TyBOT Specifications

Rebar Applications

Horizontal Cast-In Place (with the exception of Truss Shaped Rebar)

Epoxy Coated, Black Bar, Galvanized, Stainless, Fiberglass

Rebar Tying

Tie Wire Type:	Plastic Coating 16.5 AWG Black Annealed 16 AWG
Tie Wire Spool Capacity:	15 LBS (6.8 KG), Estimated 3,000 Ties
Tie Type/Pattern Modes:	Single Snap 100% (every intersection), 50% (alternate intersections), or 33% (every third intersection)
Active Tie Rate:	MIN: 900 Ties per Hour OBSERVED: 1,200+ Ties per Hour
Tie Tension Adjustment:	8 Settings

Operational Data

Startup Time:	< 2 MIN
Operating Temperature (Min/Max):	32 - 104 F (0 - 40 C)
Bar Grid Spacing:	MIN: 3.0 IN x 3.0 IN (7.62 CM x 7.6 CM) MAX: 12 IN x 12 IN (30.5 CM x 30.5 CM)
Bar Intersection Sizes:	MIN: #4 with #4 (1.000 IN / 2.5 CM) = #8 combined bar size MAX: #8 with #9 (2.125 IN / 5.4 CM) = #17 combined bar size
Bar Chair Height:	MIN BOTTOM MAT: 1.0 IN (2.5 CM) MIN TOP MAT: 1.5 IN (3.8 CM) MAX BOTH MATS: 4 IN (10.2 CM)
Crown Reach (Min/Max):	0 - 17 IN (0 – 43.2 CM) at 117 FT (35.7 M)
Screed Rail Height from Bottom Mat:	MIN: 12 IN (30.548 CM) MAX: 54 IN (1.4 M)
Cross Slope Grade:	MAX: 6% (<70 FT (21.3 M) Screed Rail Width) 4% (>70 FT (21.3 M) Screed Rail Width)
Max Break in Cross Slope:	4%
Max Grade Differential:	1% up to 40FT (12.2 M) Screed Rail Width 2% above 40FT (12.2 M) Screed Rail Width
TyBOT Skew Angle:	MAX: 30 DEGREES

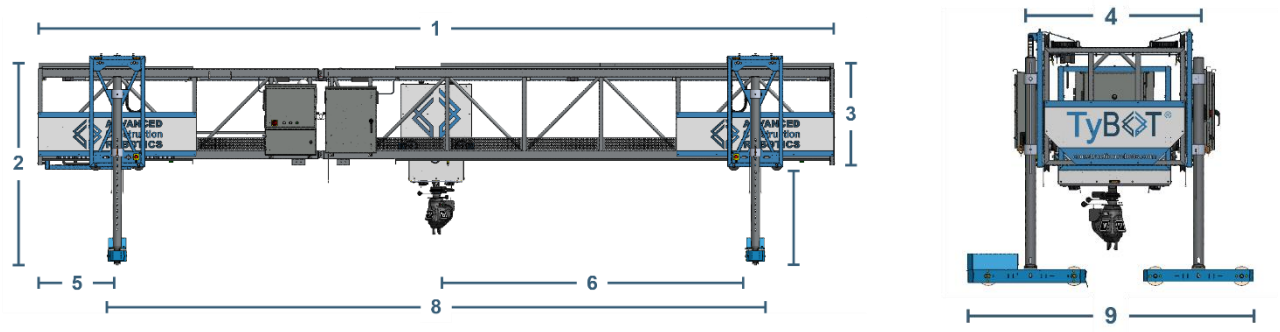
Travel Path

Longitudinal Travel Speed:	MAX: 0.66 FT/Sec (0.5 MPH) 0.2 M/Sec (0.7 KPH)
Screed Rail to Rebar Mat (Min/Max):	0 - 42 IN (0 – 1.07 M)
Rail Radius:	MIN: 275 FT (83.82 M)
Screed Rail Type:	2 IN (5.1 CM) Nominal Pipe (Round or Square) Edge Form Bogies (Accessory Available): 2x4 to 2x8 Dimensional Lumber
Longitudinal Grade:	MAX: 6% (<70 FT (21.35 M) Screed Rail Width) 4% (>70 FT (21.35 M) Screed Rail Width)

Power

Power:	7,000 Watts
Voltage:	240 VAC
Fuel Consumption (Full Load):	0.95 GPH (3.6 L/HR)

Unit Measurements



Pictured: Base Unit

1. Unit Width (Truss end-to-end width):	Base: 31.1 FT (9.5 M)* Standard: 67.2 FT (20.5 M) Full: 126.2 FT (38.5 M) *Width will vary based on configuration
2. Shipping Height (w/o Tie Module):	MIN: 91 IN (2.3 M) MAX: 104 IN (2.6 M)
3. Truss Height:	1M-3M Middle: 45 IN (1.1 M) 6M Middle: 66 IN (1.7 M)
4. Truss Depth:	54 IN (1.4 M)
5. Min Overhang:	18 IN (45.7 CM)
6. TyBOT Work Area:	18 IN (45.7 CM) from Screed Rail Center
7. Leg Height Adjustment:	MAX: 42 IN (1.1 M) using 3 IN (7.6 CM) Increments
8. Screed Rail Width:	MIN: 10 FT (3 M) MAX: 117 FT (36 M)
9. Outside Bogie Wheel Base:	110 IN (2.8 M)
Inboard Bogie Clearance from Rail Center:	MIN: 4.5 IN (11.43 CM) BILATERAL
Tie Module Traversal Clearance:	MIN: 3 IN (7.62 CM)
Unit Weight:	Base: 4,110 LBS (1,864 KG)
Bogie Wheel Load:	MAX: 1,500 LBS (680 KG) per Wheel at 33 IN (83.8 CM) Spacing