KOBE INDUSTRIAL AIR TOOLS

THE ENVIRONMENT

Always dispose of unwanted tools, accessories and packaging materials in an environmentally friendly manner.

In observance of European Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE) and its implementation in accordance with national law, electrical goods that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

Do not dispose of electrical goods with domestic waste materials as inappropriate disposal may cause potential hazards to the environment and human health.

For further information, please contact your local authority or the retailer from whom you purchased the product.

RoHS

This product does not contain any restricted substances in concentrations and applications which are banned by the European RoHS2 Directive.

DECLARATION OF CONFORMITY

We hereby certify that KOBE 90° ANGLE DIE GRINDER

(ORDER CODE: KBE-270-4080K)

complies with all the relevant provisions of the

Machinery Directive: 2006/42/EC

Standards Applied:

EN ISO 12100:2010, EN ISO 11148-9:2011 , EN ISO 15744:2008 & ISO28927-12:20212

Signed:

Date: 28th October 2020

Name: Toni Johnson

Position: Compliance Director

KOBE TOOLS
P.O. Box 14, Wigston, Leicester, England LE18 1AT.

CE

QUALITY GUARANTEE & WARRANTY

KOBE INDUSTRIAL AIR TOOLS carry a one year manufacturer's warranty.

KOBE INDUSTRIAL AIR TOOLS are designed & manufactured to the highest standards & specifications
Assuring the quality and performance required by all sectors of industry.

KOBE INDUSTRIAL AIR TOOLS are fully guaranteed against faulty materials & workmanship.
Should they be found to be defective, they will either be repaired or replaced free of charge (fair wear and tear and/or misuse excepted).

Please retain supplier invoice as proof of purchase.

KOBE TOOLS OFFICIAL AGENT: THE KENNEDY GROUP, P.O. Box 14, Wigston, Leicester, England LE18 1AT
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KOBE™
INDUSTRIAL AIR TOOLS

90° ANGLE DIE GRINDER
6mm (¼") - 20,000rpm

MODEL: B3144

ORDER CODE: KBE-270-4080K



- **Use for grinding, polishing, buffing and deburring**
- **The 90° angle allows you to reach the more confined areas**
- **Reversible hardened steel 6mm (¼") collet**
- **Short body length allowing access into hard to reach areas**
- **Planetary gears for longer life and smoother running**
- **Low profile teasing throttle for precise speed control**
- **Rotating air inlet to prevent the air hose tangling**

CE

WARNING: THE SAFETY INFORMATION GIVEN INSIDE MUST BE READ AND UNDERSTOOD BY ANY PERSON USING, INSTALLING, REPAIRING OR MAINTAINING THESE PRODUCTS.

OPERATOR'S MANUAL

Please retain this information for future reference.

SAFETY INSTRUCTIONS

You have purchased a quality product that is designed for high performance and long service life. If correct use, safety and maintenance procedures are observed this machine will last for many years.

KOBE INDUSTRIAL AIR TOOLS have been specifically designed to help you work **SAFELY** and **EFFICIENTLY**. Your care and good judgement are the best protection against injury, but always ensure that the appropriate safety equipment is worn. All possible hazards cannot be covered here, but the most important ones have been highlighted.

- Always adhere to the processes and safety warnings, which are stated in the instruction manual.

GENERAL OPERATING HAZARDS

- Always ensure all users are physically able and competent to handle the size, weight and power of the tools and have received appropriate training to perform the task.
- Always avoid accidental starting of the tool by disconnecting it before replacing accessories or repairing.
- Always be aware of the tool rundown time.
- Never allow routine to lead to mistakes.
- Never operate if any parts are missing or damaged.
- Never allow untrained persons to operate the tool.

WORKPLACE HAZARDS

- Always ensure your working area is clean and well lit.
- When working at height make sure that the tool is safely secured and be aware of objects falling below. Make sure that no persons are working directly below the working area.
- Do not operate in explosive atmosphere, for instance extreme dust, gases and liquids.
- Keep children and bystanders away while operating the tool. Distractions can cause you to lose control.
- Never run the tool in areas exposed to water or in damp conditions.

PERSONAL PROTECTION

- Always wear approved eye protection during operation. Use safety glasses or goggles which conform to BSEN136 or CE equivalent that provide protection from the front and side. The operator of the power tool is responsible for following accepted eye, face, respiratory, hearing and body protection.
- Always ensure that all long hair and loose clothing, ties, scarves, jewellery, etc., are secured or removed.
- Always consult a doctor if numbness, tingling, pain or whitening of the skin occurs. Repetitive work motions, awkward positions and exposure to vibration can cause “Repetitive Strain Injuries”.
- When operating the tool stay alert and use common sense, especially when it comes to working at height. Be aware of what’s below you.
- Do not overreach. Keep a proper balance and footing at all times.
- Do not use the tool if under the influence of alcohol, drugs or medication.

SPECIFIC SAFETY INSTRUCTIONS

- Always ensure all accessories are rated to the “Free” speed of the air tool and intact before fitting or using.
- Always use air tool attachments that are in good condition and are designed to be used with the tool.
- Always be aware of the risk of crushing between the tool and the workpiece due to sudden movement or reaction forces.
- Always shut off air supply, drain hose of air pressure and disconnect tools from air supply when not in use, before changing accessories or when making repairs.
- Never apply additional or over excessive force to the air tool.

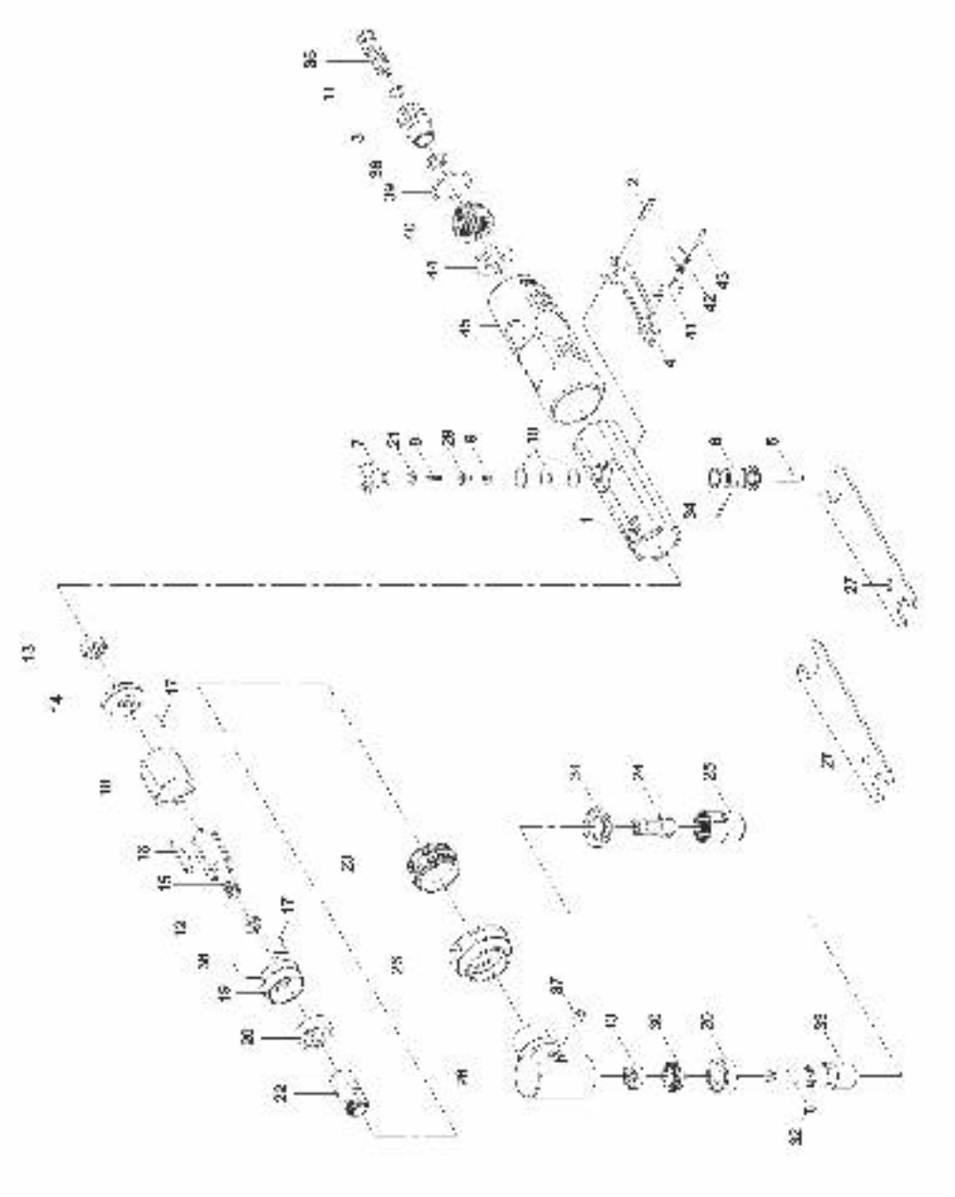
PARTS BREAKDOWN

INDEX NO.	ORDER CODE	DESCRIPTION
01	KBE-298-5822C	Motor Housing
02	KBE-298-9302S	Lever Pin (3x18L)
03	KBE-298-5602C	Air Inlet
04	KBE-298-9304S	Throttle Lever
05	KBE-298-9305S	Valve Shaft
06	KBE-298-5822G	Valve
07	KBE-298-5822M	Knob
08	KBE-298-9308S	Spring
09	KBE-298-5206G	O-Ring (3.8x1.9)
10	KBE-298-9336S	O-Ring (3of) (10.5x1.0)
11	KBE-298-5268X	O-Ring (7.5x1.5)
12	KBE-298-9312S	Rotor Spacer
13	KBE-298-5510L	Ball Bearing (2of) (696ZZ)
14	KBE-298-9314S	Rear End Plate
15	KBE-298-9315S	Rotor
16	KBE-298-9316S	Vane (4of)
17	KBE-298-5616S	Spring Pin (2of) (1.5x6)
18	KBE-298-9318S	Cylinder
19	KBE-298-9319S	Front End Plate
20	KBE-298-9320S	Ball Bearing (2of) (608ZZ)
21	KBE-298-5735M	O-Ring (6x1.5)
22	KBE-298-1939S	Pinion Gear
23	KBE-298-9323S	Front Coupling

INDEX NO.	ORDER CODE	DESCRIPTION
24	KBE-298-9324S	Collet
25	KBE-298-9325S	Collet Nut
26	KBE-298-9326S	Front Cap
27	KBE-298-9327S	Spanner (2of)
28	KBE-298-5826F	Head
29	KBE-298-9340S	Throttle Valve
30	KBE-298-1963S	Bevel Gear
31	KBE-298-9331S	Lock Ring
32	KBE-298-1969S	Key
33	KBE-298-9333S	Spindle
34	KBE-298-5856D	Spring Pin (1.5x12L)
35	KBE-298-5823H	Fixed Shaft
36	KBE-298-5545Y	Washer
37	KBE-298-9337S	Oil Cap
38	KBE-298-9338S	Steel Ball
39	KBE-298-5508J	O-Ring (22.8x2)
40	KBE-298-5509K	Deflector
41	KBE-298-9339S	Safety Bar
42	KBE-298-9344S	Spring
43	KBE-298-9343S	Spring Pin (2x15L)
44	KBE-298-5823M	Damping Material
45	KBE-298-5822S	Grip

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PARTS BREAKDOWN



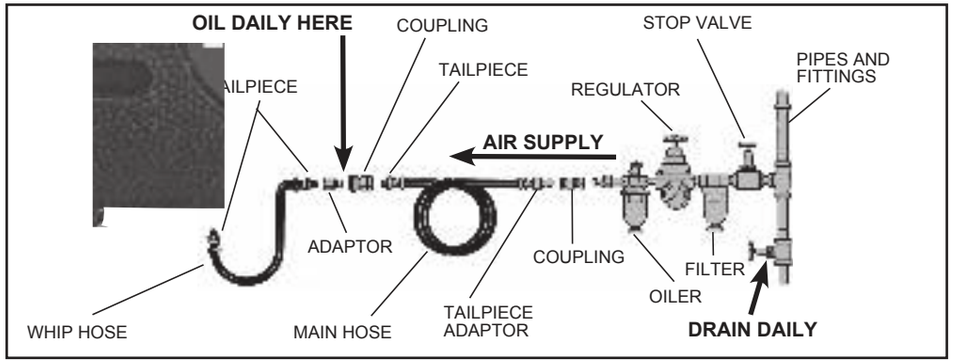
SPECIFICATIONS

MODEL NUMBER	B3144
COLLET SIZE	¼" (6mm), ⅛" (3mm)
FREE SPEED	20,000 rpm
RECOMMENDED AIR PRESSURE	6.2bar (90psi)
AIR CONSUMPTION	4cfm (113L/min)
AIR INLET THREAD	¼" NPT
MINIMUM AIR HOSE SIZE (ID)	10mm (⅜")

NOISE LEVEL†	90dB
SOUND POWER LEVEL†	97dBA
VIBRATION LEVEL#	1.24m/s^2
OVERALL LENGTH	165mm
NET WEIGHT	0.5kg

† Per Pneurop Standard PrEN 12366.
# Per EN 28927-1.

SUGGESTED AIR SUPPLY



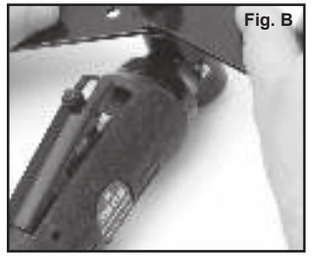
1. For optimal results you should incorporate a regulator, oiler and an inline filter.
2. If you are not using an automatic lubricating system, before operating the tool, add a few drops of Pneumatic Tool Oil to the air-line connection. Add more after each hour of constant using.
3. Do not exceed maximum air pressure of 90 PSI/ 6.2 bar or as stated on tool nameplate.

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OPERATION

WARNING! BEFORE ATTEMPTING TO USE THIS PRODUCT, MAKE SURE YOU ARE FAMILIAR WITH ALL OPERATING AND SAFETY INSTRUCTIONS.

ATTACHING OR REMOVING CONSUMABLE ACCESSORIES


Fig. B

1. Disconnect air tool from air supply before changing attachment.
2. Unscrew the collet using a 17mm spanner **(Fig B)**.
3. Place the attachment in to the loosened collet.
4. Tighten the collet with the spanner to secure the attachment.
5. Allow the air tool to run up to its maximum speed before applying to the workplace.

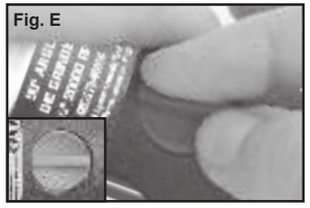
USING THE AIR TOOL

1. Carry out daily inspection and lubrication of the tool.
2. Remove the plastic dust cap using a pair of pliers **(Fig. C)**.
3. Connect the air tool to the air supply using a whip hose.

   NOTE: Due to the rotating air inlet feature, a 17mm spanner will be required to hold the inlet while securing the whip hose.
4. Place the tool over the area you intend to work on and squeeze the trigger to start the air tool **(Fig. D)**. Release the throttle to stop the air tool.
5. The amount the throttle is squeezed, will determine the speed of the tool.
   Do not allow the air tool to free run for an extended period
6. Turn the speed regulator to select the working pressure **(Fig. E)**.


Fig. C


Fig. D


Fig. E

WARNING!

- **ALWAYS** use the right tool for the job - DO NOT improvise by using accessories not designed for the tool or job.
- **ALWAYS** inspect the air tool for cracks or excessive wear before connecting and during use.
- Be careful not to over tighten fasteners.

MAINTENANCE

A competent person must disassemble and inspect higher wear parts periodically if the tool is used every day or if there is a noticeable drop in the tool performance. Any damaged or worn parts must be replaced. Your 12 month warranty could become void if the tool is unnecessarily dismantled and damage is caused. If you are unsure about dismantling the tool, please return it to your local Kobe agent.

The use of other than genuine Kobe replacement parts may result in safety hazards, decreased tool performance, increased maintenance and voiding of warranty.

Mineral spirits are recommended when cleaning the tool and its parts. DO NOT clean with any solvents or oils containing acids, esters, ketones, chlorinated hydrocarbons or nitro carbons. DO NOT use chemicals that have a low flash point. For spare parts or servicing please contact your local Kobe agent.

LUBRICATION

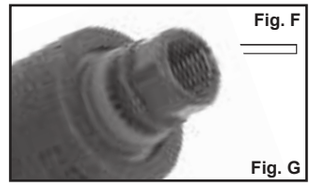
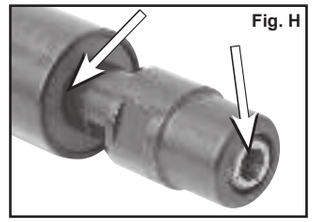

Fig. F

Fig. G

Air tools require lubrication throughout the life of the tool as moisture in the compressed air will rust the air motor and the correct lubrication is vital for the maximum performance of the air tool. Failure to lubricate the tool at the air inlet will void your warranty.

Either use an air line lubricator with air tool oil adjusted to two drops per minute, or if an air line lubricator cannot be used, add one teaspoon of air motor oil to the inlet **(Fig. F)** or into the hose at the nearest connection to the air supply once a day and then run the tool.
ISO Grade VG22 oil is recommended. A rust inhibitive oil is acceptable for air tools.


Fig. H

Any excess oil in the motor is expelled immediately from the exhaust port. Always direct the exhaust port away from people or objects **(Fig. G)**.

Lubricate the tool holder regularly with a light machine oil. **(Fig. H)**.
Do not lubricate the tool with flammable or volatile liquids such as paraffin (kerosene), diesel or jet fuel.

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