

Genesis Stationary Shower

Genesis stationary showers are an ideal choice for papermaking applications requiring general purpose stationary showering.

A thorough study of machine conditions determines appropriate spray nozzle type, orifice size, and nozzle spacing. Close quality control of materials and manufacturing procedures ensure high performance for the long run. Each shower is designed for top efficiency in a specific application.

Applications Include:

- Knock-off Showers
- Flooded Nip Showers
- Wire Roll Showers
- Breast Roll Showers
- Lump Breaker Roll Showers
- Headbox Showers
- Fabric Flooding Showers
- Chemical Showers
- Lubricating Showers
- Wetting Showers

Forming Section

Application	Function	Shower Type	Nozzle Spacing	Operating Pressure	Flow GPM/in. (LPM/cm)
Breast Roll	Fill void volume of forming fabric	Stationary fan nozzle	6 in. (150 mm)	30 – 40 PSI (2 – 2.8 Bars)	0.167 – 0.197 (0.248 – 0.293)
Headbox Slice	Cleaning	Stationary fan nozzle	6 in. (150 mm)	30 – 40 PSI (2 – 2.8 Bars)	0.120 – 0.133 (0.178 – 0.198)
Lumpbreaker Roll	Cleaning	Stationary fan nozzle	6 – 8 in. (150 – 200 mm)	20 – 30 PSI (1.4 – 2 Bars)	0.0285 – 0.0428 (0.042 – 0.064)
Flooded Nip	Sheet knock-off & cleaning multi-layer fabrics	Stationary fan nozzle	3 in. (75 mm)	80 – 150 PSI (5.5 – 10.3 Bars)	Calculate running void volume
Trim Knock-off	Trim knock-off	Stationary fan nozzle	3 in. (75 mm)	100 – 250 PSI (7 – 17.2 Bars)	1.09 – 1.77 (1.6 – 2.63)
Sheet Knock-off	Sheet knock-off for single layer fabrics	Stationary fan nozzle	3 in. (75 mm)	200 – 350 PSI (13.8 – 24 Bars)	0.75 – 1.77 (1.12 – 2.628)
Wire Return Roll	Doctor blade lubrication	Stationary fan nozzle	6 – 8 in. (150 – 200 mm)	30 – 40 PSI (2 – 2.8 Bars)	0.15 – 0.163 (0.233 – 0.242)
Wire Return Roll	Wash roll cleaning & lubrication	Stationary fan nozzle	6 in. (150 mm)	40 – 60 PSI (2.8 – 4 Bars)	0.5 – 1.0 (0.74 – 1.48)

Press Section

Application	Function	Shower Type	Oscillation	Nozzle Spacing	Operating Pressure	Flow GPM/in. (LPM/cm)
Flooding	Felt wetting chemical application	Fan	Optional	3 – 6 in. (75 – 100 mm)	40 – 60 PSI (0.3 – 0.4 Mpa)	Must be calculated
Suction Pipe Lube Shower	Wear surface lubrication and sealing	Fan	Optional	6 – 8 in. (150 – 200 mm)	20 – 30 PSI (0.15 – 0.2 Mpa)	0.03 – 0.05 (0.045 – 0.075)
Doctor Lube Shower	Doctor blade lubrication	Fan	No	6 – 8 in. (150 – 200 mm)	30 – 40 PSI (0.2 – 0.3 Mpa)	0.05 – 0.07 (0.075 – 0.104)

Features



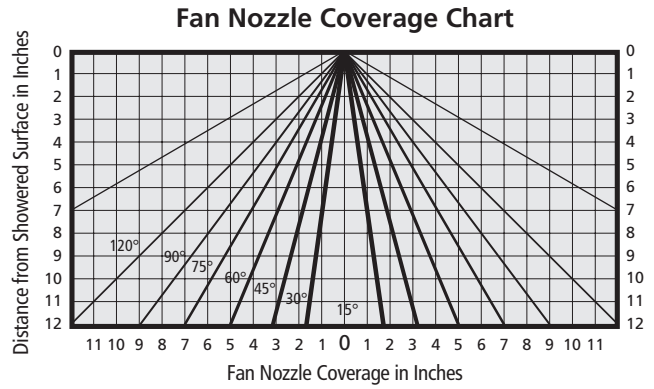
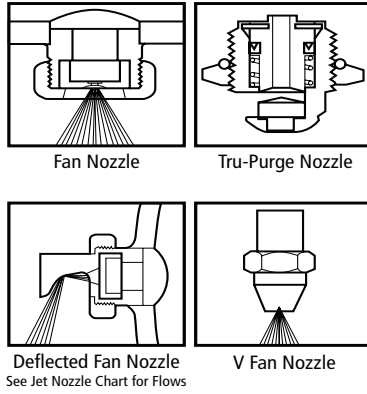
- Low cost
- 316L stainless steel pipe
- Nozzle bases are welded to the pipe
- Nozzles are available with a wide range of fan configurations
- Inlet at either end of shower pipe

Benefits



- Minimum maintenance
- Can use clarified white water

Spray nozzles are available in a broad range of types for many applications using fresh or recycled water. All nozzles are constructed of 316 stainless steel and each nozzle is factory-tested prior to installation or shipment.



Genesis Stationary Shower Fan Nozzle Flows

Nozzle		Pressure (PSI)															
Orifice	Angle	20	30	40	50	60	70	80	90	100	120	140	160	180	200	250	300
0.028	30...	0.078	0.096	0.111	0.124	0.136	0.147	0.157	0.166	0.175	0.192	0.207	0.222	0.235	0.248	0.277	0.304
0.028	45...	0.080	0.098	0.114	0.127	0.139	0.150	0.161	0.170	0.180	0.197	0.213	0.227	0.241	0.254	0.284	0.311
0.028	60...	0.083	0.101	0.117	0.131	0.143	0.155	0.165	0.175	0.185	0.202	0.219	0.234	0.248	0.261	0.292	0.320
0.028	90...	0.099	0.121	0.140	0.157	0.172	0.185	0.198	0.210	0.222	0.243	0.262	0.280	0.297	0.313	0.350	0.384
0.033	30...	0.109	0.133	0.154	0.172	0.189	0.204	0.218	0.231	0.244	0.267	0.288	0.308	0.327	0.344	0.385	0.422
0.033	45...	0.112	0.137	0.158	0.176	0.193	0.209	0.223	0.237	0.250	0.273	0.295	0.316	0.335	0.353	0.395	0.432
0.033	60...	0.115	0.141	0.162	0.181	0.199	0.215	0.230	0.243	0.257	0.281	0.304	0.325	0.344	0.363	0.406	0.444
0.033	90...	0.138	0.169	0.195	0.218	0.239	0.258	0.275	0.292	0.308	0.337	0.364	0.389	0.413	0.435	0.487	0.533
0.040	15...	0.157	0.192	0.222	0.248	0.272	0.293	0.314	0.333	0.351	0.384	0.415	0.443	0.470	0.496	0.554	0.607
0.040	30...	0.160	0.196	0.226	0.253	0.277	0.299	0.320	0.340	0.358	0.392	0.423	0.453	0.480	0.506	0.566	0.620
0.040	45...	0.164	0.201	0.232	0.259	0.284	0.307	0.328	0.348	0.367	0.402	0.434	0.464	0.492	0.519	0.580	0.635
0.040	60...	0.169	0.206	0.238	0.267	0.292	0.315	0.337	0.358	0.377	0.413	0.446	0.477	0.506	0.533	0.596	0.653
0.040	90...	0.202	0.248	0.286	0.320	0.350	0.378	0.405	0.429	0.452	0.496	0.535	0.572	0.607	0.640	0.715	0.784
0.055	15...	0.296	0.363	0.419	0.469	0.513	0.555	0.593	0.629	0.663	0.726	0.784	0.838	0.889	0.937	1.05	1.15
0.055	30...	0.303	0.371	0.428	0.478	0.524	0.566	0.605	0.642	0.677	0.741	0.801	0.856	0.908	0.957	1.07	1.17
0.055	45...	0.310	0.380	0.438	0.490	0.537	0.580	0.620	0.658	0.693	0.759	0.820	0.877	0.930	0.980	1.10	1.20
0.055	60...	0.319	0.390	0.451	0.504	0.552	0.596	0.638	0.676	0.713	0.781	0.843	0.902	0.956	1.01	1.13	1.23
0.055	90...	0.383	0.468	0.541	0.605	0.663	0.716	0.765	0.811	0.855	0.937	1.01	1.08	1.15	1.21	1.35	1.48
0.070	30...	0.490	0.600	0.693	0.775	0.849	0.917	0.980	1.04	1.10	1.20	1.30	1.39	1.47	1.55	1.73	1.90
0.070	45...	0.502	0.615	0.710	0.794	0.870	0.940	1.00	1.07	1.12	1.23	1.33	1.42	1.51	1.59	1.78	1.95
0.070	60...	0.516	0.632	0.730	0.816	0.894	0.966	1.03	1.10	1.15	1.26	1.37	1.46	1.55	1.63	1.83	2.00
0.070	90...	0.620	0.759	0.876	0.980	1.07	1.16	1.24	1.31	1.39	1.52	1.64	1.75	1.86	1.96	2.19	2.40
0.094	15...	0.860	1.05	1.22	1.36	1.49	1.61	1.72	1.83	1.92	2.11	2.28	2.43	2.58	2.72	3.04	3.33
0.094	30...	0.878	1.08	1.24	1.39	1.52	1.64	1.76	1.86	1.96	2.15	2.32	2.48	2.63	2.78	3.11	3.40
0.094	45...	0.900	1.10	1.27	1.42	1.56	1.68	1.80	1.91	2.01	2.20	2.38	2.55	2.70	2.85	3.18	3.49
0.094	60...	0.925	1.13	1.31	1.46	1.60	1.73	1.85	1.96	2.07	2.27	2.45	2.62	2.78	2.93	3.27	3.58
0.094	90...	1.11	1.36	1.57	1.76	1.92	2.08	2.22	2.36	2.48	2.72	2.94	3.14	3.33	3.51	3.93	4.30
0.125	30...	1.56	1.91	2.21	2.47	2.71	2.92	3.13	3.32	3.50	3.83	4.14	4.42	4.69	4.94	5.53	6.05
0.125	45...	1.60	1.96	2.26	2.53	2.77	3.00	3.20	3.40	3.58	3.92	4.24	4.53	4.80	5.06	5.66	6.20
0.125	60...	1.65	2.02	2.33	2.60	2.85	3.08	3.29	3.49	3.68	4.03	4.36	4.66	4.94	5.21	5.82	6.38
0.125	90...	1.98	2.42	2.79	3.12	3.42	3.70	3.95	4.19	4.42	4.84	5.23	5.59	5.93	6.25	6.99	7.65
0.156	15...	2.39	2.93	3.38	3.78	4.14	4.47	4.78	5.07	5.35	5.86	6.33	6.76	7.17	7.56	8.45	9.26
0.156	30...	2.44	2.99	3.45	3.86	4.23	4.57	4.88	5.18	5.46	5.98	6.46	6.90	7.32	7.72	8.63	9.45
0.156	45...	2.50	3.06	3.54	3.95	4.33	4.68	5.00	5.30	5.59	6.13	6.62	7.07	7.50	7.91	8.84	9.68
0.156	60...	2.57	3.15	3.64	4.06	4.45	4.81	5.14	5.45	5.75	6.30	6.80	7.27	7.71	8.13	9.09	9.96
0.188	30...	3.52	4.31	4.97	5.56	6.09	6.58	7.03	7.46	7.86	8.61	9.30	9.95	10.55	11.12	12.43	13.62
0.188	45...	3.60	4.41	5.10	5.70	6.24	6.74	7.21	7.64	8.06	8.83	9.53	10.19	10.81	11.39	12.74	13.96
0.219	30...	4.80	5.88	6.78	7.59	8.31	8.98	9.60	10.18	10.73	11.75	12.69	13.57	14.39	15.17	16.96	18.58
0.219	45...	4.92	6.02	6.95	7.77	8.51	9.20	9.83	10.43	10.99	12.04	13.01	13.90	14.75	15.54	17.38	19.04
0.250	30...	6.25	7.66	8.84	9.89	10.83	11.70	12.50	13.26	13.98	15.31	16.54	17.68	18.76	19.77	22.10	24.21