TONSON Australia (SAMT) Pty Ltd.
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User's Manual for Tonson Air Motor

A. Make sure the compressed air is clean and doesn't contain water.

B. Hose and valve maintain sufficient size to ensure air fluency.

C. FRL is a must equipment to prolong motor life and lubricated automatically.

D. Never install motor with shaft facing up. If there is need for such installment, please inform Tonson manufacturer beforehand to use dry lubrication.

Motor lubrications:

Model	Drops/min
V2 & M1	1-2
M2	1-2
M3	1-2
M4	1-2
M5	2-3
M6	2-3
M7	3-4
M9	2-3
M10	2-3
M11	3-4
M12	4-5
M13	4-5
M18	5-6

Recommended lubrication Oils:

Shell	TELLUS 100	TELLUS 37
B.P.	ENERGOL HL175	ENERGOL HLP65
Esso	NUTO H.64	FANOX 38
Regent	REGAL PE.RO	RANDO'A'
Castrol	HYSPIN 175	HYSPIN 70
Mobil	D.T.E. EXTRA HEAVY	ALMO OIL NO.1

Operating Precaution:

1. **Connection of coupling between shaft and shaft of material must be concentric**
2. **Foreign matters including dust are mainly the cause of pneumatic equipment problem. Thoroughly clean the interior of the pipe with compressed air to remove unwanted matters.**
3. **Filter, regulator, lubricator and direction switch valve should be installed as close as possible in the airline ahead of air motor.**
4. **Airline must be installed with filter to remove contaminant.**
5. **Airline must be installed with lubricator with lubricating oil as listed above (2-3 drops per minute for M5 – Piston Air Motor)**
6. **Use the pressure regulator to control the pressure at desired rate. Direct pressure supply from compressor results in unsteady flow of air.**
7. **Inspect the F.R.L regularly and replenish with lubrication oil as needed.**
8. **Never use smaller bore than the air motor for piping. It will cause large pressure loss and undesired output.**
9. **Always check to see if direction of rotation and connection of coupling are right.**
10. **Air/pressure control must be installed and adjusted from the prior to inlet not exhaust to prevent back pressure.**
11. **For operation adjust the valve slowly to the desired speed, make sure never to exceed the maximum operating pressure of the motor**
12. **Make sure the exhaust is equipped with a proper exhaust muffler.**

Warning!!

Insufficient lubrication oil will cause:

1. **Reduction of motor life**
2. **Damage internal parts**

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