

# TOTAL

One-Stop Tools Station

TOTAL

## ANGLE GRINDER

TG1091156,UTG1091156,TG1091156-2,  
TG1091156-3,TG1091156-6,TG1091156-8,  
TG1091156S

TG1101256,UTG1101256,TG1101256-6,  
TG1101256-8,TG1101256S

INDUSTRIAL



950W

## General Power Tool Safety Warnings

**▲ WARNING** Read all safety warnings and all instructions. *Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.*

**Save all warnings and instructions for future reference.**

*The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.*

- 1) **Work area safety**
  - a) **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
  - b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** *Power tools create sparks which may ignite the dust or fumes.*
  - c) **Keep children and bystanders away while operating a power tool.** *Distractions can cause you to lose control.*
- 2) **Electrical safety**
  - a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** *Unmodified plugs and matching outlets will reduce risk of electric shock.*
  - b) **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** *There is an increased risk of electric shock if your body is earthed or grounded.*
  - c) **Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*
  - d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** *Damaged or entangled cords increase the risk of electric shock.*
  - e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** *Use of a cord suitable for outdoor use reduces the risk of electric shock.*
  - f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** *Use of an RCD reduces the risk of electric shock.*
- 3) **Personal safety**
  - a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** *A moment of inattention while operating power tools may result in serious personal injury.*
  - b) **Use personal protective equipment. Always wear eye protection.** *Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.*
  - c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** *Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.*
  - d) **Remove any adjusting key or wrench before turning the power tool on.** *A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*
  - e) **Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*
  - f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** *Loose clothes, jewellery or long hair can be caught in moving parts.*
  - g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** *Use of dust collection can reduce dust-related hazards.*
- 4) **Power tool use and care**
  - a) **Do not force the power tool. Use the correct power tool for your application.** *The correct power tool will do the job better and safer at the rate for which it was designed.*
  - b) **Do not use the power tool if the switch does not turn it on and off.** *Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*
  - c) **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*
  - d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** *Power tools are dangerous in the hands of untrained users.*
  - e) **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** *Many accidents are caused by poorly maintained power tools.*
  - f) **Keep cutting tools sharp and clean.** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*
  - g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** *Use of the power tool for operations different from those intended could result in a hazardous situation.*

- 5) **Service**
- a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.** *This will ensure that the safety of the power tool is maintained.*
  - b) **If the replacement of the supply cord is necessary, this has to be done by the manufacturer or his agent in order to avoid a safety hazard.**
- 6) Recommendation that the tool always be supplied via a residual current device with a rated residual current of 30 mA or less.

**Safety Warnings Common for Grinding Operations:**

- a) **This power tool is intended to function as a grinder tool. Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** *Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.*
- b) **Operations such as sanding, wire brushing, polishing or cutting-off are not recommended to be performed with this power tool.** *Operations for which the power tool was not designed may create a hazard and cause personal injury.*
- c) **Do not use accessories which are not specifically designed and recommended by the tool manufacturer.** *Just because the accessory can be attached to your power tool, it does not assure safe operation.*
- d) **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.** *Accessories running faster than their rated speed can break and fly apart.*
- e) **The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.** *Incorrectly sized accessories cannot be adequately guarded or controlled.*
- f) **The arbour size of wheels, flanges, backing pads or any other accessory must properly fit the spindle of the power tool.** *Accessories with arbour holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.*
- g) **Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pad for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute.** *Damaged accessories will normally break apart during this test time.*
- h) **Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments.** *The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.*
- i) **Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.** *Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.*
- j) **Hold power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** *Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and shock the operator.*
- k) **Position the cord clear of the spinning accessory.** *If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.*
- l) **Never lay the power tool down until the accessory has come to a complete stop.** *The spinning*

*accessory may grab the surface and pull the power tool out of your control.*

- m) **Do not run the power tool while carrying it at your side.** *Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.*
- n) **Regularly clean the power tool's air vents.** *The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.*
- o) **Do not operate the power tool near flammable materials.** *Sparks could ignite these materials.*
- p) **Do not use accessories that require liquid coolants.** *Using water or other liquid coolants may result in electrocution or shock.*

### **Kickback and Related Warnings**

Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at the point of the binding.

For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions. Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- a) **Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up.** *The operator can control torque reactions or kickback forces, if proper precautions are taken.*
- b) **Never place your hand near the rotating accessory.** *Accessory may kickback over your hand.*
- c) **Do not position your body in the area where power tool will move if kickback occurs.** *Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.*
- d) **Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory.** *Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.*
- e) **Do not attach a saw chain woodcarving blade or toothed saw blade.** *Such blades create frequent kickback and loss of control.*

### **Safety Warnings Specific for Grinding Operations:**

- a) **Use only wheel types that are recommended for your power tool and the specific guard designed for the selected wheel.** *Wheels for which the power tool was not designed cannot be adequately guarded and are unsafe.*
- b) **The grinding surface of centre depressed wheels must be mounted below the plane of the guard lip.** *An improperly mounted wheel that projects through the plane of the guard lip cannot be adequately protected.*
- c) **The guard must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator.** *The guard helps to protect operator from broken wheel fragments and accidental contact with wheel.*
- d) **Wheels must be used only for recommended applications. For example: do not grind with the side of cut-off wheel.** *Abrasive cut-off wheels are intended for peripheral grinding, side forces applied*

to these wheels may cause them to shatter.

e) **Always use undamaged wheel flanges that are of correct size and shape for your selected wheel.** Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage. Flanges for cut-off wheels may be different from grinding wheel flanges.

f) **Do not use worn down wheels from larger power tools.** Wheel intended for larger power tool is not suitable for the higher speed of a smaller tool and may burst.

## SYMBOLS



Read the manual



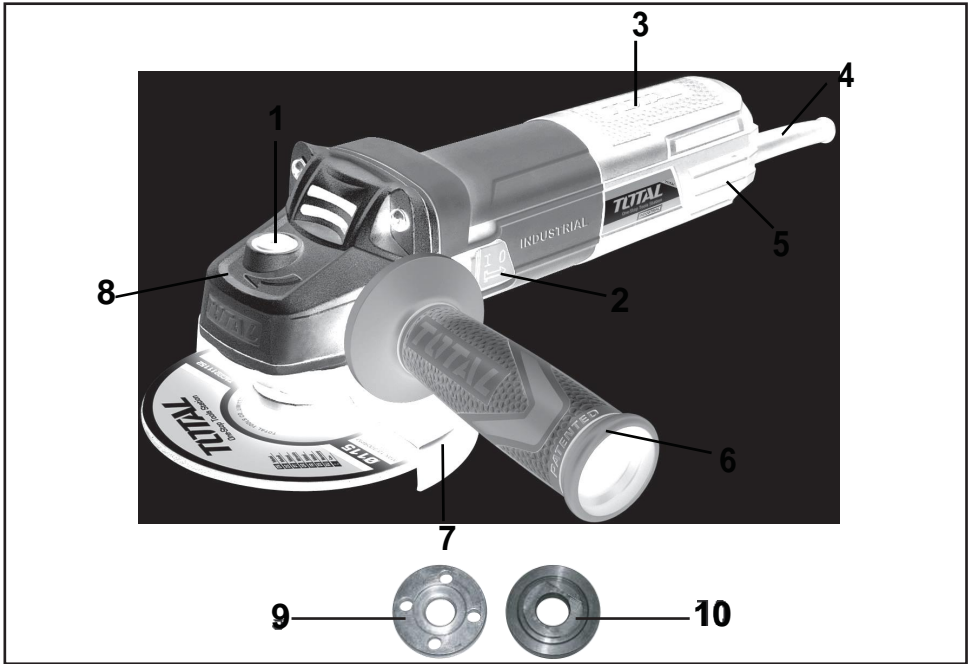
Warning



Wear gloves



Wear dust mask, eye & ear protection





1. SPINDLE LOCKING BUTTON
2. ON / OFF SWITCH BUTTON
3. HOUSING
4. POWER CABLE SLEEVE
5. COOLING VENTS
6. AUXILIARY HANDLE
7. DISC GUARD
8. DIRECTION OF ROTATION INDICATOR
9. THREAD LOCK FLANGE
10. MOUNTING WASHER FLANGE




## TECHNICAL DATA

<b>Model No.</b>	<b>TG1091156</b>	<b>UTG1091156</b>	<b>TG1091156-2</b>	<b>TG1091156-3</b>
Voltage:	220-240V~50/60Hz	110-120V~60Hz	220-240V~50/60Hz	220-240V~50/60Hz
Input power:	950W	950W	950W	950W
No-load speed:	11000/min	11000/min	11000/min	11000/min
Disc diameter:	115mm	4 1/2"	115mm	100mm
Sanding plate diameter:	125mm	5"	125mm	100mm
Wire cup brush diameter:	75mm	3"	75mm	50mm
Disc bore:	Ø22.2mm	Ø7/8"	Ø22.2mm	Ø22.2mm
Spindle thread:	M14	5/8"-11UNC	M14	M10
Double insulation:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Weight:	2.75kg	2.75kg	2.75kg	2.75kg

<b>Model No.</b>	<b>TG1091156-8 (BS PLUG)</b>	<b>TG1091156S (SAA PLUG)</b>	<b>TG1091156-6 (ISRAEL PLUG)</b>
Voltage:	220-240V~50/60Hz	220-240V~50/60Hz	220-240V~50/60Hz
Input power:	950W	950W	950W
No-load speed:	11000/min	11000/min	11000/min
Disc diameter:	115mm	115mm	115mm
Sanding plate diameter:	125mm	125mm	125mm
Wire cup brush diameter:	75mm	75mm	75mm
Disc bore:	Ø22.2mm	Ø22.2mm	Ø22.2mm
Spindle thread:	M14	M14	M14
Double insulation:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Weight:	2.75kg	2.75kg	2.75kg

## TECHNICAL DATA

<b>Model No.</b>	<b>TG1101256</b>	<b>UTG1101256</b>
Voltage:	220-240V~50/60Hz	110-120V~60Hz
Input power:	950W	950W
No-load speed:	11000/min	11000/min
Disc diameter:	125mm	5"
Sanding plate diameter:	125mm	5"
Wire cup brush diameter:	75mm	3"
Disc bore:	Ø22.2mm	Ø7/8"
Spindle thread:	M14	5/8"-11UNC
Double insulation:		
Weight:	2.75kg	2.75kg

<b>Model No.</b>	<b>TG1101256-8 (BS PLUG)</b>	<b>TG1101256S (SAA PLUG)</b>	<b>TG1101256-6 (ISRAEL PLUG)</b>
Voltage:	220-240V~50/60Hz	220-240V~50/60Hz	220-240V~50/60Hz
Input power:	950W	950W	950W
No-load speed:	11000/min	11000/min	11000/min
Disc diameter:	125mm	125mm	125mm
Sanding plate diameter:	125mm	125mm	125mm
Wire cup brush diameter:	75mm	75mm	75mm
Disc bore:	Ø22.2mm	Ø22.2mm	Ø22.2mm
Spindle thread:	M14	M14	M14
Double insulation:			
Weight:	2.75kg	2.75kg	2.75kg

## ACCESSORIES

1. Auxiliary handle 1pcs
2. Spanner 1pcs
3. 3pcs dry diamond discs ,  
3pcs abrasive metal cutting discs and packd by BMC ( only for TG1091156-2 )



## OPERATION INSTRUCTIONS

**⚠ WARNING:** Before using your angle grinder be sure to read the instruction manual carefully.



**Fig 1**

### 1. INSTALLING THE AUXILIARY HANDLE

(see fig 1)

An auxiliary handle is supplied and can be fixed into both of the two positions on the gearcase. If you are right handed fit the handle as shown in fig1. If you are left handed fit the handle the other way round. When using a cutting disc, you can screw the handle into the position on top of the gearcase.

**NOTE:** This handle should be used at all times to maintain complete control of the tool.

### 2. ADJUSTING WHEEL GUARD (see fig 2)

Adjust the guard to protect your hands and direct grinding debris. Loosen the screw. Position the guard at the required angle. Then tighten the screw.

**CAUTION:** Be sure that the guard is secure before starting the angle grinder.

**⚠ WARNING:** Never use the angle grinder without the disc guard in place.



**Fig 2**

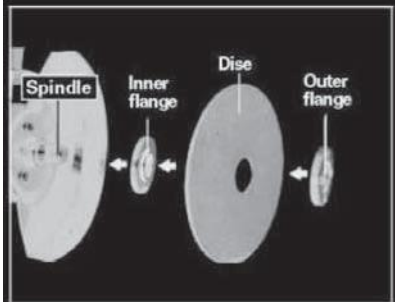
### 3. FITTING THE DISCS (see fig 3)

Place the grinding/cutting disc on top of the inner flange and over the spindle. Ensure that it is firmly located on the raised section of the inner flange. See fig3. Locate the outer flange over the disc, making sure that the raised side is facing the disc and is fully located in the centre hole of the disc.

**NOTE:** When clamping thin section metal diamond discs, the outer flange must be reversed so that the flat/dished side screws against the disc hub.

Press and hold down the spindle lock button and tighten the outer flange using the two pin locking wrench. It may be necessary to turn the spindle to fully locate the spindle lock button.

When the outer flange washer is tight, release the spindle lock button and remove the wrench.



**Fig 3**



Fig 4

#### 4. SWITCH (see fig 4)

The On/Off trigger switch is sprung in the OFF position. The angle grinder is started by pushing forward the on/off switch. See fig 4. To stop the angle grinder, release the on/off switch and it will return to the OFF position.

**⚠ WARNING!** The disc will continue rotate for a few seconds after the angle grinder has been switched off.

Always wait until the disc has stopped completely before putting the angle grinder down. Do not attempt to operate the spindle lock button while the disc is still rotating.



Fig 5

#### 5. TO USE GRIND (see fig 5)

Attention: Do not switch the grinder on whilst the disc is in contact with the workpiece. Allow the disc to reach full speed before starting to grind. Hold your angle grinder with one hand on the main handle and other hand firmly around the auxiliary handle.

Always position the guard so that as much of the exposed disc as possible is pointing away from you. Be prepared for a stream of sparks when the disc touches the metal.

For best tool control, material removal and minimum overloading, maintain an angle between the disc and work surface of approximately 15°-30° when grinding and 10°-15° When sanding. Exert light pressure on abrasive discs for efficient operation. Pushing too hard will cause a drop in speed and may result in motor overload and damage.

Use caution when working into corners as contact with the intersecting surface may cause the grinder to jump or twist. When grinding is complete allow the workpiece to cool. Do not touch the hot surface.

#### 6. OVERLOAD

Overloading will cause damage to the motor of your angle grinder. This can happen if your angle grinder is subjected to heavy use for prolonged periods of time. Do not in any circumstances, attempt to exert too much pressure on your angle grinder to speed up your work.

The abrasive discs operate more efficiently when light pressure is exerted, thus avoiding a drop in the speed of your angle grinder. If your angle grinder becomes too hot, run your angle grinder under no load for 2-3 minutes until it has cooled to normal operation temperature.

## **WORKING HINTS FOR YOUR ANGLE GRINDER**

1. Your angle grinder is useful for both cutting through metals, ie.for removing screw heads, and also for cleaning / preparing surfaces, ie.before and after welding operations.
2. Different types of wheel/cutter will allow the grinder to meet various needs. Typically, grinding wheels/cutting discs are available for mild steel, stainless steel, stone and brick. Diamond impregnated discs are available for very hard materials.
3. If the grinder is used on soft metals such as aluminum the wheel will soon clog and will have to be changed.
4. At all times, let the grinder do the work, do not force it or apply excessive pressure to the wheel/disc.
5. If cutting a slot ensure that the cutter is kept aligned with the slot, twisting the cutter may cause the disc to shatter. If cutting through thin sheet, only allow the cutter to just project through the material, excessive penetration can increase the chance of causing damage.
6. If cutting stone or brick, it is advisable to use a dust extractor.

## **MAINTENANCE**



**WARNING:** Ensure the grinder is disconnected from the mains power supply before attempting any maintenance.

1. Keep the grinder ventilation slots clean and free from obstructions. If available, blow compressed air into the vents to clear any internal dust (safety goggles must be worn when undertaking this process).
2. Keep the outer case of the grinder clean and free from grease, Do not wash with water or use solvents or abrasive. Use only mild soap and a damp cloth to clean the tool. Never let any liquid get inside the tool. Never immerse any part of the tool into a liquid.
3. Your angle grinder requires no additional lubrication. There are no user serviceable parts in your power tool.
4. Always store your power tool in a dry place.
5. If you see some sparks flashing in the ventilation slots, this is normal and will not damage your power tool.

## **TROUBLESHOOTING**

Although your new angle grinder is really very simple to operate, if you do experience problems, please check the following:

1. If your grinder will not operate, check the power at the mains plug.
2. If your grinder wheel wobbles or vibrates, check that outer flange is tight, check that the wheel is correctly located on the flange plate.
3. If there is any evidence that the wheel is damaged, do not use as the damaged wheel may disintegrate, remove it and replace with a new wheel. Dispose of old wheels sensibly.
4. If working on aluminum or a similar soft alloy, the wheel will soon become clogged and will not grind effectively.

## **ENVIRONMENTAL PROTECTION**

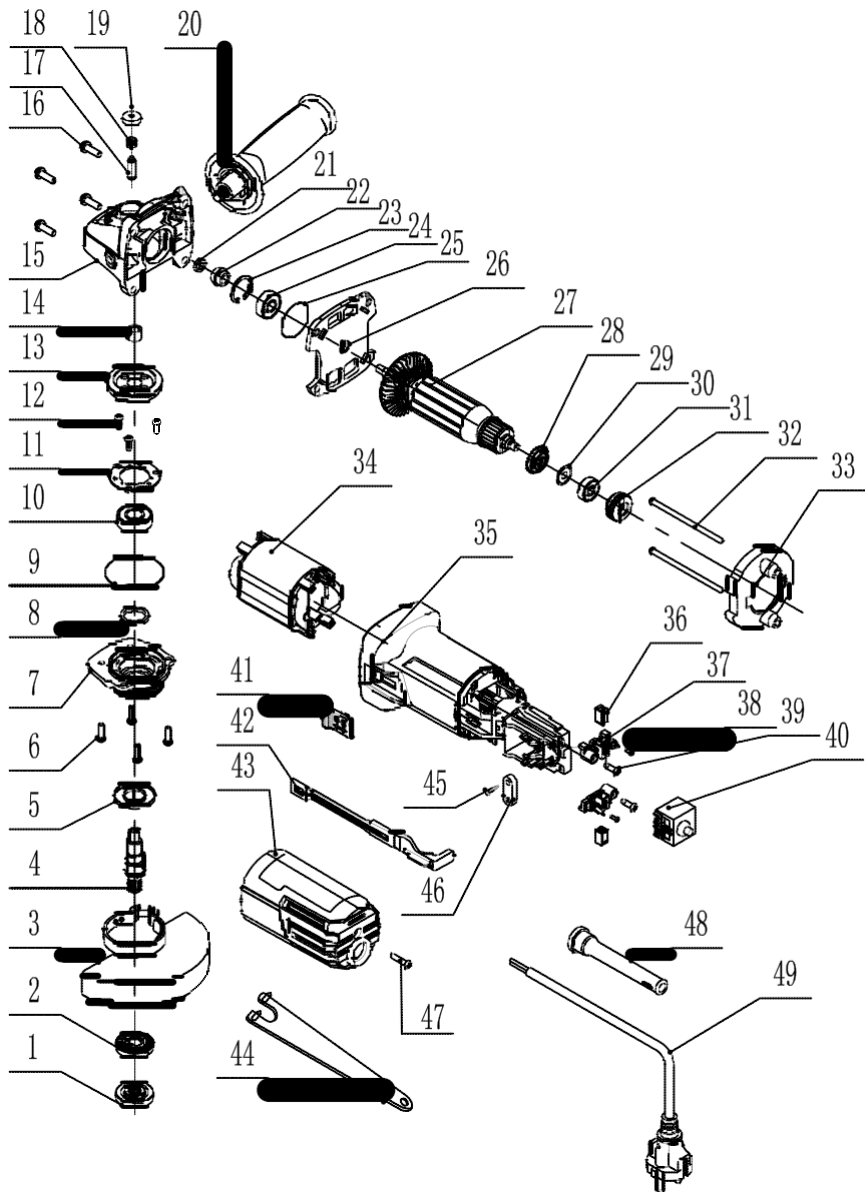


Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

**TG1091156,UTG1091156,TG1091156-2,TG1091156-3  
 TG1091156-6,TG1091156-8,TG1091156S  
 TG1101256,UTG1101256  
 TG1101256-6,TG1101256-8,TG1101256S Spare part list**

<b>No.</b>	<b>Part Description</b>	<b>Qty</b>	<b>No.</b>	<b>Part Description</b>	<b>Qty</b>
1	outer flange	1	26	middle plate	1
2	inner flange	1	27	armature	1
3	wheel guard	1	28	dust-proof ring	1
4	spindle	1	29	dust-proof spacer	1
5	dust cover	1	30	bearing 626	1
6	screw M4x12	4	31	bearing sleeve	1
7	gear box cover	1	32	screw ST4x75	2
8	wool ring	1	33	fan guard	1
9	ring	1	34	stator	1
10	bearing 6001	1	35	housing	1
11	bearing room cover	1	36	carbon brush	2
12	screw M5x10	3	37	brush box	2
13	big gear	1	38	screw ST3x8	2
14	needle bearing	1	39	screw ST4x12	2
15	gear box	1	40	switch	1
16	screw ST5x25	4	41	push button	1
17	pin	1	42	pushrod	1
18	spring	1	43	rear cover	1
19	cap	1	44	wrench	1
20	auxiliary handle	1	45	screw ST4x14	2
21	nut	1	46	cable clamp	1
22	pinion	1	47	screw ST4x18	1
23	circlip for hole	1	48	cable sleeve	1
24	bearing 608	1	49	cable	1
25	ring	1			

**TG1091156,UTG1091156,TG1091156-2,TG1091156-3  
 TG1091156-6,TG1091156-8,TG1091156S  
 TG1101256,UTG1101256  
 TG1101256-6,TG1101256-8,TG1101256S Exploding view**



# TOTAL

TG1091156,UTG1091156,TG1091156-2,  
TG1091156-3,TG1091156-6,TG1091156-8,  
TG1091156S

صاروخ موديل

TG1101256,UTG1101256,TG1101256-6  
TG1101256-8,TG1101256S



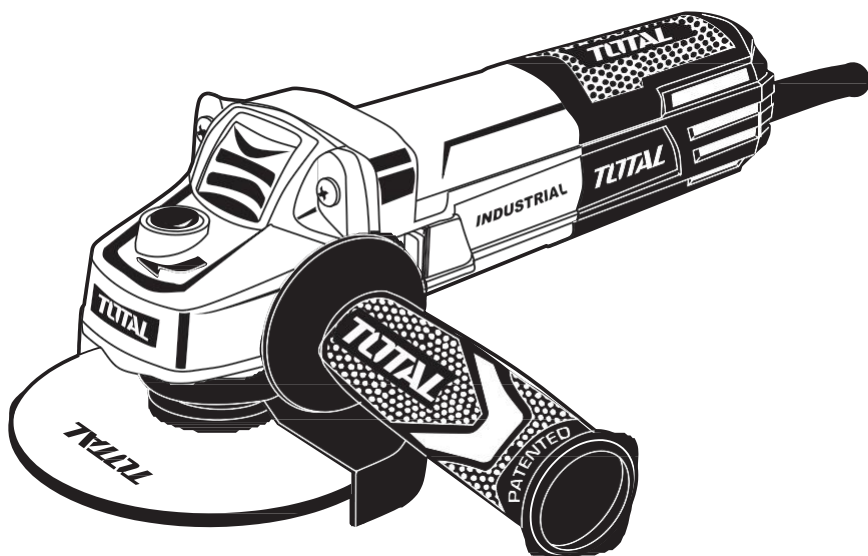
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2. مفتاح تشغيل والايقاف
3. جسم ذو ملمس مطاطى
4. كابل المعده
5. فتحة تهويه
6. يد كاويتش مريجه
7. حامى اسطوانة
8. علبة تروس
9. صامولة تثبيت اسطوانة
10. صامولة محور ارتكاز الاسطوانة

المنشأ صنع فى الصين

# TOTAL

One-Stop Tools Station

TOTAL



**ANGLE GRINDER**

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