

# PRODUCT GUIDE

# LIGCHINE

## BEYOND LEVEL



## LASER GUIDED CONCRETE SCREEDS

**LIGCHINE.COM**

**812-903-4500 • SALES@LIGCHINE.COM**



# LIGCHINE

## ABOUT

Since its founding in 2007, Ligchine® 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, Ligchine has an extensive network of international dealers and partners to serve customers anywhere in the world.

## FAST FACTS

### COMPANY

Ligchine International Corporation

### FOUNDED

2007

### OWNERSHIP

Privately held

### 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



# BEYOND

*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

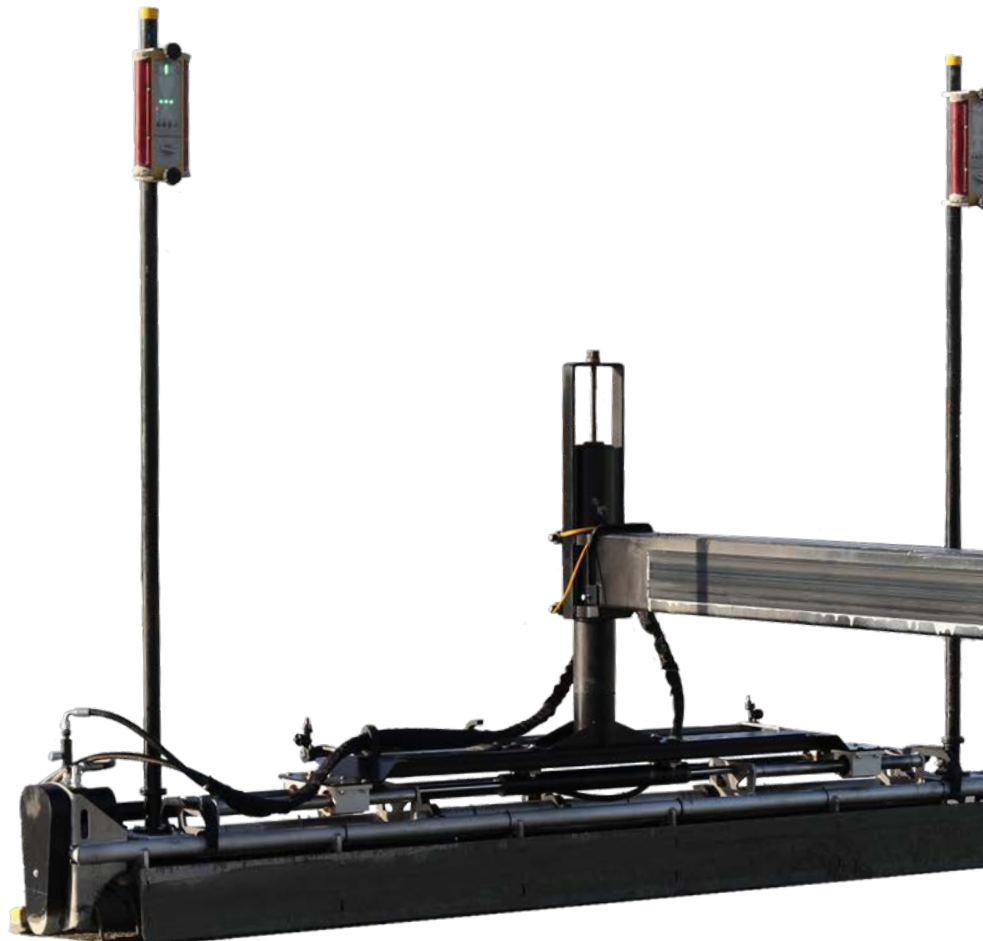
Ligchine screeds deliver industry leading Floor Flatness ( $F_p$ ) and Floor Levelness ( $F_L$ ) results.

### 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.



# 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.

## **HISTORY OF FIRSTS**

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

- Wireless remote-controlled screed machine
- Full range of boom-operated screeds to fit every need
- 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
- Side-shift head allowing easy maneuvering around stick-ups



**“LIGCHINE IS A GLOBAL LEADER IN LASER-GUIDED AND 3D LPS-GUIDED CONCRETE SCREEDS.”**



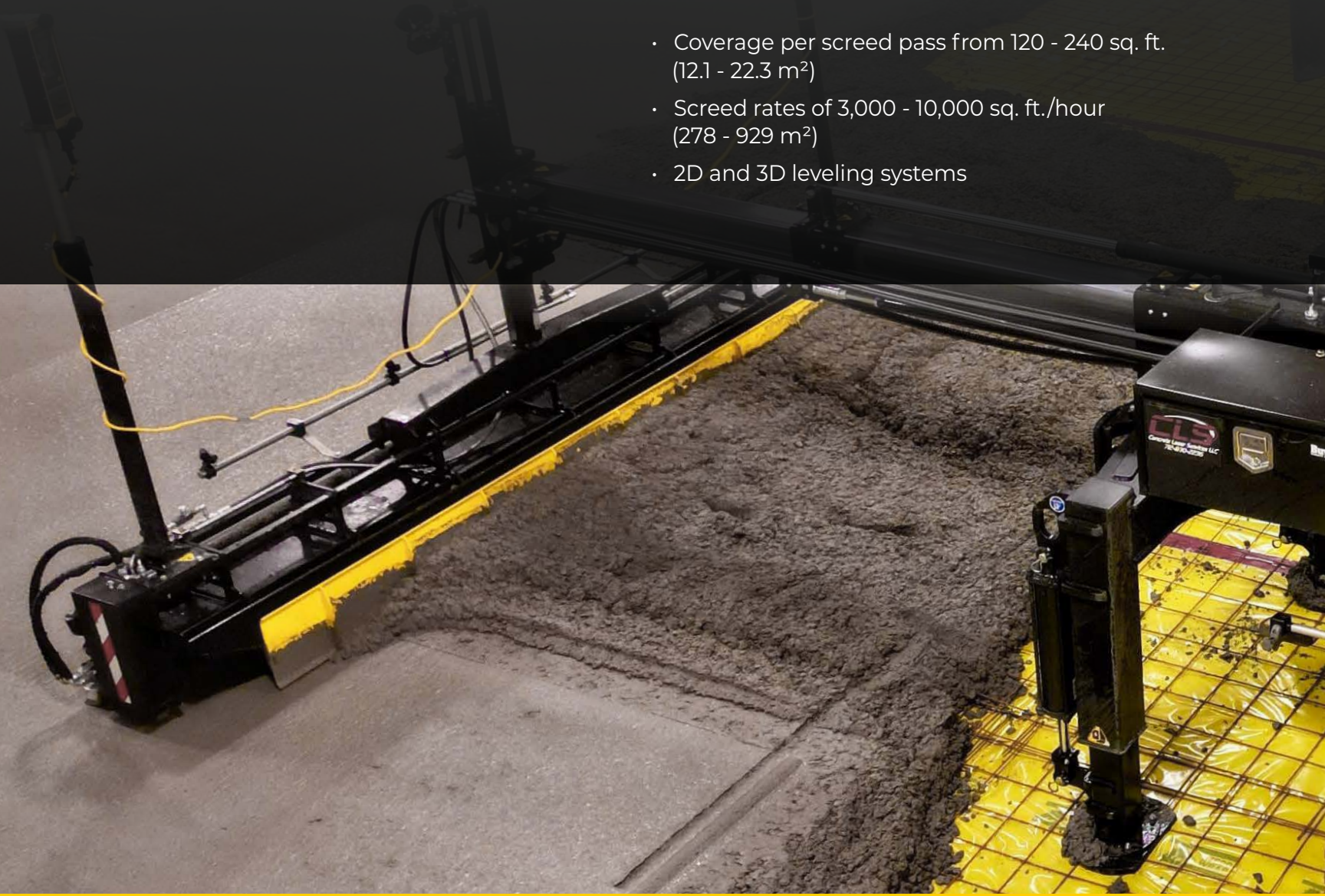
# **L** PRODUCT PORTFOLIO

The Ligchine product portfolio is comprised of a full line of high-performance boom-operated screeds and a revolutionary concrete placer and line dragger.

## **SCREEDSAVER® BOOM-OPERATED SCREEDS**

Ligchine offers a full line of high-performance boom-operated screeds to address the requirements for commercial concrete 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 m<sup>2</sup>)
- Screed rates of 3,000 - 10,000 sq. ft./hour (278 - 929 m<sup>2</sup>)
- 2D and 3D leveling systems



## **INNOVATIVE LASER-GUIDED CONCRETE SCREEDS**

Ligchine offers a full line of innovative boom-operated 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.



# E-Z PLACER™

## CONCRETE PLACER

The E-Z PLACER provides a portable, easy to operate, agile solution for efficiently and safely placing concrete in line pump applications. The E-Z PLACER is a self-propelled, remote operated concrete placer and line dragger in a single, easy to transport unit.

- 27' (8.23 m) material placement reach through a 4" or 5" delivery line
- 13 HP Honda GX390 gas engine
- Remote operated with a full set of back up manual controls
- 60" wide and 4,000 pounds makes it easy to transport and maneuver



## 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 industry leading technology advancements and innovations.

## 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.

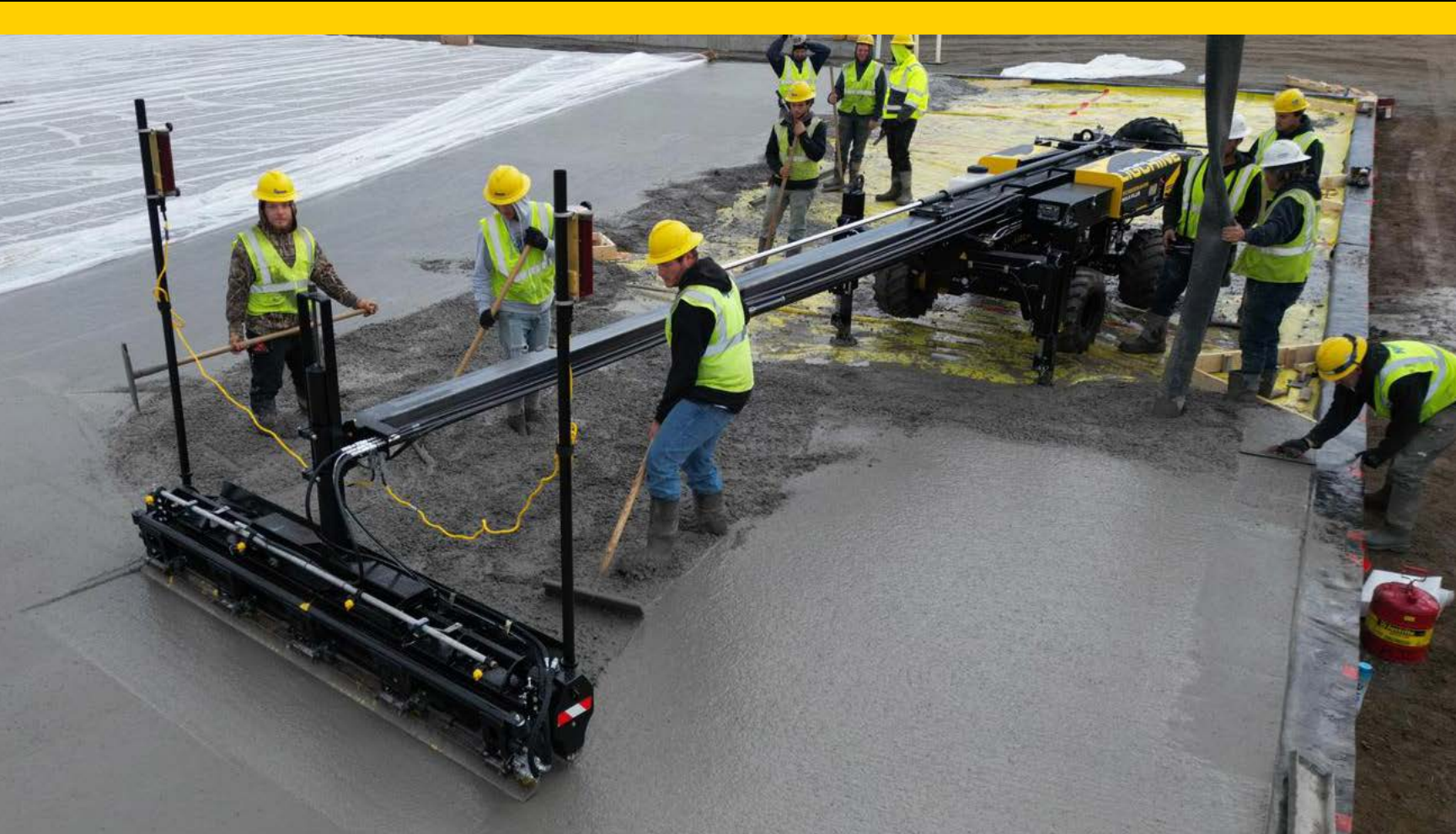


# E-Z GRADER™ GRADER ATTACHMENT

The ALL-NEW E-Z Grader attachment – effortlessly level your job site using equipment you already have! Achieve precise grading with laser accuracy with the E-Z Grader. It's fully compatible with all leading skid steer brands.

The E-Z Grader is a multifaceted attachment designed to deliver precise grading across a wide range of projects. This innovative tool is perfect for various applications, including warehouses, parking lots, athletic fields, and much more!

- Universal Skid Steer Mount
- Adjustable Ripper Shanks
- 2D Laser Receivers Included
- Removable Laser Poles
- High Flow and Standard Flow Compatible (up to 60 Gallons a Minute)
- 3D Ready for Contoured Slopes



BEYOND LEVEL





## 3D LPS PAVING SYSTEM

The Ligchine 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 20 times per second to maintain accurate specifications on the jobsite.

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

## LEVELING SYSTEMS

Ligchine™ has partnered with Topcon Positioning Systems to provide the world's most advanced screeding systems to accurately place concrete on grade, slope, dual slope and 3D contours – and deliver significant labor savings.

We offer turn key solutions from 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.

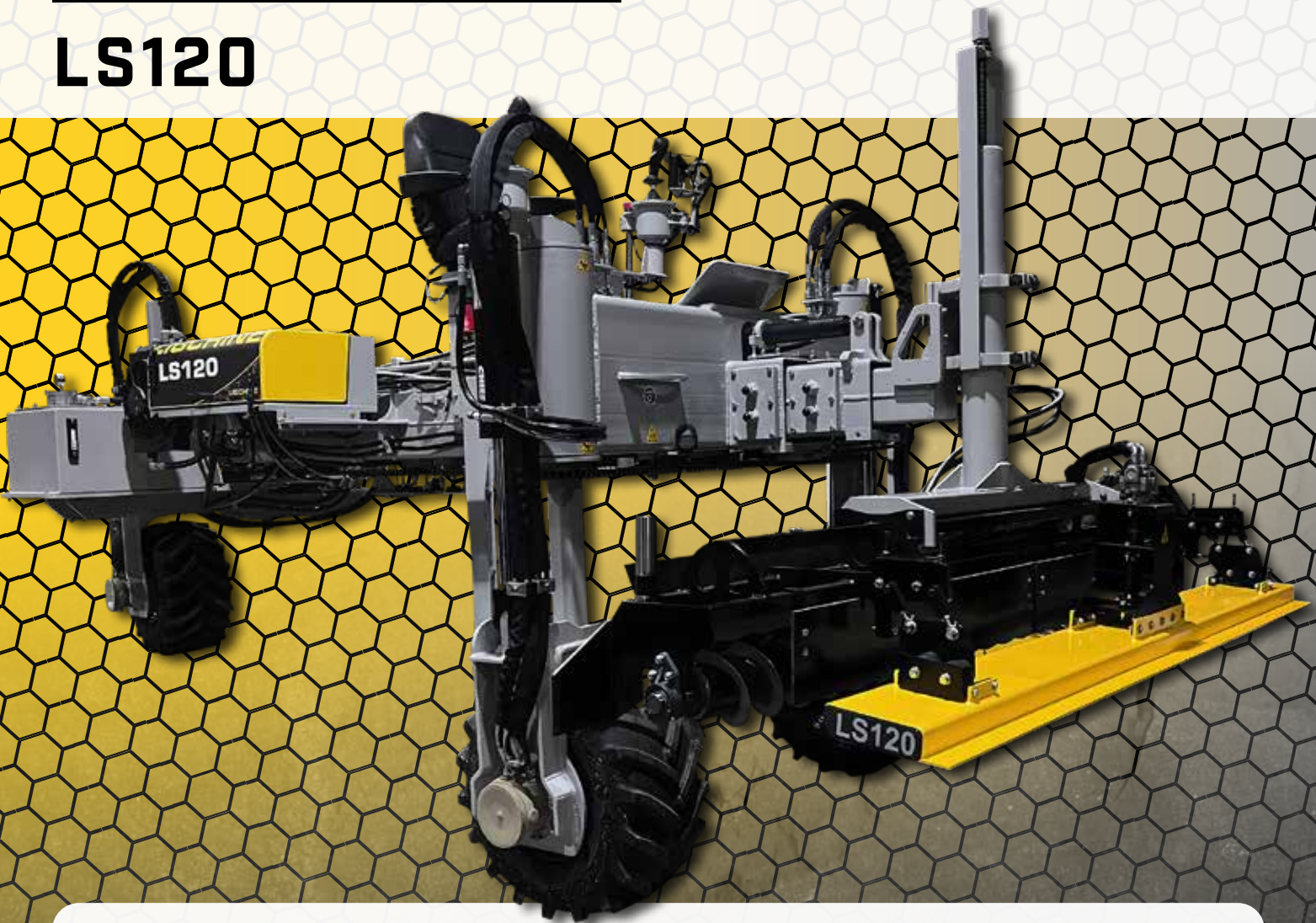
 **TOPCON**





# LIGCHINE

## LS120



Introducing the Ligchine® LS120® - designed to be a more affordable solution for concrete contractors looking to own a laser-guided concrete screed. The LS120 features an 8-foot screed head width, a 16-foot boom reach, and a 3-wheel steer and drive.

**Screed Coverage:** The LS120 offers 16' (4.88 m) of boom extension with an 8' (2.4 m) screed head

**Engine:** Honda IGX800 - 24.9HP (18.5kW) – Fuel Injected V-twin

**Drive System:** 3-wheel steer and drive

**Grade/Slope/Dual Slope Control:** Topcon® LS-B200 laser receivers (included)

**Ease of Transport:** The LS120 can be towed with a pickup truck and trailer

## LS120

Engine Size	Honda IGX800 - 24.9HP (18.5kW) - Fuel Injected V-Twin
Machine Size (retracted)	L-16'-8" (5.1 m) x W-6' 9" (2.01 m) x H-7'-2" (2.2 m)
Trailer Mode Length	19'-6" (5.9 m)
Machine Weight	4,640 lbs. (2,105 kg)
Machine Weight w/head	5,000 lbs. (2268 kg)
Steering System (Hydraulic)	All Wheel Steering
Drive System (Hydraulic)	3 Wheel Drive
Parallel to the Pour Driving Capable	Yes
Machine Operation Control	Operator platform with Joystick control
Coverage Per Screed Pass (no overlap)	120 sq. ft. (11.1m2)
Standard Screed Head Width	8' (2.4m) High Performance Floating blade
Boom Reach	16'
Diagnostics (Hydraulic, electrical, engine and laser)	Standard - Parker MD4, 7" touch-screen color display
Transport with pickup truck and trailer	Yes
Grade/Slope/Dual Slope Control (Standard)	Topcon LS-B200 Receivers (included)
Contoured Slope 3D Capable (Optional)	Yes



# LIGCHINE

## SCREEDSAVER® MAX PLUS®



## SCREEDSAVER MAX PLUS

Based off the successful SCREEDSAVER® MAX platform, the sleek SCREEDSAVER MAX PLUS® adds new features such as a built-in diagnostic touchscreen, revolutionary SCREEDSHIFT™ pivoting frame, Topcon® laser receivers, a totally revised wireless remote control system, and a feature packed, quiet Honda gasoline engine.

**Screed Coverage:** The MAX PLUS offers 18' (5.49 m) of boom extension with a 10' (3 m) SCREEDSAVER head.

**Engine:** Honda iGX800 - electronic fuel injection, air cooled, four stroke, 24.9 HP (18.5 kW).

**Drive System:** 2 wheel proportional drive with wireless remote control.

**SCREEDSHIFT™ Pivoting Frame:** Up to 5'3" (1.6 m) of side-to-side screed head movement with a pivoting boom member.

**Grade/Slope/Dual Slope Control:** Topcon® LS-B200 laser receivers (included).

**Ease of Transport:** The MAX PLUS can be towed with pickup truck and trailer and pass through 6' door openings.



# LIGCHINE

## SCREEDSAVER MAX PLUS



SCREEDSHIFT



TECHNOLOGY

Engine Size	Honda iGX800 - 24.9HP (18.5kW) - Fuel Injected V-Twin
Machine Size (retracted)	W-6' 3" (1.9 m) x L-15' 10" (4.8 m) x H-(top of pivot post)-5' 7" (1.7 m)
Machine Weight	5,100 lbs. (2,313 kg)
Steering System (hydraulic)	2 Wheel Steering
Drive System (hydraulic)	2 Wheel Proportional Drive
Parallel to the Pour Driving Capable	Yes - 90° Manual Pivoting Undercarriage Drive Frame with Screedshift™
Machine Operation Control	Wireless Remote Control - Scanreco
Coverage Per Screed Pass (no overlap)	170 sq. ft. (15.79 m²)
Screed Head Width	10' (3 m)
Boom Reach	18' (5.49 m)
Transport with Pickup Truck and Trailer	Yes
Screed Head Options	10' SCREEDSAVER Head, 9' High Performance Head
Grade/Slope/Dual Slope Control (standard)	Topcon® LS-B200 Receivers (included)
Contoured Slope 3D Capable (optional)	Topcon® 3D LPS Robotic
Extras	Tool Box, LED Lighting, Spray System



# LIGCHINE

## SCREEDSAVER® MAX PLUS® E



## SCREEDSAVER MAX PLUS E

The new SCREEDSAVER® MAX PLUS® E builds on the success of the revolutionary SCREEDSAVER MAX PLUS with an industry-first 100% lithium-ion electric power system. The MAX PLUS E is equipped with EDRIVE, a 48-volt electrically driven hydraulic power unit. The MAX PLUS E features a built-in diagnostic touchscreen, revolutionary SCREEDSHIFT™ pivoting frame, Topcon® laser receivers, and Ligchine Gen 2 wireless remote control system. Now you can safely screed indoors and in climate sensitive environments with the all new MAX PLUS E.

**Take your business to the next level– go zero emissions with Ligchine!**

**Screed Coverage:** The MAX PLUS E offers 18' (5.49 m) of boom extension with a 10' (3 m) SCREEDSAVER head.

**Energy Storage:** 48V Lithium Ion.

**Electric Motor System:** 48V 3-Phase AC Liquid Cooled electric motor.

**Drive System:** 2 wheel proportional drive with wireless remote control.

**SCREEDSHIFT™ Pivoting Frame:** 12 degrees of total movement, with up to 5' 3" (1.6 m) of side-to-side screed head movement with a pivoting boom member.

**Grade/Slope/Dual Slope Control:** Topcon® LS-B200 laser receivers (included).

**Ease of Transport:** The MAX PLUS E can be towed with pickup truck and trailer and pass through 6' door openings.

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MACHINE DETAILS & SPECS

# LIGCHINE

## SCREEDSAVER MAX PLUS E



Electric Motor System	48v Lithium Ion Battery 48V 3-Phase AC Liquid Cooled Electric motor
Machine Size (retracted)	W-6' 3" (1.9 m) x L-15' 10" (4.8 m) x H (top of pivot post)-5' 7" (1.7 m)
Machine Weight	5,300 lbs. (2,404 kg)
Steering System (hydraulic)	2 Wheel Steering
Drive System (hydraulic)	2 Wheel Proportional Drive
Parallel to the Pour Driving Capable	Yes - 90° Manual Pivoting Undercarriage Drive Frame with SwingBoom™
Machine Operation Control	Wireless Remote Control - Scanreco
Coverage Per Screed Pass (no overlap)	170 sq. ft. (15.79 m²)
Screed Head Width	10' (3 m)
Boom Reach	18' (5.49 m)
Transport with Pickup Truck and Trailer	Yes
Screed Head Options	10' SCREEDSAVER Head, 9' High Performance Head
Grade/Slope/Dual Slope Control (standard)	Topcon® LS-B200 Receivers (included)
Contoured Slope 3D Capable (optional)	Topcon® 3D LPS Robotic
Extras	Tool Box, LED Lighting, Spray System



# LIGCHINE

## SCREEDSAVER® ULTRA PLUS



# SCREEDSAVER ULTRA PLUS

Introducing the Ligchine SCREEDSAVER® ULTRA PLUS. Born with a long reach and a wide pass, this machine is built to screed more and screed faster. Complete with an ultra heavy-duty boom reaching 20 feet with an all-new High Performance 12.5' screed head. Powering the ULTRA PLUS is a 45 horsepower Kubota turbocharged diesel engine. For increased maneuverability and traction, the ULTRA PLUS includes selectable four-wheel drive with a 2-speed drive range, and four-wheel independent steering. The ULTRA PLUS features a high-tech elevated operator's platform, including a captain's seat, twin joystick controls, and a 7" touchscreen control panel- which also serves as a display for the industry-first SCREEDVIEW™ camera system. On board you will find a built in pressure washer for clean-up, two locking toolboxes, and two high-capacity water tanks.

**Key Features:** The SCREEDSAVER ULTRA PLUS includes a 12.5' High Performance head, SCREEDSHIFT™ pivoting frame technology, 4 camera SCREEDVIEW™ system, Ligchine Gen 2 Wireless control, and an on-board pressure washer.

**Drive & Steering :** All wheel drive.

**Engine:** Kubota V1505T, 4-cylinder, turbocharged diesel engine.

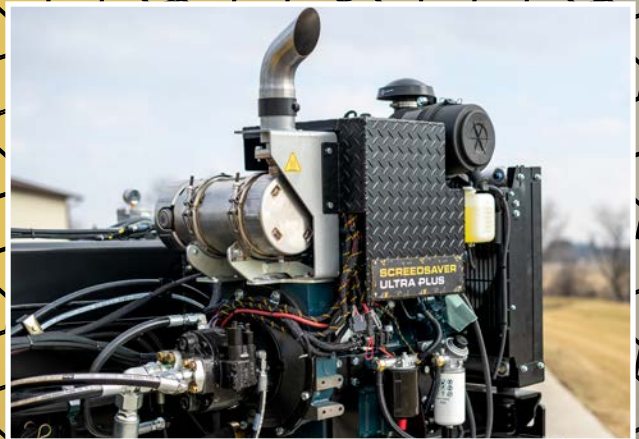
**Lighting System:** Front and rear LED pods.

\*PRE-PRODUCTION MODEL SHOWN, SPECIFICATIONS SUBJECT TO CHANGE



# LIGCHINE

## SCREEDSAVER ULTRA PLUS



Engine Size	Kubota V1505T, 4-cylinder / 3,000 rpm, Turbo-Diesel
Machine Size (retracted)	W-8'4" x L-18'8" H-7'2"
Machine Weight	11,500 lbs. (5,216 kg)
Steering System (hydraulic)	All wheel drive
Drive System (hydraulic)	Selectable 4 wheel, with 2-speed drive range
Parallel to the Pour Driving Capable	Yes – 360 degree drive frames (zero turn capable)
Lighting System	2 forward and 2 rear LED light pods
Machine Operation Control	Operator's Platform with Twin Joystick control or 100% Wireless Remote Control
Coverage per screed pass (no overlap)	240 sq. ft.
SCREEDSHIFT™ range of motion	12 degrees total motion: 6 degrees left and right
Boom Reach	20'
Self-contained Concrete Additive Sprayer System	Standard
Diagnostics (hydraulic, electrical, engine and laser)	Dual Parker MD4, 7" touch-screen color display
Machine Length When in Trailer Mode	26'9"
Grade/Slope/Dual Slope control (standard)	Topcon LS-B200 Receivers (included)
Contoured Slope 3D Capable (optional)	Topcon 3D LPS Robotic



A black and yellow Ligchine Screedsaver Pro Plus machine is shown in a construction setting. The machine has a large auger at the front and a long boom extending to the right. The brand name 'LIGCHINE' is visible on the side of the machine. The background shows a construction site with various materials and structures.

# LIGCHINE

## SCREEDSAVER® PRO PLUS

# SCREEDSAVER PRO PLUS

Introducing the Ligchine SCREEDSAVER® PRO PLUS. The PRO PLUS is the culmination of 15 years of experience building laser guided screeds. Taking advantage of frame leveling technology that makes achieving FF/FL specifications not only possible but repeatable on a daily basis. The PRO PLUS has SCREEDSHIFT™ technology that was first developed on the MAX PLUS allowing the operator to move the screed head around obstacles and penetrations without rotating the head. The PRO PLUS also utilizes a rotating undercarriage for versatility and speed when operating in smaller or congested areas. With an increased auger size, longer boom reach and wider head, the PRO PLUS is highly productive in all applications from warehouse floors to exterior multiple slope pavements. All these features are achieved while keeping the size and weight of the machine compact, providing the ability to transport the machine with a ¾ ton truck and trailer.

### **Key Features:**

The PRO PLUS includes our standard features of wireless remote control, fully automatic operation, 3D LPS control.

### **Screed Head Length:**

Completely automatic laser-guided leveling auger high performance 11' (3.4 m) screed head is standard. Boom extension of 18' (5.5 m) results in screed rates up to 200 sq.ft. (18.6 m<sup>2</sup>) per screed pass.

### **Engine:**

Yanmar 3TNV88C-DSA 36.9 HP (27.5 kW) diesel engine

### **Lighting System:**

Bright LED lighting system.

### **Diagnostic Display:**

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



# LIGCHINE

## SCREEDSAVER PRO PLUS



Engine Size	Yanmar 3TNV88C-DSA 36.9 HP (27.5 kW) Diesel
Machine Size (retracted)	W-5' 10" (1.8 m) x L-16' (4.9 m) x H-8' (2.4 m)
Machine Weight	9,180 lbs. (4,164 kg) + screed head
Steering System (hydraulic)	2 Wheel
Drive System (hydraulic)	2-Wheel Proportional Drive
Parallel to the Pour Driving Capable	Yes – 360 degree drive frames (zero turn capable)
Zero-Turn Drive System	Yes
Machine Operation Control	Wireless Remote Control
Coverage per screed pass (no overlap)	200 sq. ft. (18.6 m <sup>2</sup> )
Standard Screed Head Width	11' (3.4 m) High Performance
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
Trailer Mode Length	23' (7.0 m)
Grade/Slope/Dual Slope control (standard)	Topcon LS-B200 Receivers (included)
Contoured Slope 3D Capable (optional)	Topcon 3D LPS Robotic



# LIGCHINE

## E-Z PLACER



## E-Z PLACER

The LIGCHINE® E-Z PLACER is a self-propelled concrete placer and line moving system all in a single, portable unit. This all-in-one machine provides industry-leading reach and maneuverability thanks to the 27' of 4" delivery tube, 360° swivel on the main and tip boom sections, and the agile steering system. With a 60" wide footprint and a weight of 4,000 lbs., the LIGCHINE E-Z PLACER provides a compact and versatile package that can efficiently be utilized in most job site applications.

**Key Features:** The E-Z PLACER features a two-section 27' placer boom with 360° coverage, all wheel drive, all in a compact, lightweight 60" wide footprint.

**Engine:** 13 HP Honda GX390, gasoline.

**Control:** Fully remote, single operator. Plus a full set of machine-mounted manual backup controls.

**Drive & Steering:** All-Wheel Drive with agile All-Wheel Steering.

**Delivery Line:** 4" or 5" connection at rear or side.

**Compact Size:** 60" width fits through most commercial doorways.

**Transport:** Easy-to-transport with a 3/4 ton pickup truck and trailer.



# LIGCHINE

## E-Z PLACER



# LIGCHINE

# E-Z PLACER

Engine Size	13 HP Honda GX390, gasoline
Machine Size	W-5' (1.5 m) x L-36' 8" (11.1 m) x H-5' 6" (1.8 m)
Machine Weight	4,000 lbs. (1814kg)
Steering System (hydraulic)	4 Wheel Independent Steering
Drive System (hydraulic)	All Wheel Drive
Overall Placer Boom Reach	27' (8.2m) 360°
Main Boom	16' (5.3 m) Left-Right 360° Swivel
Tip Boom	11' (3.7 m) Continuous 360° Swivel
Machine Operation Control	100% Wireless Remote Control + Manual Backup
Single Operator Control	Yes
Delivery Line	4" (10.2 cm) or 5" (12.7 cm)
Line Pump Connection	4" Rear or Side
Transport with Pickup Truck and Trailer	Yes
Machine Length When in Trailer Mode	27' (8.2 m)



# EZ GRADER



Introducing the ALL-NEW E-Z Grader attachment – effortlessly level your job site using equipment you already have! Achieve precise grading with laser accuracy with the E-Z Grader. It's fully compatible with all leading skid steer brands.

The E-Z Grader features a built-in roller compactor, retractable ripper shanks, and deployable wings for enhanced performance.

The E-Z Grader is a multifaceted attachment designed to deliver precise grading across a wide range of projects. This innovative tool is perfect for various applications, including warehouses, parking lots, athletic fields, and much more!

- ***Universal Skid Steer Mount***
- ***Adjustable Ripper Shanks***
- ***2D Laser Receivers Included***
- ***Removable Laser Poles***
- ***High Flow and Standard Flow Compatible (up to 60 Gallons a Minute)***
- ***3D Ready for Contoured Slopes***



# EZ GRADER



Machine Weight	2450 lbs. (1111 kg)
Overall Height	3 ft 9 in (1.1 m)
Width (Box Mode)	7 ft 9 in (2.4 m)
Width (Wing Mode)	8 ft 8 in (2.6 m)
Length (Back to Front of Blade)	4 ft 4 in (1.3 m)
Compaction Rollers (Double 8" undriven 69" Wide) Standard	Yes
Removable Laser Poles	Yes
Adjustable Ripper Feature (6 Shank Hydraulic Driven) Standard	Yes
3D Ready (Optional)	Yes
Grade/Slope/Dual Slope Control (Standard)	2D Laser Receivers (Included)
High Flow and Standard Flow Compatible (Up to 60 Gallons)	Yes





## 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.



## CONTACT US TODAY!

1-812-903-4500  
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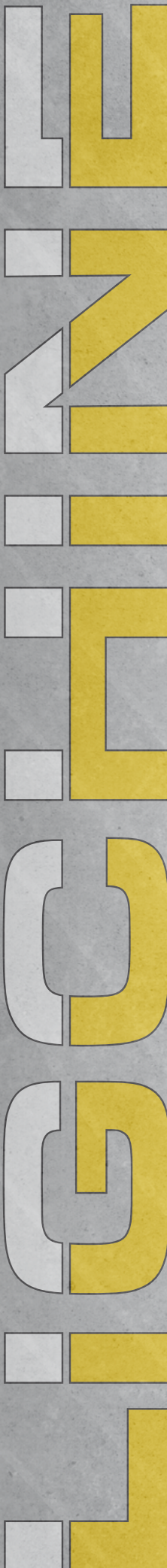
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**SCREEDSAVER  
MAX PLUS E**



**SCREEDSAVER  
LS120**



**E-Z PLACER**



**E-Z GRADER**