

PERMANENT MAGNET AIR COMPRESSOR



BTD PM Series

Frequency changer advantages

Motor starts smoothly, little impact on the power grid. small damage on motor itself Reduce the motor working voltage and realize the energy-saving efficient under small gas consumption by reducing the operating frequency Reach the balance quickly by increasing or decreasing the operating frequency. Under large consumption, air compressor can achieve maximum rated discharge capacity: If small, it can reduce exhaust emission that is still enough users.

Efficient permanent magnet motor(PM motor)

The PM motor equipped is much better energy saving than ordinary frequency conversion motor and could, especially at low speed, keep high motor efficiency. The motor has a small size about 1/3 of ordinary frequency conversion motor and is easy to install and uninstall.

product parameters

Screw air compressor

Technical Data											
Model	Discharge Capacity (m³/min)				Motor Power (KW/HP)	Noise Level dB(A)	Outlet Connection	Dimension (mm)			Weight (Kg)
	7bar	8bar	10bar	13bar				L	W	H	
Direct coupling type											
BTD 7.5A PM	1.2	1.15	0.85	0.65	7.5/10	66±2	G1/2"	900	620	820	165
BTD 11A PM	1.91	1.71	1.47	1.18	11/15	66±2	G1"	1100	720	850	230
BTD 15A PM	2.52	2.27	1.98	1.59	15/20	66±2	G1"	1100	720	850	286
BTD 18.5A PM	3.07	2.85	2.42	2	18.5/25	66±2	G1"	1300	800	990	315
BTD 22A PM	3.8	3.4	3	2.4	22/30	68±2	G1"	1300	800	990	325
BTD 30A PM	5.1	5.0	4.2	3.5	30/45	70±2	G1"	1380	850	1000	390
BTD 37A PM	6.1	6.05	5.2	4	37/50	70±2	G1-1/2"	1520	900	1140	550
BTD 45A PM	7.2	7.1	6.35	5	45/60	70±2	G1-1/2"	1520	900	1220	745
BTD 55A/W PM	9.35	9.25	7.5	6.4	55/75	70±2	G2"	1900	1300	1500	1000
BTD 75A/W PM	12.1	12.0	10.0	9	75/100	72±2	G2"	1900	1300	1500	1225
BTD 90A/W PM	15.1	15.0	12.0	11	90/120	72±2	G2"	1900	1300	1500	1650
BTD 110A/W PM	21.76	21.7	18.75	14.8	110/150	72±2	DN65	2200	1540	1800	2350
BTD 132A/W PM	24.5	24	20.5	17.8	132/175	72±2	DN65	2200	1540	1800	2555
BTD 160A/W PM	27.3	27.2	22.5	21.3	160/215	72±2	DN80	2700	1700	2000	3100
BTD 185A/W PM	29.5	29.4	27.0	22.3	185/250	72±2	DN80	2700	1700	2000	3600
BTD 200A/W PM	35.2	34.8	28.6	26.5	200/270	85±2	DN80	3400	2100	2300	4800
BTD 220A/W PM	38.3	38.1	29.2	28.86	220/300	88±2	DN100	3400	2100	2300	4900
BTD 250A/W PM	42.2	42	37.68	32.3	250/355	88±2	DN100	3400	2100	2300	5100
BTD 280A/W PM	52	50.6	42	35.5	280/375	88±2	DN125	3400	2100	2300	5200
BTD 335A/W PM	64.5	62	57	42.8	355/450	88±2	DN125	3400	2100	2300	7200



Two-Stage PM screw air compressor

Technical Data											
Model	Discharge Capacity (m³/min)				Motor Power (KW/HP)	Power V/Pb/Hz	Outlet Connection	Dimension(mm)			Weight (kg)
	7bar	8bar	10bar	13bar				L	W	H	
Direct coupling type											
BTD15A II PM	3.1	2.8	2.5	2.3	15/20	380/3/50 or customized	G1"	1450	920	1140	590
BTD18A II PM	3.5	3.4	2.7	2.4	18/25	380/3/50 or customized	G1"	1450	920	1140	590
BTD22A II PM	4.1	4	3.4	2.6	22/30	380/3/50 or customized	G1"	1450	920	1140	590
BTD30A II PM	5.94	5.89	4.04	3.87	30/40	380/3/50 or customized	G1-1/2"	1750	1100	1250	890
BTD37A II PM	6.88	6.82	5.74	5.27	37/50	380/3/50 or customized	G1-1/2"	1750	1100	1250	890
BTD45A II PM	9.08	9.02	7.02	6.84	45/60	380/3/50 or customized	G2"	1850	1200	1500	1260
BTD55A II PM	12.15	12.12	10.22	8.8	55/75	380/3/50 or customized	G2"	2100	1400	1700	1700
BTD75A II PM	15.19	15.15	14.15	11.93	75/100	380/3/50 or customized	G2"	2100	1400	1700	1700
BTD90A II PM	19	18.9	16	15.08	90/120	380/3/50 or customized	DN65	2500	1600	1800	2050
BTD110A II PM	22.38	22.27	20.2	18.7	110/150	380/3/50 or customized	DN65	2500	1600	1800	2200
BTD132A II PM	26.53	26.39	23.69	20	132/175	380/3/50 or customized	DN65	2500	1600	1800	2400
BTD160A II PM	32.19	32.05	30.84	26.71	160/215	380/3/50 or customized	DN80	3000	2000	2100	3500
BTD185A II PM	38.63	38.54	34.89	30.31	185/250	380/3/50 or customized	DN100	3000	2200	2295	4900
BTD200A II PM	41.1	41	38.35	30.7	200/270	380/3/50 or customized	DN100	3000	2200	2295	4900
BTD220A II PM	43.85	43.75	40.8	34.36	220/294	380/3/50 or customized	DN100	3000	2200	2295	4900
BTD250A II PM	52.7	52.5	46	40.6	250/355	380/3/50 or customized	DN125	3700	2200	2400	6300
BTD280A II PM	59.84	56.12	54.15	44.85	280/375	380/3/50 or customized	DN125	3700	2200	2400	7800
BTD315A II PM	63.8	63.5	55.95	50.59	315/420	380/3/50 or customized	DN125	5000	2300	2500	7800
BTD355A II PM	81	80.67	70.69	63.87	355/450	380/3/50 or customized	DN150	5000	2300	2500	12600

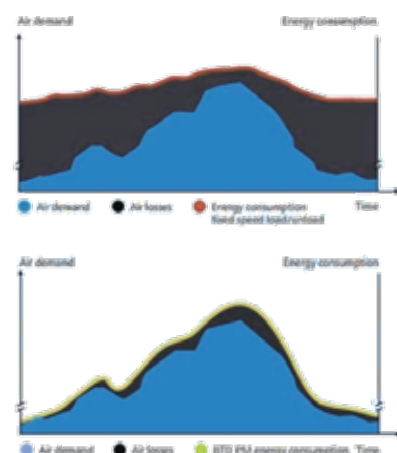
Special air compressors and hydraulic motor driven air compressors can be customized according to customer requirements



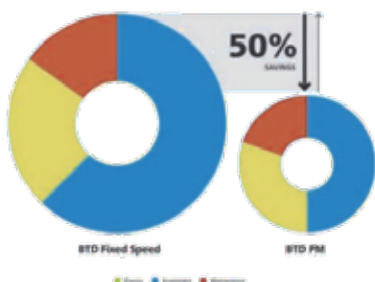
BTD PM Series

PM VSD for 50% average energy savings

Bestrand's PM Variable Speed Drive(VSD) technology closely matches the air demand by automatically adjusting the motor speed. Combined with the innovative design of the PM (Permanent Magnet) motor, this results in average energy savings of 50% and an average reduction of 37% in the life cycle cost of a compressor.



Why Bestrand choose PM VSD technology?



On average 50% energy savings with an extensive flow range (20-100%) Integrated Elektronikon® Touch controller controls the motor speed and high-efficiency frequency inverter. No wasted idling times or blow-off losses during operation..Compressor can start/stop under full system pressure without the need to unload. Eliminates peak current penalty during start-up..Minimizes system leakage due to a lower system pressure. EMC compliance to directives (2004/108/EG)*Compared to fixed speed compressors, based on measurement Performed by an independent energy audit agency

Permanent Magnet (PM) series

In almost every production environment, air demand fluctuates depending on different factors (time of the day, week or even month). Extensive measurements and studies of compressed air demand profiles show that many compressors have substantial variations in air demand. Only 8% of all installations have a more stable air demand. Tests prove that, even in this case, PM compressors save energy





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