

ScreedPro Paving System

Increase paving productivity up to 30%

Product Description

The Trimble ScreedPro® system is an automatic control system for paving or milling machines, that allows you to significantly increase your productivity. The affordable and easy-to-use ScreedPro paver control system plugs directly into the paver's automatic control system. The system uses sonic and laser technology, and digital electronics, to give you accurate control of mat thickness. The CSM-30 slope module has self-contained valve drivers and has a slope range of $\pm 100\%$. A laser interface module LM-25 allows laser control and also permits simple "on-the-fly" operating mode changes. An optional R-25 Universal Remote allows you to perform all the functions needed to maintain the desired mat thickness. ScreedPro's modular system design allows you to add components as you need them.

Using ScreedPro

The ScreedPro machine control paving system automatically adjusts the elevation and slope of the paver's screed to provide a smooth, accurate mat thickness. The Tracer Plus ultrasonic grade controller mounts to the tow arm or screed end-gate of the paver. The Tracer uses ultrasonic sound waves to measure the distance to a reference surface, such as a curb, gutter, stringline, or previous pass. Once the Tracer locks onto the reference surface, any change in the distance causes a correction signal to be sent to the machine's hydraulic control valve. This correction maintains the proposed depth of asphalt. The CSM-30 Slope Module is mounted to the machine's transverse beam to read and automatically maintain the desired slope across the screed.

An optional LM-25 Laser/Slope Module may be used instead to automatically maintain the desired slope as well as interface with Trimble electric masts and/or laser receivers. The R-25 Universal Remote displays and adjusts slope on machines equipped with the CSM-30 Slope Module while also displaying and adjusting screed



elevation on those equipped with the LM-25 Laser/Slope Module and ST2-25 Tracer Plus.

Applications

ScreedPro is designed for use on asphalt paving and milling machines. The system is ideal for a wide range of paving and resurfacing applications, including roads, airport runways, commercial developments, and parking lots. Using ScreedPro you can pave with increased productivity and precision.

Benefits

The ScreedPro system allows precise and accurate grade control by automatically controlling the elevation and slope of the paving screed or milling head. The ST2-25 Tracer Plus sonic device eliminates problems with asphalt building up on the ski, or time-consuming setups when referencing over storm drains or other obstacles. Also the Tracer Plus and R-25 Universal Remote combine to keep the screed operator out of traffic. You can adjust mat thickness from anywhere on the screed. The CSM-30 Slope Module, with its high accuracy accelerometer, will consistently measure slope under the highest of vibrations resulting in a smooth, accurate finish. All of these features, along with ease of use and reliability, mean you minimize equipment, material, and labor costs while increasing productivity—putting more profitability on your bottom line.



CAPABILITIES AND APPLICATIONS

- **Universal Remote** – adjust mat thickness from anywhere on the screed, out of traffic
- **Laser Interface** – allows for simple operation mode changes "on-the-fly" between laser, tracer, or slope control operation
- **Slope Module** – slope range of $\pm 100\%$ with solid state electronic accelerometer and self-contained valve drivers
- **Modular Components** – configure a system that fits your requirements
- **Expandable** – modular systems
- **Allows you to win more bids and make more money**



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Tracer Plus (ST2-25)

- Proven non-contact sonic technology
- Self-contained valve drivers. Just plug in and pave
- Temperature compensated with flip-down reference ball or thermister
- Super bright LED grade and auto/manual indicators
- Switches for:
 - elevation increase/decrease
 - reference reset
 - auto/manual
- Interface to optional universal remote



Universal Remote (R-25)

- Hand-held or optional mounting
- Backlit LCD
- LED grade and auto/manual indicators
- Toggle switches for:
 - mat increase/decrease, reference reset
- Touch switches for:
 - on/off
 - auto/manual operation
 - user options
- User options include:
 - jog, mode, reference elevation, cylinder speed, valve calibration, monitor slope or elevation
 - self test diagnostics, push-button slope calibration



Slope Modules

(CSM-30 or LM-25)

- Slope range ± 0 -100%
- Clinometer uses digital electronics
- Self-contained valve drivers
- Plugs into the machine's existing control connector

The LM-25 also offers:

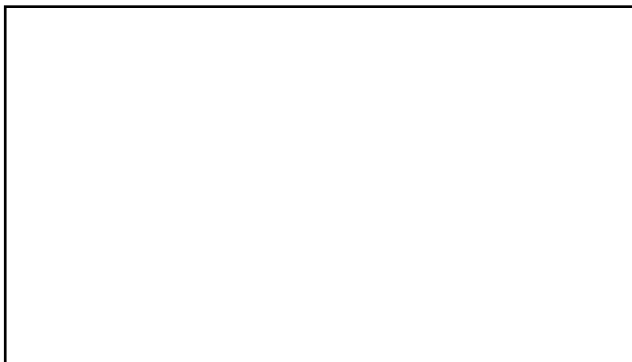
- Laser interface
- Permits simple "on-the-fly" changing of operating mode, between combinations of laser, ultrasonic, or slope control.

Note: R-25 Remote is required for operation of CSM-30 and LM-25

Technical Specifications

	ST2-25 Tracer Plus	R-25 Universal Remote	CSM-30	LM-25
Size:	Height 216 mm (8.5 in) Width 102 mm (4 in) Depth 95 mm (3.75 in)	Height 241 mm (9.5 in), w/o handle 133 mm (5.25 in) Width 127 mm (5 in) Depth 64 mm (2.5 in)	Height 133.35 mm (1.88 in) Width 47.75 mm (3.0 in) Depth 76 mm (5.25 in)	125 mm (4.9 in) 215 mm (8.5 in) 110 mm (4.3 in)
Weight:	1.77 kg (3.9 lb)	0.91 kg (2.0 lb)	1 kg (2.2 lb)	4.5 kg (10 lb)
Electric Inputs:	9 to 30 V DC	9 to 30 V DC	9 to 30 V dDC	
Temperature:				
Operating:	-18° C to 71° C (0° F to 160° F)	-18° C to 71° C (0° F to 160° F)	-29° C to 80° C (-20° F to 176° F)	
Storage:	-36° C to 82° C (-32° F to 180° F)	-36° C to 82° C (-32° F to 180° F)	-36° C to 82° C (-32° F to 180° F)	
Correction Window:	Programmable from ± 6 mm to 152 mm (± 0.002 ft to 0.5 ft), Factory setting = ± 30 mm (± 0.10 ft)		Programmable from $\pm 0.3\%$ to $\pm 10.0\%$ Factory setting = $\pm 2.0\%$	
On-Grade Tolerance:	Programmable from ± 1.5 mm to 15 mm (± 0.005 ft to 0.05 ft) Factory setting = ± 3 mm (± 0.01 ft)		Programmable from $\pm 0.00\%$ to 1.0% Factory setting = $\pm 0.1\%$	
Resolution:	0.01 ft (English mode), 1.0 mm (Metric mode)		Selectable: 0.01% or 0.1%, Factory Setting = 0.1%	
Operating Range:	203 mm to 1070 mm (8 in to 42 in)		0.0% to $\pm 100\%$	

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