DYNAMIC AIR®
Conveying Systems

Transporters

Model J Series 496
Model JT Series 614

Higher performance

Dynamic Air Model J and JT transporters are designed to hold a specific volume of material which needs to be conveyed. They are sized appropriately for application specific system performance with regard to conveying distance, conveying rate, conveying velocity and air efficiency. The 60 degree cone bottom on the Model J transporters and the 45 degree cone bottom on the Model JT transporters provide a better cleanout to achieve optimum efficiency. They are generally designed for higher conveying pressures (over 15 psig) and so that granular materials can be fed more uniformly into the conveying line for predetermined performance values.

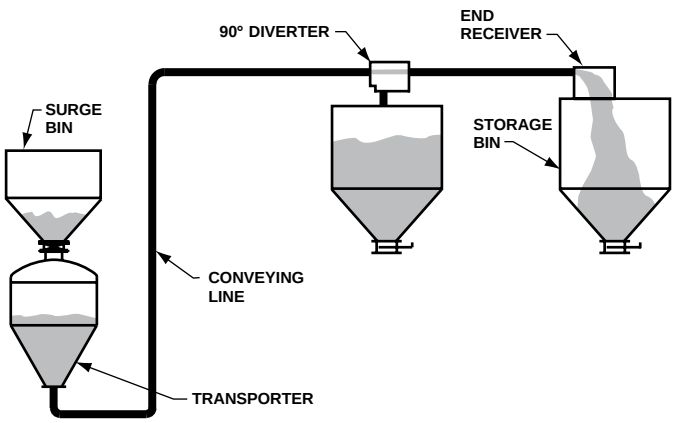
Maximum efficiency

Propriety air injection nozzles, complete with volume and pressure control, allow only the appropriate amount of compressed air to be added to the transporter as needed for conveying. They are designed to create a controlled and effective discharge for trouble-free conveying and better material-to-air ratios for maximum efficiency and improved reliability.

General features

- Rotating outlet fitting
- Air injection nozzles
- 60 or 45 degree cone bottom
- ASME/PED certified
- National Board certified
- Low maintenance
- Few moving parts
- Quiet operation
- Heavy-duty construction

Typical application



Transporters will convey

- Alumina
- Ball clay
- Barite
- Bauxite
- Bentonite
- Borax
- Calcium carbonate
- Carbon black
- Cement
- Feldspar
- Fine coal
- Fluorspar
- Fly ash
- Kaolin clay
- Lime
- Quartz
- Silica sand
- Soda ash
- Sodium sulfate
- Sugar
- Talc
- Titanium dioxide
- **And more**

Construction features

All Dynamic Air Model J and JT transporters have a cone bottom for improved discharging and better cleanout of the conveyed material. The standard high pressure J and JT transporters are built of either carbon steel or stainless steel in a variety of finishes and protective coatings. They conform to ASME/PED construction and are National Board Certified. Standard vessels are rated to 100 PSIG working pressure and are complete with the necessary valves, outlet fitting, access openings and air injection nozzles.

Dynamic Air can provide any model in a style to meet most needs. Standard capacities range from 1 to 500 cubic feet. Larger sizes are available upon request.

Heavy-duty valves

The heavy-duty inlet, outlet and vent valves are air operated and designed for abrasive service. Various types are available for handling a wide variety of materials at temperatures up to 500° Fahrenheit. They are sized to minimize filling time and provide a positive high pressure seal during conveying.

Full flow outlet

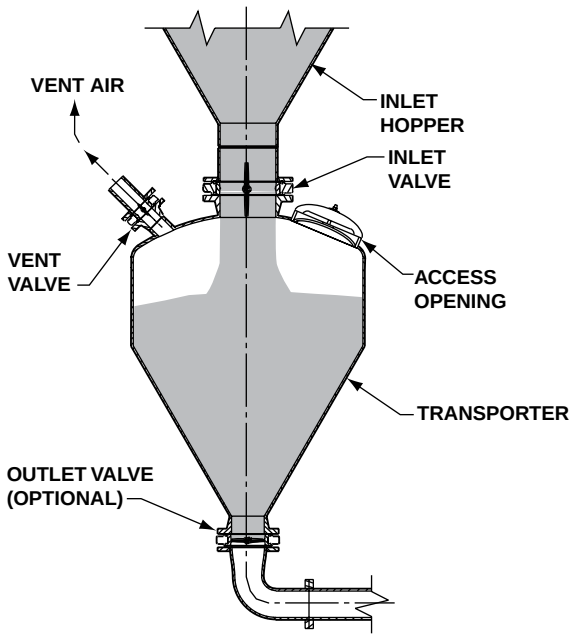
The full flow outlet is designed to eliminate material buildup and prevent cross-contamination when different materials are conveyed. It can also be rotated 360 degrees to any position to simplify installation.

How the Model J and JT transporter works

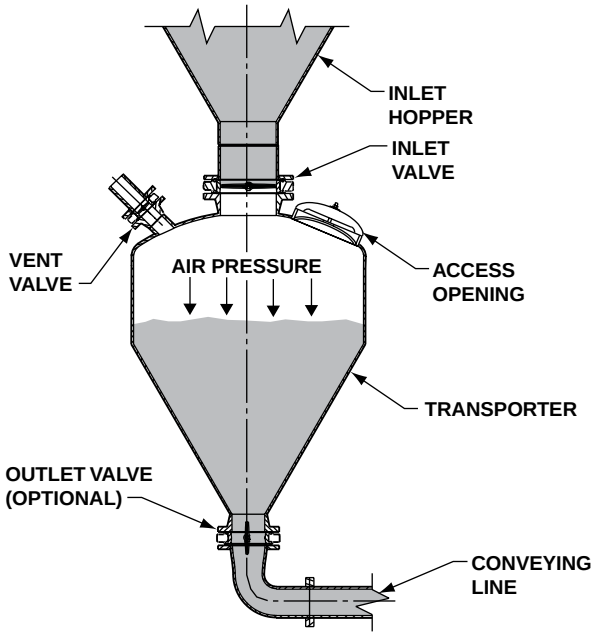
The Dynamic Air Model J and JT transporters are designed to handle free-flowing, cohesive and/or dry granular materials. Uniform pressure exerted from the top of the transporter gently forces material into the conveying line at the highest possible density to create the best possible efficiency.

To initiate the filling cycle, the transporter inlet valve and vent valve open, allowing material to fill the transporter and the vent air to escape for efficient filling. When the fill cycle is complete, both the inlet and vent valves close. Sensors verify inlet and outlet valve positions. The transporter is then pressurized using compressed air or an inert gas, forcing the material into the conveying line at a high density and high efficiency.

When the conveying cycle is completed, the air pressure decreases and the air supply is automatically turned off. The transporter is then ready to begin another cycle.

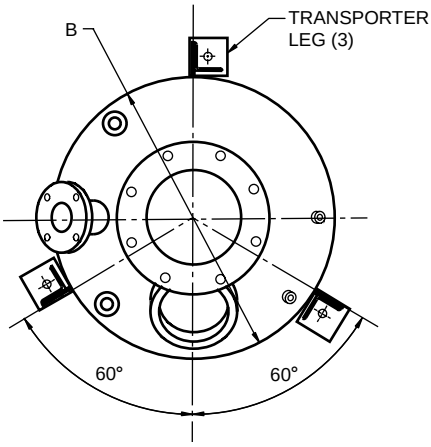


Filling Cycle

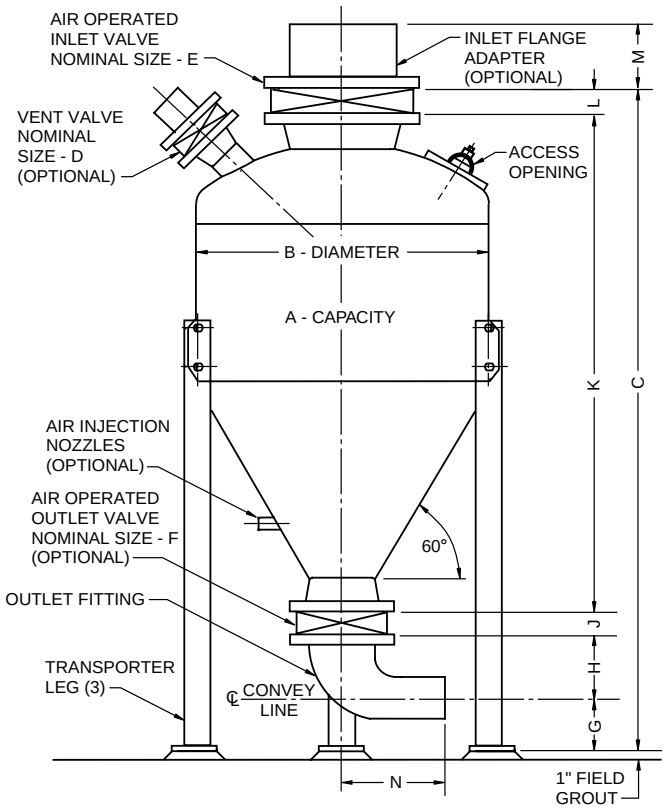


Conveying Cycle

Dimensions and Specifications
Model J Transporter



TOP VIEW

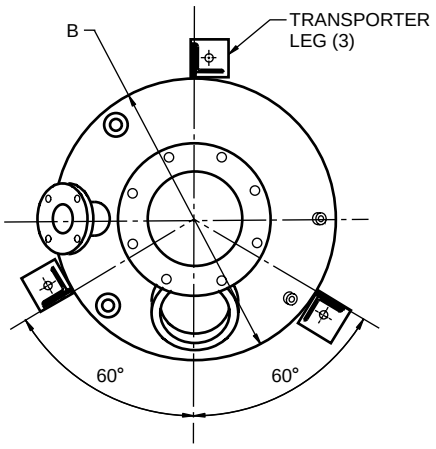


ELEVATION VIEW

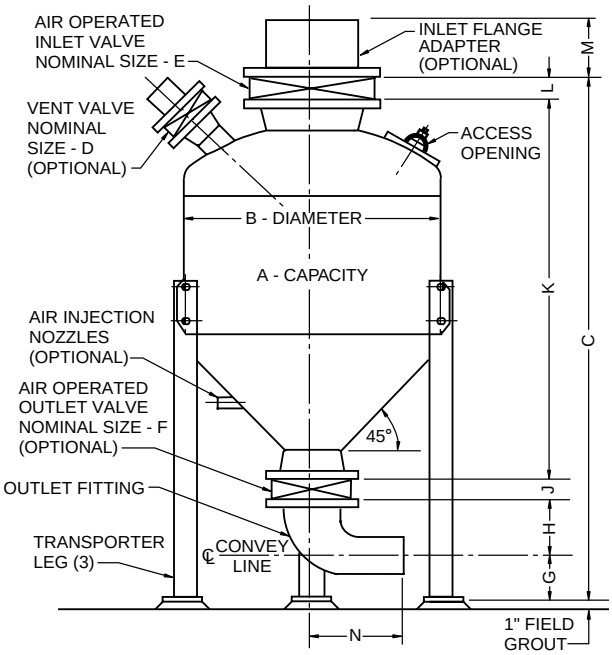
Model	Capacity A	Model J Transporter Dimensions ☐ inches ▒ millimeters												Approximate Ship Weight
		B	C	D	E	F	G	H	J	K	L	M	N	
8J-10	1 cubic foot	18	37-1/2	2	8	3	4	4-1/2	1-3/4	24-3/4	2-1/2	4	9	160 lbs.
	28 liters	457	953	51	200	76	102	114	44	629	64	102	229	73 kg.
8J-20	2 cubic feet	18	44-1/2	2	8	3	4	4-1/2	1-3/4	31-3/4	2-1/2	4	9	195 lbs.
	57 liters	457	1130	51	200	76	102	114	44	806	64	102	229	88 kg.
8J-30	3 cubic feet	24	51-1/2	3	8	4	6	7	2	34	2-1/2	4	11	273 lbs.
	85 liters	610	1308	80	200	100	152	178	51	864	64	102	279	124 kg.
8J-50	5 cubic feet	24	60	3	8	4	6	7	2	42-1/2	2-1/2	4	11	319 lbs.
	142 liters	610	1524	80	200	100	152	178	51	1080	64	102	279	145 kg.
10J-100	10 cubic feet	30	71-1/8	3	10	6	6	9-1/2	2-1/8	51	2-1/2	4	11	432 lbs.
	283 liters	762	1807	80	250	150	152	241	54	1295	64	102	279	196 kg.
10J-200	20 cubic feet	42	81-1/8	3	10	6	6	9-1/2	2-1/8	61	2-1/2	4	11	774 lbs.
	566 liters	1067	2061	80	250	150	152	241	54	1549	64	102	279	351 kg.
10J-300	30 cubic feet	42	95	3	10	8	6	11	2-1/2	73	2-1/2	4	11	919 lbs.
	850 liters	1067	2413	80	250	200	152	279	64	1854	64	102	279	417 kg.
12J-400	40 cubic feet	48	103-1/2	3	12	8	7	12	2-1/2	79	3	6	12	1136 lbs.
	1133 liters	1219	2629	80	300	200	178	305	64	2007	76	152	305	515 kg.
12J-500	50 cubic feet	48	112-1/2	3	12	10	7	13	2-1/2	87	3	6	12	1235 lbs.
	1416 liters	1219	2858	80	300	250	178	330	64	2210	76	152	305	560 kg.
12J-600	60 cubic feet	48	123-1/2	3	12	10	8	15	2-1/2	95	3	6	15	1328 lbs.
	1699 liters	1219	3137	80	300	250	203	381	64	2413	76	152	381	602 kg.
12J-700	70 cubic feet	48	132-1/2	4	12	10	8	15	2-1/2	104	3	6	15	1424 lbs.
	1982 liters	1219	3366	100	300	250	203	381	64	2642	76	152	381	646 kg.
12J-800	80 cubic feet	48	142-1/2	4	12	10	8	15	2-1/2	114	3	6	15	1531 lbs.
	2265 liters	1219	3620	100	300	250	203	381	64	2896	76	152	381	694 kg.
12J-900	90 cubic feet	48	151-1/2	4	12	10	8	15	2-1/2	123	3	6	15	1627 lbs.
	2549 liters	1219	3848	100	300	250	203	381	64	3124	76	152	381	738 kg.
16J-1000	100 cubic feet	48	166-1/2	4	16	12	9-1/2	18	3	132	4	6	19	1931 lbs.
	2832 liters	1219	4229	100	400	300	241	457	76	3353	102	152	483	876 kg.
16J-1500	150 cubic feet	60	172-1/2	4	16	12	9-1/2	18	3	138	4	6	19	2750 lbs.
	4248 liters	1524	4382	100	400	300	241	457	76	3505	102	152	483	1247 kg.
20J-2000	200 cubic feet	72	177-1/2	6	20	12	9-1/2	18	3	142	5	7	19	3852 lbs.
	5663 liters	1829	4509	150	500	300	241	457	76	3607	127	178	483	1747 kg.
20J-3000	300 cubic feet	78	204-1/2	6	20	12	9-1/2	18	3	169	5	7	19	5271 lbs.
	8495 liters	1981	5194	150	500	300	241	457	76	4293	127	178	483	2391 kg.
20J-4000	400 cubic feet	78	240-1/2	6	20	12	9-1/2	18	3	205	5	7	19	5856 lbs.
	11327 liters	1981	6109	150	500	300	241	457	76	5207	127	178	483	2656 kg.
20J-5000	500 cubic feet	78	276-1/2	6	20	12	9-1/2	18	3	241	5	7	19	7156 lbs.
	14159 liters	1981	7023	150	500	300	241	457	76	6121	127	178	483	3246 kg.

Dimensions and specifications will vary according to size and configuration and are subject to change without notice.

Dimensions and Specifications
Model JT Transporter



TOP VIEW



ELEVATION VIEW

Model	Capacity A	Model JT Transporter Dimensions ☐ inches ▨ millimeters												Approximate Ship Weight
		B	C	D	E	F	G	H	J	K	L	M	N	
8JT-10	1 cubic foot	18	34-1/2	2	8	3	4	4-1/2	1-3/4	21-3/4	2-1/2	4	9	115 lbs.
	28 liter	457	876	51	200	76	102	114	44	552	64	102	229	52 kg
8JT-20	2 cubic feet	18	41-1/2	2	8	3	4	4-1/2	1-3/4	28-3/4	2-1/2	4	9	150 lbs.
	57 liter	457	1054	51	200	76	102	114	44	730	64	102	229	68 kg
8JT-30	3 cubic feet	24	46-1/2	3	8	4	6	7	2	29	2-1/2	4	11	210 lbs.
	85 liter	610	1181	80	200	102	152	178	51	737	64	102	279	95 kg
8JT-50	5 cubic feet	24	53-3/4	3	8	4	6	7	2	36-1/4	2-1/2	4	11	260 lbs.
	142 liter	610	1365	80	200	102	152	178	51	921	64	102	279	118 kg
10JT-100	10 cubic feet	30	65-5/16	3	10	6	6	9-1/2	2-1/8	45-3/16	2-1/2	4	11	400 lbs.
	283 liter	762	1659	80	250	150	152	241	54	1148	64	102	279	181 kg
10JT-200	20 cubic feet	42	71-1/2	3	10	6	6	9-1/2	2-1/8	51-3/8	2-1/2	4	11	700 lbs.
	566 liter	1067	1816	80	250	150	152	241	54	1305	64	102	279	318 kg
10JT-300	30 cubic feet	42	83-13/16	3	10	8	6	11	2-1/2	61-13/16	2-1/2	4	11	825 lbs.
	850 liter	1067	2129	80	250	200	152	279	64	1570	64	102	279	374 kg
12JT-400	40 cubic feet	48	92-1/4	3	12	8	7	12	2-1/2	67-3/4	3	6	12	1100 lbs.
	1133 liter	1219	2343	80	300	200	178	305	64	1721	76	152	305	499 kg
12JT-500	50 cubic feet	48	101-15/16	3	12	10	7	13	2-1/2	76-7/16	3	6	12	1250 lbs.
	1416 liter	1219	2589	80	300	250	178	330	64	1942	76	152	305	567 kg
12JT-600	60 cubic feet	48	114-5/8	3	12	10	8	15	2-1/2	86-1/8	3	6	15	1375 lbs.
	1699 liter	1219	2911	80	300	250	203	381	64	2188	76	152	381	624 kg
12JT-700	70 cubic feet	48	124-1/8	4	12	10	8	15	2-1/2	95-5/8	3	6	15	1475 lbs.
	1982 liter	1219	3153	100	300	250	203	381	64	2429	76	152	381	669 kg
12JT-800	80 cubic feet	48	133-3/4	4	12	10	8	15	2-1/2	105-1/4	3	6	15	1575 lbs.
	2265 liter	1219	3397	100	300	250	203	381	64	2673	76	152	381	714 kg
12JT-900	90 cubic feet	48	143-1/4	4	12	10	8	15	2-1/2	114-3/4	3	6	15	1650 lbs.
	2549 liter	1219	3639	100	300	250	203	381	64	2915	76	152	381	748 kg
16JT-1000	100 cubic feet	48	158-7/8	4	16	12	9-1/2	18	3	124-3/8	4	6	19	1825 lbs.
	2832 liter	1219	4035	100	400	300	241	457	76	3159	102	152	483	828 kg
16JT-1500	150 cubic feet	60	161-3/8	4	16	12	9-1/2	18	3	126-7/8	4	6	19	2850 lbs.
	4248 liter	1524	4099	100	400	300	241	457	76	3223	102	152	483	1293 kg
20JT-2000	200 cubic feet	72	162-1/2	6	20	12	9-1/2	18	3	127	5	7	19	4250 lbs.
	5663 liter	1829	4128	150	500	300	241	457	76	3226	127	178	483	1928 kg
20JT-3000	300 cubic feet	78	189-1/4	6	20	12	9-1/2	18	3	153-3/4	5	7	19	5750 lbs.
	8495 liter	1981	4807	150	500	300	241	457	76	3905	127	178	483	2608 kg
20JT-4000	400 cubic feet	78	225-1/2	6	20	12	9-1/2	18	3	190	5	7	19	7750 lbs.
	11327 liter	1981	5728	150	500	300	241	457	76	4826	127	178	483	3515 kg
20JT-5000	500 cubic feet	78	262	6	20	12	9-1/2	18	3	226-1/2	5	7	19	7900 lbs.
	14159 liter	1981	6655	150	500	300	241	457	76	5753	127	178	483	3583 kg

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