

REPEATABLE, UNIFORM SPRAY COVERAGE FOR PRECISION SPRAY APPLICATIONS



FEATURES AND BENEFITS

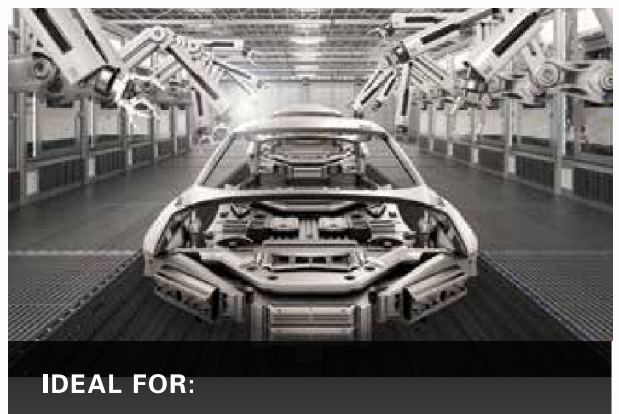
- Best coverage tolerances in TC tip line
- Tapered edge spray pattern provides even coverage when sprays overlap
- Flow channel design minimizes heavy spray pattern edges
- Tips have flats to ensure accurate spray pattern alignment every time
- Tip orifice insert is recessed in a stainless steel tip body to protect against damage
- Erosion-resistant tungsten carbide orifice insert provides longer wear life than standard stainless steel tips

SPECIFICATIONS:

Maximum pressure: 4000 psi (276 bar)

Spray pattern: Flat spray or solid stream

Materials: Stainless steel body with tungsten carbide orifice



IDEAL FOR:

- Robotic equipment in precise, repetitive paint spraying applications
- Sealant/coating spraying
- Operations where overspray is undesirable

ORDERING INFORMATION

ROBOTIC TC TIPS – ROBTC



Example



REDUCED BUILD-UP & CLOGGING EXTENDS PRODUCTION TIME BETWEEN MAINTENANCE



FEATURES AND BENEFITS

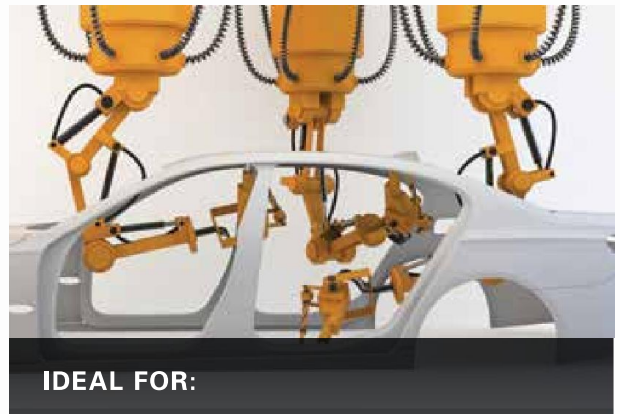
- Special tip design guides spray solution away from the orifice and reduces clogging caused by caking and build-up
- Tips have flats to ensure accurate spray pattern alignment every time
- Designed for use in applications where the spray solution tends to dry quickly; shorter tip holder than ROBTC tips

SPECIFICATIONS:

Maximum pressure: 4000 psi (276 bar)

Spray pattern: Flat spray or solid stream

Materials: Stainless steel body with tungsten carbide orifice



IDEAL FOR:

- Robotic equipment in precise, repetitive paint spraying applications
- Sealant/coating spraying
- Operations where overspray is undesirable

ORDERING INFORMATION

ROBOTIC TC TIPS – CDROBTC



Example



ROBOTIC TC TIPS – ROBTC AND CDROBTC

PERFORMANCE DATA: ROBOTIC/CDROBTC TC TIPS

Spray Angle at 40 psi	Capacity Size	Equiv. Orifice Dia.* (in.)	Capacity (gallons per minute)***								Approx.** Spray Pattern Width (in.) at 1 ft. distance
			500 psi	1000 psi	1500 psi	2000 psi	2500 psi	3000 psi	3500 psi	4000 psi	
110°	0067	.021	.24	.33	.41	.47	.53	.58	.63	.67	21 to 22
	0080	.023	.28	.40	.49	.57	.63	.69	.75	.80	21-3/4 to 22-3/4
	01	.026	.35	.50	.61	.72	.79	.87	.94	1.0	23-1/2 to 24-1/2
	015	.031	.53	.75	.91	1.1	1.2	1.3	1.4	1.5	25 to 26
	02	.036	.71	1.0	1.2	1.4	1.6	1.7	1.9	2.0	26 to 27
95°	0080	.023	.28	.40	.49	.57	.63	.69	.75	.80	19-1/2 to 20-1/2
	02	.036	.71	1.0	1.2	1.4	1.6	1.7	1.9	2.0	21-1/2 to 22-1/2
80°	0044	.017	.16	.22	.27	.31	.35	.38	.41	.44	14-1/2 to 15-1/2
	0050	.018	.18	.25	.30	.36	.40	.43	.47	.50	15 to 16
	0055	.019	.19	.28	.34	.39	.43	.48	.51	.55	14-1/2 to 15-1/2
	0067	.021	.24	.33	.41	.47	.53	.58	.63	.67	17 to 18
	0080	.023	.28	.40	.49	.57	.63	.69	.75	.80	17-1/4 to 18-1/4
	01	.026	.35	.50	.61	.72	.79	.87	.94	1.0	18-3/4 to 19-3/4
	015	.031	.53	.75	.91	1.1	1.2	1.3	1.4	1.5	18-1/2 to 19-1/2
	02	.036	.71	1.0	1.2	1.4	1.6	1.7	1.9	2.0	18-1/2 to 19-1/2
	03	.043	1.1	1.5	1.8	2.1	2.4	2.6	2.8	3.0	18-1/2 to 19-1/2
65°	0044	.017	.16	.22	.27	.31	.35	.38	.41	.44	12-1/2 to 13-1/2
	0050	.018	.18	.25	.30	.36	.40	.43	.47	.50	12-1/2 to 13-1/2
	0055	.019	.19	.28	.34	.39	.43	.48	.51	.55	12-1/2 to 13-1/2
	0067	.021	.24	.33	.41	.47	.53	.58	.63	.67	14-1/2 to 15-1/2
	0080	.023	.28	.40	.49	.57	.63	.69	.75	.80	14-1/2 to 15-1/2
	01	.026	.35	.50	.61	.72	.79	.87	.94	1.0	16-1/4 to 17-1/4
	015	.031	.53	.75	.91	1.1	1.2	1.3	1.4	1.5	15-1/2 to 16-1/2
	02	.036	.71	1.0	1.2	1.4	1.6	1.7	1.9	2.0	14-3/4 to 15-3/4
	03	.043	1.1	1.5	1.8	2.1	2.4	2.6	2.8	3.0	15-1/2 to 16-1/2
	50°	0044	.017	.16	.22	.27	.31	.35	.38	.41	.44
0050		.018	.18	.25	.30	.36	.40	.43	.47	.50	10-1/2 to 11-1/2
0055		.019	.19	.28	.34	.39	.43	.48	.51	.55	10-1/2 to 11-1/2
0067		.021	.24	.33	.41	.47	.53	.58	.63	.67	12-1/2 to 13-1/2
0080		.023	.28	.40	.49	.57	.63	.69	.75	.80	12-1/2 to 13-1/2
01		.026	.35	.50	.61	.72	.79	.87	.94	1.0	13-1/2 to 14-1/2
015		.031	.53	.75	.91	1.1	1.2	1.3	1.4	1.5	13-1/2 to 14-1/2
02		.036	.71	1.0	1.2	1.4	1.6	1.7	1.9	2.0	13-1/2 to 14-1/2
03		.043	1.1	1.5	1.8	2.1	2.4	2.6	2.8	3.0	13-1/2 to 14-1/2
40°	010	.078	3.5	5.0	6.1	7.1	7.9	8.7	9.4	10.0	13-1/2 to 14-1/2
	0011	.009	.039	.055	.067	.078	.087	.095	.10	.11	6-1/2 to 7-1/2
	0017	.011	.06	.08	.10	.12	.13	.15	.16	.17	6-1/2 to 7-1/2
	0025	.013	.09	.12	.15	.18	.20	.22	.23	.25	7 to 8
	0044	.017	.16	.22	.27	.31	.35	.38	.41	.44	8-1/2 to 9-1/2
	0050	.018	.18	.25	.30	.36	.40	.43	.47	.50	8-1/2 to 9-1/2
	0055	.019	.19	.28	.34	.39	.43	.48	.51	.55	8-1/2 to 9-1/2
	0067	.021	.24	.33	.41	.47	.53	.58	.63	.67	10-1/2 to 11-1/2
	0080	.023	.28	.40	.49	.57	.63	.69	.75	.80	10-1/2 to 11-1/2
	01	.026	.35	.50	.61	.72	.79	.87	.94	1.0	11-1/2 to 12-1/2
015	.031	.53	.75	.91	1.1	1.2	1.3	1.4	1.5	11-1/2 to 12-1/2	
02	.036	.71	1.0	1.2	1.4	1.6	1.7	1.9	2.0	11-1/2 to 12-1/2	

* For solid stream tips, the actual orifice diameter is listed.

** Spray pattern width is based on liquid with viscosity of 20 seconds, #4 Zahn Cup spraying at 1600 psi (110 bar).

*** Tabulation is based on spraying water at temperature at 70°F (21°C).



PERFORMANCE DATA: ROBOTIC/CDROBTC TC TIPS

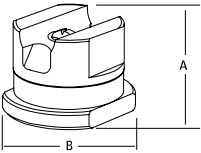
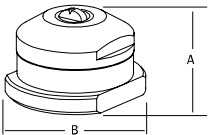
Spray Angle at 40 psi	Capacity Size	Equiv. Orifice Dia.* (in.)	Capacity (gallons per minute)***								Approx.** Spray Pattern Width (in.) at 1 ft. distance
			500 psi	1000 psi	1500 psi	2000 psi	2500 psi	3000 psi	3500 psi	4000 psi	
25°	0017	.011	.06	.08	.10	.12	.13	.15	.16	.17	5-1/2 to 6-1/2
	0039	.016	.14	.20	.24	.28	.31	.34	.36	.39	6-1/2 to 7-1/2
	0050	.018	.18	.25	.30	.36	.40	.43	.47	.50	7-1/2 to 8-1/2
	0055	.019	.19	.28	.34	.39	.43	.48	.51	.55	7-1/2 to 8-1/2
	0067	.021	.24	.33	.41	.47	.53	.58	.63	.67	8-1/2 to 9-1/2
	0080	.023	.28	.40	.49	.57	.63	.69	.75	.80	8-1/4 to 9-1/4
	01	.026	.35	.50	.61	.72	.79	.87	.94	1.0	8-1/2 to 9-1/2
	015	.031	.53	.75	.91	1.1	1.2	1.3	1.4	1.5	9-1/4 to 10-1/4
	02	.036	.71	1.0	1.2	1.4	1.6	1.7	1.9	2.0	8-1/2 to 9-1/2
5°	0011	.009	.039	.055	.067	.078	.087	.095	.10	.11	2 to 3
	0039	.016	.14	.20	.24	.28	.31	.34	.36	.39	4 to 5
	0050	.018	.18	.25	.30	.35	.40	.43	.47	.50	4 to 5
	0067	.021	.24	.34	.41	.47	.53	.58	.63	.67	4 to 5
	01	.026	.35	.50	.61	.71	.79	.87	.94	1.0	5-1/4 to 6-1/4
	015	.031	.53	.75	.92	1.1	1.2	1.3	1.4	1.5	5-1/2 to 6-1/2
	02	.036	.71	1.0	1.2	1.4	1.6	1.7	1.9	2.0	5-3/4 to 6-3/4
0°	0009	.026	.30	.43	.52	.60	.67	.74	.80	.85	—
	001	.028	.42	.60	.73	.85	.95	1.0	1.1	1.2	—
	0015	.034	.62	.85	1.0	1.2	1.3	1.5	1.6	1.7	—
	002	.039	.81	1.2	1.4	1.6	1.8	2.0	2.2	2.3	—
	003	.043	.99	1.4	1.8	2.0	2.2	2.4	2.6	2.8	—
	004	.052	1.5	2.2	2.6	3.0	3.4	3.7	4.0	4.3	—
	005	.057	1.7	2.4	2.9	3.4	3.8	4.2	4.5	4.8	—
	006	.063	2.1	3.0	3.7	4.2	4.7	5.2	5.6	6.0	—

* For solid stream tips, the actual orifice diameter is listed.

** Spray pattern width is based on liquid with viscosity of 20 seconds, #4 Zahn Cup spraying at 1600 psi (110 bar).

*** Tabulation is based on spraying water at temperature at 70°F (21°C).

DIMENSIONS AND WEIGHTS

	Nozzle	A (in.)	B (in.)	Locating Flats (in.)	Net Weight (oz.)
	TP-ROBTC	.375	.59	0.5	.32
	TP-CDROBTC	.313	.59	0.5	.32

Based on largest/heaviest version of each type.

