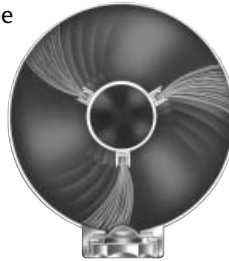


50 Stationary · 51 Oscillating Posi-Brush™ Showers

Efficient system design

Kadant AES Posi-Brush™ showers are designed and built for applications using filtered fresh or recycled process water. Especially effective in paper machine applications subject to high process water contamination, Posi-Brush™ showers provide reliability, easy maintenance and low operating cost.

Available either as stationary (Type 50) or oscillating (Type 51), the pipe I.D. and nozzles can remain clog-free due to the simple, effective design of the brush assembly. Full-length internal, stainless steel brush assemblies clean the full internal pipe circumference and the nozzle orifices which protrude inside the pipe. This comprehensive sweep prevents solids build-up, eliminates contamination problems and directs the loosened debris to the integral flush valve.

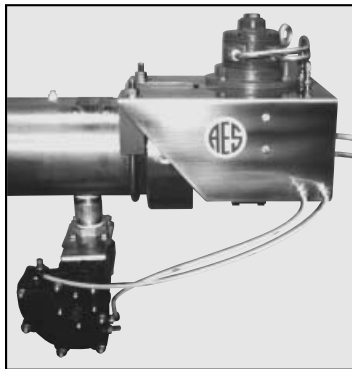


Where water conservation is critical and white water is in use, Kadant AES Posi-Brush™ showers are an essential component for problem-free system operation.

Effective manual or automatic cleaning

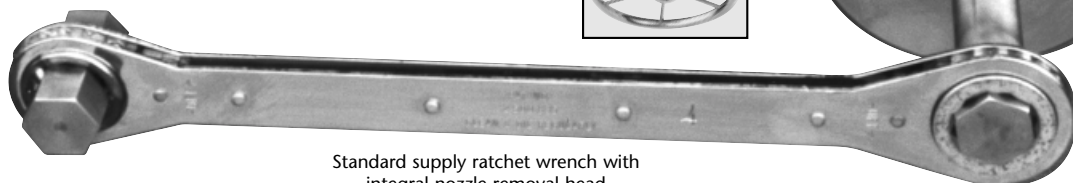
Removing contaminants from the nozzles and flow pipe is a simple process. The showers are supplied with standard manual cleaning or optional automated cleaning using the Kadant AES Auto Brush Actuator™.

Manual cleaning, using the standard supply ratchet wrench or optional hand-wheel, involves opening the flush valve and rotating the brushes 360° in both directions. The loosened contaminant flows through the flush valve and is disposed off process without contaminating the paper machine or product. The brushes are returned to “park” position, the flush valve is closed, and the shower is ready to continue operating.



The Kadant AES Auto Brush Actuator™ performs the entire nozzle and flow pipe cleaning process through a user selected and programmed time cycle. The assembly consists of a control panel, air motor, gear reducer and flush valve actuator and can be retrofitted to existing Kadant AES brush showers.

Optional Handwheel



Standard supply ratchet wrench with integral nozzle removal head

Applications

- Paper machine fabric and roll cleaning
- Filter press belt cleaning
- Extractor belt cleaning
- Replace existing fresh water showers

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50 Stationary - 51 Oscillating Posi-Brush™ Showers

Advantages

- Permits reuse of process water
- Provides positive cleaning of nozzle orifices and pipe I.D.
- Off process purging with flush valve
- Superior full width self-supporting brush design
- Reduces energy requirements to heat fresh water
- Reduces pH control problems and reduces mill effluent
- High and low pressure designs with jet and fan nozzles to 60°
- Easily replaceable brush segments
- Superior nozzle design with replaceable "economy" nozzle inserts
- Simple, "fail-safe" nozzle mountings—no snap rings

NOZZLE PRESSURE			PSI:	20	40	60	80	100	125	150	200	250	300	400	600	800	1000		
			BAR:	1.5	3.0	4.0	6.0	7.0	9.0	10	14	17	21	28	41	55	69		
NOZZLE	ORIFICE in./mm	FAN ANGLE	NOZZLE FLOW: Gallons Per Minute/Liters Per Minute																
2227GP 7	.028	JET	.064	.090	.110	.128	.143	.160	.175	.202	.226	.247	.285	.349	.403	.451			
			.242	.341	.416	.484	.541	.604	.662	.765	.855	.935	1.079	1.321	1.525	1.707			
	6	.033	.089	.125	.153	.179	.198	.222	.243	.280	.313	.343	.396	.485	.560	.626			
			.337	.473	.579	.669	.749	.840	.920	1.06	1.185	1.298	1.499	1.836	2.120	2.369			
	5	.040	.130	.184	.225	.260	.291	.326	.356	.412	.460	.504	.582	.713	.823	.920			
			.492	.696	.851	.984	1.10	1.234	1.35	1.56	1.74	1.907	2.203	2.699	3.115	3.482			
	4	.055	.246	.348	.426	.492	.550	.615	.674	.778	.870	.953	1.10	1.35	1.56	1.74			
			.931	1.317	1.612	1.862	2.082	2.328	2.55	2.94	3.29	3.607	4.164	5.109	5.905	6.586			
	3	.070	.399	.564	.690	.797	.891	.999	1.09	1.26	1.41	1.54	1.78	2.18	2.52	2.82			
			1.51	2.134	2.612	3.017	3.37	3.78	4.13	4.77	5.34	5.829	6.737	8.25	9.538	10.67			
2	.094	.714	1.01	1.24	1.43	1.60	1.785	1.96	2.26	2.53	2.77	3.19	3.91	4.52	5.05				
		2.702	3.83	4.69	5.41	6.06	6.756	7.42	8.55	9.58	10.48	12.07	14.80	17.11	19.11				
1	.125	1.27	1.80	2.20	2.54	2.84	3.175	3.48	4.02	4.49	4.92	5.69	6.96	8.04	8.99				
		4.81	6.81	8.33	9.61	10.75	12.02	13.17	15.22	16.99	18.62	21.54	26.34	30.43	34.03				
C14506 GP7	.055	30°	.27	.38	.46	.54	.60	.67	.73	.85	.95	1.04							
			1.02	1.44	1.74	2.04	2.27	2.54	2.76	3.22	3.6	3.94							
	GP8	.094	.85	1.20	1.47	1.70	1.90	2.12	2.33	2.69	3.00	3.29							
			3.22	4.54	5.56	6.43	7.19	8.02	8.82	10.18	11.36	12.45							
	GP9	.125	1.43	2.02	2.48	2.86	3.20	3.58	3.92	4.53	5.06	5.54							
			5.41	7.65	9.39	10.83	12.11	13.55	14.84	17.15	19.15	20.97							
	GP1	.156	2.31	3.27	4.00	4.62	5.17	5.78	6.33	7.31	8.17	8.95							
			8.74	12.38	15.14	17.49	19.57	21.88	23.96	27.67	30.92	33.88							
	GP11	.188	3.35	4.74	5.81	6.71	7.50	8.39	9.19	10.61	11.86	12.99							
			12.68	17.94	21.99	25.4	28.39	31.76	34.78	40.16	44.89	49.17							
C14506 GP2	.055	45°	.38	.54	.66	.76	.85	.95	1.04	1.20	1.34	1.47							
			1.44	2.04	2.5	2.88	3.22	3.6	3.94	4.54	5.07	5.56							
	GP3	.070	.52	.74	.91	1.05	1.17	1.31	1.44	1.66	1.86	2.03							
			1.97	2.8	3.44	3.97	4.43	4.96	5.45	6.28	7.04	7.68							
	GP13	.094	.85	1.20	1.47	1.70	1.90	2.12	2.33	2.69	3.00	3.29							
			3.22	4.54	5.56	6.43	7.19	8.02	8.82	10.18	11.36	12.45							
	GP4	.125	1.62	2.29	2.80	3.24	3.62	4.05	4.43	5.12	5.72	6.27							
			6.13	8.67	10.6	12.26	13.70	15.33	16.77	19.38	21.65	23.73							
	C14506 GP14	.055	60°	.40	.57	.70	.80	.90	1.01	1.10	1.27	1.42	1.56						
				1.51	2.16	2.65	3.03	3.41	3.82	4.16	4.81	5.37	5.90						
GP15		.094	.89	1.26	1.55	1.79	2.00	2.24	2.45	2.83	3.16	3.46							
			3.37	4.77	5.87	6.78	7.57	8.48	9.27	10.71	11.96	13.10							
GP16		.125	1.52	2.15	2.63	3.04	3.40	3.80	4.16	4.81	5.38	5.89							
			5.75	8.14	9.95	11.51	12.87	14.38	15.75	18.21	20.36	22.29							
GP17		.156	2.24	3.16	3.87	4.47	5.00	5.59	6.12	7.07	7.91	8.66							
			8.48	11.96	14.65	16.92	18.93	21.16	23.16	26.76	29.94	32.78							



EMO III oscillation packages match your application needs with Kadant AES 51 Oscillating Posi-Brush™ showers.

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