

# 316E

## GRINDER COMBINATION MACHINE



[www.promac.fr](http://www.promac.fr)



## GB - ENGLISH

### OPERATING INSTRUCTIONS

Dear Customer,

Many thanks for the confidence you have shown in us with the purchase of your new machine. This manual has been prepared for the owner and operators of a 316E to promote safety during installation, operation and maintenance procedures. Please read and understand the information contained in these operating instructions and the accompanying documents. **To obtain maximum life and efficiency from your machine, and to use the machine safely, read this manual thoroughly and follow instructions carefully.**

#### Table of Contents

1. Technical data
2. Getting to know your machine
3. Unpacking and checking list
4. Assembly chart
5. Diagram
6. Parts list
7. Electrical connection / Disconnection & operation
8. Electrical circuit diagram
9. About workstand

## SAFETY RULES FOR ALL POWER

1. Read and become familiar with the entire instruction manual. Learn the tool's application limitations and possible hazards.
2. Earth all tools. If the tool is equipped with a three-prong plug, it must be plugged into a three-contact electric outlet. The third prong is a ground to provide protection against accidental electrical shock. If an adapter is used to accommodate a two-contact outlet, the adaptor's grounding lug must be connected to a known ground. Never remove the third prong on a three-prong plug.
3. Check damaged parts. A guard or any other part that is damaged should be checked to ensure that it will operate properly and perform its intended function before the tool is used further. Check for proper alignment of moving parts and for possible broken parts, loose mountings, or any other condition that could affect the tool's operation. A guard or other damaged part should be properly repaired or replaced.
4. Disconnect power before servicing and when changing accessories such as blades, cutters.
5. Keep guards in place and in working order.
6. Protect your eyes from being injured by objects thrown by a power tool. Always wear safety glasses or safety goggles.
7. Wear a face mask or dust mask if the cutting operation produces dust.
8. Don't force the tool. It will give a better and safer performance when used on jobs for which it was designed.
9. Avoid accidental starting. Ensure that the power switch is in the OFF position before plugging in the power cord. Remove the switch when the tool is not being used.
10. Remove adjusting keys and wrenches. Ensure that keys and adjusting wrenches are removed from the tool before turning it on.
11. Drugs, alcohol, and medication. Do not operate tool if you are under the influence of drugs, alcohol or medication that could affect your ability to use the tool properly.
12. Use recommended accessories. Using improper accessories can be hazardous. If in doubt, check the instruction manual.
13. Never stand on a tool. Falls can result in injury.
14. Never leave a tool running unattended. Turn the power switch OFF. Don't leave the tool until it has come to a complete stop.
15. Always remove the power cord plug from the electric outlet when making adjustments, changing parts, cleaning, or working on the tool.
16. Avoid dangerous conditions. Don't use power tools in wet or damp areas or expose them to rain. Keep your work area clean and well lighted. Do not use power tools in areas where fumes from paint, solvents, or flammable liquids pose a potential hazard.
17. Keep visitors and children away. Other people should keep a safe distance from the work area, especially when the tool is operating.
18. Use the proper tool. Don't force a tool to do a job for which it was not designed.
19. Keep tools in top condition. Keep them clean and sharp for the best and safest performance. Follow the instructions for changing accessories and lubricating.
20. Secure all work. When practical use clamps or a vise to hold work. It is safer than using your hands and prevents round or odd-shaped pieces from turning.
21. Don't overreach. Keep proper footing and balance at all times. Wear oil-resistant rubber-soled footwear.
22. Wear proper clothing and, if necessary, protective hair covering. Loose clothing or jewelry can get caught in moving parts.
23. Make the workshop childproof with padlocks, master switches, or by removing starter keys.

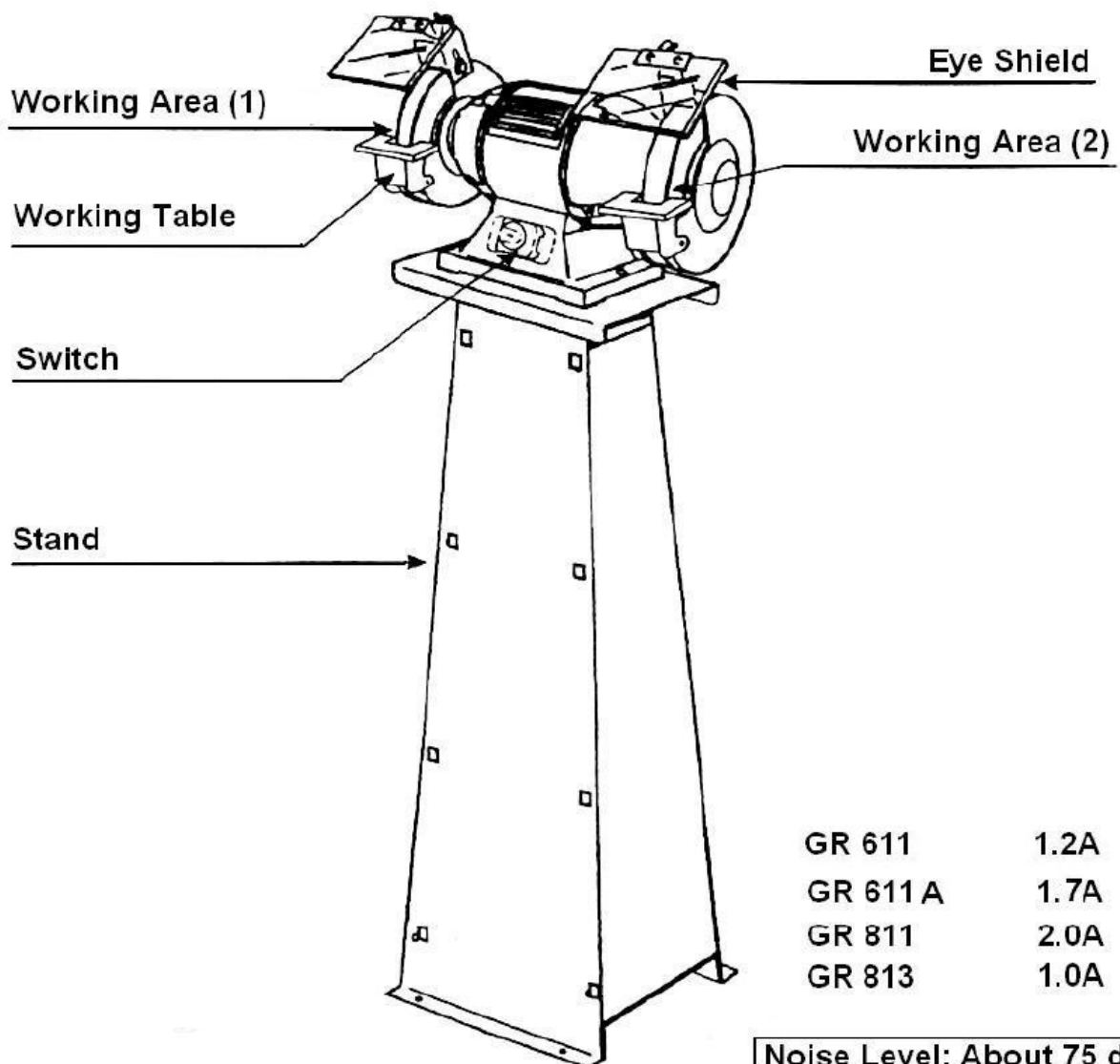
## TECHNICAL DATA

<b>MODEL</b>	316E
<b>Motor(Kw output)</b>	0.25
<b>Phase</b>	1Ph
<b>Speed</b>	2850 RPM (50Hz)
<b>Weight (Net/Gross)</b>	15 Kgw
<b>Grinding Wheel (mm)(L)</b>	150X25*20
<b>Grinding Wheel (mm)(R)</b>	150X25*20
<b>Weight (Net/Gross)</b>	14.5

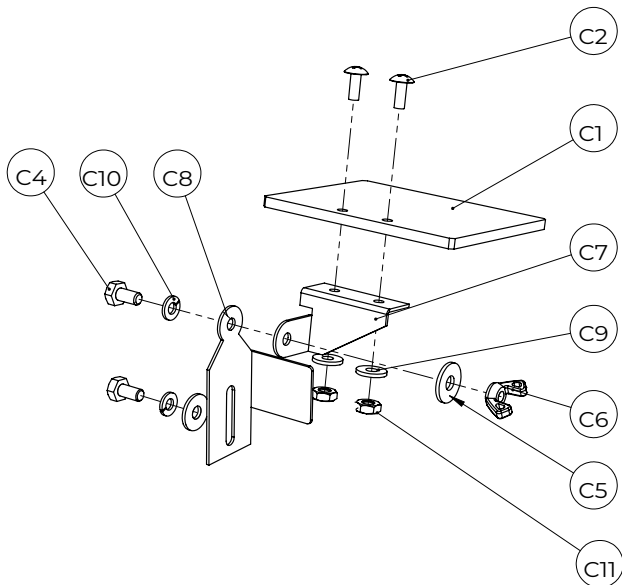
\* Dimensional width not includes toolresr.

\* Above data is manufacturer's standard specification. It can be produced by customers' special request.

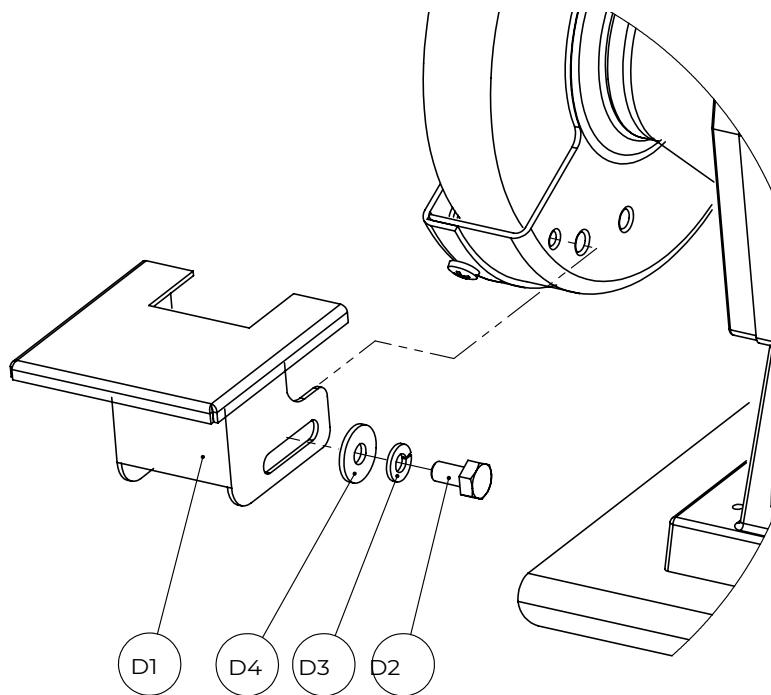
## GETTING TO KNOW YOUR MACHINE



## UNPACKING AND CHECKING LIST 316E TYPE

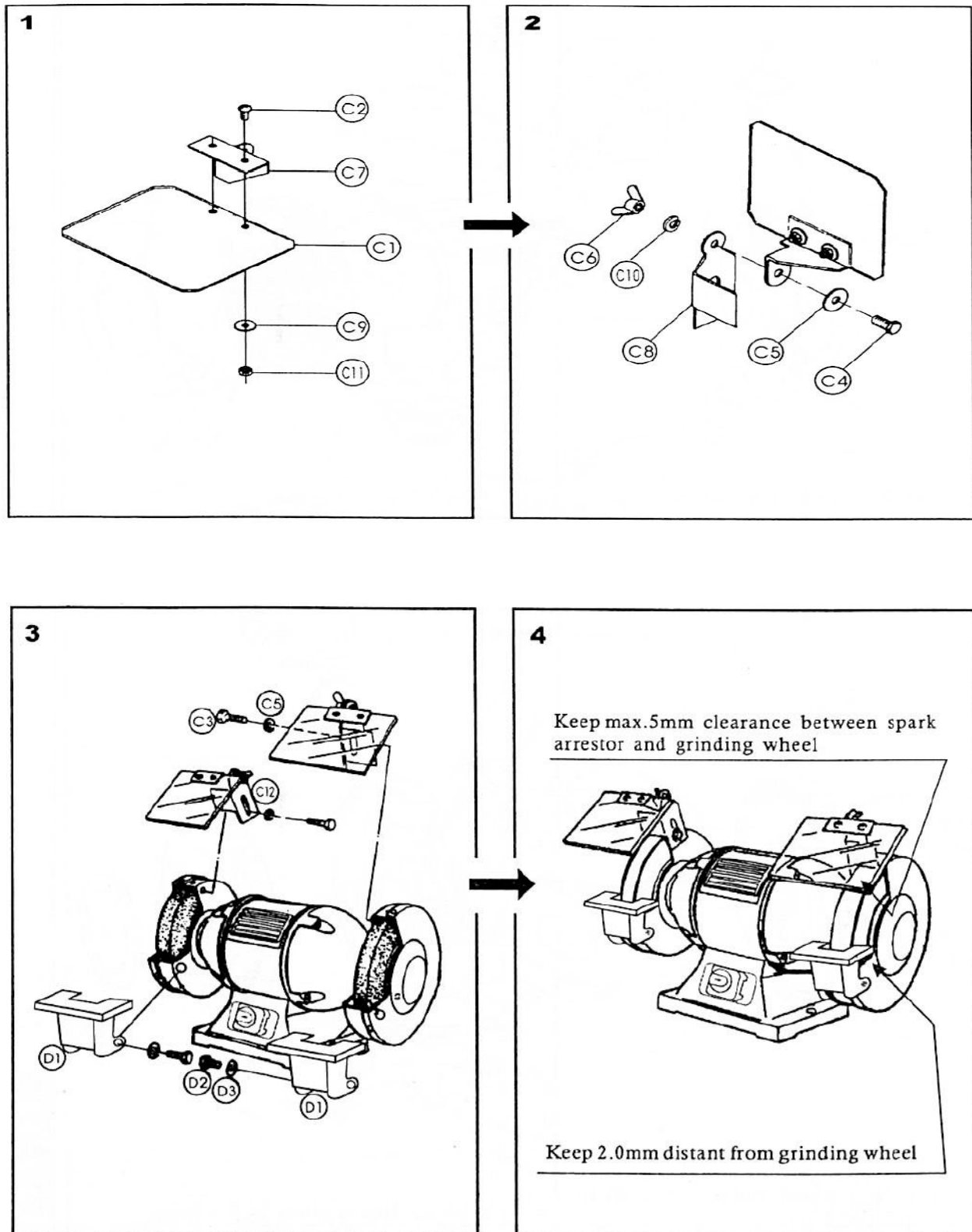


Ref. No.	Parts Name	Q"ty
C1	Eye Shield	2
C2	Screw	4
C3	Hex.Bolt	2
C4	Hex. Bolt	2
C5	Washer	4
C6	Wing Nut	2
C7	Support Plate	1
C8	Bracket	1
C9	Washer	4
C10	Spring Washer	2
C11	Hex.Nut	4
C12	Left Bracket	1
C13	Left Support Plate	1



Ref. No.	Parts Name	Q"ty
D1	Toolrest	2
D2	Hex.Bolt	4
D3	Spring washer	4
C4	Washer	4

## ASSEMBLY CHART





01	PM-315101	Left support with glass
34	PM-315022	Straight support with glass
02	PM-315103	Support
03	PM-315099	Screws
04	PM-321031	Washer
05/15	PM-315015	Full protection Switzerland
05/15	PM-315015F	Full protection France
07	PM-315008	Flask
08	PM-320035	Spring washer
09	PM-315006	Screws
10	9191	Grinding wheel gr. 36
11	PM-320007	Box
13	PM-320009	Nut
14	PM-42608	Screws
15		See pos. 5
22	PM-316022	Screws
23	PM-320035	Washer
25	855258	Bearing
28/29	PM-316429	Inducer
28-1	PM-316428-1	Label
30	PM-316130	Rotor Switzerland
	PM-316130F	Rotor France
30-1	PM-315023	Ventilator
32	PM-316024	Flask
15/35	PM-315047	Full protection Switzerland
15/35	PM-315047F	Full protection France
36	PM-42542	Cable gland
41	PM-316441	8mph capacitor, 350V
41-1	PM-316041-1	Tightening
42	PM-320045	Carrier
43	PM-315102	Support
44	PM-320051	Washer
45	PM-320052	Ring
46	PM-320005	Washer
47	PM-320054	Screws
48	PM-320004	Screws
49	PM-320006	Screws
50	PM-320003	Plate
51	PM-320002	Kabel mounting
52	200007	Cable Switzerland
	-	Cable France
53	PM-320055	Washer
54	PM-316054	Basic carcass
55	PM-320054	Screws
55-1	PM-315455-1	Screws
55-2	PM-315455-2	Nut
56	PM-320061	Gummed foot
57	PM-316057	Recovery
59	PM-315059	Screws
60	PM-315060	Screws
61	PM-316068	Nut

64	9197	Grinding wheel gr. 60
66	PM-210034	Switch with support rela
Zubehör / Accessoires		
	9399	base
	2004	base
	300X	Base with suction
Sold in Switzerland only		
12	9494	Shaft protection
16	9190	Extension cable
17	PM-42402	Flange
18	9193	Polishing disc
20	9493	Shaft protection
21	CX 74009	Nut

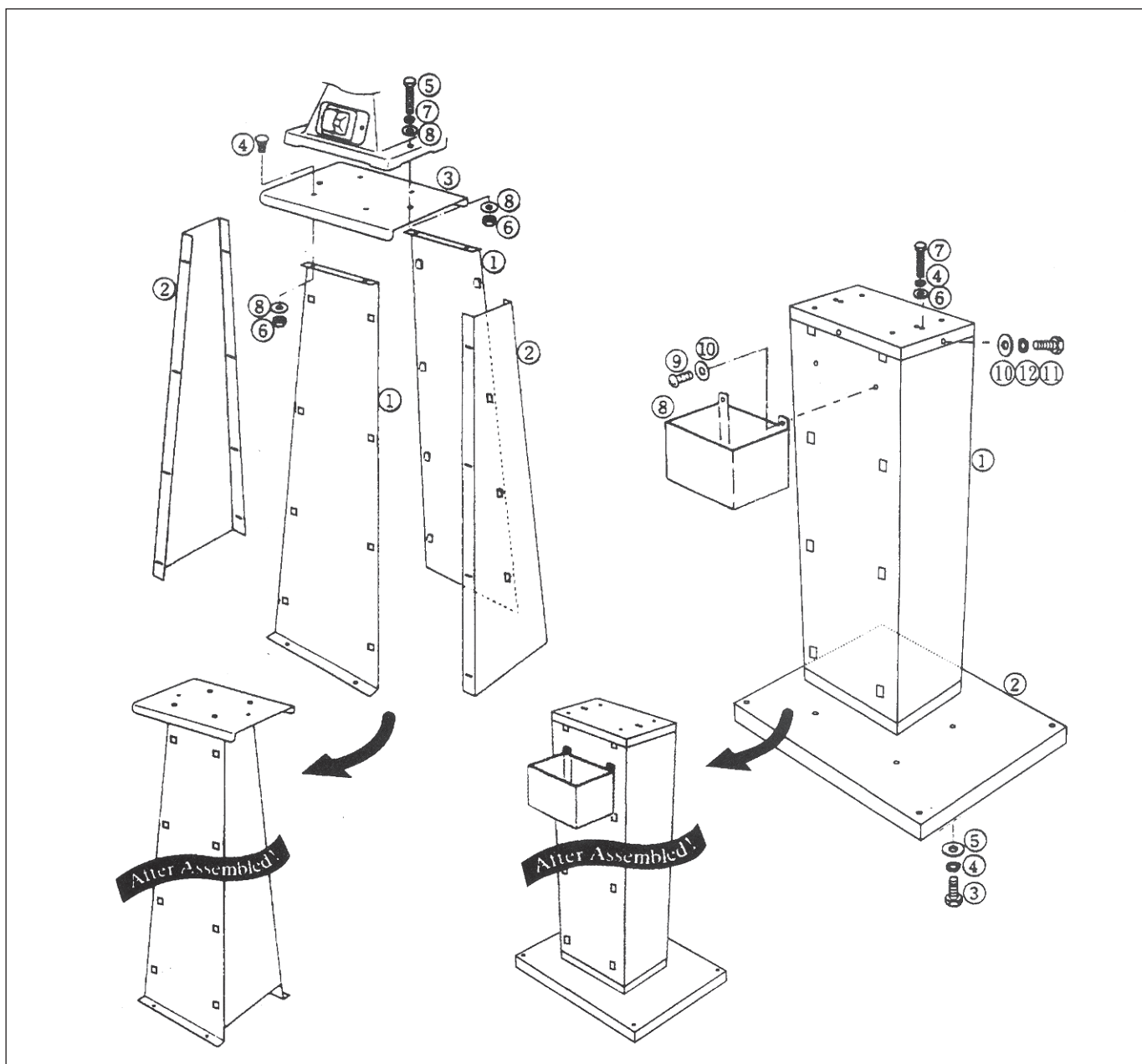
## Base (Optional)

### Model 9399

01	PM- 939901	Sheet metal (front & rear)
02	PM- 939902	Sheet metal (left and right)
03	PM- 939903	Cover
04	PM- 939904	Screws
05	PM- 939905	Screws
06	PM- 939906	Nut
07	PM- 939907	Spring washer
08	PM- 939908	Washer

### Model 2004 (Switzerland)

01	PM- 200401	Base
02	PM- 200402	Bottom plate
03	PM- 200403	Screws
04	PM- 200404	Spring washer
05	PM- 200405	Washer
06	PM- 200406	Washer
07	PM- 200407	Screws
08	PM- 200408	Water tank
09	PM- 200409	Screws
10	PM- 200410	Washer
11	PM- 200411	Screws
12	PM- 200412	Spring washer





## ELECTRICAL CONNECTION/DISCONNECTION & OPERATION

### FOR THREE PHASE

1. Electrical connection:

1.1. A cable with four wires is equipped to connect your machine into the 3 phase power supply. Please connect your machine into the power supply with hand-operated disconnecting device, which is in compliance with subclause 5.3 of EN60204-1, such as no fuse breaker or plug/socket combination.

1.2. For the protection of control device, we recommend the operator to supply a fuse with 6 amp. current rating of fuse, and the total length between fuse and connection terminal shall not exceed 1.5 m.

1.3. The exact power source voltage, frequency, and number of phase shall be checked according to the installation diagram and circuit diagram.

1.4. The correct direction of sander should be checked after connecting.

2. Electrical disconnection:

2.1. The disconnection is carried out by hand-operated disconnecting device. 2.2. Be sure to disconnect this machine from power source, when you want to stop the job, maintenance, and adjustment.

3. Grounding.

The grounding of the sander is carried out by connecting the Yellow/green terminal of supply cable to the grounding terminal of power source. Be sure to ground your machine before connecting machine to power source in any situation.

### WARNING!

Do not disconnect grounding terminal before disconnecting power source.

### FOR SINGLE PHASE.

1. The connection, disconnection, and grounding is carried out through the plug, equipped on the sander. For the safety reason, Do not change this plug into any the other type in any situation.

2. For the protection of control device, we recommend the Operator to supply a fuse with 10A current rating of fuse, and the total length between fuse and connection terminal shall not exceed 1.5 m.

3. The exact power source voltage, frequency, and number of phase shall be checked according to the installation diagram and circuit diagram.

### WARNING!

Ensure that the power switch is in OFF position before electrical connection and disconnection.

### OPERATION:

1. "START": Push the button marked with " I ".

2. "STOP": Push the button marked with " O ".

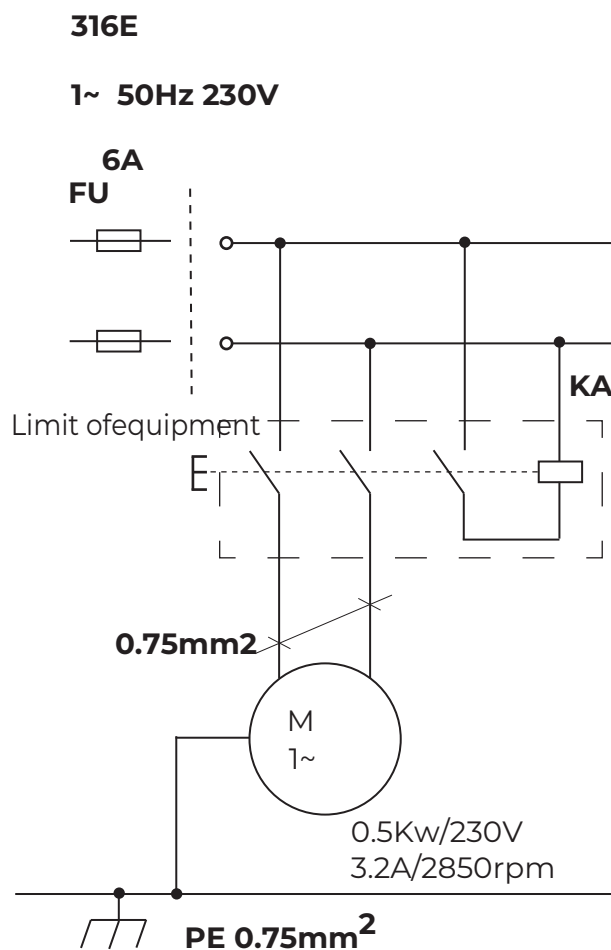
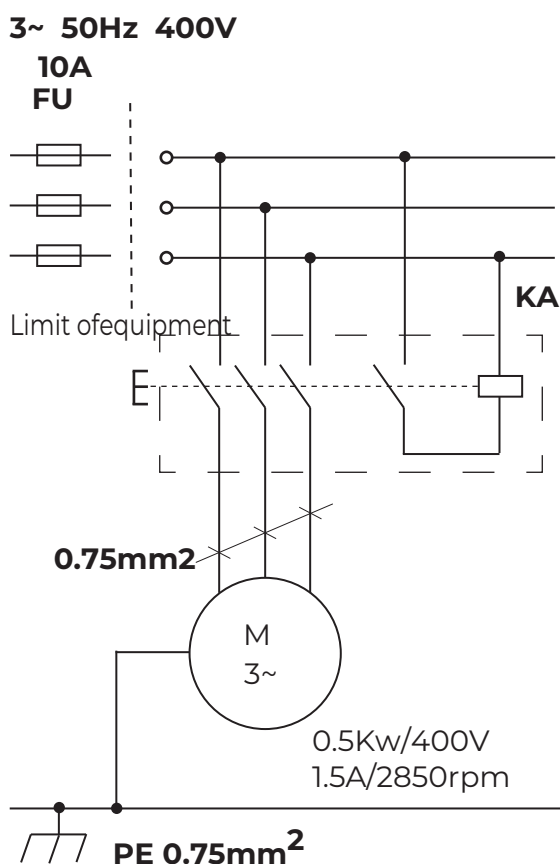
### MAINTENANCE:












1. Be sure to disconnect the sander from power source.

2. If motor being overload, the overload relay will be active.

If you want to reset sander. open control enclosure and then push the reseted button of overload relay.

## Electrical circuit diagram



Item Designation	Description & Function	Technical	Remark
KA	Magnetic Contactor	230Vac,10A(single phase) 400Vac,10A(three phase)	CE CE
XP	Plug for Supply	250V,16A(sinle phase)	       
	Cable	H05-VVF 3x0.75mm <sup>2</sup> (sinle phase) VCTF 4x0.75mm <sup>2</sup> (three phase)	  

---

**Memo**



## Environmental protection

Protect the environment.

Your appliance contains valuable materials which can be recovered or recycled. Please leave it at a specialized institution.



This symbol indicates separate collection for electrical and electronic equipment required under the WEEE Directive (Directive 2012/19/EC) and is effective only within the European Union.

---

## Umweltschutz

Schützen Sie die Umwelt!

Ihr Gerät enthält mehrere unterschiedliche, wiederverwertbare Werkstoffe. Bitte entsorgen Sie es nur an einer spezialisierten Entsorgungsstelle.



Dieses Symbol verweist auf die getrennte Sammlung von Elektro- und Elektronikgeräten, gemäß Forderung der WEEE-Richtlinie (2012/19/EU). Diese Richtlinie ist nur innerhalb der Europäischen Union wirksam.

---

## Protection de l'environnement

Protégez l'environnement !

Votre appareil comprend plusieurs matières premières différentes et recyclables. Pour éliminer l'appareil usagé, veuillez l'apporter dans un centre spécialisé de recyclage des appareils électriques.



Ce symbole indique une collecte séparée des équipements électriques et électroniques conformément à la directive DEEE (2012/19/UE). Cette directive n'est efficace que dans l'Union européenne.



---

#### Warranty / Garantie

TOOL FRANCE guarantees that the supplied product(s) is/are free from material defects and manufacturing faults.

This warranty does not cover any defects which are caused, either directly or indirectly, by incorrect use, carelessness, damage due to accidents, repairs or inadequate maintenance or cleaning as well as normal wear and tear.

Further details on warranty (e.g. warranty period) can be found in the General Terms and Conditions (GTC) that are an integral part of the contract.

These GTC may be viewed on the website of your dealer or sent to you upon request.

TOOL FRANCE reserves the right to make changes to the product and accessories at any time.

---

TOOL FRANCE garantiert, dass das/die von ihr gelieferte/n Produkt/e frei von Material- und Herstellungsfehlern ist.

Diese Garantie deckt keinerlei Mängel, Schäden und Fehler ab, die - direkt oder indirekt - durch falsche oder nicht sachgemäße Verwendung, Fahrlässigkeit, Unfallschäden, Reparaturen oder unzureichende Wartungs- oder

Reinigungsarbeiten sowie durch natürliche Abnutzung durch den Gebrauch verursacht werden. Weitere Einzelheiten zur Garan können den allgemeinen Geschäftsbedingungen (AGB) entnommen werden.

Diese können Ihnen auf Wunsch per Post oder Mail zugesendet werden.

TOOL FRANCE behält sich das Recht vor, jederzeit Änderungen am Produkt und am Zubehör vorzunehmen.

---

TOOL FRANCE garantit que le/les produit(s)fourni(s) est/sont exempt(s) de défauts matériels et de défauts de fabrication.

Ce e garantie ne couvre pas les défauts, dommages et défaillances causés, directement ou indirectement, par l'utilisation correcte ou inadéquate, la négligence, les dommages accidentels, la réparation, la maintenance ou le ne oyage incorrects et l'usure normale.

Vous pouvez trouver de plus amples détails sur la garantie dans les conditions générales (CG).

Les CG peuvent être envoyées sur demande par poste ou par e-mail .

TOOL FRANCE se réserve le droit d'effectuer des changements sur le produit et les accessoires à tout moment.

**TOOL FRANCE**  
**9 rue des Pyrénées – 91090 LISSES**  
**(France) Mail :**  
**contact@toolfrance.com**

**UK Declaration of Conformity**

Product:  
**Wheel Grinder**

Model:

**316E**

Brand:  
**PROMAC**

Manufacturer or authorized representative:

**TOOL FRANCE**  
Unit 1a Stepnell Park  
Off Lawford Road  
Rugby  
CV21 2UX  
United Kingdom

We hereby declare that this product complies with the regulations:

**Supply of Machinery (Safety) Regulations 2008**  
**Electromagnetic Compatibility Regulations 2016**

designed in consideration of the standards:

**EN ISO 12100:2010**  
**EN 62841-1:2015**  
**EN 62841-3-4:2016**  
**EN61000-6-4:2007+A1:2011**

**Responsible for the documentation / Dokumentations-Verantwortung / Responsable de la documentation :**



**JÉRÔME**  
**GERMAIN** General  
Manager  
Directeur Général

**N° de série / serial**  
**number : Date :**

**At lisses / Hergestellt in / Fait à Lisses**

**CE-Conformity Declaration  
CE-Konformitätserklärung  
Déclaration de Conformité CE**

**Product / Produkt / Produit:**

Wheel Grinder  
Doppelschleifmaschine  
Touret meule/meule

**316E**

**Brand / Marke / Marque:**

**PROMAC**

**Manufacturer or authorized representative/ Hersteller oder Bevollmächtigter/ Fabricant ou son mandataire:** TOOL

FRANCE

9 Rue des Pyrénées, 91090 LISSES, France

We hereby declare that this product complies with the regulations  
Wir erklären hiermit, dass dieses Produkt der folgenden Richtlinie entspricht  
Par la présente, nous déclarons que ce produit correspond aux directives suivantes

**2006/42/EC**

Machinery Directive  
Maschinenrichtlinie  
Directive Machines

**2014/30/EU**

electromagnetic compatibility  
elektromagnetische Verträglichkeit  
compatibilité électromagnétique

**2011/65/EU**

RoHS directive / RoHS-Richtlinie / Directive RoHS

designed in consideration of the standards  
und entsprechend folgender zusätzlicher Normen entwickelt wurde  
et été développé dans le respect des normes complémentaires suivantes

**EN ISO 12100:2010**

**EN 62841-1:2015**

**EN 62841-3-4:2016**

**EN61000-6-4:2007+A1:2011**

**Original instruction manual / Original-Bedienungsanleitung / Notice d'instruction Originale Responsable  
for the documentation / Dokumentations-Verantwortung / Responsable de la documentation :**



**JÉRÔME GERMAIN  
General Manager  
Directeur Général**

**At lisses / Hergestellt in / Fait à Lisses**

**N° de série / serial number :  
Date :**