

# Hopkins

**E.C. HOPKINS LTD  
GR05UW 5" ANGLE GRINDER  
OPERATORS MANUAL  
AND  
PARTS LIST**



**E.C. HOPKINS LTD**  
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## Specification

SPEED MAX.	9450rpm @ 40lpm EHTMA Category 'E' 7100rpm @ 30lpm EHTMA Category 'D' 4750rpm @ 20lpm EHTMA Category 'C'
WHEEL INTERNAL DIA.	22.23mm (7/8")
WHEEL OUTER DIA.	125mm (5")
SPINDLE THREAD SIZE	M14
FLOW RANGE	20 ~ 40lpm (5 ~ 11 US gpm)
MAXIMUM FLOW	40lpm (11 US gpm)
HYDRAULIC OIL	ISO 32 Mineral Oil
OIL IN HANDLE	15W/40
PRESSURE RELIEF	155 Bar (2250 psi) MAX
SYSTEM TYPE	Open Centre (OC)
PORTS	-8 SAE O-ring
HOSE WHIPS	1m Long
CONNECTION	1/2" BSP Flat Face Couplers
LENGTH	321mm
WIDTH	65mm
HEIGHT	130mm
WEIGHT	3.0Kgs (without hoses)
VIBRATION LEVEL	TBCm/s <sup>2</sup>
NOISE	TBC

## Intended Use

The GR05UW Angle Grinder is a portable handheld lightweight tool designed to be operated with both hands.

It is intended for grinding, sanding, cutting and cleaning of metal and stone materials.

***This Grinder should only be operated by competent, trained operators***



## **WARNING**

**SERIOUS INJURY OR DEATH COULD RESULT FROM THE  
IMPROPER REPAIR OR SERVICE OF THIS TOOL**

**IF IN DOUBT ASK**

TECHNICAL HELPLINE +44 (0)121 506 6095

e-mail:- [enquiries@echopkins-bham.co.uk](mailto:enquiries@echopkins-bham.co.uk)

# Discs Information and Safety Instructions

Always be sure to comply with all the accident prevention regulations when using grinding discs and cut-off wheels. The appropriate industrial safety pictograms are found on all discs and wheels.



Wear Safety Goggles or Glasses



Use hearing Protection



Wear Safety Gloves



Wear Safety Goggles or Glasses



Observe safety Instructions



DO NOT use for side Grinding



DO NOT use If Broken

## General Safety Guidelines

Check cut-off / grinding wheel etc for damage before use.

Ensure tool speed does not exceed maximum rated speed of cut-off / grinding wheel etc.

Disconnect power source before changing wheels or when tool is not in use for extended periods.

Ensure work piece is secure.

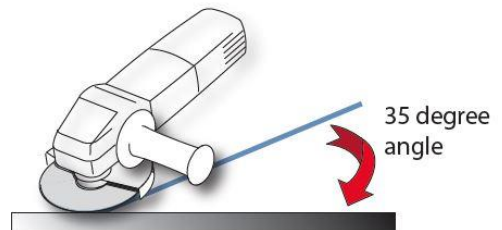
Always wear appropriate personal protective equipment (PPE).

Never breach any restrictions to use i.e.

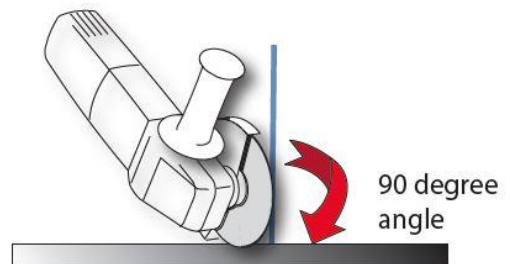
DO NOT use if broken.

DO NOT use cutting disc for grinding.

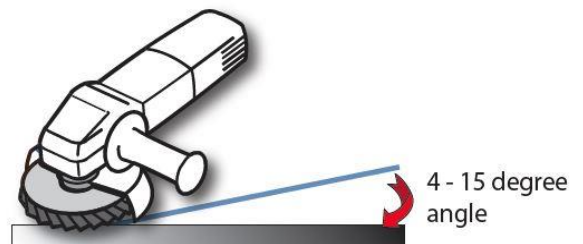
## Grinding Wheel Use



## Cut-off Wheel Use



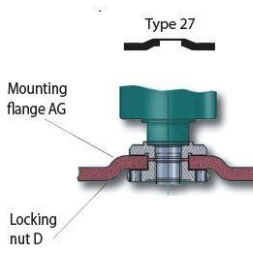
## Mop Wheel Use



## Proper Tool Mounting

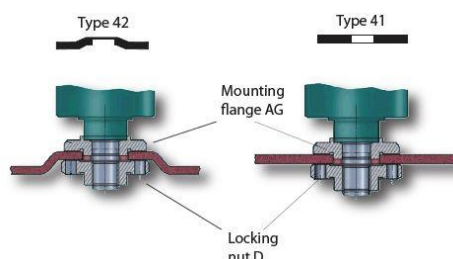
### Depressed Grinding Wheels

Wheels with 4mm to 10mm thickness



### Flat and Depressed Cut-Off Wheels

Wheels with 1mm to 4mm thickness



## General Safety

The risk of serious injury or even death to yourself or others is a reality when tools and machinery are not operated or maintained correctly.

All operators of this Angle Grinder must read this manual and fully familiarise themselves with its operation before use.

Ensure the hydraulic power source is compatible for use with this Angle Grinder (e.g. flow and pressure).

Ensure any abrasive wheel being fitted to this tool is compatible and is within the maximum speed.

Only persons who have attended a recognised Abrasive Wheel Course (or equivalent) and holds a valid certificate should fit abrasive wheels.

**DO NOT** use non-reinforced cutting wheels with this Angle Grinder.

**DO NOT** modify or fit non-approved parts without the manufacturer's written consent. Any warranty will become void and could result in injury or even death.

**DO NOT** reverse the oil flow through the grinder as this will make the wheel rotate in the wrong direction.

**NEVER** operate this tool when under the influence of drugs, alcohol, on medication, tired or feeling unwell as your judgement becomes impaired and could lead to serious injury or death, not just to yourself but others around you.

**YOU HAVE A DUTY NOT JUST TO PROTECT YOURSELF BUT ALSO A DUTY OF CARE TO OTHERS**

## Safety Precautions

- PPE (Personal Protective Equipment). Always wear approved fire retardant protective garments covering arms and legs if appropriate, protective helmet, suitable eye protection, ear defenders, suitable respiratory mask (in dusty conditions), safety boots, protective gloves.
- Do not operate this tool with loose clothing and tie back long hair. As any loose items becoming entangled may cause serious injury.
- Small jets of pressurized hydraulic oil can penetrate the skin. Never check for leaks using your hands. Should oil penetrate the skin or be inadvertently swallowed seek medical advice immediately. Do not induce vomiting.
- Hydraulic oil along with other lubricants and greases can cause eczema. Should oils etc. come into contact with bare skin, wash off immediately with warm soapy water.
- Inspect the abrasive wheel for damage, cracks, excessive or uneven wear. Discard any wheel that has any defects or has been dropped.
- Do not forcibly fit an abrasive wheel as this will pre-stress the wheel and may lead to premature failure.

## Safety Precautions (continued)

- Disconnect from the power source when changing the wheel or working on the grinder. When a new wheel has been fitted run the Grinder for about 15 seconds to ensure the wheel runs true and there is no abnormal vibration.
- Never operate the tool without the wheel guard.
- Before commencing grinding carry out a risk assessment and any procedures put in place are followed.
- Ensure any persons cannot wander in front or to the sides of the operator whilst grinding. To avoid the risk of injury to others cordon off the area.
- Make sure the working floor area is clean so as to avoid any slipping or tripping hazards.
- This Grinder will produce sparks. Remove all flammable liquids and combustible materials from the vicinity.
- Do not use in an explosive environment.
- Hold the Angle Grinder firmly with both hands at all times whilst operating.
- Do not overreach, ensure you keep your balance and sure footing at all times.
- Make sure that the work piece is secured and cannot move whilst grinding or cutting.
- Ensure the wheel guard is positioned correctly (with the closed side towards the operator) and keep all parts of the body away from the rotating wheel.
- Do not start the grinder with the wheel in contact with a surface. Always introduce the free spinning wheel to the work piece to be ground or cut.
- Do not use a cutting wheel to grind with. Side loading the thin wheel will cause the wheel to shatter which may result in injury or death.
- When cutting do not twist or force the wheel to cut, this will cause the wheel to shatter. Guide the wheel in a straight line applying gentle pressure and let the cutting wheel do the work.
- Never walk around with the Grinder running.
- Be sure to check the area for buried utility cables or pipes. Do not operate where you cannot be sure of their presence. It could result in serious injury or death.
- Do not use toothed wood cutting wheels. This type of wheel will increase the risk of kickback which could result in serious injury.
- Do not use worn down wheels from larger tools. They will not be compatible with this Grinder.
- Do not use reducing bushes to enable the fitting of wheels with a larger hub size.
- Replace illegible, damaged or missing safety labels. Keep this manual clean and readily available so it can be referred to by all operators.



## Kickback Warning

Be aware of 'Kickback' during operation. This happens when a grinding or cutting wheel is misaligned, binds or is pinched in the work piece. The Grinder reacts violently lifting out of the work piece back towards the operator and could result in serious injury especially if the wheel shatters.

Kickback occurs due to operator error, and injury can be avoided by taking proper precautions and following the procedures listed.

- Grip the Grinder firmly by the side handle and around the trigger / handle. Always use both hands when operating be prepared for the unexpected when using.
- Position your body away from the line of any kickback should it occur.
- When using a cutting wheel always cut in a straight line. Do not twist the wheel or try to cut round corners, this puts a side load on the wheel and it will either jam or shatter causing 'kickback'.
- Do not force the wheel to cut. Only apply light pressure and let the wheel do the work.
- Do not start the Grinder with the wheel in contact with the work piece. Introduce a free spinning wheel slowly to the work piece.

**Complacency can be a killer. The attitude of 'I've been using an angle grinder for years I know what I'm doing it's never happened to me' could be your undoing. Stay alert, Stay alive.**

## Maintenance

### Before use:-

1. Check hose whips for damage or exposed wire braid and replace as necessary.
2. Check tightness of all fasteners.
3. Check the trigger safety catch and trigger moves freely.
4. Remove filler plug (1) and make sure the grinder body has the correct amount of lubricating oil (15W/40). Correct oil level is achieved when the grinder is held horizontal with the spindle pointing down. Oil should then be level with the bottom of the filler hole.
5. Check the condition of the disc and replace as necessary.

### After use:-

1. Ensure any faults with grinder are reported and do not use it until rectified.
2. Wash the grinder off with clean water and work a light oil to the moving parts e.g. valve spool, trigger and safety catch.
3. Store away in a clean dry environment.

## Operation

1. Make sure that the hydraulic power pack does not exceed a maximum output flow of 40 Litres per Minute and that the maximum system pressure is set no more than 155 Bar (2250 psi).
2. Ensure the hydraulic circuit is of the open centre (OC) type.
3. Wipe the flat face couplings with a clean cloth.
4. Connect the return hose first to the power pack and then the pressure hose. When disconnecting, uncouple the pressure hose first and the return hose last so as to minimize any pressure being trapped in the grinder. If the couplings will not connect due to pressure within the grinder, slowly loosen off one of the couplings allowing some oil to leak out. Re-tighten the coupling and connect to the power pack.
5. Start the power pack and move the 'ON/OFF' lever to the 'ON' position.
6. Hold the grinder with both hands i.e. one hand grasping the side of the handle and the other hand around the trigger.
7. Operate the trigger and ensure the disc rotation is correct (CW if viewed from above) and that there are no leaks.
8. Do not start the grinder with the disc in contact with the work surface.

### Note:-

For operator comfort and better control over the Grinder when used in awkward places, the Grinder head can be rotated in relation to the trigger by loosening the cap screw (8) and rotating the head to the desired position. Retighten the cap screw once the head has been repositioned.

## **WARNING!**

**Disconnect the Grinder from the power source before carrying out this procedure.**

## Disassembly


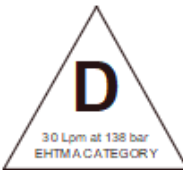

1. Undo the 2 hose whips and allow them to drain into a suitable container.
2. Remove the grinding disc, support flange (16) and disc guard (50).
3. Undo the 4 screws (12) and pull the bearing housing (15) from the grinder body (19). Note, some oil will spill from the body when it is removed.
4. Hold the gear (9) in a vice with soft jaws and undo the hex screw (2). Remove washer (3), pull the gear off the bearing shaft (18) and remove the key (4).
5. Remove the shim washer(s) (10) and tap the bearing shaft out through the bearings (14 & 57) and shaft seal (13).
6. Remove cap screw (8) and pull the grinder body (19) away from the handle (20).
7. Undo the cap screw (40) and remove the trigger assy (44).
8. The valve spool (36) needs to be drawn out of the body from the trigger side. Using a 5mm hexagon key push on the button head screw (33) to compress the valve spring so the valve spool extends beyond the valve body. Clamp the valve spool with a pair of grips and undo screw (33). Remove the valve spring washer (32) and valve spring (34) and withdraw the valve spool out through the trigger side of the valve block (35).
9. Remove the eight button head screws (22) and the grinder will separate into three sections: valve block (35), gear housing (31) & handle c/w handle housing (20 & 27).
10. Remove the two gears (30 & 38). Clamp the handle housing (27) in a vice and unscrew the handle (20) using a 1" A/F Spanner.
11. Remove circlip (42) and take out the seal housing (24). Split the two halves of the housing to remove the shaft seal (25).
12. Hold the gear (5) in a vice with soft jaws and undo the hex screw (2). Pull the gear off the shaft and remove the key (4). Service tool N00084 is available to assist with this.
13. Slide the drive shaft (21) out from the handle.
14. To remove bearings (7, 14, 41 & 57) it is best to warm up the housings first then tap them out using a suitable drift. Fit new bearings whilst the housings are still warm.
15. Remove all seals and discard.

## Assembly

1. Assembly is the reverse procedure of the above.
2. With new bearings fitted, replace all the seals.
3. When doing up the eight button head screws (22), tighten them in an opposite sequence in stages making sure the shaft still rotates freely.
4. Fit new O-rings (55) onto the tail hoses. The tail hose with the female coupling (knurled sleeve) connects to the 'P' port and the hose with the male coupling connects to the 'T' port.
5. With the assembled grinder horizontal, bearing shaft pointing downwards pour 15W/40 oil in through the filler hole (1) until its level with the bottom of the threaded hole. Re-fit the filler plug.
6. Finally run the Angle Grinder and check for any oil leaks.

**Remember, a badly maintained or repaired tool could lead to serious injury.**

# Tool Stickers and Labels

 <b>C</b> 20 Lpm at 138 bar EHTMA CATEGORY	 <b>D</b> 30 Lpm at 138 bar EHTMA CATEGORY	 <b>E</b> 40 Lpm at 138 bar EHTMA CATEGORY
<b>4750 rpm</b>	<b>7100 rpm</b>	<b>9450 rpm</b>


N00004 EHTMA Category



**CAUTION**


**20-40 LPM / 5-11 GPM(US) DO NOT EXCEED 155 BAR (2250 PSI)**

**DO NOT EXCEED SPECIFIED FLOW OR PRESSURE • USE ONLY ON AN OPEN CENTRE SYSTEM • CORRECTLY CONNECT HOSES TO PORTS 'P' AND 'T' • IMPROPER HANDLING, USE OR MAINTENANCE OF TOOL COULD RESULT IN LEAK, BURST OR OTHER TOOL FAILURE • CONTACT AT A LEAK OR BURST CAN CAUSE OIL INJECTION INTO THE BODY • FAILURE TO OBSERVE THESE PRECAUTIONS COULD RESULT IN PERSONAL INJURY.**



**Hopkins**  
THE WAY AHEAD

EC Hopkins Limited  
Unit 1, 82 Kettles Wood Drive  
Woodgate Business Park  
Birmingham B32 3DB UK  
[www.underwatertools.co.uk](http://www.underwatertools.co.uk)



N00005 Caution











Read Manual

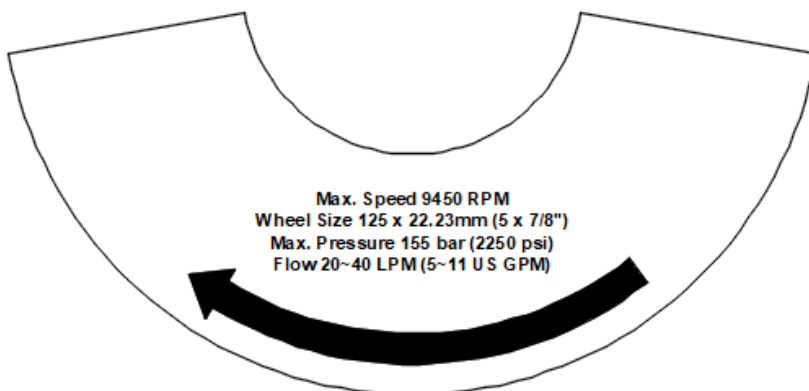
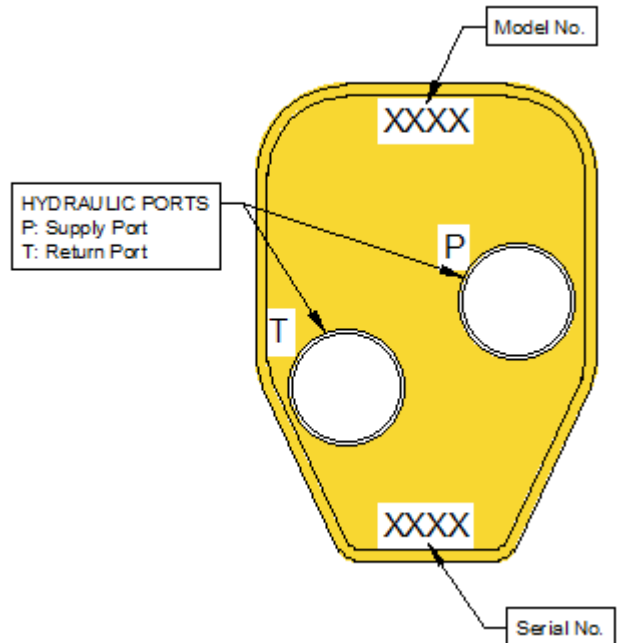
Wear Goggles

Wear Boots

Wear Ear Protectors

Wear Gloves

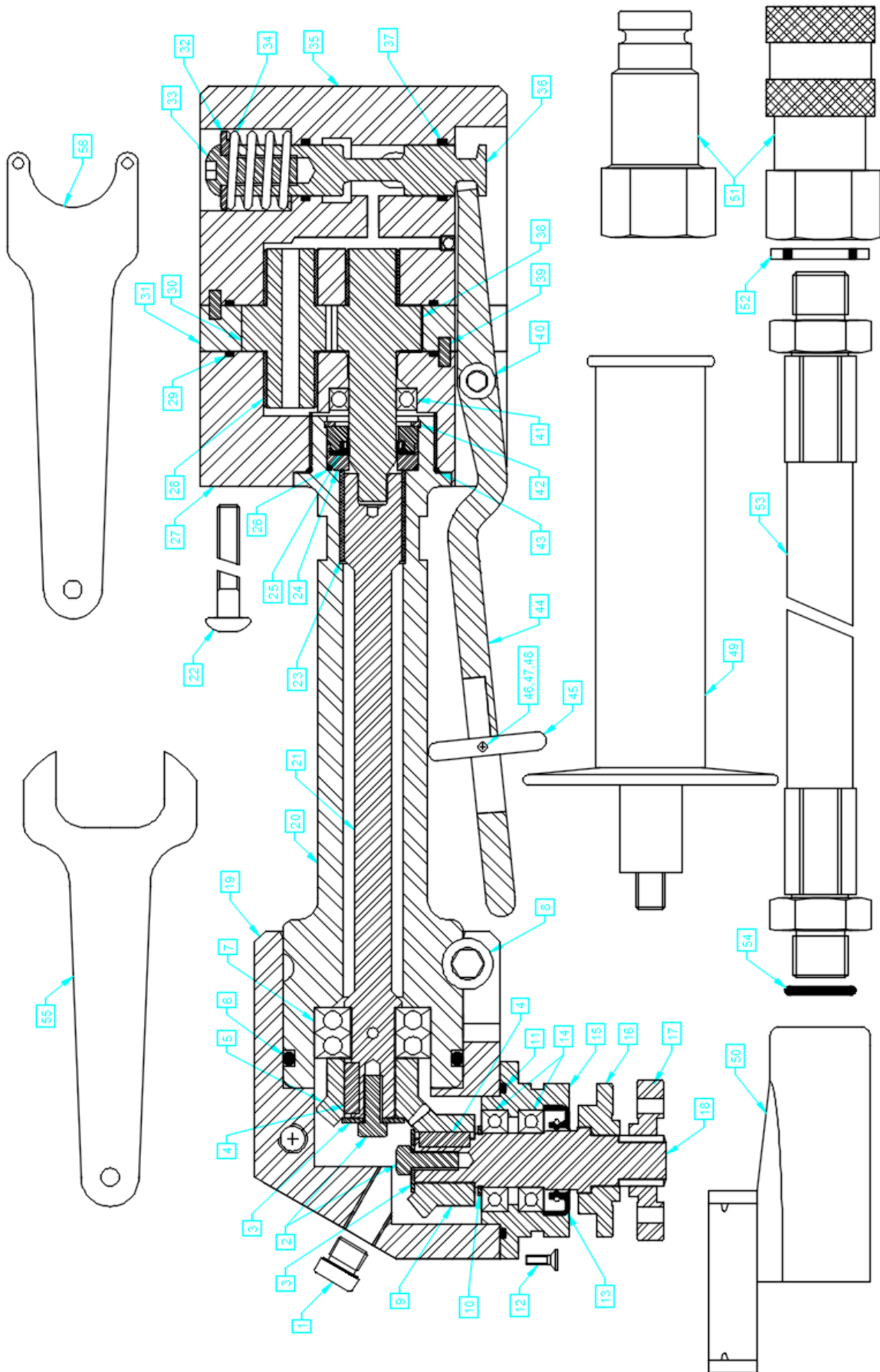
N00006 Safety



N00059 Disc Rotation

# GR05UW Parts Illustration

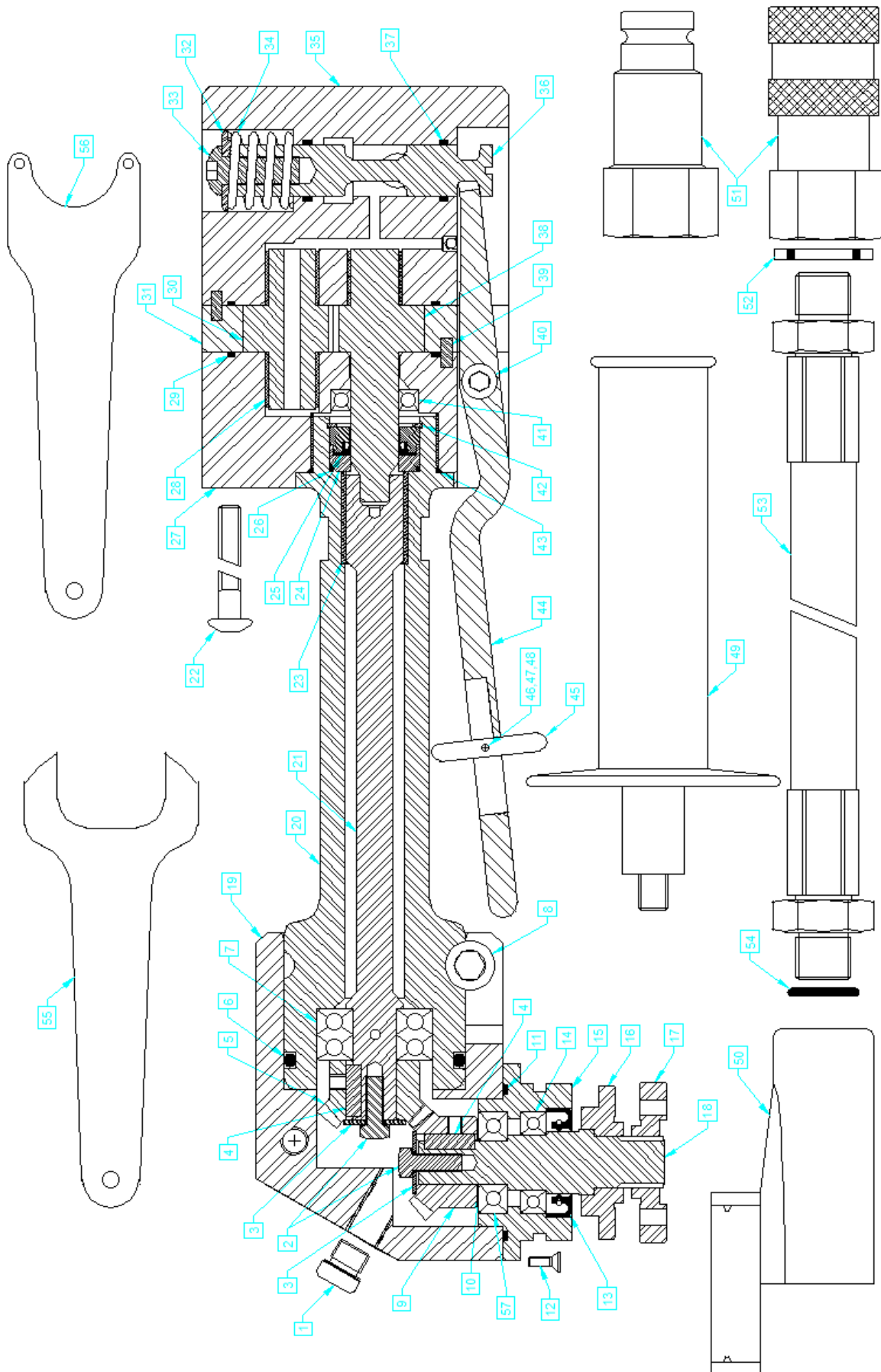
From S/No 0001 – 0125





# GR05UW Parts Illustration

From S/No 0126 onwards







## Troubleshooting

Below are various types of faults that may be encountered. Should a fault persist please call our technical helpline +44 (0)121 506 6095 for assistance.

Problem	Probable Cause	Remedy
Grinder runs slow	Incorrect hydraulic flow Excessive back pressure Hydraulic oil viscosity too thick	Flow test power pack Check return line for restrictions Raise oil temperature Change oil to a thinner viscosity
Grinder gets hot	Incorrect hydraulic flow Oil Cooler not working Oil Cooler matrix blocked Hydraulic Pump is worn	Flow test power pack Check cooler electrics Clean with compressed air Replace pump
Leaking oil around tool chuck	Rotary seal worn	Fit new seal
Grinder runs in reverse	Pressure and return hoses on the wrong way	Check system for correct flow path and rectify
Oil leaking from valve spool	Seals worn	Remove valve spool and replace seals
Grinder not working	Power pack not switched on Coupling blocked Mechanical failure	Switch power pack on Check couplings and remove blockage Disassemble grinder and check for damage

## Warranty

This product is guaranteed (subject to normal wear and tear) against defective parts and faulty workmanship for a period of 12 months from date of purchase.

It does not cover:-

Parts already covered by original equipment manufacturers own warranties already in place

Failure of parts due to lack of maintenance and services

Any failure due to non-genuine parts fitted

Rubber products

Product subjected to misuse/abuse or being neglected in any way

Being modified in any way without prior consent of E.C. Hopkins Ltd

In case of disagreement between parties as to whether it is warranty or not, the failed part will be returned to the supplier for inspection at the customers cost. The findings by that supplier as to why the part failed will be binding.

With an ongoing design and development program E.C. Hopkins Ltd reserve the right to alter the design or specification of any product without prior notice.

## Declaration of Conformity

I M.J. Newman

Of Newcat Plant Services Ltd Unit 1, Beta Block, Orchard Trading Estate,  
Toddington, Cheltenham, Glos. GL54 5EB

Declare that:

Equipment *HYDRAULIC ANGLE GRINDER*

Model *GR05UW*

Serial Numbers *All*

In accordance with the following directives:

*2006/42/EC Machinery Directive.*

Has been designed and manufactured to the following specifications:

BS EN ISO 12100:2010 Safety of Machinery: Basic Concepts, General Principles for design

BS EN ISO 4413:2010 Safety Requirements for Fluid Power Systems Hydraulics






I hereby declare that the equipment named above has been tested and found to comply with the relevant sections of the above referenced specifications. The unit complies with all essential requirements of the Directives. The technical document is kept by: M.J. Newman, Newcat Plant Services Ltd, Unit 1, Beta Block, Orchard Trading Estate, Toddington, Cheltenham, Gloucestershire GL54 5EB

Signed: *M.J. Newman*

Name: M. J. Newman

Position: Design & Technical Director Date: 29th January 2018

## GR05UW Accessories

<p><b>Description</b> <b>Application</b> <b>Materials</b> <b>Part Number</b> <b>Size</b> <b>Max Rating</b></p>	<p><b>5" Diameter Bonded Abrasive Grinding Disc for Stone</b> Depressed Centre High Performance, minimal vibration &amp; long life Grinding Masonry, Stone, Concrete Stone, Brick, Concrete, Ceramics GW578DCM 125mm x 6.4mm 12'200rpm</p>	
<p><b>Description</b> <b>Application</b> <b>Materials</b> <b>Part Number</b> <b>Size</b> <b>Max Rating</b></p>	<p><b>5" Diameter Bonded Abrasive Grinding Disc for Metal</b> Depressed Centre High Performance, minimal vibration &amp; long life Grinding Pipe, Structural, Solid or Plate Steel, Stainless Steel GW578DCS 125mm x 6.4mm 12'200rpm</p>	
<p><b>Description</b> <b>Application</b> <b>Materials</b> <b>Part Number</b> <b>Size</b> <b>Max Rating</b></p>	<p><b>5" Diameter Bonded Abrasive Cutting Disc for Metal</b> Depressed Centre High performance, minimal vibration &amp; long life Cutting Pipe, Structural, Solid and Plate Steel, Stainless Steel CW578DCS 125mm x 2.5mm 12'200rpm</p>	
<p><b>Description</b> <b>Application</b> <b>Materials</b> <b>Part Number</b> <b>Size</b> <b>Max Rating</b></p>	<p><b>5" All-Grind Diamond Grit Grinding Disc</b> Durable, Long Life with the ability to grind a wide range of materials General Grinding / Various Materials All Purpose, Concrete, Stone, Steel &amp; Alloys, Composite, PVC, Wood AG125-22 125mm 12'250rpm</p>	
<p><b>Description</b> <b>Application</b> <b>Materials</b> <b>Part Number</b> <b>Size</b> <b>Max Rating</b></p>	<p><b>5" All-Cut Diamond Grit Cutting Disc</b> Durable, Long Life with the ability to cut a wide range of materials General Cutting / Various Materials All Purpose, Concrete, Stone, Steel &amp; Alloys, Composite, PVC, Wood AC125-22 125mm x 2.5mm 12'250rpm</p>	




All Hydraulic Tools, parts, accessories and allied equipment are subject to design improvements, specification and price changes at any time without notice and with no obligation to units already sold. Weights, dimensions and operating specifications listed herein are subject to change without notice. Where specifications are critical to your application, please consult us.

## GR05UW Accessories

<p><b>Description</b> <b>Application</b> <b>Materials</b> <b>Part Number</b> <b>Size</b> <b>Max Rating</b></p>	<p><b>5" Diamond Grinding Cup DS300 B</b> Cup Grinding Wheel with 18 segments High Stock Removal Performance Concrete, Stone, Construction Material 325362 125mm x 5mm 12'200rpm</p>	
<p><b>Description</b> <b>Application</b> <b>Materials</b> <b>Part Number</b> <b>Size</b> <b>Max Rating</b></p>	<p><b>5" Diamond Cutting Disc DT 600 U</b> Fast Cutting Performance, Long Life Cutting Concrete, Stone, Brick, Construction Materials 322631 125mm x 2.4mm 12'200rpm</p>	
<p><b>Description</b> <b>Application</b> <b>Materials</b> <b>Part Number</b> <b>Size</b> <b>Max Rating</b></p>	<p><b>Cup Wire Brush 100mm Crimped Steel Bristles</b> General purpose cup wire brush Surface preparation, Rust removal, Cleaning Various, Inc. Steel, Stainless Steel &amp; Glass Fibre CWB100-CB14 100mm x M14 Threaded Bore 8'500rpm</p>	
<p><b>Description</b> <b>Application</b> <b>Materials</b> <b>Part Number</b> <b>Size</b> <b>Max Rating</b></p>	<p><b>Cup Wire Brush 100mm Twisted Knot Steel Bristles</b> Hard wearing cup brush with good material removal De-burring, De-scaling, Marine growth removal, Paint removal Various, Inc. Steel, Stainless Steel &amp; Glass Fibre CWB100-TK14 100mm x M14 Threaded Bore 8'500rpm</p>	
<p><b>Description</b> <b>Application</b> <b>Materials</b> <b>Part Number</b> <b>Sizes</b> <b>Max Rating</b></p>	<p><b>Bevel Wire Brush 100mm Twisted Knot Steel Bristles</b> Hard wearing bevel brush with good material removal De-burring, De-scaling, Marine growth removal, Paint removal Various, Inc. Steel, Stainless Steel &amp; Glass Fibre BWB100-TK14 100mm x M14 Threaded Bore 12'500rpm</p>	

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## GR05UW Accessories

<b>Description</b> <b>Application</b> <b>Materials</b> <b>Part Number</b> <b>Size</b> <b>Max Rating</b>	<b>5" Rapid Strip Disc DPC, Extra Coarse, Harder Density</b> Synthetic fibres and coarse silicon carbide grains Light Marine Growth, Rust & Paint removal. Surface Preparation Various, Inc. Steel, Stainless Steel & Glass Fibre RSD30655 125mm DPC 12'000rpm										
<b>Description</b> <b>Application</b> <b>Materials</b> <b>Part Number</b> <b>Sizes</b> <b>Grit</b> <b>Max Rating</b>	<b>5" Conical Fibre Discs (40/80/120 Grit) DPC</b> Zirconium, excellent material removal and long life Ideal for edge grinding, surface preparation & cleaning, De-rusting Steel, Stainless Steel <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CFD02315</td> <td style="width: 33%;">CFD02318</td> <td style="width: 33%;">CFD02326</td> </tr> <tr> <td>125</td> <td>125</td> <td>125</td> </tr> <tr> <td>40-Grit</td> <td>80-Grit</td> <td>120-Grit</td> </tr> </table> 12'250rpm	CFD02315	CFD02318	CFD02326	125	125	125	40-Grit	80-Grit	120-Grit	
CFD02315	CFD02318	CFD02326									
125	125	125									
40-Grit	80-Grit	120-Grit									
<b>Description</b> <b>Application</b> <b>Materials</b> <b>Part Number</b> <b>Size</b> <b>Max Rating</b>	<b>4" Swirl-Off</b> Stainless Steel housing with 21 cutters De-Scaling, Marine Growth Removal, Paint Removal Various, Inc. Steel, Stainless Steel & Glass Fibre 50400MM 100mm x M14 Threaded Bore 6000rpm										

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# Hopkins

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