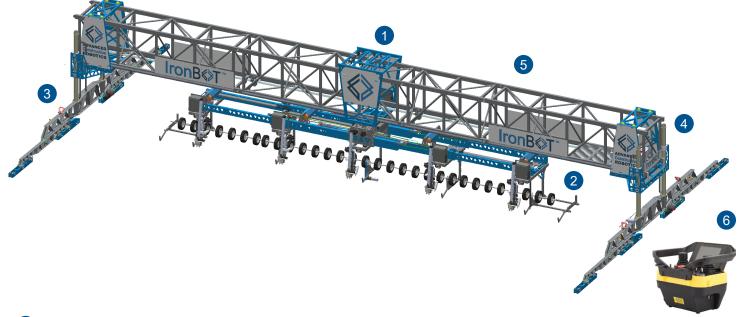# Product Specifications

IronBOT®
REBAR PLACING ROBOT

① TRAM & SLEW BEARING

Provides lateral and rotational adjustment to adapt to varying job site requirements.

Moves Placement Boom Along Track System
Slew Bearing Provides Rotational Movement
No Calibration, Plan Input, or Pre-Programming Required

② PLACEMENT BOOM

Lifts and singulates the rebar bundle for placement. Places longitudinal and transverse bar.

Payload Capacity:	5,000LBS (2,267.96KG)
Rebar Length (Min/Max):	9-60FT (2.74-18.29M)
Bar Sizes:	#3 - #10
Minimum Bar Chair Height:	1.0IN (2.54CM)
Maximum Bar Release Height:	6IN (15.24CM)
Bar Placement Spacing (Min/Max):	3-18IN (7.6-45.7CM)
Maximum Rebar Bundle Diameter:	12IN (30.48CM)

③ LEGS AND BOGIES

Adjusts legs to accommodate varying widths, heights, cross-slopes, and skews. Bogies ride on existing or supplied rails.

Travel Speed:	0.75FT/SEC (.23M/SEC)
Wheelbase (Outside Bogie):	36.5FT (11.13M)
Minimum Wheel Spacing:	48IN (121.92CM)
Maximum Wheel Loading:	2,950LBS per Wheel
Minimum Clearance to Deck:	21.5IN (54.61CM)
Maximum Rail to Mat Distance:	53IN (134.62CM)
Maximum Cross-Slope:	4%
Maximum Longitudinal Grade:	8%
Maximum Plan View Skew:	0-90DEG

④ POWER

Single Cummins Onan Generator that continually operates for 50+ hours without refueling.

Power:	7,000 Watts
Generator Fuel Tank Capacity:	53GAL (200.63L)
Voltage, Amps:	Split Phase 240 Volts, 30 Amps
Fuel Consumption (Full Load):	0.95GPH (3.6L/HR)
Generator Fuel Grade:	87 Octane (Unleaded)

⑤ GANTRY SYSTEM

Durable, lightweight, and easily transportable. Load requirements are less than finishing machines. Easily assembled onsite in 4-8 hours.

IronBOT Rail Width (Min/Max):	27-117FT (8.23-35.66M)
Truss Width x Height:	52 x 66.8IN (132.08 x 169.67CM)
Weight Unloaded (Min/Max):	21K-31K LBS (10K-14K KG)
Height (Min/Max):	11-15FT (3.43-4.77M)

⑥ TRANSMITTER "BELLY BOX"

Mobile robot interface unit allows communication between robot and supervisor.

Safety Controls (E-Stop)
Operating Mode Selection (Service, Placement, Manual)
Operational Inputs (Bar Spacing, Direction to Start)
Operational Reporting Information
Operational Overrides (Skip, Continue, Replace)