



## Operation and Maintenance Guide



LG 25K

Models	Descriptions	IMPA Code
LG 25K	Pneumatic Die Grinder	59 03 26

Read this manual carefully before installing, operating or servicing this equipment. It's the responsibility of the employer to ensure this manual is read by the operator. Please preserve this manual.

This document is issued with Product Serial No

## Table of Contents

3	Introduction
3	Technical Data
3	Intended Use
3	Safety Instructions
4	Maintenance
5	Lubrication Requirements
6	Test Certificate Of Materials, Performance
7	Eu Declaration Of Conformity
8	Warranty CertificateTY

## Introduction

Teryair Pneumatic Die Grinders are used either with tungsten carbide burrs or mounted points. They are compact & easy to handle air tools designed for, grinding small casting, removing welding slags and sharpening & finishing wood, glass & plastic.

## Technical Data

Teryair Model No	IMPA Code	Collet Chuck Size mm	Free Speed R.P.M	Air Inlet	Air Hose mm	Weight Kgs
LG 25K	59 03 26	3/6	25,000	1/4"	9.5	0.53

## Intended Use

These grinder are precision engineered products. They have been carefully designed and built to withstand severe conditions of service. They will function efficiently and remain trouble - free for extended periods of use, provided a system of routine inspection and preventive maintenance is implemented. Departure from any of the instructions/recommendations contained in this manual will invalidate any warranty. Compact and easy to handle air tool designed for precision grinding, reshaping of machine parts, grinding small castings removing welding slags and sharpening and finishing wood , glass and plastic.

## Prohibitive Use

- Pneumatic die Grinder is prohibited to be used from purpose other than mentioned in intended use. Following safety precautions should be taken
- Wear appropriate personal protective equipments.
- Do keep hand & clothing away from moving parts.
- Pneumatic die grinder should be stored in dry environment.
- Do not allow the pneumatic die grinder to run unattended.
- Do not modify this pneumatic die grinder. Please check the hose connection prior to starting the pneumatic grinder.

## Safety Instructions

- Always wear suitable protection such as 'eye goggles' ear muffs' safety shoes etc. to safeguard against possibility of flying particles etc.
- Never operate faster than its rated speed. The retaining wheel nut should be securely tightened on the spindle using the wrench, to avoid spin - off when the throttle is closed. Never operate the grinder over the rated 7 bar air pressure. Do not exert excessive pressure against the work surface. Keep hoses in good condition. Check hoses for signs of wear and ensure that they are secure. Accidental disconnection while hose is pressurized can make the hose whip and can be a safety hazard
- When starting the tool with a new or different grinding wheel, hold tool under a bench or in a manner, which will avoid the path of, broken wheel parts should the wheel be defective.
- Avoid in - haling dust resulting from grinding operation by using an approved dust mask or dust exhaust system.
- Only well- instructed personal should operate the tool. Any integral part of this tool should not be removed for independent use or for any other application. Always observe safe working practice and local safety regulation at all times. Do not use this tool in wet location. Do not expose to rain. Do

not modify the tool and also do not use it for any heavy work more than for which it is intended for. Disconnect the tool from air supply when not in use. Do not use in appropriate attachment in an attempt to exceed max. capacity of the tool.

## Daily Before Operation

With no wheel on tool, check spindle speed with a tachometer. Check that the grinding wheel or wire brush which is to be used with the tool are in good condition and rated at or above actual spindle speed. Disconnect and pour in 1 to 2 ounces of recommended oil into the tool and reconnect hose line.

## Air Supply

LG-25K grinder work best at 5 to 7 bar air pressure. The air should be clean, dry and lubricated. Install a FRL unit as close to the tool as operation will permit.

## Maintenance

1. To dis-assemble LG-25 K die grinder, with help of spanner provided, hold collect nut (33), and unscrew it. Hold housing (18) in soft jaw rather lightly and unscrew retainer (31 ), unscrew housing cap (32) Pull out collect (30) from spindle (29) Pull out spindle(29) along with complete assembly Hold across flats provided on spindle (29) with help of spanner, unscrew and remove it.(29). Support front end plate (27) and tap out rotor (24) so that washer (25) will come out. If necessary, tap out bearing(28) slide out cylinder (22) and remove rotor blades (23), Now support rear end plate (20) and tap out rotor (24) If necessary remove bearing (19) Tap out spring pin (4) and remove throttle lever(3) . If required tap out spring pin (5) and carefully take out spring (6), safety stick (7) and washer (8) Unscrew inlet bushing
2. (1) and take at exhaust deflector (2) valve bushing (9) is press lifted in housing (18) To remove valve parts, unscrew valve screw
- (17) and remove 'O' rings (15),(16) take out Air Regulator (14) spring (13) Pull out throttle valve (12) along with 'O' ring (10),(11)
3. Thoroughly wash all components in kerosene to remove all traces of dirt. Examine components closely and replace those, which appears worn-out or damaged. Check ball bearings for rough, bumpy action for excessive play, coat all components with recommended lubricant and reassemble carefully in reverse sequence. Test grinder for its free speed throttle initially before giving full power.

## Lubrication Requirements

Always install a line lubricator on the air line as close to the tool as possible. A Filter Regulator Lubricator unit (FRL) is strongly recommended. Keep the lubricator bowl topped up with recommended grade of oil and check that the oil is reaching the tool. Running the tool without lubrication is likely to cause damage to the components causing premature replacement. Use good quality of ball bearing grease in open bearings.

## Suggested Lubricants

Brand	Above 27°C / 80°F	5°C to 27°C / 41°F to 80°F	Below 5°C / 80°F
Shell	Toona R 72	Toona R 41	Toona R 27
Mobil	Almo 529	Almo 527	Almo 525
Esso	--	Arox EP.65	Arox EP.45
Caltex	Rando Oil 100	Rando Oil 100	Rando Oil 46
Cp	--	--	Airolene Tool Oil
Texaco	Regal Oil F (R&O)	Regal Oil PE(P&E)	Regal Oil PE(R&O)
Daltron	Silkolene 881	Silkolene 548/T	Silkolene 733
Burmah Castrol	Castrol RD Oil 3	Castrol RD Oil Light	Megna SPX
Duckham	Garnet 7	Garnet 6	Zero Fio 5
Sternol	Merlin 87	Merlin 71	Merlin 54
Petrolina	Purifoc 53	Purifoc 46	Purifoc 32
Chevron	Vistac Oil 18X	Vistac Oil 19X	Vistac Oil 9X
Indoil	Servo Spyn -22	--	--

Trouble	Probable cause	Solution
Motor failure Grinder do not run	Lowered compressor out put	Check air pressure. For rated performance 5-7 bar air pressure is required at tool
Drop in air pressure	Hose pipe size not proper	Use recommended Hose size
	Improper connection size	Use proper connection
Wet or dirty air comes out from exhaust		Check for wet or dirty air, Wet air tends to washaway I ubricant from motor and tends to rust and corrode the tool Disconnect tool and pour a liberal quantity of recommended lubricant.

## TEST CERTIFICATE OF MATERIALS, PERFORMANCE

Date :

Model number :

Part description & s.No. :

We hereby certify that the above referenced product has tested and inspected in accordance with our standard test procedures and meets the specifications for material and performance values as published in our literature. We further certify that the product has been given our standard factory test and meets all quality and performance standards established by the company. This product is certified to be produced in our factory, and is of current production.



Authorised Signatory

Q.A Manager

Place - Vasai, Maharashtra

## EU DECLARATION OF CONFORMITY

We hereby certify that the Listed Product stipulated below comply with all relevant provisions of the machinery directive (2006/42/EC) and the national laws and regulations adopting this directive.

Description :  
Model Number :  
Date :  
Serial Number :

Is in conformity with the provisions of the following European Directives: (2006/42/EC) Machinery Safety and Harmonized standards

ISO 12100-1: 2010: Safety of Machinery –general Principles for Design –Risk Assessment and Risk Reduction.

Registered Office : 416 Gundecha Industrial Complex, Akuril Road,  
Kandivali East, Mumbai – 400101, Maharashtra, India.  
Web site : [www.teryair.com](http://www.teryair.com)  
Works : A-1, Tirupati Udyog Nagar, Sativali Road, Vasai East,  
Palghar – 401208, Maharashtra, India.

CE certification registration no – C E 16832

Issued by – BMQR Certifications Pvt Ltd.  
[www.cemarking-india.com](http://www.cemarking-india.com)

Valid Till – 03/11/2021

Signed for and on behalf of



TERYAIR EQUIPMENT PVT. LTD.

Place of Issue:  
Date:



# Warranty Certificate

Every product manufactured by Teryair is built to meet the highest standards of quality.

Teryair warrants that the Products, accessories and parts manufactured or supplied by the company be free from defects in material and workmanship for a period of six months from date of Teryair authorized dealer invoice to customer, or one year from date of Teryair invoice to dealer, whichever is earlier. Failure due to normal wear, misapplication, or abuse is, of course, excluded from this warranty.

Since the use of Teryair products and parts is beyond our control, Teryair cannot guarantee the suitability of any product or part for a particular application and Teryair shall not be liable for any consequential damage or expense arising from the use or misuse of its products on any application. Teryair does not warranty bought out products or components such as electric motors and hardware but will assist in directing warranty queries to the dealer/manufacturer responsible. Teryair responsibility is limited solely to replacement or repair of defective Teryair products or components.

Dealer/End User shall have no right or remedy and Teryair shall have no liability or obligation under the warranty, if: (i) a Product is altered, changed, modified or tampered with in any way, (ii) a Product is damaged after deposit with the transporter for shipment; (iii) a Product is not properly preserved, packaged, stored, processed or handled after receipt; (iv) a Product is not used and maintained in accordance with Teryair's recommended operating and maintenance manuals, instructions and procedures, if any; (v) a Product is not properly incorporated or installed in, or not properly combined with, an Other Product; (vi) the issue with a Product is directly or indirectly attributable to, or directly or indirectly results from or arises out of, a failure, substandard performance or other issue with another product, material, component or part not supplied by Teryair; (vii) the issue with a Product is directly or indirectly attributable to, or directly or indirectly results from or arises out of, compliance with any design, specification or other specific requirement of Dealer/End User; (viii) a Product is used in a manner, with a substance or for a purpose other than the normal manner, substance and purpose for which it is intended or is otherwise subjected to abnormal use or service; (ix) a Product is subjected to a power surge, brown out or other similar occurrence; (x) the issue with a Product is directly or indirectly attributable to, or directly or indirectly results from or arises out of, normal wear and tear of such Product (including, without limitation, things such as worn seals, diaphragms, balls, O rings, gaskets, chisels, cutters, hoses and other such wearing components; (xi) the issue with a Product is directly or indirectly.

Dated :  
Product Model Number :  
Product Serial Numbar :

Ajay Bhagat, Q.A. Manager

(Company Seal)



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