

# **POLY-PTX Eco Smart**

**Operating instructions**

**Detail drawing**

**Spare part list**



**Contact us if you have any questions!**

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You have made a good decision by buying our **PTX Eco Smart**. This grinding and polishing machine with its large variety of tools accessories can be universally used for most surface problems. Due to its ergonomic form and low weight, it is particularly easy to operate.

You can obtain very decorative surfaces through the exact continuous speed control at the handle. A built-in tachogenerator provides powerful numbers of revs. Technical and mechanical features have especially been tuned.

## A) Use - Operating

**Do not work without a PTX protective cover !**

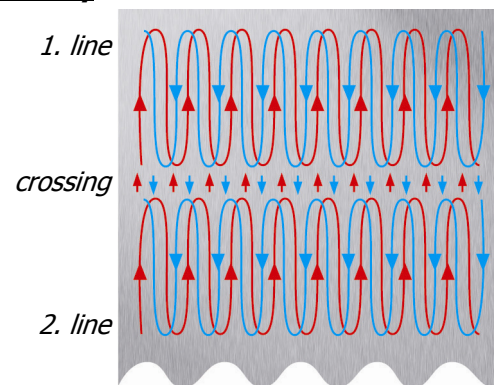
Using of the tools:

1. Press the spindle lock on the housing and simply slide on the grinding wheels, brushes or wheels turning in the correct direction on to the finned shaft. They will be secured automatically. (Before press the spindle lock!)
2. Even narrow grinding wheels can be used on the POLY-PTX Eco Smart and above all positioned freely on the finned shaft (no spacer rings required).
3. Grinding in corners - simply slide the grinding roller on the finned shaft a little towards the outside.

### **Important information about handling for grinding and satin without any shadows!**

**For grinding short pieces about 12-16" length, move forward and backward in machine direction. concurrent and sidewise motion of the machine, you will get a seamless transition and decorative surfaces (oscillation-effect!).**

**Bigger metal-sheets are processed stepwise. By reduced grinding pressure from one to the other grinding area, the different grinding areas will be blended into one shadow-free surface.**



## B) Revs

Easy continuous speed control by a dial on the handle: 950 - 3,700 rpm

**Step B-C-D** is the ideal speed range for most tools and allows very clean, shadow-free surfaces, particularly with **PTX Eco Smart flap-, inter leaf-, gum and fleece wheels**.

In order to remove dirt or scratches, or when using brushes, speed can be increased.

**Step D-E** is recommended for use with **PTX** felt sleeve and SuperPolish sleeve up to mirror polishing.

**Step B-C** is recommended for use with grinding belts.

### C) Grinding belt accessory

1. By fitting our abrasion-proof **PTX Eco Smart-grinding belt roll**, you can rapidly convert the **PTX Eco Smart** into a belt grinding tool for working round stock, e.g. pipes.



### D) Grinding belt use (Please turn the grinding- and polishing belts inside!)

The grinding or polishing belt is centrally moved over the work piece and grinding belt roll, pulled tight rearwards and used with approximate speeds B-C. The belt works over the desired points by tensioning and lateral displacement.



### E) Maintenance

#### 1. Carbon brushes:

Only wear carbon brushes up to the white mark. **Only use the replacement carbon brushes supplied by us.** Our **guarantee obligations no longer apply**, if you do not use our carbon brushes.

Pull the plug out of the socket, loosen screws **A** and slide back cover **B**. Disconnect cords, remove carbon brushes, clean the carbon holder with pressure-air. Insert new carbon brushes (which must not jam in the carbon holder). Insert contact discs of the cords in the lug adapter plug and slide on to the carbon holder contact plate and refit the compression springs. Check the correct positioning of the switch and again mount the cover (do not jam in the cords). Sparking of the brush can be observed through the air inlet slots. Switch off the machine immediately in the case of strong sparking. To avoid serious damage as a result, it is advisable to send the machine to us.

#### 2. Cleaning:

Metal dust deposits in the interior of the machine can be prevented by blowing out with compressed air through the air inlet slots.

#### 3. Gear:

Do not loosen the screws on the gear head within the guarantee period, because otherwise our guarantee no longer applies. Replace the gear grease after about 1,500 operating hours. By removing screws Pos.**210**, the gear cover Pos.**213** can be removed, the old gear grease removed and replaced by 16 g gear grease.

### Technical Data:

**1,710 Watt, 15 AMP**, 110 Volt, 60 Hz., continuous speed regulation by controlled tachogenerator (constant speed); weight about 7.25 lbs (3.3 kg.)

Noise/vibration information: The typical weighted acceleration is < 2.5 VDS/s.. Typically the A-weighted noise levels are: Sound pressure level: 82 db (A). Sound power level: 95 db (A). **Wear ear protection!**

### Guarantee:

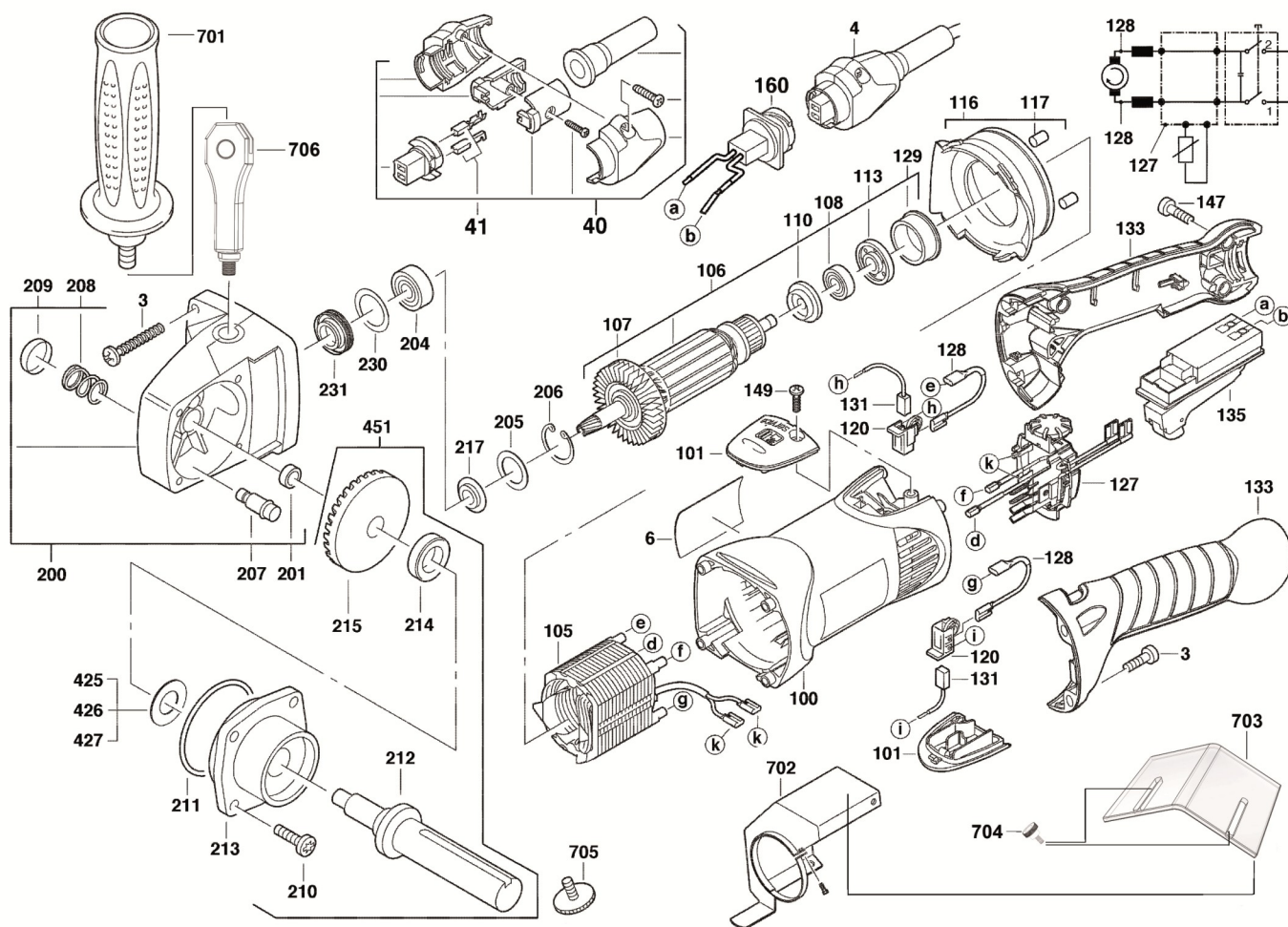
A 12 month guarantee (as from invoice date) is given for all technical and mechanical parts, except in the case of outside culpability.

**Spares can be supplied according to the list. We will carry out necessary repairs.**

**Service centres are listed on our website or contact us!**

# POLY-PTX Eco Smart

Model 1800 - 1710 Watt / 15 Amp / 110 V



## Model 120 V

| Pos. | Item-No. | Designation                 | Pos. | Item-No. | Designation                   |
|------|----------|-----------------------------|------|----------|-------------------------------|
| 3    | 52003-3  | Screw                       | 200  | 52265    | Gear box with threaded insert |
| 4    | 52004-2  | Cable ( 4 m ) 110 V         | 201  | 52201    | sleeve                        |
| 100  | 52100-3  | Motor-plastic case          | 204  | 52204    | Ball bearing                  |
| 101  | 52101-3  | Service case cover          | 205  | 52205    | Washer                        |
| 105  | 52251a   | Magnetic field 110 V        | 206  | 52206    | Locking ring                  |
| 106  | 52252a   | Armature with pinion 110 V  | 207  | 52207    | Locking pin                   |
| 107  | 52107    | Fan                         | 208  | 52208    | Compressing spring            |
| 108  | 52108    | Ball bearing                | 209  | 52209    | Push button                   |
| 110  | 52110    | Sealing ring                | 210  | 52210    | Screw                         |
| 113  | 52113    | Magnetic ring               | 211  | 52211    | Spacer                        |
| 116  | 52253    | Flange                      | 212  | 52212    | Spindle shaft                 |
| 117  | 52117    | Spacer ring                 | 213  | 52213    | Bearing shield                |
| 120  | 52120-3  | Carbon brush holder         | 214  | 52214-3  | Spacer ring                   |
| 127  | 52127-2  | Electronic-unit 110 V       | 215  | 52215-3  | Crown wheel                   |
| 128  | 52128    | Cable                       | 217  | 52217    | Sealing ring                  |
| 129  | 52129    | Bearing cover               | 230  | 52230    | Washer                        |
| 131  | 52131-1  | Carbon brush 110 V          | 231  | 52231-3  | Nut                           |
| 133  | 52133    | switch handle with softgrip | 701  | 52700    | Grip with foam M8x50          |
| 135  | 52135-3  | Switch                      | 702  | 52702    | Protection cover complete     |
| 147  | 52003-3  | Screw                       | 703  | 52706    | Polycarbonat extension        |
| 149  | 52149-3  | Screw                       | 704  | 65208    | Knurled screw                 |
| 160  | 52160-3  | Cable connection            | 705  | 50048    | Screw of spindle shaft        |
|      |          |                             | 706  | 52710    | Variable handgrip             |

## **Safety Instructions For All Tools**

- **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.
- **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite injuries.
- **CONSIDER WORK AREA ENVIRONMENT.** Don't expose power tools to rain. Don't use power tools in damp or wet locations. Keep work area well lit. Do not use tool in presence of flammable liquids or gases.
- **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces. For example: pipes, radiators, ranges and refrigerator enclosures.
- **KEEP CHILDREN AWAY.** Do not let visitors contact tool or extension cord. All visitors should be kept away from work area.
- **STORE IDLE TOOLS.** When not in use, tools should be stored in dry, and high or locked-up place - out of reach of children.
- **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was intended.
- **USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy-duty tool. Don't use tool for purpose not intended-for example-don't use POLY-PTX Eco Smart for grinding tree limbs or logs.
- **DRESS PROPERLY.** Do not wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
- **USE SAFETY GLASSES.** Also use face or dust mask if grinding operation is dusty.
- **DON'T ABUSE CORD.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
- **SECURE WORK.** Use clamps or vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
- **DON'T OVERREACH.** Keep proper footing and balance at all times.
- **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically for damage, have repaired by authorized service, control extension cords periodically and replace if damaged. Keep it dry, clean, and free from oil and grease.
- **DISCONNECT OR LOCK OFF TOOLS** when not in use, and when changing accessories, such as wheels, rings and rolls.
- **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
- **AVOID UNINTENTIONAL STARTING.** Don't carry tool with finger on switch. Be sure switch is off when plugging in.
- **EXTENSION CORDS.** Make sure your extension cords are in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. The following table shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller gage number, the heavier the cord.

## CE 94 Attachment for **PTX Eco Smart** - manual

### ENGLISH

#### EC DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product is in conformity with the following standards or standardization documents: EN 60745, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3 according to the provisions of the regulations 2006/42/EG, 2004/108/EG.

### DEUTSCH

#### CE-KONFORMITÄTSERKLÄRUNG

Wir erklären in alleiniger Verantwortung, dass dieses Produkt mit den folgenden Normen oder normativen Dokumenten übereinstimmt: EN 60745, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3 gemäß den Bestimmungen der Richtlinien 2006/42/EG, 2004/108/EG.

### FRANÇAIS

#### DÉCLARATION "CE" DE CONFORMITÉ

Nous déclarons sous notre propre responsabilité que ce produit est en conformité avec les normes ou documents normalisés: EN 60745, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3 conformément aux termes des réglementations 2006/42/EG, 2004/108/EG.

### ITALIANO

#### DICHIARAZIONE DI CONFORMITÀ CE

Assumendone la piena responsabilità, dichiariamo che il prodotto è conforme alle seguenti normative ed ai relativi documenti: EN 60745, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3 in base alle prescrizioni delle direttive 2006/42/EG, 2004/108/EG.

### ESPAÑOL

#### DECLARACION DE CONFORMIDAD CE

Declaramos bajo nuestra sola responsabilidad que este producto está en conformidad con las normas o documentos normalizados siguientes: EN 60745, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3 de acuerdo con las regulaciones 2006/42/EG, 2004/108/EG.

### PORTUGUES

#### DECLARAÇÃO DE CONFORMIDADE CE

Declaramos sob nossa exclusiva responsabilidade que este produto cumpre as seguintes normas ou documentos normativos: EN 60745, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3 de acordo com as disposições das directivas 2006/42/EG, 2004/108/EG.

### NEDERLANDS

#### EC-KONFORMITEITSVERKLARING

Wij verklaren op eigen verantwoording, dat dit produkt voldoet aan de volgende normen of normatieve documenten: EN 60745, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3 volgens de bepalingen van de richtlijnen 2006/42/EG, 2004/108/EG.

### DANSK

#### CE-KONFORMITETSERKLÆRING

Vi erklærer under almindeligt ansvar, at dette produkt er i overensstemmelse med følgende normer eller normative dokumenter: EN 60745, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3 i henhold til bestemmelserne i direktiverne 2006/42/EG, 2004/108/EG.

### NORGE

#### CE-ERKLÆRING AV KONFORMITET

Vi overtar ansvaret for at dette produktet er i overensstemmelse med følgende standarder eller standard-dokumenter: EN 60745, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3 i samsvar med bestemmelsene i direktivene 2006/42/EG, 2004/108/EG.

### SVENSKA

#### CE-KONFORMITETSFÖRKLARINGEN

Vi intygar och ansvarar för att denna produkt överensstämmer med följande norm och dokument: EN 60745, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3 enligt bestämmelserna i riktlinjerna 2006/42/EG, 2004/108/EG.

### SUOMI

#### TODISTUS CE-STANDARDINMUKAISUUDESTA

Todistamme täten ja vastaamme yksin siitä, että tämä tuote on allalueteltujen standardien ja standardoimisasiakirjojen vaatimusten mukainen: EN 60745, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3 seuraavien ohjeiden määräysten mukaisesti: 2006/42/EG, 2004/108/EG.

### GREEK

#### Δ' ΗΛΩΣΗ ΣΥΜΒΑΤΙΚ' ΟΤΗΤΟΣ

Δηλώνουμε υπευθύνως ότι το προϊόν αυτό είναι κατασκευασμένο σύμφωνα με τους εξής κανονισμούς ή κατασκευαστικές συστάσεις: EN 60745, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3 σύμφωνα με τις διατάξεις των Οδηγιών: 2006/42/EG, 2004/108/EG.

Eisenblätter



Gerd Eisenblätter GmbH