LIGCHINE

BEYOND LEVEL

2021 Product Guide

About Ligchine™

Since its founding in 2007, the company has rapidly expanded its position in the market and offers a full line of automated concrete screeding machines that service flatwork companies from small owner-operated companies to large global concrete contractors. The company's headquarters, engineering and manufacturing are in the United States. In addition to a direct sales force in the US, the company has an extensive network of international dealers and partners to serve customers anywhere in the world.

Fast Facts

Company	Ligchine Corporation
Founded	2007
Ownership	Privately held
Leadership Team	Dave Ring, CEO | Peter Ligman, VP of Engineering
Product Offering	Laser-guided concrete screeding machines
Primary Offices	Darien, WI USA | Floyds Knobs, IN USA
Distribution	Global coverage through direct sales and dealer network

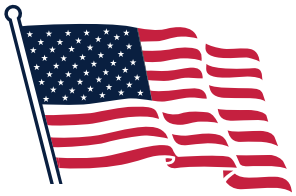
Innovative Laser-guided Concrete Screeds

Ligchine offers a full line of innovative boom-operated and drive-in laser-guided concrete screeds, specifically developed to meet the challenges of specification-driven commercial flatwork. Our customers are concrete flatwork contractors of all sizes performing work that demands first-rate Floor Flatness (FF) and Floor Levelness (FL) results.

100% Made in the USA

Ligchine machines are proudly designed and built in the USA at our state-of-the-art facility in Darien, Wisconsin.

"Ligchine is a global leader in laser-guided and 3D GPS/LPS-guided concrete screeds."



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Beyond Level™

Superior leveling performance is where it all starts with Ligchine screeds. But to enable our customers to be more competitive and profitable in a tight construction labor market, we must go further. We must go beyond level.

Superior Level Performance

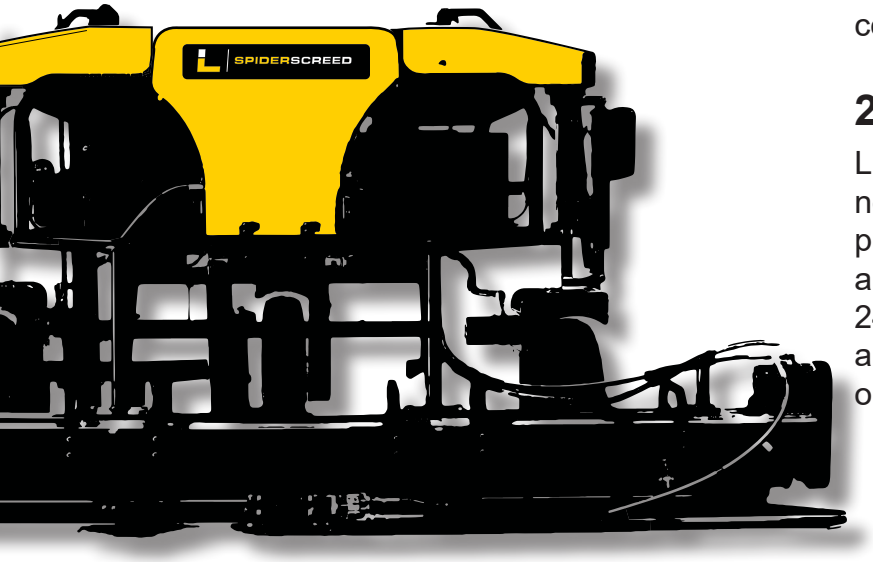
Ligchine screeds deliver industry leading Floor Flatness (F_F) and Floor Levelness (F_L) results.

Significant Labor Savings

Ligchine screeds dramatically reduce dependence on labor, which is often in short supply. A laser-guided concrete screed will help contractors perform more efficiently and profitably by being able to produce and deliver a flatter, level floor. Because of how fast these machines can get the job done, contractors will save money by using a smaller crew.

Efficient Operation

Ligchine screeds meet the productivity demands of commercial operations. With maximum coverage per pass and simple, quick movement to the next pass we deliver high screed rates per hour – so you can get the job done and move on to the next one.



"It starts with superior level performance, but Ligchine screeds go so much further – *beyond level.*"

Easy to Use

Ligchine screeds are designed with the operator in mind. Controls are intuitive, allowing operators to quickly become proficient for maximum performance and productivity.

Compact and Maneuverable

Ligchine screeds are developed for real world use. From our smallest to our largest machine, they are engineered to be as compact and maneuverable as possible. Users of these machines say not only does this improve operation on the jobsite, but it also simplifies loading and transport.

High Reliability

Ligchine screeds are engineered to keep you up and running consistently. Downtime, whether planned or unplanned, can have a significant impact on your operations. High reliability and easy-to-perform maintenance are core factors in machine development, from our design concepts to component selection.

24/7 Service and Support

Ligchine screeds are backed by a global network of experienced service and support professionals. You've got a job to do – and we are ready to help whenever you need us with 24/7 availability for parts, service, advice or anything else you need to keep your machines operating at peak performance.

Customer-driven Development

At Ligchine™, listening to our customers is at the core of our business and they play a vital role in helping shape our products and services to support their performance and business challenges. Our approach of listening to customers has led to a continual flow of technology advancements and innovations that lead the industry.

> **Listening to customers fuels a rapid and continual flow of technology advancements and innovations.**

History of Firsts

By designing for constant innovation, Ligchine has led the way with industry's most advanced concrete laser-guided screed machines, including the first:

- Wireless remote-controlled screed machine
- Only boom machine with "zero-turn drive" capability
- Company to offer a full range of boom-operated screeds to fit every need
- Only laser-guided screed offered with an all-terrain track drive system
- Laser-guided screed machine operated with a 3D GPS satellite control system
- Screed head mounted spray bar system to apply retarders or hardeners while screeding
- Boom machine that can be transported with an economical sized truck and utility trailer
- Boom machine with a screed head that can be changed out in minutes instead of hours
- Boom screed light enough to run on heat tubing, rebar and vapor barriers without damage
- With one-touch control that sets vibration, down riggers and auto level system automatically

Partnerships for Innovation

To drive the speed of innovations, Ligchine has partnered with leading providers of the components, systems and technologies that go into our screeds. These close relationships bring the best minds together and allow Ligchine to deliver advanced new capabilities at a rapid pace.

Product Portfolio

Ligchine's product portfolio is comprised of a full line of high-performance boom-operated screeds and a new revolutionary drive-in machine that offers the greatest mobility and highest flatness numbers ever achieved by a drive-in machine. All machines can be custom configured to operate with multiple machine control systems including laser, GPS (satellite) and LPS (robotic).

SCREEDSAVER™ Boom-Operated Screeds

Ligchine offers full line of high-performance boom-operated screeds to address the requirements for commercial flatwork. Our broad range of machines ensures the optimal combination of performance and value for every customer, from small owner/operators to large global construction companies.

- Coverage per screed pass from 120 - 240 sq. ft. (12.1 – 22.3 m²)
- Screed rates of 3,000 - 10,000 sq. ft./hour (278 m² - 929 m²)
- 2D, 3D LPS and 3D GPS leveling systems
- Two-wheel drive, zero-turn

Ligchine SPIDERSCREED™ Drive-In Screeds

Ligchine SPIDERSCREED drive-in systems are compact, lightweight and maneuverable systems for upper deck concrete and slab-on-grade screeding applications. They offer powerful performance, allowing lower slumps and cooler running at all times.

- Coverage per screed pass 10 ft. wide screed passes (3.048 m)
- 2D, 3D and LPS leveling systems
- Independent zero-turn drive, up to 90° horizontal drive and lateral drive
- Ultra-low weight, with industry's best power to weight ratio of 55 lbs. (25 kg) per horsepower
- The first and only Ligchine machine that uses a Topcon laser receiver for flat/sloped slabs

SCREEDSAVER BOSS 240

SPIDERSCREED

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SPIDERSCREED

In 2019, Ligchine™ introduced the SPIDERSCREED™ Series – a compact, lightweight and maneuverable drive-in system designed for upper deck concrete and slab-on-grade screeding applications. The drive-in SPIDERSCREED machine was designed to be lightweight and powerful, featuring a 100% TIG welded tubular aluminum cage design that keeps overall weight down to approximately 1,280 lbs. (581 kg). Its patent-pending VERSA-DRIVE™ system, independent zero turn drive, up to 90° horizontal drive, and lateral drive. It also incorporates Ligchine's patented machine leveling system to ensure flatter floors and greater compaction than simple screed head only leveling systems.

- **Leveling System:** Standard - automatic laser leveling (2 Topcon LS-B110 receiver eyes included).
- **Screed Head:** The SPIDERSCREED features a 10' auger in the screed. A roller head is also available as an option.
- **Drive System:** Independent hydraulic front wheel drive with zero-turn.
- **Steering System:** Wheels linked together in unison achieving zero-turn, parallel, and lateral steering/ drive motions.
- **Electronics:** Eaton keypad for operator controls.

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SPIDERSCREED

SPECIFICATIONS

Engine Size	Honda GX630 - 20.8 HP | 15.5 kW
Machine Size	W-94” (239 cm) x L-69” (175 cm) x H-57” (149 cm)
Machine Weight	1280 lbs. (581 kg)
Steering System	Wheels linked together in unison achieving zero-turn, parallel, and lateral steering and drive motions
Drive System	Independent front wheel drive with zero-turn capability
Zero-Turn Drive System	Yes
Machine Operation Control	Eaton keypad for operator controls
Diagnostics (hydraulic, electrical, engine and laser)	Standard – Parker MD4, 7” touch screen color display
Leveling System	Standard – Automatic laser leveling (2 Topcon LS-B110 receiver eyes included) Optional: Topcon Sonic Tracker (2 Topcon ST-2 Sonic Trackers) Optional: Topcon Robotic Total Station Control
Screed Head Width	10’ (3.1 m) Optional: 8’ (2.4 m)
Telescopic Poles	Adjustable height laser eye poles for transport and varying jobsite conditions

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SCREEDSAVER BOSS 240

Ligchine™ re-invented the mega sized screed machine in 2016 when it introduced the feature-loaded SCREEDSAVER™ BOSS 240 machine. The BOSS 240 is Ligchine's largest boom-operated screed and it includes a zero-turn drive system. Features include: hydraulic parallel side shifting for stickup avoidance; our patent-pending zero-turn drive system that allows BOTH the upper boom frame AND the lower drive frame to independently spin 360°; our automated concrete additive spray bar system integrated into the screed head; and an onboard color touchscreen full diagnostic display.

- **Engine:** Powered by a Kubota 57 hp gas engine (optional LP gas or diesel engines available).
- **Operation:** Total wireless remote control, independent, hydraulically controlled 360° zero-turn drive system AND 360° boom rotation.
- **Screed Head Length:** Standard 13.5' (4.12 m) screed head.
- **Screed Coverage:** Cover 240 sq. ft./pass (22.3 m²) resulting in screed rates up to 10,000 sq. ft./hour (929 m²) or more depending upon site variables.
- **Drive System:** Front-wheel hydraulic drive; zero-turn capabilities.
- **Boom Reach:** 18' (5.5 m)

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SCREEDSAVER BOSS 240

SPECIFICATIONS

Weight	7,550 lbs. (3,425 kg)
Machine Size (width x length x height)	6’ 10” x 16’ 6” x 5’ 6” (2.1 m x 5.1 m x 1.7 m)
Boom Reach	18’ (5.5 m)
Engine	Kubota WG16005G 57 hp, Gas Kubota LP or Diesel available
Drive System	Front-Wheel Hydraulic Drive with Front-Wheel Steering
Zero-Turn Capable	Yes
Machine Operation Control	Wireless Remote Control
Standard Screed Head Width	13’ 5” (4.12 m)
Coverage per Screed Pass	240 sq. ft. (22.3 m²)
Standard Screed Head Weight	455 lbs. (207 kg)
Rotating Undercarriage	360° Hydraulic Control
Alternate Screed Head Options	High Performance, Paver
Leveling Systems	2D Laser Leveling (Standard) - Grade, Slope, Dual Slope - Trimble® LR30 Eyes (included) 3D Systems (Optional) - Contoured concrete paving - choice of Topcon LPS or 3D GPS
Diagnostic Feedback	7” color touch-screen display with hydraulic/electrical/ engine/systems display

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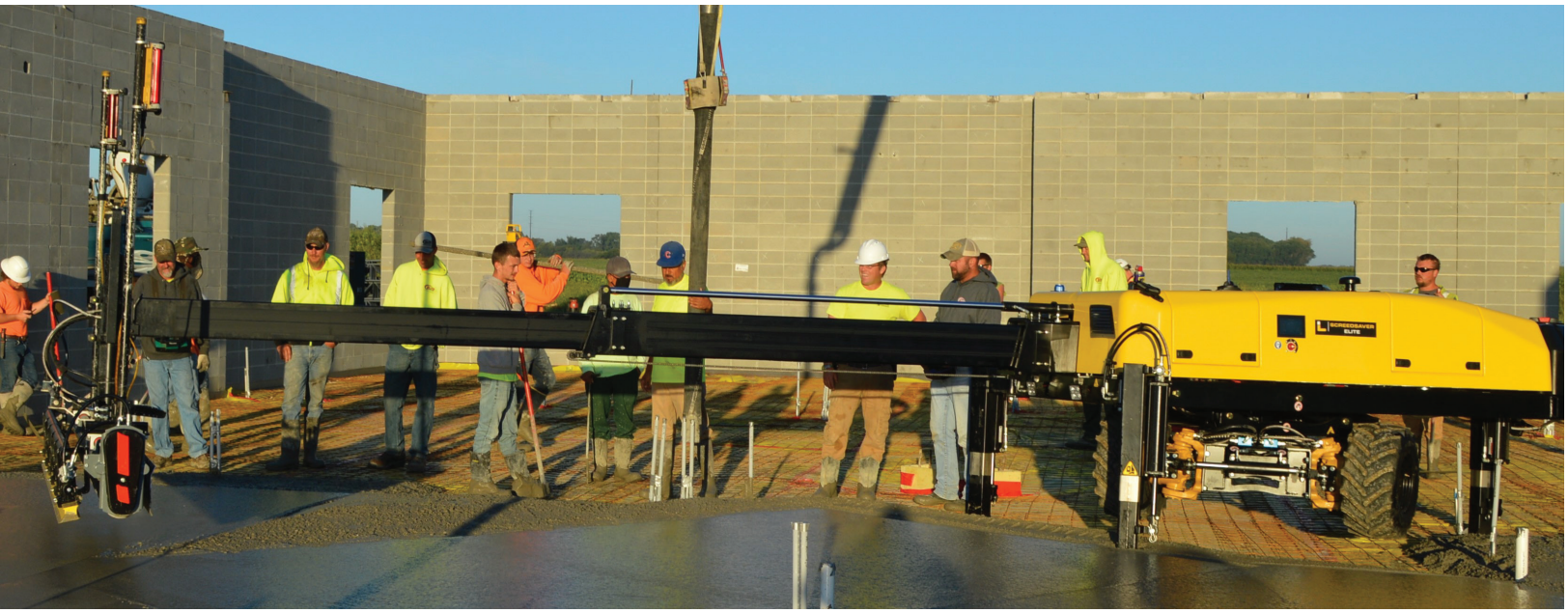

SCREEDSAVER ELITE

Ligchine introduces the SCREEDSAVER ELITE, the newest laser-guided concrete screed machine to join the SCREEDSAVER line of innovative, labor-saving machines. The SCREEDSAVER ELITE showcases new features including all-wheel drive, heavy-duty boom sections reaching out to 18', 65-gallon on-board fluid tanks and an on-board pressure washer for clean-up. The game-changing side-shift head makes it easier to screed around stick-ups in slabs with pinpoint accuracy. This machine is the most innovative and revolutionary laser-guided screed machine to join the SCREEDSAVER line of machines from Ligchine.

Key Features: The SCREEDSAVER ELITE includes all new 12' side-shift screed head, all-wheel drive system and remote control system, which is standard on all Ligchine boom screeds.

Engine: Kubota V1505, 4-cylinder, diesel engine.

Lighting System: Grote Trilliant 3000L LED lights.

Diagnostic Display: Readily accessible Parker touch-screen display with full diagnostics capability.

Transport: Ease of transport with a 3/4 ton pickup truck.

Optional: High-performance, paver, screed head.

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SCREEDSAVER ELITE

SPECIFICATIONS

Engine Size	Kubota V1505, 4-cylinder / 3,000 rpm, diesel
Machine Size (retracted)	W-5’ 9” (1.79 m) x L-14’ 6” (4.45 m) x H-5’ 5” (1.67 m)
Machine Weight	6,540 lbs. (Including screed head and full water tanks)
Steering System (hydraulic)	Front-wheel steering
Drive System (hydraulic)	4 wheel proportional
Parallel to the Pour Driving Capable	Yes
Lighting System	2 forward & 1 rear facing Grote Trilliant 3000L LED lights
Machine Operation Control	100% Wireless Remote Control
Coverage per screed pass (no overlap)	216 sq. ft. (20 sq. m)
Side-shift Screed Head Length	12’ (3.6 m)
Boom Reach	18’ (5.5 m)
Self-contained Concrete Additive Sprayer System	Standard
Diagnostics (hydraulic, electrical, engine and laser)	Standard – Parker MD4, 7” touch-screen color display
Transport with Pickup Truck and Trailer	Yes
Machine Length When in Trailer Mode	23’ (7.01 m)
Alternate Screed Head Options	High-Performance, Paver, Various Widths
Grade/Slope/Dual Slope control (standard)	Topcon LS-B110
Contoured Slope 3D Capable (optional)	Topcon 3D mmGPS Satellite control or LPS Robotic
360° Turntable, Zero-Turn Drive System	Standard

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SCREEDSAVER PRO 220

Introduced in 2017, the SCREEDSAVER™ PRO 220 combines the accuracy and durability of our Standard SCREEDSAVER MAX 200 with numerous design features that are included on our top of the line BOSS 240 mega screed. Unique to the PRO 220 machine are the inclusion of our patent pending zero-turn drive system that allows BOTH the upper boom frame AND the lower drive frame to independently spin 360°. It also features our automated concrete additive spray bar system integrated into the screed head and our on-board color touch-screen diagnostic display.

- **Key Features:** The PRO 200 includes our standard features of wireless remote control, fully automatic operation, 2D laser control and 3D GPS OR LPS control (optional).
- **Engine:** Kubota D902 25 hp Tier 4 Diesel engine.
- **Lighting System:** Bright LED lighting system.
- **Diagnostic Display:** Readily accessible Parker touch-screen display with full diagnostics capability.
- **Screed Head Length:** Completely automatic laser-guided leveling; labor eliminating auger screed head 12'6" (3.8 m) is standard.
- **Optional:** Ligchine™ paver/roller heads and high performance heads are upgrade options. Boom extension of 18' (5.5 m) results in screed rates up to 8,500 sq.ft./hour (789 m^2).

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SCREEDSAVER PRO 220

SPECIFICATIONS

Engine Size	Kubota D902 (25 hp) Tier 4 Final
Machine Size (retracted)	W-6’ 4” (1.9 m) x L-14’ 5” (4.5 m) x H-4’ 6” (1.39 m)
Machine Weight	4,870 lbs. (2,209 kg) + screed head
Steering System (hydraulic)	2 Wheel
Drive System (hydraulic)	2-Wheel Proportional Drive
Parallel to the Pour Driving Capable	Yes
360º Hydraulic Controlled Turntable	Standard (upper & lower controls)
Zero-Turn Drive System	Yes
Machine Operation Control	100% Wireless Remote Control
Coverage per screed pass (no overlap)	220 sq. ft. (18.6 m^2)
Standard Screed Head Width	12’ 6” (3.8 m)
Boom Reach	18’ (5.5 m)
Self-contained Concrete Additive Sprayer System	Standard (automatic activation)
Diagnostics (hydraulic, electrical, engine and laser)	Standard – Parker MD4, 7” touch-screen color display
Transport with Pickup Truck and Trailer	Yes
Alternate Screed Head Options	High Performance, Paver, Pervious, Various Widths
Grade/Slope/Dual Slope control (standard)	Trimble® LR30 Eyes (included)
Contoured Slope 3D Capable (optional)	Topcon 3D mmGPS Satellite control or LPS Robotic

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SCREEDSAVER MAX 200

The SCREEDSAVER™ MAX 200 is the best return-on-investment screed machine available given its high-production output and value price point. Like every SCREEDSAVER model, the MAX 200 includes our standard features of wireless remote control, fully automatic operation, 2D laser control and 3D GPS OR LPS control (optional). Contractors may haul it with a pickup truck/trailer combination. The MAX 200 boasts F_L numbers that can only be achieved by a boom operated screed.

- **Screed Coverage –** The MAX 200 offers 200 square feet of coverage per pass with a 18' boom combined with a 12.5' Superflat screed head.
- **Engine –** Legendary Kubota D902 diesel engine with Tier 4 compliance.
- **Drive System –** 2 wheel proportional drive with wireless remote control.
- **Grade/Slope/Dual Slope Control–** Trimble® LR30 Eyes (included).
- **Ease of Transport –** The MAX 200 can be towed with pickup truck/trailer and enter/exit through 6' door openings.

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SCREEDSAVER MAX 200

SPECIFICATIONS

Engine Size	Kubota D902 (25 hp) Tier 4 Final
Machine Size (retracted)	W-6’ 4” (1.9 m) x L-14’ 5” (4.5 m) x H-4’ 6” (1.39 m)
Machine Weight	4,380 lbs. (1,987 kg) + screed head
Steering System (hydraulic)	2 Wheel Steering
Drive System (hydraulic)	2 Wheel Proportional Drive
Parallel to the Pour Driving Capable	Yes, 90° Pivoting Undercarriage Drive Frame
Machine Operation Control	100% Wireless Remote Control
Coverage per screed pass (no overlap)	200 sq. ft. (18.6 m^2)
Standard Screed Head Width	12’ 6” (3.8 m)
Boom Reach	18’ (5.5 m)
Transport with Pickup Truck and Trailer	Yes
Alternate Screed Head Options	High Performance, Paver, Pervious, Various Widths
Grade/Slope/Dual Slope control (standard)	Trimble® LR30 Eyes (included)
Contoured Slope 3D capable (optional)	Topcon 3D mmGPS Satellite control or LPS Robotic

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SCREEDSAVER II

Ligchine introduced the SCREEDSAVER II™ machine in 2008 as the world's most competitively priced boom-operated screed ever offered to the industry. SCREEDSAVER II includes a zero-turn drive system (independent hydraulic front wheel drive) making it the perfect companion for cut-up jobsites and spaces that no other boom screed would attempt to complete.

- **Engine:** Powered by a Honda 20 hp gas engine.
- **Operation:** The wireless remote-controlled SCREEDSAVER II achieves world class F_F/F_L numbers that only a stationary boom-operated screed can reliably produce.
- **Screed Head Length:** We attach our standard 10.5' (3.2 m) screed head to a boom that reaches 12.5' (3.8 m) which means you cover 130 sq. ft/pass. (12.1m²).
- **Screed Coverage:** Up to 3,000 sq. ft./hour (278 m²) or more depending upon site variables.
- **Drive System:** Independent hydraulic front-wheel drive.
- **Boom Reach:** 12' 5" (3.8 m).

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SCREEDSAVER II

SPECIFICATIONS

Weight	2,840 lbs. (1,288 kg)
Machine Size (width x length x height)	W - 4’ 6” x L - 10’ 11” x H - 4’ 6” (W- 1.4 m x L - 3.3 m x H - 1.4 m)
Boom Reach	12’ 5” (3.8 m)
Engine	Honda GX630 20 hp, Gas
Drive System	Independent hydraulic front wheel drive zero-turn drive
Zero-Turn Capable	Yes
Standard Screed Head Specifications	10’ 5” (3.2 m)
Coverage per Screed Pass	130 sq. ft. (12.1 m²)
Standard Screed Head Weight	255 lbs. (116 kg)
Alternate Screed Head Options	High Performance, Paver, Pervious, Various Widths
Leveling Systems	2D Laser Leveling System (Standard) - Grade, Slope, Duel Slope - Trimble® LR30 Eyes (included) 3D Systems (Optional) - Contoured concrete paving - choice of Topcon 3D LPS or 3D GPS
Diagnostic Feedback	Hydraulic/Electrical LCD Display

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Leveling Systems

Ligchine™ has partnered with Topcon Positioning Systems to offer you the world's most advanced screeding systems to accurately place concrete on grade, slope, dual slope and 3D contours – and deliver significant labor savings. Our offering includes low-cost, entry level systems for the contractor just getting started, to total site management of earth moving machines and concrete machines simultaneously from one system.

You also receive the full technical service support of two world-class organizations working together to ensure optimal performance of your system. Our systems also use numerous common components, allowing you to switch back and forth between GPS and LPS as desired, as well as providing a path for cost-effective upgrades.

3D GPS Paving System

Ligchine's 3D GPS paving system provides the world's most sophisticated GPS (global positioning system) control for concrete paving. The system can simultaneously run a fleet of earth moving machines and concrete screeding machines from a single GPS base station. You have the ability to verify your work with the included Topcon Rover, ensuring job site compliance and absolute accuracy at all times.

- Extremely high precision for demanding requirements
- Controls multiple systems running simultaneously
- World-class accuracy
- Supports high-volume production
- Open architecture system

3D LPS Paving System

Ligchine's 3D LPS paving system provides a cost-effective entry point for LPS (local positioning system) control for concrete paving. The system utilizes an automatic tracking Robotic Total Station to register and maintain screed position from a machine mounted prism and sonic tracker. Height adjustments are transmitted to and from the screed at a rate of 20 times per second via radio signal to maintain accurate specifications on the defined jobsite plan.

- Lowest cost entry point for a 3D paving system
- World-class accuracy
- Supports high-volume production
- Operates indoors, outdoors and in areas with obstructed GPS satellite reception
- Open architecture system

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