



Air Motors/Gearmotors

Known industry wide for their rugged construction and reliability, Gast Air Motors and air powered Gearmotors are available in lubricated or oilless models.

Lubricated Air Motors come in seven basic models up to 9.5 HP (7,1 kW); motor speeds are variable from 300 to 10,000 RPM. Oilless versions, which require absolutely no lubrication, come in three basic models ranging from .18 to .82 HP (0,13 to 0,61 kW) and with motor speeds up to 4,000 RPM. Choose from hub, foot, face, NEMA C-Flange, or Metric D Series interface mountings and clockwise, counter-clockwise, or reversible rotations; four and eight vane models are also available.

Air powered Gearmotors are available in right-angle and in-line models offering a maximum torque range of 73 to 5,200 lb.in. (8 to 587 Nm) and gear ratios from 10:1 to 60:1 single reduction gear reducers. A full line of recommended accessories is also available.

Performance

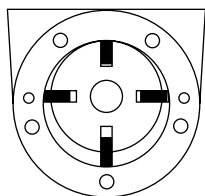
- Up to 9.5 HP (7,1 kW)
- Variable speeds to 10,000 rpm
- Gearmotor maximum torque to 5200 lb.in. (587 Nm)

Features

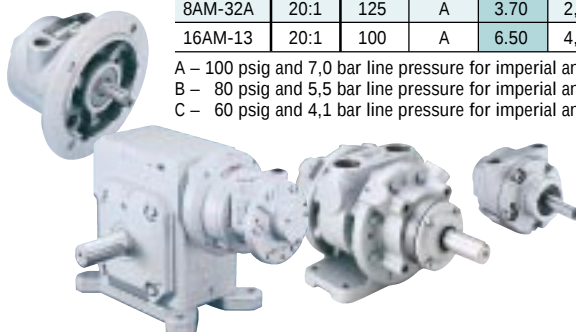
- Variable Speed
- Non-Electrical Sparking
- Cool Running
- Compact and Portable
- Operate in All Positions
- Mounting Flexibility
- Will Not Burn Out

Typical Applications

- Mixing Equipment
- Conveyor Drives
- Pump Drives
- Food Packaging
- Pharmaceutical Packaging
- Hoists and Winches
- Hose Reels
- Fiberglass Choppers
- Tension Devices
- Turntables



Compressed air into an air motor forces the sliding vanes out of the eccentric-mounted rotor. An extended shaft on the rotor spins to perform the work.



AIR MOTORS

MODEL	OPERATING DATA							MAXIMUM TORQUE		
	MAX. SPEED	OUTPUT POWER		TORQUE		MAX. AIR CONSUMPTION		MAX. SPEED		
	rpm	hp	kW	lb. in.	Nm	cfm	m³/h	rpm	lb. in.	Nm
1AM (A)	10,000	0.45	0,33	2.75	0,31	20.5	35,1	650	5.6	0,65
1UP (B)	6,000	0.45	0,33	5.25	0,58	27	47	500	6.00	0,68
2AM (A)	3,000	0.93	0,68	19.50	2,20	30	49,5	350	26.10	3,05
4AM (A)	3,000	1.70	1,30	36.00	4,1	78	132,5	300	62.00	7,05
6AM (A)	3,000	4.00	3,00	84.00	10,00	128	228	300	115.00	13,00
8AM (A)	2,500	5.25	3,90	132.00	14,40	175	293	300	185.00	21,00
16AM (A)	2,000	9.50	7,10	290.00	34,00	275	475	300	372.00	43,00
•NL22 (B)	4,000	.18	0,13	2.80	0,32	18.5	31	1000	4.30	0,49
•NL32 (B)	2,000	.42	0,31	13.50	1,5	30	51	300	21	2,5
•NL42 (B)	2,000	.82	0,61	25.50	2,90	41	70	500	44	5,0

•=Oilless Models

GEARMOTORS

MODEL	GEAR RATIO	MAX. SPEED rpm	LINE PRES.	OPERATING DATA						MAXIMUM TORQUE		
				OUTPUT POWER		TORQUE		MAX. AIR CONSUMPTION		MAX. SPEED		
				hp	kW	lb. in.	Nm	cfm	m³/h	rpm	lb. in.	Nm
1AM-NRV	15:1	350	A	0.34	0,26	62	7,1	21.0	36	30	72	8,1
1UP-NRV	15:1	400	C	0.32	0,23	49	5,5	21.0	36	30	71	8,0
4AM-RV	10:1	300	B	1.26	0,94	274	31,0	57.5	98	30	425	48,0
4AM-RV	15:1	200	B	1.25	0,90	400	45,2	60.0	102	20	640	72,0
4AM-70C	20:1	150	A	1.17	0,87	487	55,0	71.0	120	15	740	83,6
4AM-70C	40:1	75	A	0.95	0,71	800	90,4	71.0	120	7	1255	141,8
4AM-70C	60:1	50	A	0.82	0,61	1040	117,5	71.0	120	5	1640	185,3
6AM-22A	10:1	300	A	3.40	2,54	720	81,4	130.0	221	30	950	107,4
6AM-22A	20:1	150	A	2.65	1,98	1100	124,3	130.0	221	15	1550	175,6
6AM-22A	40:1	75	A	2.10	1,57	1725	194,9	135.0	230	8	2500	282,5
8AM-32A	20:1	125	A	3.70	2,76	1850	209,1	177.0	301	15	2550	288,2
16AM-13	20:1	100	A	6.50	4,85	4175	471,8	275.0	468	15	5175	584,8

A – 100 psig and 7,0 bar line pressure for imperial and metric data, respectively.

B – 80 psig and 5,5 bar line pressure for imperial and metric data, respectively.

C – 60 psig and 4,1 bar line pressure for imperial and metric data, respectively.