

# *challenge* **xtreme**

## **Operating Instructions Multi Tool**

**WARNING! PLEASE READ THESE INSTRUCTIONS  
BEFORE OPERATING THIS UNIT**

**KEEP THIS MANUAL FOR FUTURE REFERENCE**

**CE**

**EH-Art.-No.: 44.191.79**

**I.-Nr: 01018**

**CXMT 135**



Caution! - Read the operating instructions to reduce the risk of injury



Always wear PPE (Personal Protective Clothing).



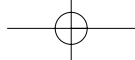
Wear eye protection!



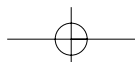
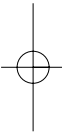
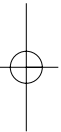
Wear Ear Protection!

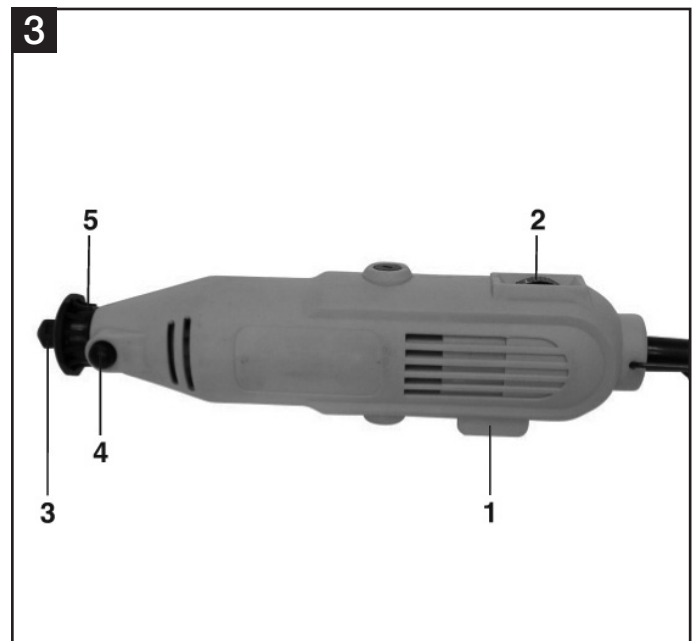
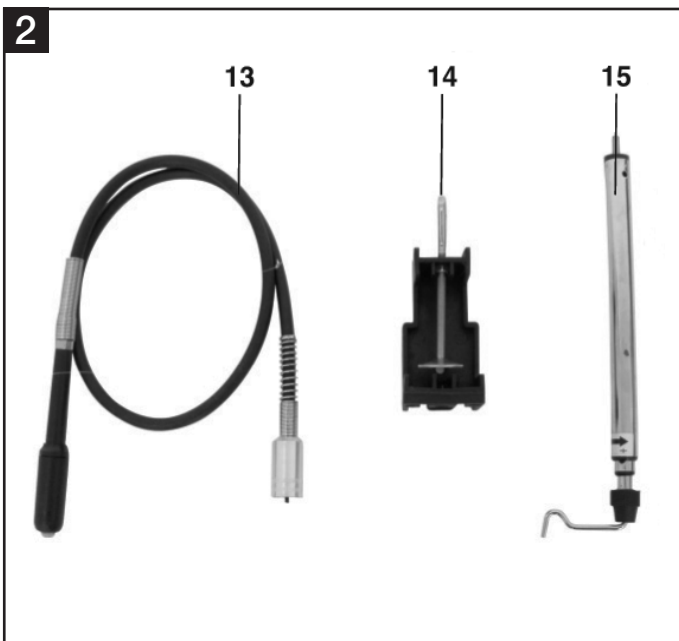


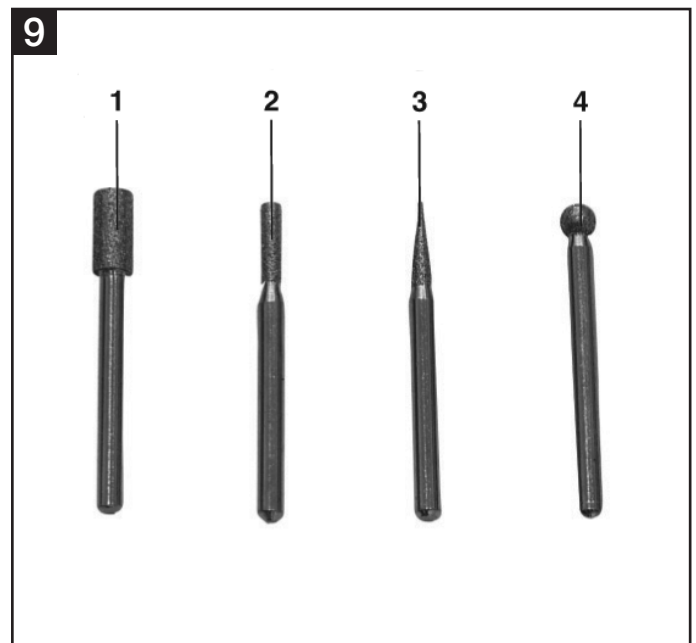
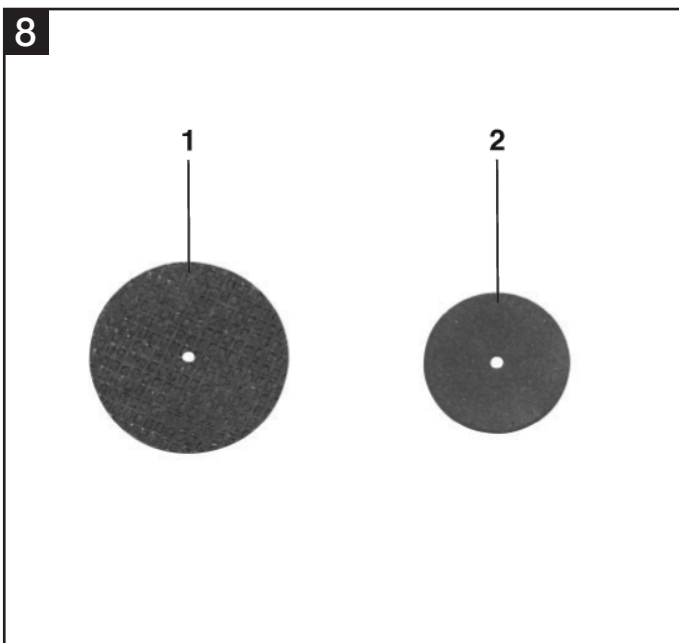
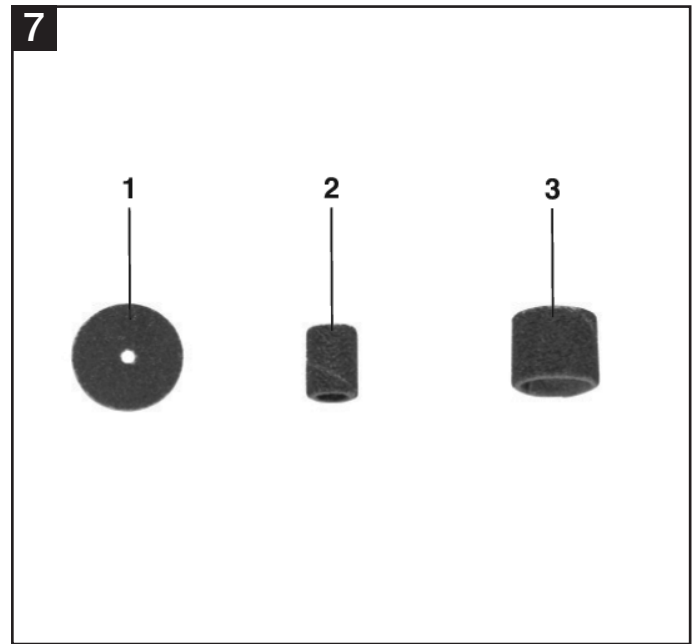
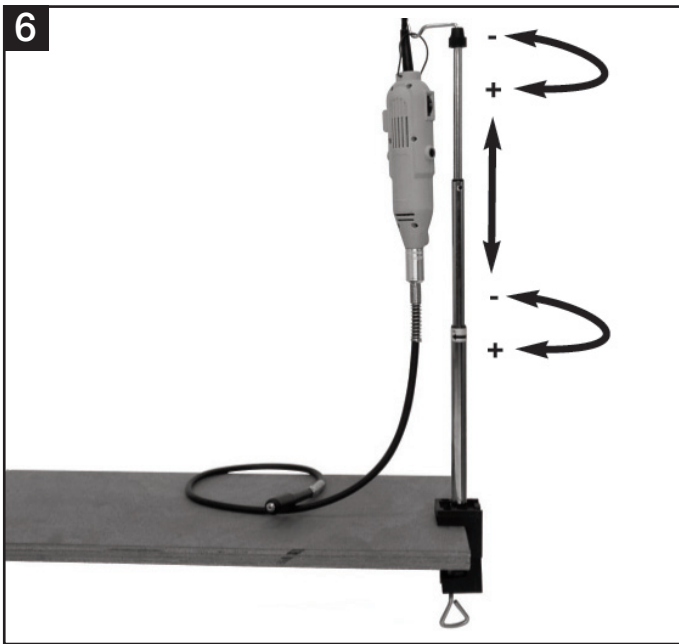
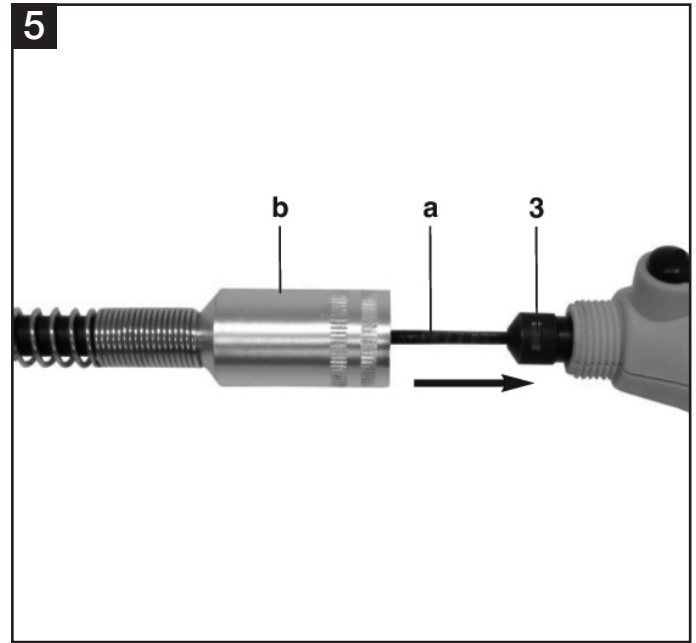
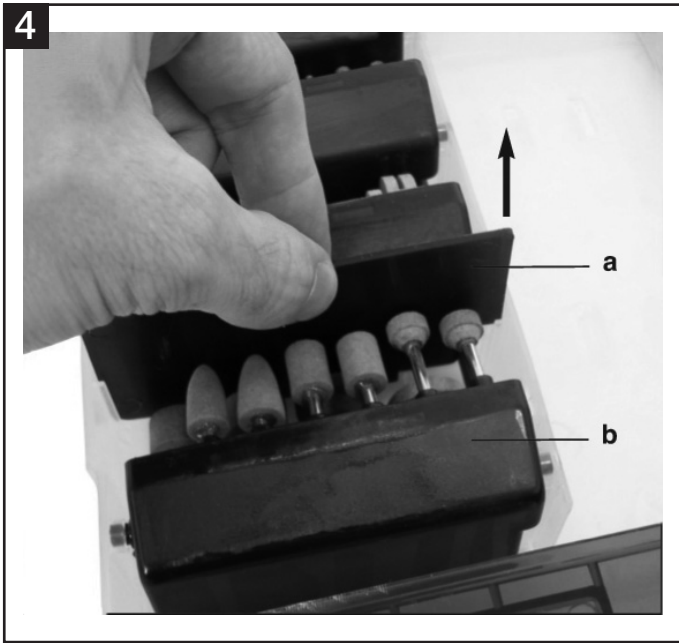
Beware of electrical voltage

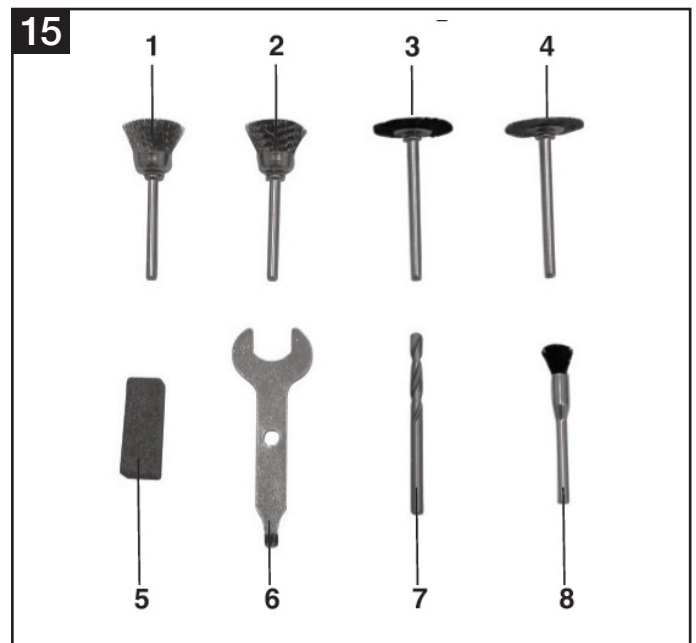
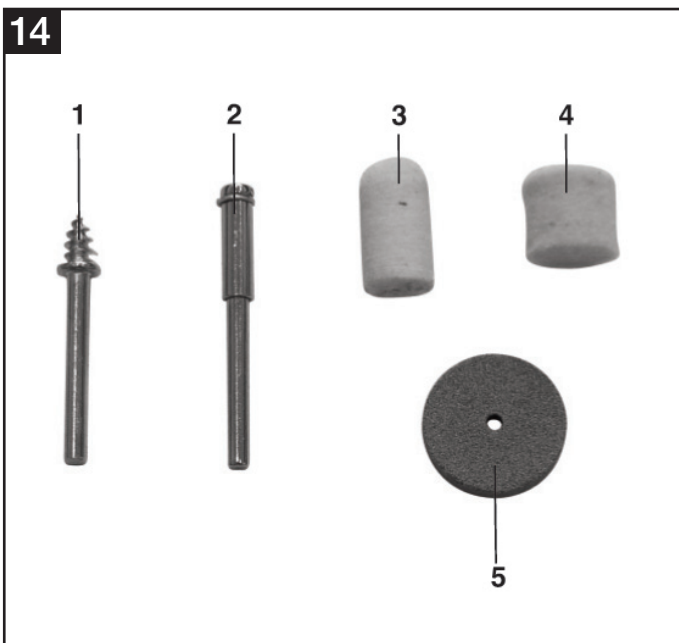
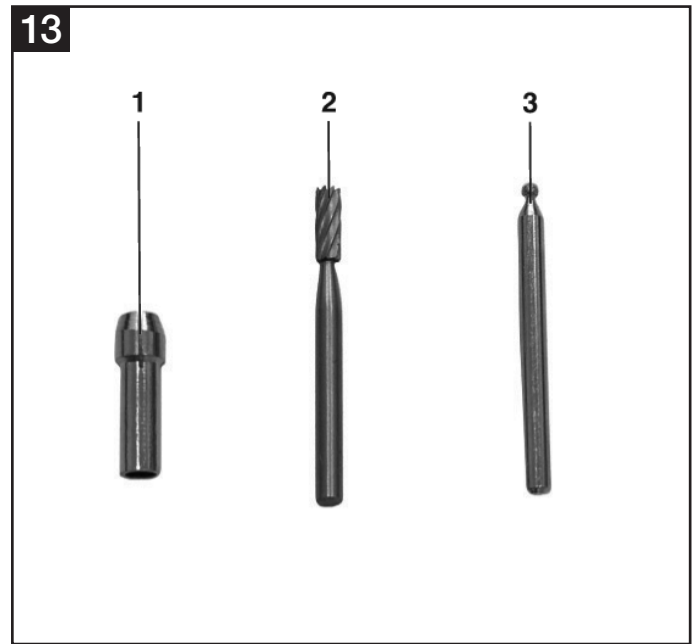
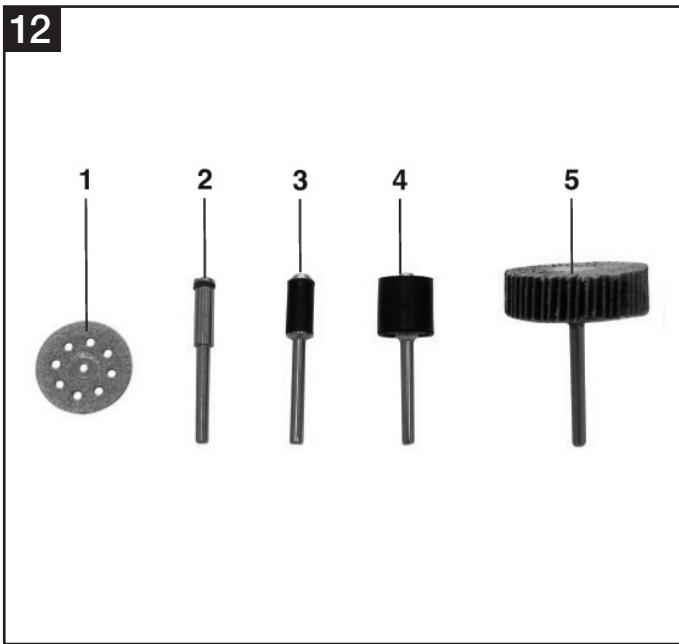
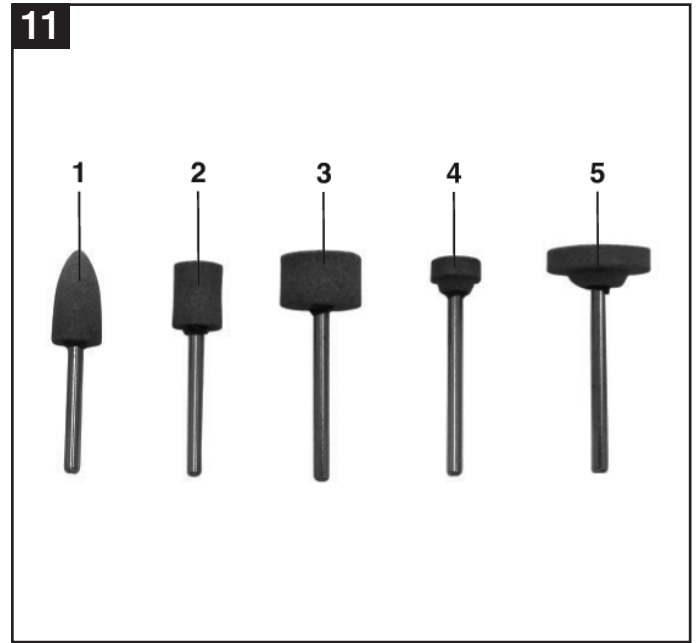
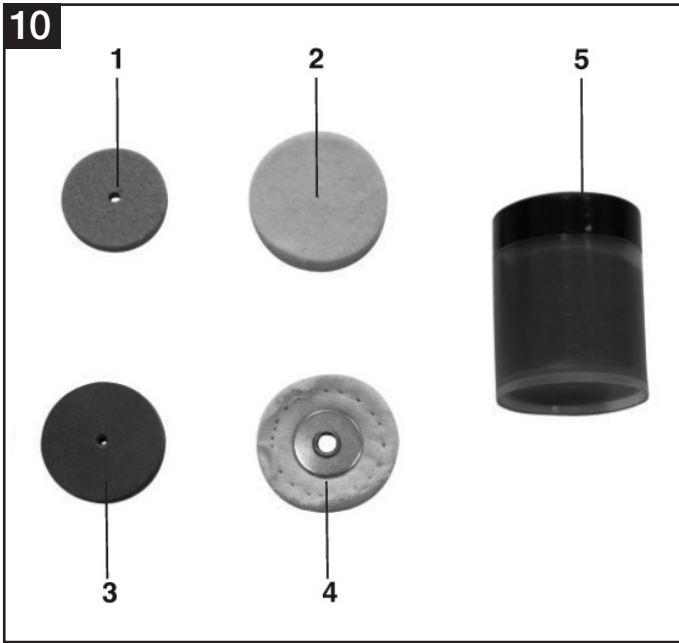


**Read the complete operating manual with due care and keep it in a safe place. If you give the unit to any other person, hand over this operating manual as well!**









## **⚠ Important!**

When using the equipment, a few safety precautions must be observed to avoid injuries and damage. Please read the complete operating instructions and safety regulations with due care. Keep this manual in a safe place, so that the information is available at all times. If you give the equipment to any other person, hand over these operating instructions and safety regulations as well. We cannot accept any liability for damage or accidents which arise due to a failure to follow these instructions and the safety instructions.

## **1. Safety instructions**

The corresponding safety information can be found in the enclosed booklet.

### **⚠ CAUTION!**

**Read all safety regulations and instructions.**

Any errors made in following the safety regulations and instructions may result in an electric shock, fire and/or serious injury.

**Keep all safety regulations and instructions in a safe place for future use.**

## **2. Items supplied (Fig. 1/2)**

- 1 Case
- 2 Grinding wheels
- 3 Grinding belts
- 4 Flap wheel/diamond cutting wheel/grinding heads/clamping spindles
- 5 Cutters/diamond-tipped cutters/sleeves
- 6 Felt polishers/grinding wheels/arbors
- 7 Bristle brushes/wire brushes/bits/collet chuck key/whetstone
- 8 Drive unit
- 9 Grinding pins
- 10 Polishing wheels/polishing paste/grinding wheels
- 11 Diamond-tipped cutters
- 12 Cutting-off wheels
- 13 Flexible shaft
- 14 Table clamp
- 15 Telescopic stand rod

## **3. Layout (Fig. 3)**

- 1 ON/OFF switch
- 2 Speed controller
- 3 Collet chuck nut
- 4 Locking knob for collet chuck
- 5 Cover

## **4. Proper use**

The Grinding and Engraving Set is designed to perform drilling, grinding, deburring, polishing, engraving, cutting, milling and cleaning jobs on wood, metal and plastic in model-making, workshop

and household applications. Use the tool and accessories only for those applications described.

The machine is to be used only for its prescribed purpose. Any other use is deemed to be a case of misuse. The user / operator and not the manufacturer will be liable for any damage or injuries of any kind caused as a result of this.

Please note that our equipment has not been designed for use in commercial, trade or industrial applications. Our warranty will be voided if the machine is used in commercial, trade or industrial businesses or for equivalent purposes.

## **5. Technical data**

Operating voltage of the drive unit:	230V ~ 50 Hz
Power input:	135 W
Idle speed $n_0$ :	10,000 - 35,000 rpm
Clamping range:	3.2 mm
Weight of tool (without packing):	0.61 kg
Sound pressure level $L_{pA}$ :	70.1 dB
Sound power level $L_{WA}$ :	83.1 dB
Vibration $a_{hv}$ :	< 2,5 m/s <sup>2</sup>
Totally insulated	II / <input type="checkbox"/>

## **6. Before starting the equipment**

### **6.1. Taking out the accessories (Fig. 4)**

**⚠** Before you take out the accessories, you must remove the two transportation braces. To do so, pull each transportation brace (a) out of the guide. Then tilt the accessory holder (b) forwards.

### **6.2. Inserting the various tools (Fig. 3)**

Before inserting a tool (and before each tool change) switch of the drive unit and pull the power plug.

1. Press the locking knob (4) and turn the collet chuck until the bolt locks into place.
2. Undo the collet chuck nut (3).
3. Insert the required tool into the sleeve and tighten the collet chuck nut (3).

### **6.3. Installing the flexible shaft (Figs. 3/5)**

- Unscrew the cover (5) from the front of the equipment.
- Undo the collet chuck nut (3).
- Insert the internal shaft (a) of the flexible shaft into the collet chuck (3).
- Tighten the collet chuck nut (3).
- Now tighten the ring (b) on the multi-tool.

### **6.4 Using the stand (Fig. 6)**

- Fit the stand to a workbench
- The stand is adjustable in height and can be adjusted

as shown in Fig. 6.

- The multi-tool can now be attached to the stand.

## 7. Using the tool for the first time

- Make sure that the drive unit is switched off.
- Check that the mains voltage specified on the rating plate of the power supply unit is the same as your mains supply. Only then should you insert the plug of the power supply unit into a socket-outlet.

### 7.1. ON/OFF switch (Fig. 3)

Switch on the drive unit with the power switch (1).

### 7.2. Speed selector (Fig. 3)

The required speed can be set with the speed control (2). The correct speed depends on the tool used and the type of material being processed.

### 7.3 Directions for use

- With small milling cutters/grinding pins: Use a high speed.
- With large milling cutters / grinding pins: Use a low speed.
- Precision work / engraving: Hold the drive unit like a pen.
- Rough work: Hold the drive unit like a hammer.

### 7.4 Tips

- Exert only moderate pressure on the workpiece and allow it to be processed at uniform speed.
- You will not finish your work sooner by exerting heavy pressure. On the contrary, heavy pressure will cause the drive unit to slow down or stop and will overload the motor.
- For your own safety, use a vise or screw clamp to secure small workpieces.

## 8. Accessories

### 8.1. Accessories (Fig. 7/Fig. 1; Item 2-3)

- 1 Grinding wheel
- 2 Grinding belt (small)
- 3 Grinding belt (large)

### 8.2. Accessories (Fig. 8/Fig. 1; Item 12)

- 1 Cutting wheel (large)
- 2 Cutting wheel (small)

### 8.3. Accessories (Fig. 9/Fig. 1; Item 11)

- 1 Diamond-tipped cutter (cylindrical, large)
- 2 Diamond-tipped cutter (cylindrical, small)
- 3 Diamond-tipped cutter (pointed)
- 4 Diamond-tipped cutter (ball-shaped)

### 8.4. Accessories (Fig. 10/Fig. 1; Item 10)

- 1 Grinding wheel
- 2 Felt polishing wheel
- 3 Emery wheel
- 4 Fabric polishing wheel
- 5 Polishing paste

### 8.5. Accessories (Fig. 11/Fig. 1; Item 9)

- 1-5 Grinding pins

### 8.6. Accessories (Fig. 12/Fig. 1; Item 4)

- 1 Diamond cutting wheel
- 2 Clamping spindle for diamond cutting wheel
- 3 Grinding head for grinding belts (small)
- 4 Grinding head for grinding belts (large)
- 5 Flap wheel

### 8.7. Accessories (Fig. 13/Fig. 1; Item 5)

- 1 Sleeve
- 2 Cutter
- 3 Diamond-tipped cutter (ball-shaped)

### 8.8. Accessories (Fig. 14/Fig. 1; Item 6)

- 1 Arbor for felt wheels
- 2 Arbor for grinding wheels
- 3 Felt polishing wheel
- 4 Felt polishing wheel
- 5 Grinding wheel

### 8.9. Accessories (Fig. 15/Fig. 1; Item 7)

- 1 Wire brush
- 2 Wire brush
- 3 Bristle brush
- 4 Wire brush
- 5 Whetstone
- 6 Collet chuck
- 7 HSS bits
- 8 Bristle brush

### 8.10. Description of the accessories:

#### Cutting disks:

For cutting metal and plastic.

Insert the cutting wheel onto the clamping spindle.

#### Grinding pins:

In various grinding head shapes.

For grinding and deburring metal and plastic.

#### HSS bits:

For drilling work on non-ferrous metals, wood, plastic and printed circuit-boards.

#### Grinding wheels:

For cleaning and sharpening blades and tools. Insert the grinding wheel onto the clamping spindle.

#### Grinding paper:

For grinding and deburring wood and plastic.

#### Polishing wheels/polishing pins/emery wheels:

For polishing brass, tin, copper, etc. Also for use with polishing pastes.

#### Whetstone:

For sharpening tools.



**Wire brushes:**

For cleaning stone, metal, aluminium, etc.

**Grinding belts:**

For grinding wood and plastic.

**Diamond-tipped cutters:**

For cutting and engraving ceramic, glass and other hard materials.

**Diamond cutting wheel:**

For cutting, separating, grinding and deburring materials, such as concrete, stone, china, ceramic, etc.

**Flap wheel:**

For grinding metal, wood and plastic. For straight surfaces and contoured surfaces.

**Sleeves:**

Various sizes for mounting different accessory tools.

**Cutters:**

For cutting plastic, wood and soft metal.

**Bristle brushes:**

For cleaning and polishing metal surfaces (i.e. cutlery, jewelry, etc.) Also for use with polishing pastes.

**Collet chuck key:**

For mounting accessory tools.

## 9. Cleaning, maintenance and ordering of spare parts

Always pull out the mains power plug before starting any cleaning work.

### 9.1 Cleaning

- Keep all safety devices, air vents and the motor housing free of dirt and dust as far as possible.
- Wipe the equipment with a clean cloth or blow it with compressed air at low pressure. (Ensure the air is always directed away from you, and not towards another person or animal.)
- We recommend that you clean the device immediately each time you have finished using it.
- Clean the equipment regularly with a moist cloth and some soft soap. Do not use cleaning agents or solvents; these could attack the plastic parts of the equipment. Ensure that no water can seep into the device.

### 9.2 Carbon brushes

- In case of excessive sparking, have the carbon brushes checked only by a qualified electrician. Important! The carbon brushes should not be replaced by anyone but a qualified electrician.

### 9.3 Maintenance

- There are no parts inside the equipment which require additional maintenance.

### 9.4 Ordering replacement parts:

Please quote the following data when ordering replacement parts:

- Type of machine
- Article number of the machine
- Identification number of the machine
- Replacement part number of the part required

For our latest prices and information please go to [www.isc-gmbh.info](http://www.isc-gmbh.info)

## 10. Disposal and recycling

The unit is supplied in packaging to prevent it being damaged in transit. This packaging is raw material and can therefore be reused or can be returned to the raw material system.

The unit and its accessories are made of various types of material, such as metal and plastic. Defective components must be disposed of as special waste. Ask your dealer or your local council.



## Declaration of Conformity

ISC-GmbH · Eschenstraße 6 · D-94405 Landau/Isar

- D** erklårt folgende Konformität gemäß EU-Richtlinie und Normen für Artikel
- GB** declares conformity with the EU Directive and standards marked below for the article
- F** déclare la conformité suivante selon la directive CE et les normes concernant l'article
- NL** verklaart de volgende conformiteit in overeenstemming met de EU-richtlijn en normen voor het artikel
- E** declara la siguiente conformidad a tenor de la directiva y normas de la UE para el artículo
- P** declara a seguinte conformidade de acordo com a directiva CE e normas para o artigo
- S** förklarar följande överensstämmelse enl. EU-direktiv och standarder för artikeln
- FIN** ilmoittaa seuraavaa Euroopan unionin direktiivien ja normien mukaista yhdenmukaisuutta tuotteelle
- N** erklærer herved følgende samsvar med EU-direktiv og standarder for artikkel
- RUS** заявляет о соответствии товара следующим директивам и нормам ЕС
- HR** izjavljuje sljedeću uskladenost s odredbama i normama EU za artikl.
- RO** declară următoarea conformitate cu linia directoare CE și normele valabile pentru articolul.
- TR** ürün ile ilgili olarak AB Yönetmelikleri ve Normları gereğince aşağıdaki uygunluk açıkla masını sunar.
- GR** δηλώνει την ακόλουθη συμφωνία σύμφωνα με την Οδηγία ΕΕ και τα πρότυπο για το προϊόν

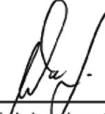
- I** dichiara la seguente conformità secondo la direttiva UE e le norme per l'articolo
- DK** attesterer følgende overensstemmelse i henhold til EU-direktiv og standarder for produkt
- CZ** prohlašuje následující shodu podle směrnice EU a norem pro výrobek.
- H** a következő konformitást jelenti ki a termékek-re vonatkozó EU-irányvonalak és normák szerint
- SLD** pojasnjuje sledečo skladnost po smernici EU in normah za artikel.
- PL** deklaruje zgodność wymienionego poniżej artykułu z następującymi normami na podstawie dyrektywy WE.
- SK** vydáva nasledujúce prehlásenie o zhode podľa smernice EÚ a noriem pre výrobok.
- BG** декларира следното съответствие съгласно директивите и нормите на ЕС за продукта.
- UKR** заявляє про відповідність згідно з Директивою ЄС та стандартами, чинними для даного товару
- EE** deklareerib vastavuse järgnevatele EL direktiivi dele ja normidele
- LT** deklaruoja atitiktį pagal ES direktyvas ir normas
- RS** izjavljuje sledeći konformitet u skladu s odred bom EZ i normama za artikl
- LV** Atbilstības sertifikāts apliecina zemāk minēto preču atbilstību ES direktīvām un standartiem
- IS** Samræmisýfirlýsing staðfestir eftirfarandi samræmi samkvæmt reglum Evfrópubandalagsins og stöðlum fyrir vörur

## CXMT 135 Multi Tool

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> 98/37/EG    | <input type="checkbox"/> 87/404/EWG       |
| <input checked="" type="checkbox"/> 2006/95/EG  | <input type="checkbox"/> R&TTED 1999/5/EG |
| <input type="checkbox"/> 97/23/EG               | <input type="checkbox"/> 2000/14/EG:      |
| <input checked="" type="checkbox"/> 2004/108/EG | <input type="checkbox"/> 95/54/EG:        |
| <input type="checkbox"/> 90/396/EWG             | <input type="checkbox"/> 97/68/EG:        |
| <input type="checkbox"/> 89/686/EWG             |   |

**EN 50144-1; EN 55014-1; EN 55014-2; EN 61000-3-2; EN 61000-3-3**

Landau/Isar, den 23.08.2007

  
Weichselgartner  
General-Manager

  
Mayr  
Product-Management

Art.-Nr.: 44.191.79 I.-Nr.: 01018  
Subject to change without notice

Archivierung: 4419170-44-4155050

