

DÜREN TOOLS

Product Code: 321289

CORDLESS 2 SPEED 75MM POLISHER

Product Instruction Manual



WARNING!

Please read through this manual carefully before using the 321289.

This tool must only be used for polishing and within the parameters outlined in this manual. All users of the equipment should be trained in any risks associated with the products they are polishing or using as finishing aids.

WARNING! Tool not for use in work areas covered by Ex-protection regulations

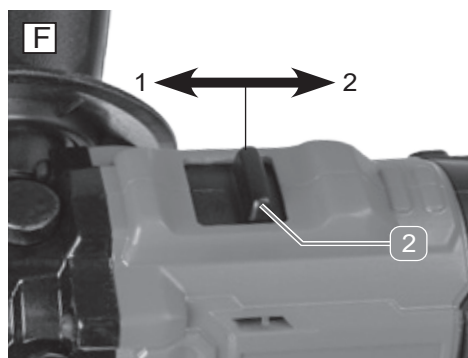
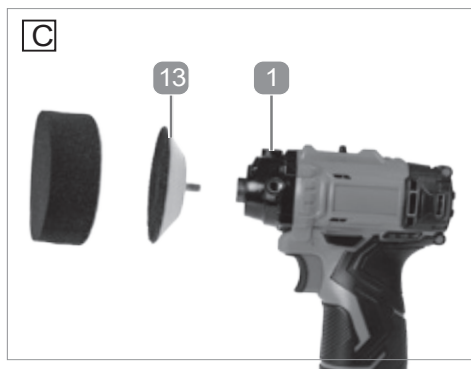
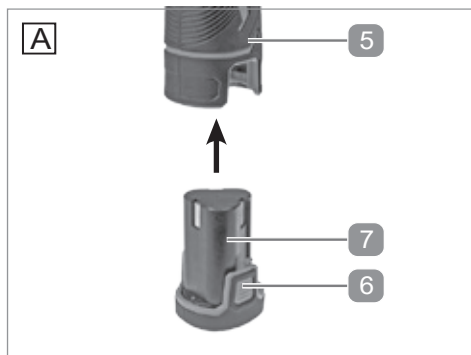
TECHNICAL DATA

Model:	XW-1204	Capacity	2000 mAh
Rated Voltage:	12 V	Idling Speed:	1. Speed 0 - 2600 rpm 2. Speed 0 - 7800 rpm



PLEASE KEEP THIS MANUAL IN A SAFE PLACE FOR FUTURE REFERENCE

USAGE DIAGRAMS



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SAFETY INSTRUCTIONS

These instructions are intended as a guide to the correct use of this equipment. The process or materials being polished may have risk characteristics requiring additional safety measures and these must be identified by the user. All users of this polisher must be thoroughly acquainted with this manual.

Before Use and Before Using Tool for the First Time

Make sure you have the relevant Personal Protection Equipment (PPE).



Hand Protection

The pad revolves at high speed and may cause damage if brought into contact with exposed flesh. The workpiece and the pad may also get hot after prolonged use. Hand protection must be strong enough to protect the skin and be a good fit and have no loose parts that may get caught in rotating parts.



Eye and Breathing Protection

The polishing process may create dust and other airborne particles. There is no dust extraction function on this machine so it is essential that approved eye and breathing protection is worn.



Noise and Ear Protection

Depending on the material being worked on and the type of polishing disc used, noise levels may cause hearing damage including temporary or even permanent hearing loss. It is recommended that Ear Protection is worn at all times when using the polisher.

Repetitive Strain Injury (RSI)

All products of this nature can cause RSI if used for long period, particularly in an awkward operating position. Adequate rest periods and working conditions should be considered for prolonged use.

Safety Instructions

The owner and/or the operator **MUST** read, understand and comply all points listed below.

1. You **MUST** check all electrical products, before use, to ensure that they are safe.
2. You **MUST** inspect plugs, sockets, power leads and any other connectors for wear or damage.
3. You **MUST** have any worn or damaged plugs, sockets and power leads replaced immediately upon discovery.
4. You **MUST** ensure that the risk of electric shock is minimised by the installation of appropriate safety devices.
5. A Residual Current Circuit Breaker (RCCB) should be incorporated in the main distribution board. If no RCCB is fitted, use of a Residual Current Device (RCD) is strongly recommended. If you are unsure, speak to a qualified electrician and have an RCCB fitted if necessary.
6. RCDs are available from most electrical retailers.
7. The Health & Safety at Work Act 1974 makes owners of electrical appliances responsible for the safe condition of those appliances and the safety of the appliance operators. If in any doubt about electrical safety, seek advice from the governing body or independent electrical training providers.
8. Ensure that the insulation on all cables and on the appliance are safe and intact before connecting it to the power supply.
9. Ensure that cables are always protected against short circuit and overload.
10. Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that none is loose or damaged.
11. Ensure that the voltage rating of the compressor matches your power supply and that the plug is fitted with the correct fuse.
12. Do not yank the plug from the socket as can cause damage to both plug and socket. Any damage to plugs or sockets is potentially lethal.
13. Never carry any electrical tool by its power lead.
14. If you are using an extension reel, ensure that it is fully unwound and that an RCD is fitted. A minimum cable core of 1.5mm is recommended although a core of 2.5mm will ensure that heavy loads can be handled. Your extension reel needs to be marked for outdoor use if working outside.

SAFETY INSTRUCTIONS

15. When the ASTA/BS approved UK 3 pin plug is damaged, cut the cable close to the plug and dispose of it safely. Fit a new plug according to the following instructions;

1. Connect the BROWN live wire to the live terminal 'L'.
2. Connect the BLUE neutral wire to the neutral terminal 'N'.
3. After wiring, check that there are no bare wires, that all wires have been correctly connected, that the cable outer insulation extends beyond the cable restraint and that the restraint is tight.

The plug fitted to this tool is fitted with a 13amp fuse.

This product is double insulated and marked with this symbol. It is fitted with live (brown) and  neutral (blue) wires only.



GENERAL SAFETY INSTRUCTIONS

1. Ensure the polishing pad is equal to or greater than 120% of the stated RPM of the polisher.
2. Keep the workplace clean and tidy.
3. Use the tool in a well ventilated area.
4. DO NOT hold the work-piece by hand, always make sure the work-piece is clamped securely.
5. Keep all flammable and combustible materials away from the work area.
6. Children and other unauthorised persons should be kept away from the work area.
7. NEVER use the polisher whilst the floor underfoot is wet or slippery.
8. NEVER use the polisher when standing on an unstable surface.
9. Keep the polisher out of reach of children.
10. Analyse the material you are polishing. Beware of the dangers of polishing lead based paints. Historically, paint contained lead and polishing such paint may cause toxic particles to enter the atmosphere. If you suspect that lead could be in the paint the following actions must be observed; Alert any other persons in the nearby and keep them away from the working area. Use specific air fed respirator, PE coated coveralls and latex gloves. Dispose of any dust and paint waste correctly and thoroughly clean the work-piece and working area after the polishing has finished.
11. NEVER attempt to sand materials containing asbestos.
12. VIBRATION. Hand electrical tools may produce vibration. Vibration from polishers can cause disease. The use of gloves will help reduce the risk and can help prevent injury.
13. Disconnect the electrical supply before changing disc or pad.
14. Ensure the polisher has stopped rotating before putting it down or handling the pad or disc.
15. NEVER carry the polisher by the power cord.
16. NEVER point the polisher at other persons.
17. NEVER operate the polisher whilst under the influence of drugs, alcohol or intoxicating medication.
18. Check you have no loose clothing, hair, jewellery or any other items of a personal nature that might become entangled with the rotating parts.
19. Be aware of the dangers of working in or on and building or material containing asbestos. Always take appropriate measures up to an including contracting licensed 3rd parties to remove and/or make safe and articles or asbestos.

SWITCH OFF UNIT IMMEDIATELY IF;

1. There is interruption of mains electrical supply such as in the case of a power cut.
 2. There damage occurs to the socket, plug, cable or cable entry into the unit.
 3. There is damage to the on/off switch on the unit.
 4. There is a smell of burning plastic.
 5. There is smoke coming from the motor housing.
- If in any doubt as to your own safety, cut the power at the main fuse board. Always familiarise yourself with the electrical layout of your work area.

BEFORE USE

- ! WARNING!** Do not use the polishing machine in potentially explosive atmospheres. Use the polishing machine only in ambient temperatures between 10 - 40°C.

Disconnect the polishing machine from the power source before making any settings, mounting or replacing accessories and carrying out maintenance.

Checking The Product And Scope Of Delivery

- ! WARNING!** Risk of suffocation! There is a risk of suffocation by ingestion or inhalation of films. Keep the packaging film out of the reach of children.
- Take the polishing machine and accessories out of the packaging
- Check that the delivery is complete (see section "Scope of delivery / Description of parts").
- Check the polishing machine and accessories for damages.
- Do not use the polishing machine if it is damaged or parts are missing. Contact the manufacturer via the service.

Inserting/Removing The Battery (Fig. A)

NOTE! Ambient temperature for operation: 10 - 40° C.

- Insert the battery **7** into the handle **5** until it locks in place.
- To remove the battery, press the battery unlocking latch **6** and slide the battery out of the handle.

Use only the batteries mentioned below:

Model	XW-1204
Rated voltage	12 V
Capacity	2000 mAh
Idling speed	1. Speed 0 - 2600 rpm 2. Speed 0 - 7800 rpm

Charging The Battery

(Fig. B)

CAUTION ! When charging and during high loads on the polishing machine, the battery gets heated up. Always allow the battery to cool down to room temperature before you charge the battery.

NOTE! Ambient temperature for charging: 0 - 40° C

- Remove the battery **7** from the handle, as described in chapter "Inserting / Removing the battery".
- Insert the battery into the battery holder of the charger **8**.
- Connect the plug of the charger to a suitable mains socket.

- i** The charger becomes warm and may buzz slightly during charging. This is normal and does not indicate a fault.
- After about 3 - 5 hours, the red charging indicator light goes out. The green charging indicator light lights up when the charging is completed.
- Disconnect the charger from the mains socket after charging is complete.
- To remove the battery, press the battery release button and take it out of the charger.

Checking The Battery Level

NOTE! Check the battery level regularly to avoid deep discharges.

To check the charging status, the battery level indicator **3** lights up when you press the on / off switch.

The charging status is indicated as follows:

- All 3 LEDs light up: Battery is charged
- 2 LEDs light up: Battery is partially charged
- 1 LED lights up: Battery needs to be charged

Mount The Sanding Or Polishing Attachment Mount (Fig. C)

NOTE! Ensure that the tool shaft and the tool holder are free from dust and lightly grease the shaft before inserting it into the chuck. This extends the service life of the chuck and the polishing machine.

- Push the spindle lock button up **1**.
- Mount the polishing / sanding plate **13** by turning it clockwise.
- Select the appropriate sanding or polishing attachment.
- To remove proceed in the reverse order.

Mounting/Removing The Additional Handle

(Fig. D)

- ! WARNING!** For safety reasons the additional handle an should always be used.

The additional handle is provided with an external thread.

- Fix the additional handle in clockwise direction to the left or right on the top of the tool depending on the work.

USE

Switching On / Off

(Fig. E)

NOTE! The polishing machine is locked if the shift lock ④ is on the right side.

Switching on:

- Press the On/Off switch ⑩.

Switching off:

- Release the On/Off switch.

The speed can be infinitely adjusted by varying the pressure exerted on the trigger.

Speed Selection

(Fig. F)

! **NOTE!** Change speeds only when the drill spindle has come to a complete stop. (Risk of damage to the gears)

i Always ensure that the speed selection switch ② properly locks into position 1 or 2.

Speed selection switch in position 1:

- 1. Speed (marked as L for low speed) 0 - 2600 rpm.

Speed selection switch in position 2:

- 2. Speed (marked as H for high speed) 0 - 7800 rpm.

SANDING AND POLISHING

Sanding

For sanding, use the appropriate sanding papers ⑪. The various sanding attachments are easy to change by means of the Velcro.

For rough finish, a coarse grit and for fine finish a fine grit is recommended. The optimum grit can be determined by carrying out a sanding test.

- Mount the required sanding attachment on the polishing/sanding plate.
- Switch on the product and run it with moderate pressure on the work-piece using circular, transverse or longitudinal movements.

Polishing

For polishing, use the appropriate polishing attachments ⑫. The various polishing attachments are easy to change by means of the Velcro.

! **NOTE!** Only use special wax and polish suitable for machines. Make sure that the work-piece to be machined never comes into contact with the polishing/grinding plate.

- Mount the required polishing attachment 10 on the polishing / sanding plate.
- Make sure that the selected polishing attachment is not contaminated and always mounted exactly in the centre on the polishing / sanding plate.
- Check if the polishing attachment is firmly attached before switching on.
- Switch on the product and run it with moderate pressure on the workpiece using circular, transverse or longitudinal movements.

WORK INSTRUCTIONS

! **CAUTION !** Do not apply excessive force on the product. Excessive pressure may damage the product or its accessories and increases the risk of injury. For this reason is it important to always grip the product firmly with two hands and maintain a stable posture.

Always secure your workpiece in a vice or in any other clamping device for sanding. Secure particularly large workpieces against sliding or support them properly.

Selecting the appropriate sanding as you need

i Tips For Polishing

- Make it that the polishing attachment rests completely on the polishing surface.
- Glue plastic parts to avoid colour changes.
- Polish in the shade and never polish hot varnish.

MAINTENANCE, CLEANING, STORAGE AND TRANSPORT

! **WARNING!** Disconnect the mains plug of the charger and remove the battery of the polishing machine before carrying out any adjustment, maintenance, repair or cleaning. To do this, remove the tool being used.

Maintenance

The polishing machine requires very little maintenance.

Only use spare parts / accessories from the manufacturer or authorised and qualified workshops.

Repairs should only be carried out by qualified technicians or by an authorised service centre.

Qualified technicians must have relevant training and experience, be familiar with the design and construction requirements of the product and understand and follow the safety regulations.

MAINTENANCE, CLEANING, STORAGE AND TRANSPORT

Cleaning

- ❗ **CAUTION!** When charging and during high loads on the polishing machine, the battery gets heated up. Always allow the battery to cool down to room temperature before you charge the battery.

Make sure that liquids do not get inside the polishing machine. not get inside the polishing machine.

- Clean the polishing machine with a moist cloth. Never use strong and / or abrasive cleaning agents or solvents. Allow all the parts to dry completely.
- The contact points on the battery and charger have to be kept clean. Disconnect the charger by unplugging it from the power supply before cleaning. Remove the battery before cleaning the polishing machine.
- Ensure that the ventilation slots are not blocked and clean the housing of the polishing machine regularly with a soft cloth.
- Remove the attachment before storage (see chapter "Mounting the sanding or polishing attachment").
- Remove the battery before putting the drill away (see chapter "Inserting/removing the battery").
- Clean the polishing machine before storage.
- If the polishing machine is not being used, keep it in a safe, cool, dry and well-ventilated place, out of the reach of children.
- Store the polishing machine and the battery at an ambient temperature of 0 - 45° C.
- Store the accessories after use in the storage case.

Transport

- Remove the attachment before transport (see chapter "Mounting the sanding or polishing attachment").
- Remove the battery before transporting the drill (see chapter "Inserting / removing the battery").
- Always carry the polishing machine using the handle provided for this purpose.
- Use the original packaging and secure the polishing machine in place during transport.

TROUBLESHOOTING

Problem	Possible cause	Rectification
Polishing machine does not start.	Battery empty.	Charge the battery.
	Problem with battery contacts.	Slide the battery into the guide on the polishing machine handle. The battery has to click into place audibly.
	Shift lock is in locked position.	Press the shift lock 4 to the left to unlock it.
Polishing machine is running but the polishing/sanding plate is not rotating.	Speed switch is not engaged.	Press the speed switch 2 to position 1 or 2 until it engages fully. or 2 until it engages fully.
Battery does not charge.	Battery charger is faulty.	Replace the charger.

WARNING!

Safety measures have to be defined to protect the operator based on an estimate of the vibration load during actual usage conditions (in this case all the parts of the operating cycle have to be considered, such as times when the power tool is turned off, and those where, the tool is turned on, but is running without load).

Depending on the way the tool is used and the operating conditions, the following safety precautions have to

- Try to avoid exposure to vibration as much as possible.
- Only use proper accessories.
- Wear anti-vibration gloves when using the polishing machine.
- Follow the instructions on maintenance and care of the polishing machine given in this manual.
- Avoid using the polishing machine at a temperature below 10°C and over 40°C.
- Plan your work in such a way so that you do not have to use vibrating tools over several days.

DECLARATION OF CONFORMITY

We declare that the equipment detail below, to the best of our knowledge and ability, complies with the following Directives.

Taken from Supplier

Equipment Description:

Part Code: 321289

Distributed in the EU by Duren Tools, a wholly owned subsidiary of Fast Mover Tools Ltd

Address Unit 1 Frenchs Avenue, Dunstable, Bedfordshire, LU6a1BH, United Kingdom

The following Transposed Harmonised Standards have been applied in the design and construction of this equipment:

EN 60745-1:2009/A11:2010

EN 60745-2-3:2011/A13:2015

The manufacturer and the distributor, stated above, hold the Technical Construction File for this equipment.

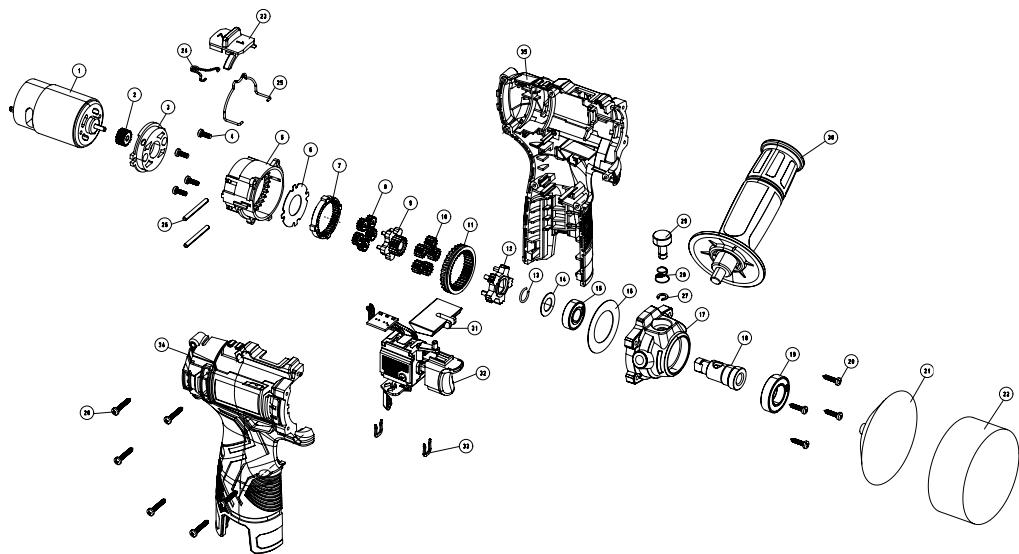
Signed on behalf of the distributor
(the responsible person)



Attachment Form No.....	EU_GD_IEC60745_1J
Attachment Originator	TÜV SÜD Product Service GmbH
Master Attachment	Date (2012-02)
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CENELEC COMMON MODIFICATIONS (EN)			
6	ENVIRONMENTAL REQUIREMENTS		
6.1	Noise (Test according to § 6.1.1 – § 6.1.2.8)		P
	Noise measurements	As below	P
6.1.2.9	Declaration and verification of noise emission values		P
	L_{pA} [dB(A)]	L_{pA} : 69 dB(A)	P
	K_{pA} [dB(A)]	Uncertainty: K=3 dB(A)	
	L_{pCpeak} (dB)		N/A
	K_{pCpeak} (dB)		
	L_{WA} [dB(A)]	L_{WA} : 80 dB(A)	P
	K_{WA} [dB(A)]	Uncertainty: K=3 dB(A)	
6.2	Vibration (Test according to § 6.2.1 – § 6.2.6)		P
	Vibration measurements		P
6.2.7.1	Reported vibration value		P
	Work mode - vibration emission value a (m/s ²).....	a_h : 1,013 m/s ² (main handle) a_n : 1,311 m/s ² (Front handle)	P
	Uncertainty K (m/s ²).....	K = 1,5 m/s ²	P
6.2.7.2	Declaration of the vibration emission value (instruction manual)		P
	Work mode - vibration emission value a (m/s ²).....	$a_h < 2,5$ m/s ²	P
	Uncertainty K (m/s ²).....	K = 1,5 m/s ²	P
8	MARKINGS AND INSTRUCTIONS		
8.1	Business name and address of the manufacturer and, where applicable, his authorised representative	Replaced by Annex K	—
	Designation of the tool	Replaced by Annex K	—
	Designation of series or type	Replaced by Annex K	—
	Year of manufacture	Replaced by Annex K	—
8.12	Additional: The translations must be bearing the words "Translation of the original instructions", and they		P

SPARE PART LIST



NO.	Part Name	QTY
1	Motor	1
2	Gear for motor	1
3	Motor bracket	1
4	Screw Mx*8	4
5	Gear box	1
6	1st washer	1
7	1st Ring gear	1
8	1st Planetary gear	5
9	1st Planetary frame	1
10	2nd Ring gear	5
11	2nd Planetary gear	1
12	2nd Planetary frame	1
13	Wire clamp 10	1
14	Small washer	1
15	Bear 6900	1
16	2nd washer	1
17	Alu. Head	1
18	Output shaft	1

NO.	Part Name	QTY
19	Bear 6902	1
20	Screw ST2.9X14	9
21	Polisher pad	1
22	Sponge attachment	1
23	Speed switch	1
24	Circlip for toggle	1
25	Circlip for speed	1
26	Pin	2
27	Circlip	1
28	Spring	1
29	shaft of spinde lock	1
30	side handle	1
31	toggle switch	1
32	Switch assembly	1
33	Circlip	1
34	right housing	1
35	left housing	1

NOTES

NOTES

DÜREN
TOOLS



WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.

DÜREN TOOLS

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