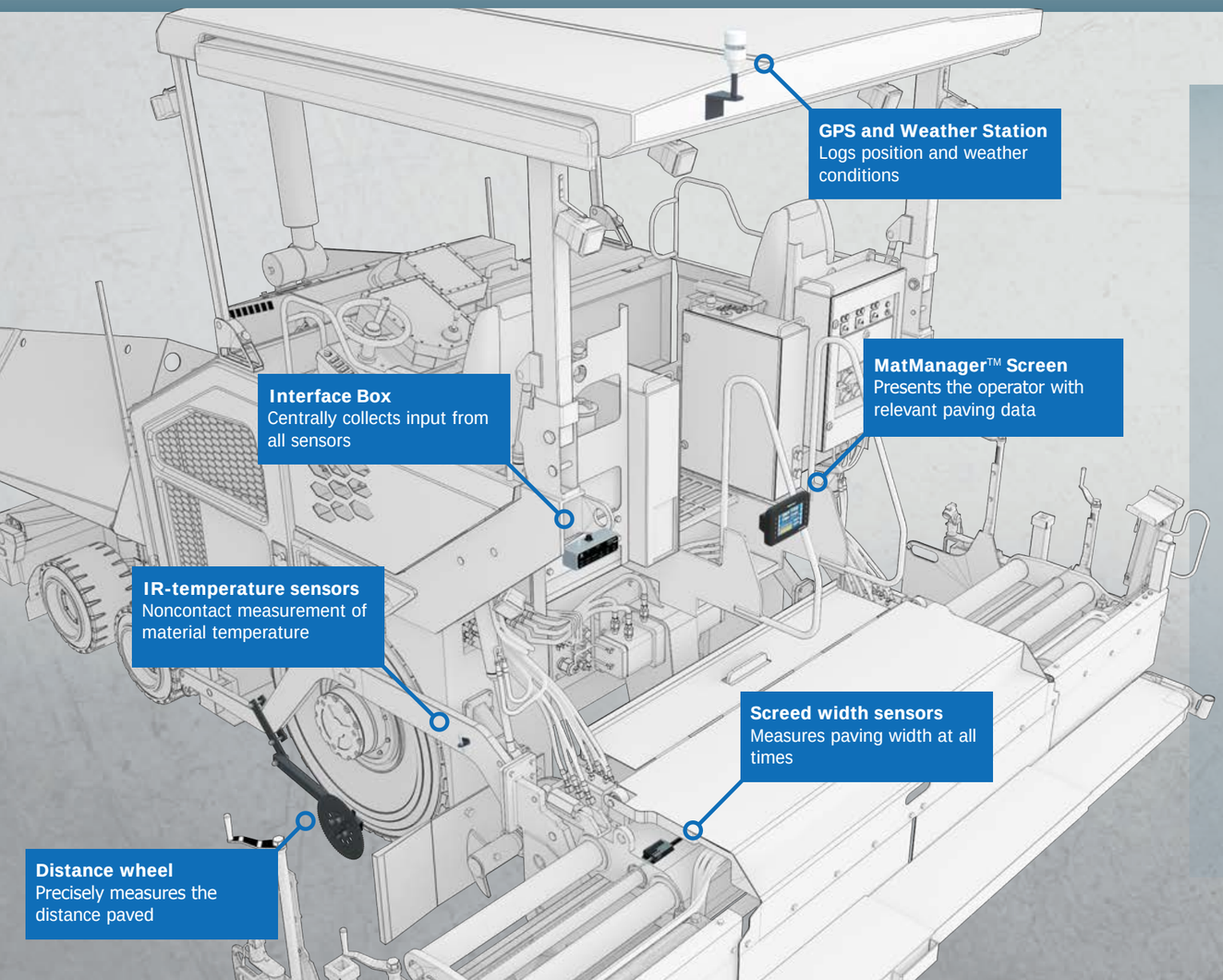
The MatManager™ uses a range of different input sensors mounted on the asphalt paver to measure and calculate the key paving parameters. The data is collected via the MatManager™ Interface Box.

Advantages

- Monitor material consumption to assure right amount is laid and ordered from plant
- Get load history for better timing of incoming loads
- Calculates the distance and area paved
- Monitor and report quality parameters such as material temperature, start/stops, tamper frequency and consistency of speed
- Export logged data for analysis and reporting

Coming soon!

The system is continually upgraded with new features. Existing sytems can be upgraded as new features are released. Next planned upgrade is GSM data transfer



SCREENSHOT EXAMPLES

Four of the six main displays of key paving parameters for use while paving your job

MatWiser™

MatManager™ continuously collects paving data to a log file that can be used for further analysis using the MatWiser™ reporting system.

MatWiser™ is a web-based graphical reporting system, offering full access and visual overview of all jobs and machines, enabling the user to create custom reports, for the perfect overview of all the paving jobs done. Use data internally in your organization or as documentation to your customer. Data can be presented either as printed reports or by sharing access to the MatWiser™.

Each individual job can be reviewed to validate that the specifications of the job such as location, area and material consumption, have been met. The system will also keep track of the loads received, the temperature of the material and where it has been laid down.

Further more, MatWiser™ is an excellent tool to optimize good paving praxis such as keeping consistent speed, reducing the number of start/stops and adjusting the tamper RPM to achieve the best, enduring and most economical paving.

Advantages

- Compare job results to specifications
- Provide full job documentation to customers
- Optimize performance on key paving quality parameters
- Store job data for future analysis of problem areas in the road
- Correlate job data to geographical positions
- Create printed job reports

TECHNOLOGIES PAVING INNOVATION

Settings Logout

Back Summary Loads Speed Activity Temperature Weather

TF NOVO 1

MatWiser™ MatManager™ statistics

Summary

Basic Info	Process Info	Material Info	Material Target
Job: TF NOVO 1	Length: 1.089 m	Material Type: 16	Specification: 95,0 kg/m²
Date: 03-05-2017	Average Paving Speed: 5,2 m/min	Material Density: —	Consumption: 99,6 kg/m²
Paver: Vögele 1803-3i	Area: 4.417 m²	Material: 439,8 ton	Deviation: 4,8%
Crew: Team TF	Manually Paved Area: —	Scrapped Material: 1,0 ton	Deviation Total: 20,2 ton

Loads

LOADS

Distance (m)	Load #	Time	Average Speed (m/min)	Load (kg)	Area (m²)	Consumpti (kg/
0,0	1	03-05-2017 08:42:47	4,6	8.700	103,0	
24,4	2	03-05-2017 08:58:09	4,9	30.820	257,0	11
85,4	3	03-05-2017 09:12:17	5,2	32.620	210,0	15
135,3	4	03-05-2017 09:24:43	5,2	29.380	392,0	7
228,5	5	03-05-2017 09:45:45	5,2	30.180	305,0	9
300,4	6	03-05-2017 10:05:01	5,2	31.540	300,0	10
371,3	7	03-05-2017 10:19:39	5,2	29.660	357,0	8
455,3	8	03-05-2017 10:59:20	5,1	33.260	598,0	5
601,8	9	03-05-2017 12:00:28	5,2	28.300	153,0	18

Speed

SPEED

PAVING SPEED

Speed (m/min)

Distance (m)

STOPS & LOADS

Distance (m)

Activity

ACTIVITY

KEY FIGURES

Job Time (h)	Efficient Paving Time (h)	Efficiency
5:15	3:28	66

Number of Stops	Stops/km	
36	33,1	6,3

ACTIVITY (1) PAVING (0) STOPPED

Time

Weather

WEATHER

AIR TEMPERATURE

Temperature (°C)

HUMIDITY

Humidity (%)

Distance (m)

Temperature

TEMPERATURE

TEMPERATURE 1

Temperature (°C)

Distance (m)

TEMPERATURE 2

Temperature (°C)

Distance (m)

Kort Satellit

Brenum Park

Stutten Kronpletz / Helena Christoffersen

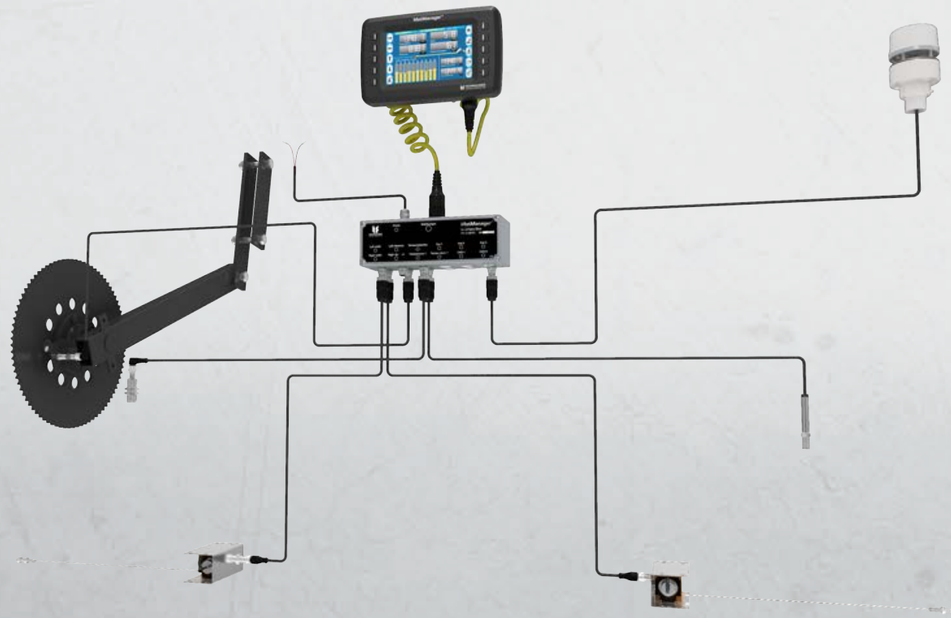
Google

SHOW MAP PRINT REPORT 0 – 1090 ZOOM RESET

MatManager™

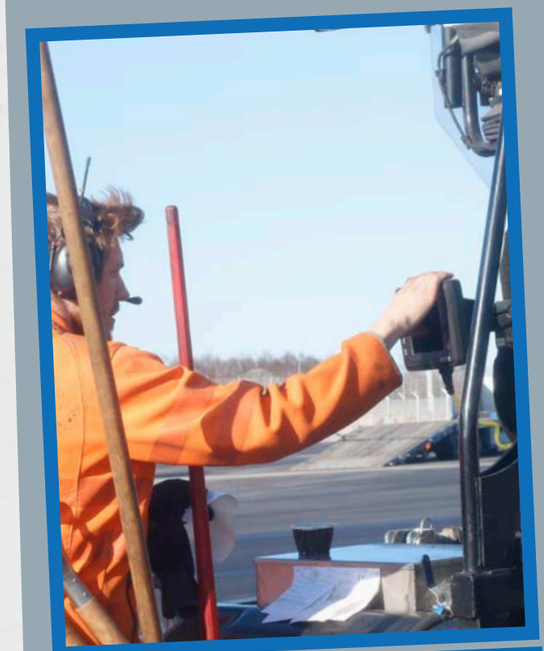
The MatManager™ Control Unit can easily be stored in the accompanying Carry Case between paving jobs.
The MatManager™ Interface Box and all sensors are designed for permanent mounting and should remain on the asphalt paver between paving jobs.

MatManager™ Specifications	
Power Supply	12/24 Volt System (10-30 VDC)
Power Consumption	Typical at 24VDC 200mA
Dimensions (DxWxH)	75x250x155mm / 3x9.8x6.1in
Weight	1.4kg / 3.1lbs
House	Durable plastic
Operating Temperature	-10°C to 70°C / 14°F to 158°F
Storage Temperature	-30°C to 80°C / -22°F to 176°F
Communication Bus	2xCAN, USB
Connections	1 Cannon Bayonet Plug, male 6 pin 1 Bayonet USB
Screen	7" : 800x480mm / 31.5x19in w. capacitive touch
IP Class	IP66 for vital parts



System overview of MatManager™ with Wirepull Screed Width Sensors

MatManager™ installations



MatManager™ on a CAT AP655F paver in Arlanda Airport in Sweden

MatManager™ installed on a CAT AP655F

MatManager™ Interface Box

MatManager™ on a Vögele SUPER 1900-2 paver

PAVING ACADEMY

- How-to videos
- Case stories
- Manuals
- Paving tips
- ... and more

Insecure of how it all works? Don't worry. Our systems are super easy to use, and our Paving Academy shows you how

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