



Boom X Tender® Series

The Boom X Tender tips redefine boomless spray technology by focusing on uniformity of spray pattern and accuracy of product delivered to the target. The most important innovation is reducing the likelihood of off-target trespass, which has been associated with boomless spray tips in some applications. The XT series has the ability to reduce fine droplets and match the performance characteristic of standard spray tips. The Hypro Boom X Tender combines the characteristics of off-center spray tips with the uniformity of pattern of flat fan spray tips. The large droplet produced by the patented design offers users a simple and consistent spray tip. All wearable parts are replaceable on the entire XT series.

Installation and Operating Instructions:

Size the lines and pump to deliver the gallons per minute with a rating between 30 and 60 psi.

A coarse in-line strainer is recommended after the pump to help keep lines and spray tips free from large particles that might block the flow-regulating insert or interfere with the pattern. Tip strainers are usually not necessary.

Pattern swath can be adjusted to fit your application by angling the spray tip up or down from horizontal. This will increase or decrease the spray width and change the rated gallons per acre applied. If you change the spray tip from parallel to the terrain, recalculate the gallons per acre with the following formula:

$$\text{GPA} = \frac{495 \times \text{Tip GPM}}{\text{MPH} \times \text{Spray Width (feet)}} \text{ or Gal/Lane Mile} = \frac{41.25 \times \text{GPM}_{\text{XT}}}{\text{MPH}}$$

Completely boomless broadcast application: Spray tips should be mounted so that the inboard spray pattern from each tip overlaps by 1/4 the spray height (12" when 48" high), to prevent streaking in the center.

Multiple pass application: The second pass should be sprayed approximately 12" into the previous swath width. In gusty winds over 10 mph, pattern shifting may occur. Continuing the spraying operation may not be advisable. If the operator cannot predict the spray pattern's deposition on the target, the spraying operation should be terminated.

Fence row application: The operator needs to use the XT tip that matches the GPM of the equivalent number of spray tips on the boom based on effective swath width.

The swath of the XT tip can be adjusted according to the following formula to closely match the boom application rate:

$$\text{SW}_{\text{XT (FT)}} = \frac{W_{\text{Tips (Inches)}} \times \text{GPM}_{\text{XT}}}{\text{GPM}_{\text{Tips}} \times 12}$$

Part	PSI	GPM	Application Rate (GPA)								US Gal/1000 sq. ft.					Swath Ft @ 40psi
			4	5	6	8	10	2	3	4	5					
XT1010	30	0.9	7.0	5.6	4.6	3.5	2.8	0.32	0.21	0.16	0.13	16				
	40	1.0	7.7	6.2	5.2	3.9	3.1	0.36	0.24	0.18	0.14					
	50	1.1	8.5	6.8	5.7	4.3	3.4	0.39	0.26	0.20	0.16					
	60	1.2	9.3	7.4	6.2	4.6	3.7	0.43	0.28	0.21	0.17					
	30	1.7	12.4	9.9	8.3	6.2	5.0	0.57	0.38	0.28	0.23		17			
40	2.0	14.6	11.6	9.7	7.3	5.8	0.67	0.45	0.33	0.27						
50	2.2	16.0	12.8	10.7	8.0	6.4	0.74	0.49	0.37	0.29						
60	2.4	17.5	14.0	11.6	8.7	7.0	0.80	0.53	0.40	0.32						
30	2.1	14.4	11.6	9.6	7.2	5.8	0.66	0.44	0.33	0.27	18					
40	2.4	16.5	13.2	11.0	8.3	6.6	0.76	0.51	0.38	0.30						
50	2.7	18.6	14.9	12.4	9.3	7.4	0.85	0.57	0.43	0.34						
60	2.9	19.9	16.0	13.3	10.0	8.0	0.92	0.61	0.46	0.37						
30	3.7	25	20	17.0	12.7	10.2	1.2	0.78	0.58	0.47		18				
40	4.3	30	24	19.7	14.8	11.8	1.4	0.90	0.68	0.54						
50	4.8	33	26	22	16.5	13.2	1.5	1.0	0.76	0.61						
60	5.3	36	29	24	18.2	14.6	1.7	1.1	0.84	0.67						
30	3.7	29	23	19.1	14.3	11.4	1.3	0.88	0.66	0.53	16					
40	4.3	33	27	22	16.6	13.3	1.5	1.0	0.76	0.61						
50	4.8	37	30	25	18.6	14.9	1.7	1.1	0.85	0.68						
60	5.3	41	33	27	20	16.4	1.9	1.3	0.94	0.75						
30	6.9	50	40	33	25	20	2.3	1.5	1.2	0.92		17				
40	8.0	58	47	39	29	23	2.7	1.8	1.3	1.1						
50	8.9	65	52	43	32	26	3.0	2.0	1.5	1.2						
60	9.8	71	57	48	36	29	3.3	2.2	1.6	1.3						
30	6.9	57	46	38	28	23	2.6	1.7	1.3	1.0	15					
40	8.0	66	53	44	33	26	3.0	2.0	1.5	1.2						
50	8.9	73	59	49	37	29	3.4	2.2	1.7	1.3						
60	9.8	81	65	54	40	32	3.7	2.5	1.9	1.5						
30	14.5	112	90	75	56	45	5.1	3.4	2.6	2.1		16				
40	16.7	129	103	86	65	52	5.9	4.0	3.0	2.4						
50	18.7	145	116	96	72	58	6.6	4.4	3.3	2.7						
60	20.5	159	127	106	79	63	7.3	4.9	3.6	2.9						
30	18.6	115	92	77	58	46	5.3	3.5	2.6	2.1	20					
40	21.5	133	106	89	67	53	6.1	4.1	3.1	2.4						
50	24.0	149	119	99	74	59	6.8	4.5	3.4	2.7						
60	26.3	163	130	108	81	65	7.5	5.0	3.7	3.0						

Note: Application rates are based on overall swath widths listed at 48" height.
Recalculate your application rate if settings provide a different swath.

Standard Pattern



Right-of-Way Pattern

