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# RPD 35 & RPS 25 AI Piling Solution

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## Technical Specifications



# RPD 35

## Robotic Pile Driver

**Get more done.** The RPD 35 is a fully autonomous robotic pile driver that combines four steps — surveying, pile distribution, pile driving, and data collection — into an AI-powered technology platform.



### Machine

|                                 |                 |
|---------------------------------|-----------------|
| OEM Model                       | Caterpillar 335 |
| Operating Weight (Fully Loaded) | 144,000 lbs     |
| Ground Pressure                 | 11 psi          |

### Hammer

|                     |                    |
|---------------------|--------------------|
| OEM Model           | Rammer Ho-Pac 4000 |
| Driving Action      | Vibratory          |
| Impulse Force       | 40,000 lbs         |
| Operating Frequency | 2,100 rpm          |
| Maximum Pile Weight | 1,000 lbs          |

### Sleds

|                               |                 |
|-------------------------------|-----------------|
| Pile Lengths Supported        | 9–20 ft         |
| Pile Cross Sections Supported | W6, W8, and W10 |
| Pile Capacity                 | Up to 224 piles |
| Maximum Payload               | 40,000 lbs      |
| Pile Mix Supported            | 20+ pile types  |

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# RPS 25

## Robotic Pile Stabilizer

**Drive with precision.** The RPS 25 locates and stabilizes piles as they are being driven, ensuring each pile meets the strict tolerances required for today's single-axis tracker assemblies.



### Machine

|                  |                 |
|------------------|-----------------|
| OEM Model        | Caterpillar 325 |
| Operating Weight | 65,000 lbs      |
| Ground Pressure  | 8 psi           |

### Pile Stabilizer

|                                  |                          |
|----------------------------------|--------------------------|
| Localization Technology          | RTK GPS and LIDAR fusion |
| Pile Types Supported             | W6, W8, and W10          |
| Pile Twist Accuracy <sup>1</sup> | ±1°                      |
| Plumbness Accuracy <sup>1</sup>  | ±1°                      |
| Reveal Window                    | 0-10 ft                  |



## Safety Features

**A blueprint for safety.** Every robot from Built is powered by an 8-Layer Safety System that includes safety barriers, emergency stops, AI-powered collision avoidance, and more.

- 1 **Geofence** Isolates robot from workers
- 2 **Safety Barrier** Keeps people out of the robot's area
- 3 **Warnings Lights & Sounds** Indicates robot is active
- 4 **Warnings Signage** Provides visual and written warnings
- 5 **Hardwired E-Stops** Instantly shuts off engine
- 6 **Wireless E-Stop** Instantly disables autonomy
- 7 **AI-Powered Smart Cameras** Avoids collision with people
- 8 **Guardian™** Provides real-time monitoring

## Productivity Features

**More than a robot.** Maximize ROI with a suite of advanced features designed for utility-scale solar construction, including cloud-based dashboards, API integrations, and on-site technical support.

- ✓ **Automatic as-builts with custom ERP integration**
- ✓ **24-hour operation**
- ✓ **Real-time telematics**
- ✓ **Everest™ cloud dashboard**
- ✓ **Live video feeds with 360° coverage**
- ✓ **Starlink satellite connectivity**
- ✓ **High-gain bonded 4G/5G cellular**
- ✓ **Refusal detection**
- ✓ **AES-256 data encryption**

Product imagery and data presented are for informational purposes and are not a guarantee of service or product. Described technologies are covered by United States and international patents, which can be found at [builtrobotics.com/patents](https://builtrobotics.com/patents). <sup>1</sup>Represents typical performance (1 standard deviation).