

Solar Piling

Drive Results by Automating Pile Installs



All Gain. No Pain.

Piling is demanding, and traditional means and methods are being pushed to their limits. Built engineers have spent thousands of hours developing an advanced autonomous solution that can rise to meet the challenges of utility-scale solar.



The Bold Standard: The RPD 35

Don't compromise on your tools. The RPD 35 is a fully autonomous robotic pile driver that combines four steps — surveying, pile distribution, pile driving, and data collection — into a single robot. Take advantage of the superior production and efficiency gains that only a robot can deliver, and outshine the competition.

40,000 lbs

Hammer impulse force

224 piles

Maximum pile
capacity

10%

Maximum grade



A Powerful Sidekick: The RPS 25

Every RPD 35 pairs with an RPS 25. The robotic pile stabilizer ensures driven piles exceed the most stringent tracker tolerances and produce consistently placed piles every time: accurate z-heights, perfect plumbness, and unrotated piles.

Up to 17

mm

Pile-to-pile height
variation

Up to 30

mm

Pile z-height tolerance

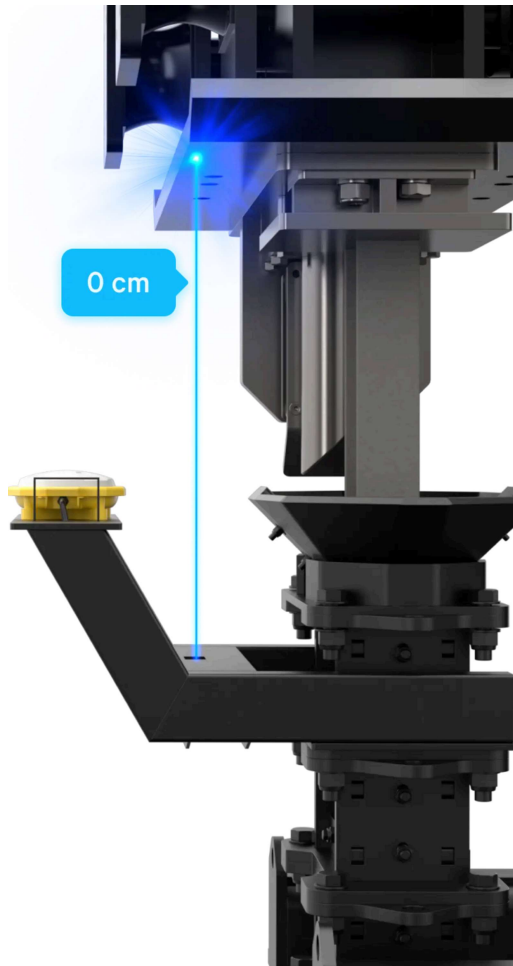
W6×7 to

W8×28

Cross section
compatibility



Advanced Robotics







Safer Results. Safer Work.



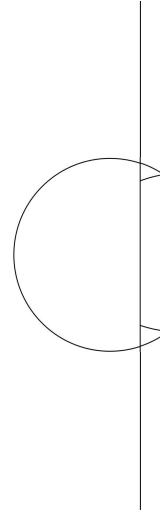
Tight Tolerances



Lower Costs



Maximum Uptime



Pile on the Features

RPD 35 Specifications

Exosystem™

Processing Power	64-Core Intel® Xeon®
Vision System	360° camera coverage
Machine Learning	1,000,000+ data points

Graphics	Dual NVIDIA GPUs
Precision & Positioning	Sub-centimeter RTK GPS
Safety	Geofence, AI-powered smart cameras, wireless emergency stop, and Guardian™ remote monitoring
Durability	Liquid-cooled computer. Shock and vibration resistance. Water and dust protection.

Hammer

Driving Action	Vibratory
OEM Model	Ho-Pac 4000
Operating Frequency	2,100 revolutions per minute
Impulse Force	40,000 pounds
Operating Pressure	2,200 pounds per square inch
Weight	~8,000 pounds

Sleds

Payload	22,000 pounds
Pile Cross-Sections Supported	W6×7 to W8×28

Maximum Supported Pile Flange Width	6.5 inches
Length of Machine with Unloaded Sleds	~45 feet
Width of Machine with Unloaded Sleds	~12 feet

Comparison to Manual Operation

	RPD 35	Manual Operation
Productivity		
Cycle Time	1–3 minutes	2–5 minutes
Quality Guarantee	Consistent pile driving	Rework may be required
Task Requirements		
Survey	Autonomous	Manual
Pile Distribution	Autonomous	Manual
Pile Driving	Autonomous	Manual
As-Builts	Autonomous	Manual

Maximum Supported Pile Length	19 feet	20 feet
Maximum Pile Capacity	224 piles	1 pile
Operating Ground-Bearing Pressure	~11 pounds per square inch	~8 pounds per square inch

Data & Technology

Average Cycle Time Tracking

Pile Driving Capabilities	Remote control included without additional software or configuration	Remote control requires specialized equipment and configuration
Remote Control Operating Range	Limitless with 4G and 5G cellular and Starlink	100–300 feet

Real-Time Telematics

Pile Driving Capabilities	Autonomous and remote control	Manual and remote control
Hammer Type	Vibratory	Impact

RTK GPS

Auto-Plumb

Virtual Map of Jobsite

**Automatic Cloud
Backups**

Safety

Bystander Awareness

**Eight-Layer Safety
System**

**24/7 Remote
Monitoring**

**GPS-Designated
Geofence Work Area**

**Wireless Emergency
Stops**