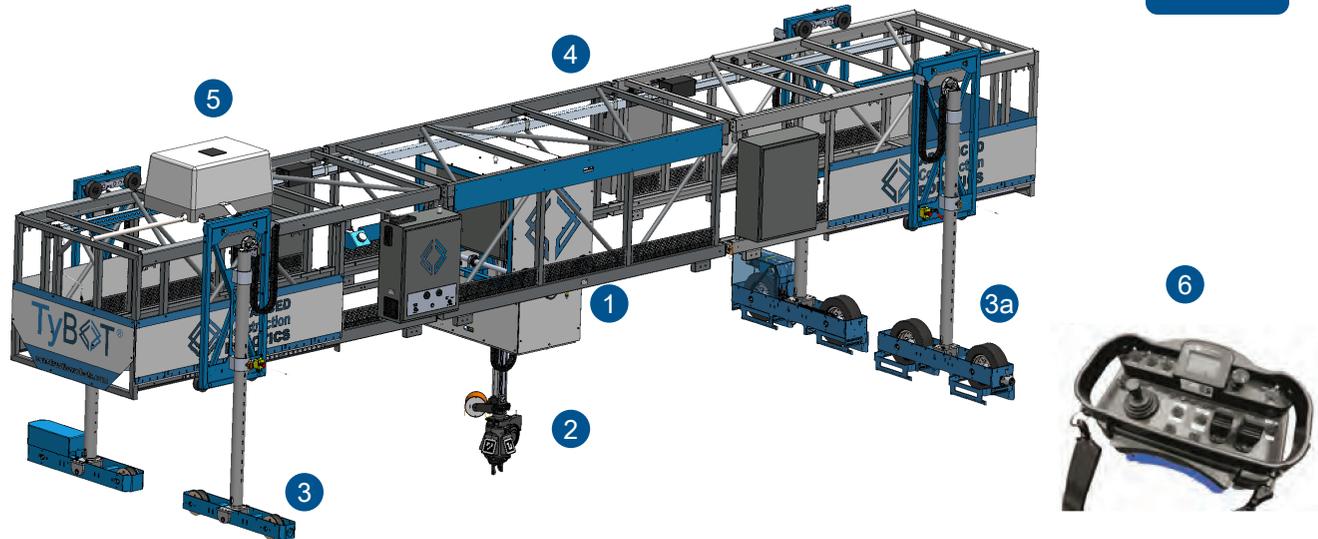


Product Specifications



1 TRAM

Houses the core components of TyBOT's see, think, and act capabilities.

Dual Camera System Self-Identifies Rebar Intersections
Moves Along a Fully Integrated Track System
Autonomously Positions the Tie Module
No Calibration, Plan Input, or Pre-Programming Required
Configurable Safety Zones to Designate Tram Work Area

2 TIE MODULE

Autonomously ties rebar intersections.

Tie Wire Spool Capacity:	15LBS (6.8KG)
Tie Wire:	16.5 AWG Poly Coated Single Snap
Minimum Bar Grid Spacing:	3IN x 3IN (7.62CM x 7.62CM)
Bar Intersection (Min/Max):	#4 x #4 - #8 x #9
Minimum Bar Chair Height:	1.0IN (2.54CM)

3 LEGS AND BOGIES

Adjustable gantry legs accommodate varying widths, heights, cross-slopes, grades, and skews. Bogies ride on edge form, existing or supplied rails.

Travel Speed:	0.4FT/SEC (0.12M/SEC)
Screed Wheelbase (Outside Bogie):	7.5FT (2.28M)
Maximum Wheel Loading:	960LBS per Wheel
Maximum Longitudinal Grade:	8%
Maximum Plan View Skew:	0-50DEG
Inboard Clearance from Rail Center Line:	8IN (20.32CM)

3a EDGE FORM BOGIES

Edge Form Wheelbase (Outside Bogie):	8FT (2.44M)
Edge Form Width (Min/Max):	3.5-7.5IN (8.89-19.05CM)
Maximum Running Surface Protrusion:	0.63IN (1.59CM)

4 GANTRY SYSTEM

Durable, lightweight, and easily transportable, load requirements are less than finishing machines. Onsite and working within 1-4 hours.

TyBOT Rail Width (Min/Max)*:	9.5-100FT (2.9-30M)
Minimum TyBOT Width:	21FT (6.4M)
Truss Width x Height:	4.5 x 3.67FT (1.37 x 1.12M)
Weight (Min/Max):	4K-8.5K LBS (1.8K-3.9K KG)
Height (Min/Max):	7.8-10FT (2.4-3.1M)

*Contact ACR for wider applications

5 POWER

Single Cummins Onan generator that continuously operates for 12+ hours without refueling. Connecting TyBOT directly to shore power is also available.

Power:	5500 Watts
Generator Fuel Tank Capacity:	13GAL (49.21L)
Voltage, Amps:	Split Phase 240 Volts, 22.9 Amps
Fuel Consumption (Full Load):	0.95GPH (3.6L/HR)
Generator Fuel Grade:	87 Octane (Unleaded)

6 TRANSMITTER "BELLY BOX"

Mobile robot interface unit allows communication between robot and supervisor. Operates at 50% or 100% coverage.

Initiates and Manages Self-Tying (Not Remote Controlled)
Safety Controls (E-Stop, Advance to Next Section Prompt)
Operating Mode Selection (Paused, Auto, Manual)
Operational Inputs (Width, Radius, Direction to Start)
Operational Reporting Information
Operational Overrides (Skip, Continue, Retie)