

ROOTX benefits

- Manufactured with state of the art technologies, Shortest deliveries.
- Rootx available in both vertical and horizontal
- The compact design & engineered for continuous service when operated in accordance with speed and pressure ratings.
- Antifriction bearings, roller bearings - a standard feature for all blowers
- Air blowers is available for flow rates from 25 m³/hr to 10,000 m³/hr in single stage
- Ready to install or as bare blower units, for replacement.
- Improved volumetric efficiency and reduced operating temperature
- Splashed oil lubricated with spur timing gears
- Balanced machined twin lobe impellers

ROOTX
TWIN LOBE • TRI LOBE



BEYOND CONVENTIONAL

Transcend Cleantec Pvt. Ltd.

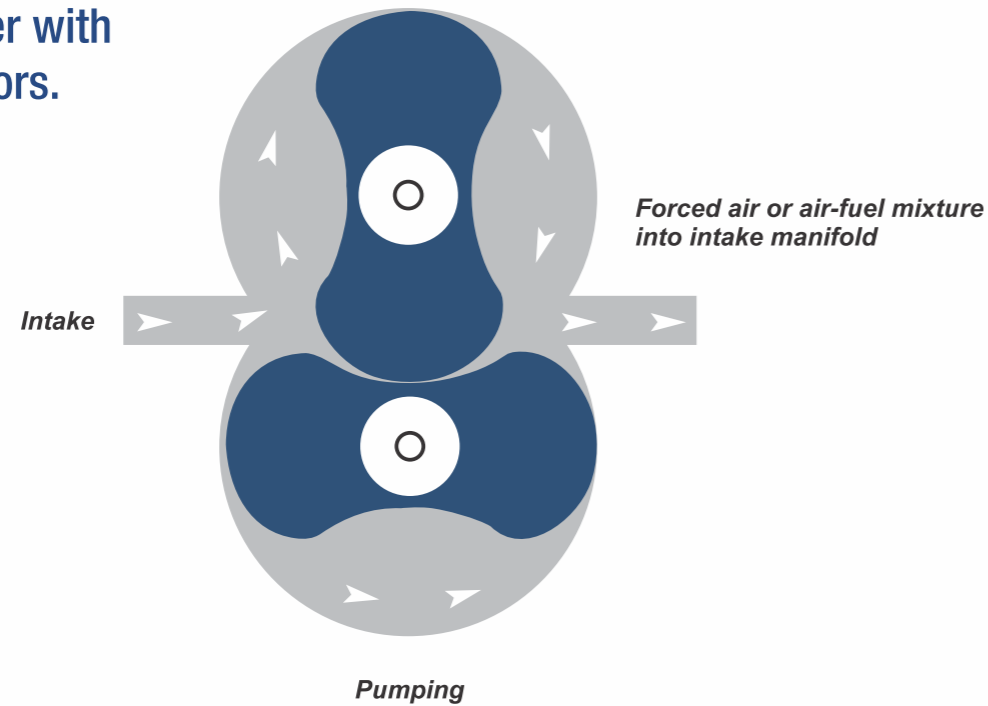
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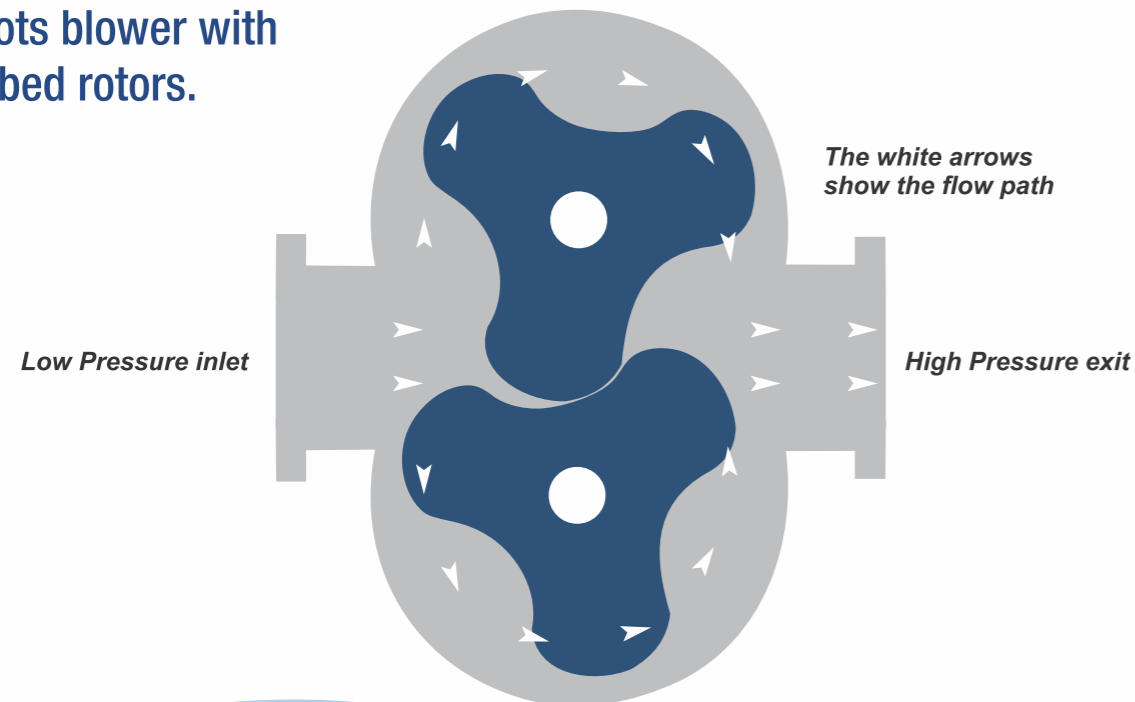


POWER BEHIND AERATION

A Roots blower with two-lobed rotors.



A Roots blower with tri-lobed rotors.



Roots blowers mechanism

The Roots-type blower is a positive displacement lobe pump which operates by pumping a fluid with a pair of meshing lobes resembling a set of stretched gears. Fluid is trapped in pockets surrounding the lobes and carried from the intake side to the exhaust. The Roots is a valve less positive displacement mechanism in which a pair of lobed rotors, interlocked and synchronized, rotate in opposite directions moving past each other and the stator wall with small clearance. AIR / Gas is trapped in front of each lobe and swept around the stator periphery from inlet to outlet. Very large displacement (above 20000 m³/h) and the mechanism has proven very effective in the pressure region from 10 to 10⁻³ mbar, but only when delivering against low pressure differentials. As a displacement machine and not a true compressor, the Roots mechanism is not suited to discharging to near atmospheric pressure (i.e. with significant differential pressure).

What we offer

Roots blowers stand to be one of the most basic needs of the sewage and effluent treatment plant, thus is most important aspect for all the stake holders. Most neglected & yet to say most sought after area for many suppliers and becomes most fragile and most vulnerable area too... Such is the position of the roots blower and still we have something more to offer... We offer precision, robust, efficiency, long life, yet economical roots blower for all stake holders right from smallest of 35 m³ to presently 10000 m³/hr.

Hence ROOTX becomes the end of the trial era and beginning of the performing machines. X stands for Xtra care, Xtra engineering, Xtra precision, and X means just two letters before the end of the Alphabets ...meaning nothing left to explore... We stand by our word Xtra... and we deliver the product as a SERVICE..

WE WELCOME YOU ALL FOR THIS SMOOTH AERATION Xperience....



	TLB-5.5	1000	233	1.3	210	2.1	193	2.9	178	3.7	165	4.4	154	5.2	143	6.0	80
	Roots Design	1200	291	1.6	268	2.5	251	3.5	236	4.4	223	5.3	211	6.3	200	7.2	
		1500	377	2.0	355	3.1	337	4.3	322	5.5	309	6.7	298	7.8	287	9.0	
	TLB-5.7	1000	326	1.6	295	2.7	270	3.8	250	4.9	231	6.0	215	7.1	200	8.2	80
	Roots Design	1200	407	1.9	375	3.3	351	4.6	330	5.9	312	7.2	296	8.5	281	9.9	
		1500	528	2.4	496	4.1	472	5.7	451	7.4	433	9.0	417	10.7	402	12.3	
	TLB-5.9	1000	446	2.2	404	3.7	372	5.2	345	6.7							80
	Roots Design	1200	556	2.7	514	4.5	482	6.3	455	8.1							
		1500	720	3.4	678	5.6	646	7.8	619	10.1							
	TLB-6.5	1000	233	1.3	210	2.1	193	2.9	178	3.7	165	4.4	154	5.2	143	6.0	80
	Roots Design	1200	291	1.6	268	2.5	251	3.5	236	4.4	223	5.3	211	6.3	200	5.8	
		1500	377	2.0	355	3.1	337	4.3	322	5.5	309	6.7	298	7.8	287	7.2	
	TLB-6.7	1000	453	2.3	409	3.8	375	5.3	346	6.8	321	8.4	298	9.9	277	11.4	125
	Roots Design	1200	565	2.7	520	4.6	486	6.4	458	8.2	433	10.0	410	11.9	389	13.7	
		1500	732	3.4	688	5.7	654	8.0	626	10.3	601	12.6	578	14.8	557	17.1	
	TLB-6.10	1000	605	2.8	546	4.8	501	6.9	462	8.9	429	10.9	398	13.0	370	15.0	150
	Roots Design	1200	754	3.3	695	5.8	650	8.2	612	10.7	578	13.1	548	15.6	520	18.0	
		1500	979	4.2	920	7.2	874	10.3	836	13.3	803	16.4	772	19.5	744	22.5	
	TLB-6.15	1000	919	3.9	836	6.9	772	10.0	719	13.0							150
	Roots Design	1200	1142	4.6	1060	8.3	996	12.0	942	15.6							
		1500	1478	5.8	1395	10.4	1332	14.9	1278	19.5							

TLB-7.6	1000	601	2.8	565	4.7	538	6.6	515	8.5	494	10.3	476	12.2	459	14.1	100
Roots Design	1200	738	3.4	702	5.7	675	7.9	652	10.1	632	12.4	613	14.6	596	16.9	
	1500	944	4.3	908	7.1	881	9.9	858	12.7	838	15.5	819	18.3	802	21.1	
TLB-7.8	1000	601	2.8	565	4.7	538	6.6	515	8.5	494	10.3	476	12.2	459	14.1	125
Roots Design	1200	738	3.4	702	5.7	675	7.9	652	10.1	632	12.4	613	14.6	596	16.9	
	1500	944	4.3	908	7.1	881	9.9	858	12.7	838	15.5	819	18.3	802	21.1	
TLB-7.10	1000	997	4.1	936	7.2	889	10.3	850	13.4	815	16.6	783	19.7	755	22.8	150
Roots Design	1200	1226	4.9	1165	8.6	1118	12.4	1078	16.1	1044	19.9	1012	23.6	983	27.4	
	1500	1569	6.1	1508	10.8	1461	15.5	1422	20.2	1387	24.8	1355	29.5	1327	34.2	
TLB-7.13	1000	1292	5.0	1211	9.1	1149	13.1	1097	17.2	1051	21.2	1009	25.3	971	29.3	150
Roots Design	1200	1589	6.0	1508	10.9	1446	15.7	1394	20.6	1348	25.5	1306	30.3	1268	35.2	
	1500	2035	7.5	1954	13.6	1892	19.7	1840	25.8	1794	31.8	1752	37.9	1714	44.0	
TLB-7.17	1000	1691	6.6	1585	11.9	1504	17.2	1436	22.5							150
Roots Design	1200	2080	7.9	1974	14.2	1893	20.6	1825	27.0							
	1500	2664	9.9	2558	17.8	2477	25.8	2409	33.7							
TLB-8.9	900	955	5.6	908	8.5	872	9.0	842	11.9	815	17.2	791	20.1	769	23.1	100
Roots Design	1100	1192	6.8	1145	10.4	1109	11.0	1079	14.6	1052	21.1	1028	24.6	1006	28.2	
	1500	1667	9.3	1620	14.2	1584	15.0	1553	19.8	1527	28.7	1503	33.6	1480	38.4	
TLB-8.12	700	959	5.1	897	8.1	849	11.2	808	14.2	772	17.2	740	20.2	710	23.3	125
Roots Design	900	1277	6.6	1214	10.5	1166	14.4	1125	18.2	1090	22.1	1057	26.0	1028	29.9	

	1500	2228	11.0	2166	17.4	2118	23.9	2077	30.4	2041	36.9	2009	43.4	1980	49.9	200
TLB-8.16	700	1279	6.1	1196	10.2	1131	14.2	1077	18.2	1030	22.3	987	26.3			
Roots Design	900	1702	7.9	1619	13.1	1554	18.2	1500	23.4	1453	28.6	1410	33.8			
	1500	2971	13.1	2888	21.8	2824	30.4	2770	39.1	2722	47.7	2679	56.4			
TLB-8.20	700	1599	7.1	1494	12.2	1414	17.2	1347	22.3							200
Roots Design	900	2128	9.2	2023	15.7	1943	22.1	1876	28.6							
	1500	3714	15.3	3610	26.1	3530	36.9	3462	47.7							
TLB-10.12	700	1640	7.8	1533	13.0	1451	18.1	1381	23.3	1320	28.5	1265	33.6	1265	33.6	150
Roots Design	900	2182	10.0	2075	16.7	1993	23.3	1924	30.0	1863	36.6	1807	43.3	1807	43.3	
	1500	3809	16.7	3702	27.8	3620	38.8	3551	49.9	3490	61.0	3435	72.1	3435	72.1	
TLB-10.16	700	2203	9.6	2060	16.5	1949	23.5	1856	30.4	1774	37.4	1700	44.3	1700	44.3	200
Roots Design	900	2932	12.3	2788	21.2	2678	30.2	2585	39.1	2503	48.0	2429	57.0	2429	57.0	
	1500	5119	20.5	4975	35.4	4864	50.3	4771	65.2	4689	80.1	4615	95.0	4615	95.0	
TLB-10.20	700	2818	11.5	2634	20.4	2493	29.3	2374	38.2	2269	47.1	2174	56.0			250
Roots Design	900	3751	14.8	3567	26.2	3425	37.7	3306	49.1	3201	60.5	3107	71.9			
	1500	6547	24.6	6363	43.7	6222	62.8	6103	81.8	5998	100.9	5903	119.9			
TLB-10.24	700	3310	13.1	3094	23.5	2928	33.9	2788	44.4	2665	54.8					300
Roots Design	900	4405	16.8	4189	30.2	4023	43.6	3883	57.1	3760	70.5					
	1500	7690	28.0	7474	50.3	7308	72.7	7168	95.1	7045	117.5					