

User's Manual

QA-163/163L

AIR DIE GRINDER

Read this manual carefully before installing, operating, servicing or repairing.

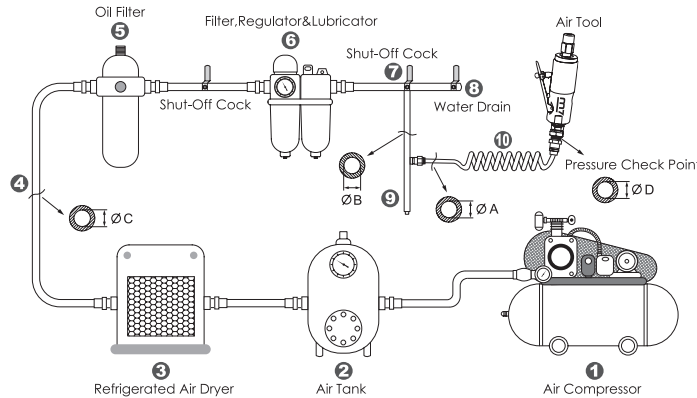
Working environment:

1. Using these tools in any potentially explosive environment is strictly prohibited.
2. It is always recommended that these types of tools must be operated when standing on a solid or firm location.
3. Always use these tools in a well ventilated area.
4. Slipping, stumbling and falling are the major causes of potential serious injury, therefore, a clean and clutter free surface in the working area before operating the tools is strongly recommended.

Air supply and connection requirements:

1. The maximum recommended air pressure during operation must not exceed 90 psi (6.3bar). Higher air pressure may create unsafe operating conditions for the tool and the user.
2. The compressed air should be cooled and have a water filter installed at the outlet end of the compressor. Even with a water filter installed, some water may still condense in the piping or hose and will enter the tool mechanism causing premature damage to the tool. Therefore, it is recommended to install an air filter-lubricator device somewhere between the tool and the compressor.
3. Always use an air compressor of the proper capacity to operate each tool.
4. Clean the hose with a blast of compressed air before connecting the hose to the air tool. This will prevent both moisture and dust inside the hose from entering the tool and causing possible rust or malfunction.

Ideal system connection:



Piping diameters and length requirement:

- ★The diameter ΦA required for the inlet pipe (10) is recommended on the specification table.
- ★The diameter ΦB required for the branch pipe (from 7 to 9) should be 2 times as large as ΦA . $\Phi B = 2 \times \Phi A$
- ★The diameter ΦC required for the primary air supply (from 1 to 3) should be 3 times as large as ΦA . $\Phi C = 3 \times \Phi A$
- ★The length for the inlet pipe (10) should be less than 15 feet (4.5m).

Warning:

1. This tool should only be used as a hand operated tool. It is powered by compressed air and is not insulated against electric shock.
2. This tool is specially designed for tightening or loosening bolts or nuts. Any application or use of this tool other than what it is designed for is strictly prohibited.
3. Use only pneumatic impact sockets and accessories on this tool. Never use hand sockets or accessories.
4. High sound levels may cause hearing damage. Always wear hearing protection when operating this tool.
5. Wearing eye/face protection can reduce the danger of high-speed socket being ejected from the tool, due to improper socket insertion during operation.
6. User must wear proper clothing. Loose clothing, long hair, stings, straps, belts and jewelry should not be worn when operating this tool.
7. Before using these tools, make sure that all couplings and plugs are securely mounted. Air hoses which are under pressure will cause a whipping action when disconnecting, this can lead to serious injury!
8. Make certain to stand on a solid or firm location and keep body in well-balanced position while operating this tool.
9. Test run the tool to confirm the rotation direction before practical use. This will reduce the potential hazard due to unexpected rotating direction.
10. In case of tool insert failure, always keep hands away from rotating socket to reduce the risk of being injured, especially when working in confined spaces.
11. Always turn off the air supply and disconnect the air hose before changing socket or making adjustments on the tool.
12. Release the throttle trigger to avoid danger if there is a failure of energy supply and when connecting or disconnecting the air hose.
13. Prolonged use will cause user fatigue. Periodic breaks are recommended for user safety.
14. It is recommended to stop operating the tool whenever the user experiences discomfort, tingling or pain during use.
15. Beware if the compressed air hose breaks unexpectedly, or is being connected or disconnected improperly. This whipping action may cause injury.
16. Always use caution when operating this tool to prevent injury.
17. Avoid storing this tool where it is subject to high humidity.



EC DECLARATION OF CONFORMITY

Original Language
Serial Number: Air Die Grinders
Item No.: QA-163 QA-163L
6.3 bar (90. psi)

We declare under our own responsibility that the above machinery fulfils all the relevant provisions of (MD) Machinery Directive 2006/42/EC and its amendment and is manufactured and tested according to the following standards:
EN ISO 11148-9 / EN ISO 15744 / EN ISO 28927-12

Declared in: Taichung, Taiwan
Dated: 2013/06/01

Signature

Jonney Chen

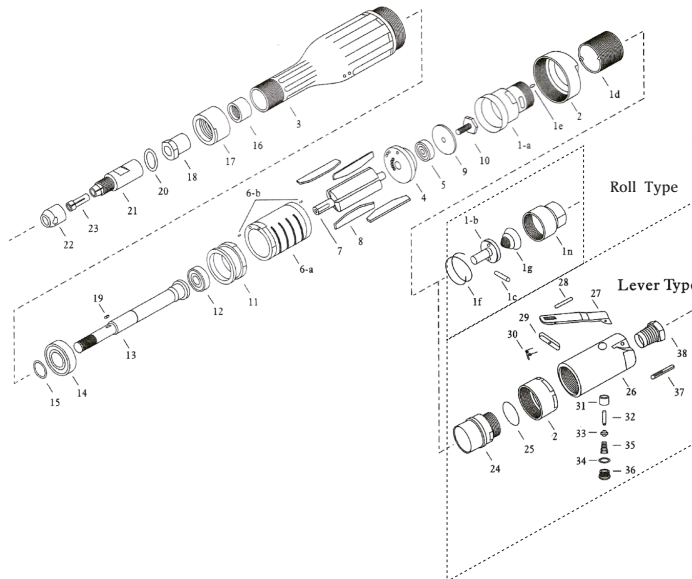
Jonney Chen
Declared by: QA Manager

Manufacturer:
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Air Die Grinder
Item No : QA-163 / QA-163L



Part List QA-163 / QA-163L

NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1A	QA-163P01	Handle C.P.	1	15	QA-163P15	Snap Ring	1
1B	QA-163P01A	Handle	1	16	QA-163P16	Needle Bearing 1220	1
1B	QA-163P01B	Throttle Valve	1	17	QA-163P17	Spindle Case Nut	1
1C	QA-163P01C	Throttle Valve pin	1	18	QA-163P18	Stone Frange	1
1D	QA-163P01D	Grip	1	19	QA-163P19	Key	1
1E	QA-163P01E	Spring Pin (2*6)	1	20	QA-163P20	Collet Washer	1
1F	QA-163P01F	Throttle Valve Handle Spring	1	21	QA-163P21	Collet Body	1
1G	QA-163P01G	Throttle Spring	1	22	QA-163P22	Collet Nut	1
1H	QA-163P01H	Inlet Bushing	1	23	QA-163P23	Reducing Collet 3mm	1
2	QA-163LP02	Lock Nut	1	24	QA-163LP24	Housing Cover	1
3	QA-163P03	Rotor Case	1	25	QA-163LP25	O ring	1
4	QA-163P04	Top Plate	1	26	QA-163LP26	Handle	1
5	QA-163P05	Ball Bushing 608	1	27	QA-163LP27	Lever	1
6	QA-163P06	Cylinder C.P.	1	28	QA-163LP28	Spring Pin	1
6A	QA-163P06A	Cylinder	1	29	QA-163LP29	Lock key	1
6B	QA-163P06B	Cylinder Pin	1	30	QA-163LP30	Lock Spring	1
7	QA-163P07	Rotor	1	31	QA-163LP31	Throttle Bushing	1
8	QA-163T08	Vane (4 pcs)	1 SET	32	QA-163LP32	Pin	1
9	QA-163P09	Top Plate Washer	1	33	QA-163LP33	Throttle Valve	1
10	QA-163P10	Lock Screw	1	34	QA-163LP34	T.V.cover Packing	1
11	QA-163P11	Bottom Plate	1	35	QA-163LP35	Throttle Valve Spring	1
12	QA-163P12	Ball Bearing 629	1	36	QA-163LP36	Throttle Valve Cover	1
13	QA-163P13	Stone Spindle	1	37	QA-163LP37	Spring Pin	1
14	QA-163P14	Ball Bearing 6002	1	38	QA-163LP38	Inlet Bushing	1

Item No.	Collet Size mm(inch)	Free Speed R.P.M	Avg. Air Consumption CFM	Air Pressure PSI	Overall Length mm	Motor hp	Net Weight kg	Air Hose inch	Sound Pressure dB(A)	Vibration level m/s²
QA-163	6	16000	5.0	90	305	0.9	1.2	3/8"	75.0	2.8
QA-163L	6	16000	5.0	90	350	0.9	1.3	3/8"	75.0	2.8

Uncertainty K=0.5a if a ≤ 5 m/s² or K=0.4a if a > 5 m/s²