

basic MOBIL

No. 2914

Bedienungsanleitung

Instruction manual • Mode d'emploi • Istruzioni d'uso

Instrucciones para el servicio • Gebruiksaanwijzing

Instrukcja obsługi • Инструкция по эксплуатации

取扱説明書 • 操作手冊 • 사용설명서 • إرشادات التشغيل



Renfert GmbH • Industriegebiet • 78247 Hilzingen / Germany
Tel. +49 7731 8208-0 • Fax +49 7731 8208-70
info@renfert.com • www.renfert.com

Made in Germany

Renfert

basic mobil

No. 2914

ENGLISH

1. Introduction

We are pleased with your decision to purchase the *basic mobil*. The mobile sandblasting unit is connected to the compressed air or to the recyclable blaster *Vario-Jet* resp. *Vario basic*.

2. Application Area

The *basic* line of sandblasting units are designed for use in dental laboratories to remove investment residues, oxides on cast objects, and for surface treatment.



3. Safety Information

- Always disconnect the unit from the compressed air and power sources prior to beginning any maintenance work.
- When working on the tank (filling up, cleaning, maintenance) wear protective glasses for protecting your eyes.
- Any residue of abrasive material on the gasket may lead to leakage and early wear of the gasket. After filling up clean the thread and the gasket and close the lid properly.
- Solvents and tensides can create micro-cracking in the plastic (danger of explosion!). Clean the tank and the lid only with a dry cloth. Do not write or stick something on the tanks.
- Check the tanks and the lids regularly on damages and replace them in case of doubt.
- Check the tank cover for correct seating prior to beginning operation. Covers that are not securely closed can suddenly be blown off as the tank pressure increases. The resulting flying parts and abrasive represent a serious hazard.
- **Never** operate the blasting units without suitable dust extraction and appropriate protective gear, as this could result in **health hazards**. The type of dust extraction should be selected on the basis of the dust being generated. Follow here **absolutely** EN 60335-2-69 appendix AA or ask the appropriate authorities.
- Improper use can result in the risk of eye or skin injuries.
- Never direct the blasting material towards eyes or unprotected areas of skin!



Caution: Failure to wear proper eye protection can result in eye injury due to particles suspended in the air.

Always wear proper eye protection to protect your vision!

- Do not employ the foot switch when only the compressed air supply hose is connected. The loose hose could wrap around itself and cause serious injury.

3.1 Liability Exclusion

Renfert GmbH shall be absolved from all claims for damages or warranty if:

- The product is employed for any purposes other than those cited in the operating instructions;
- The product is altered in any way other than those alterations described in the operating instructions;
- The product is repaired by other than an authorized facility or if any but Renfert OEM parts are employed;
- The product continues to be employed, despite obvious safety faults.
- The product is subjected to mechanical jarring or is dropped.

4. Installation / Commissioning

4.1 Setting up and Connecting the Unit with Foot Switch

1. Inspect the tank for proper installation (Fig. 1).
2. Connect the foot switch / sandblasting unit (red) (Fig. 2a, 2b, 2c).
3. Connect the foot switch / air supply (P) (Fig. 3).
4. Do not bend or kink the hose (Fig. 4)!

4.2 Setting up and Connecting the Unit without Foot Switch

1. Inspect the tank for proper installation (Fig. 1).
2. Connect the compressed air hose / sandblasting unit (red) (Fig. 2a, 2b, 2c).
3. Connect the compressed air hose / air supply (P) (Fig. 3).
4. Do not bend or kink the hoses (Fig. 4)!

4.3 Adjusting the Operating Pressure

1. Put in shut off-valve in a vertical position (Fig. 5).
2. Employ the foot switch (Fig. 6) and set the blasting pressure from 1 - 6 bar [14.5 - 87 psi] (Fig. 7).

4.4 Filling the Sandblasting Tank

Caution: Never press the foot switch during filling. Before closing the tank, be sure to clean the threads in the cover and the tank to remove any abrasive residue.

1. Unscrew the tank cover (Fig. 8).
2. Add abrasive up to the maximum fill level (the point where the tank jacket thickens just below the thread) (Fig. 9a + 9b). Make sure the abrasive being used is compatible with the sandblasting tank.
3. Reinstall the tank cover (Fig. 10).

Caution: Do not cross-thread the cover.

Always use only clean, dry abrasive of the appropriate grain size (refer to the accessories).

The sandblasting unit is now operational.

5. Cleaning / Maintenance

Use only solvent-free cleansers (e.g., soapy water). Wipe out the tanks and lids only with a dry cloth!

5.1 Condensation

1. Inspect the water separator.
2. Close the shut off-valve (Fig. 11).
3. Drain any water off through the valve (Fig. 12), employing the foot switch (Fig. 6).

5.2 Blasting Nozzle Replacement

1. Refer to insert no. 21-9162 for installation.
2. Inspect for abrasive residue.
3. Inspect the seal ring position.

5.3 Sandblasting Hose Replacement

1. Disconnect the foot switch from the air supply (Fig. 3).
2. Refer to insert no. 21-9162 for the installation instructions.

6. Spare Parts

Please refer to the enclosed spare parts list for all replacement parts.

7. Warranty

Provided the unit is properly used, Renfert warrants all parts of the *basic mobil* for a **period of 3 years**. In case of any claims for warranty original dealers' invoice is required. Components subject to natural wear (e.g., blasting nozzles, hoses, filter materials, etc.) are excluded from this warranty. The warranty is voided in case of improper use; failure to observe the operating, cleaning, maintenance, and connection instructions; in case of independent repairs or repairs by unauthorized personnel; if spare parts from other manufacturers are employed, or; in case of unusual influences or influences not in compliance with the utilization instructions. Warranty service shall not extend the original warranty.

8. Technical Specifications

Working pressure: 1 - 6 bar [14.5 - 87 psi]
Connecting pressure, external:
6 - 8 bar [87 - 116 psi]
Air consumption: 120 l/min. at 6 bar [87 psi]
Ø hose connection: interior: 4 mm [0,16 inch]
exterior: 6 mm [0,24 inch]
Dimensions (WxHxD): 220 x 260 x 130 mm
[8.67 x 10.24 x 5.12 inch]
Tank capacity: 1000 ml
Weight (empty): approx. 2.5 kg
Noise level according to DIN 45635-01-KL3: < 70 dB(A)

9. Notes

Flat blasting with sheet dies:

Art. No. 90002-1207 0.3 x 3.5 mm
[0.012 x 0.138 inch]
Art. No. 90003-1739 1.5 x 3.5 mm
[0.059 x 0.138 inch]

When blasting glass ceramics, refer to manufacturer's notes.

10. Standard Delivery

- 1 *basic mobil*
- 1 Foot switch (only with no. 2914-3050 / 2914-3250)
- 1 Connection tube (only with no. 2914-4050 / 2914-4250)
- 1 Connection set
- 1 Set of Operating Instructions, with attachment
- 1 Spare parts list
- 1 Sample of blasting material

11. Delivery Versions

No. 2914-3050 *basic mobil* 25-70 µm, with foot switch
No. 2914-3250 *basic mobil* 70-250 µm, with foot switch
No. 2914-4050 *basic mobil* 25-70 µm, manual operation
No. 2914-4250 *basic mobil* 70-250 µm, manual operation

12. Accessories

Abrasives

Cobra aluminium oxide

No. 1594-1105	25 µm [500 mesh], white	5 kg canister
No. 1594-1205	50 µm [270 mesh], white	5 kg canister
No. 1594-2220	50 µm [270 mesh], white	20 kg bucket
No. 1584-1005	90 µm [170 mesh], white	5 kg canister
No. 1583-1005	110 µm [150 mesh], white	5 kg canister
No. 1583-1020	110 µm [150 mesh], white	20 kg bucket
No. 1587-1005	125 µm [115 mesh], pink	5 kg canister
No. 1587-1020	125 µm [115 mesh], pink	20 kg bucket
No. 1585-1005	250 µm [60 mesh], white	5 kg canister
No. 1585-1020	250 µm [60 mesh], white	20 kg bucket

Rolloblast glass beads

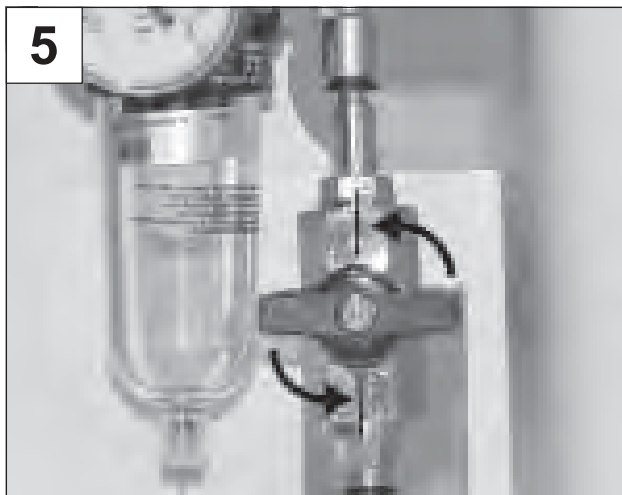
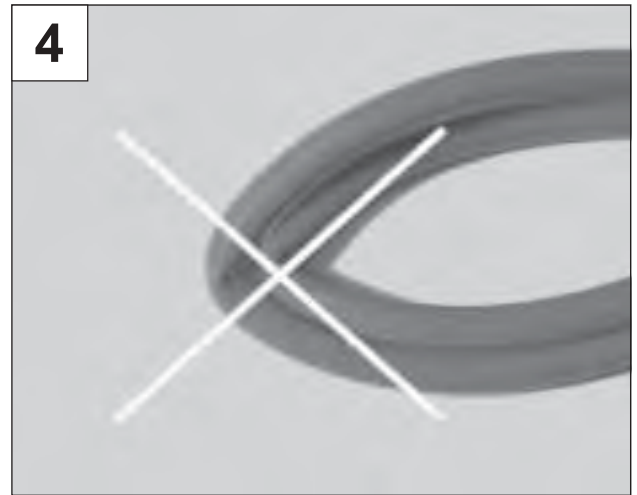
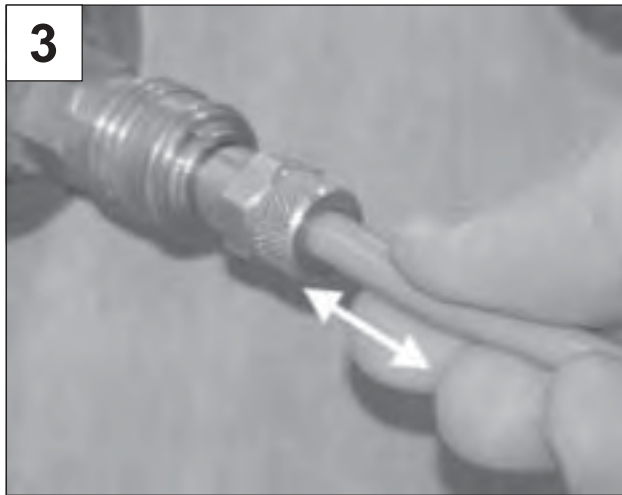
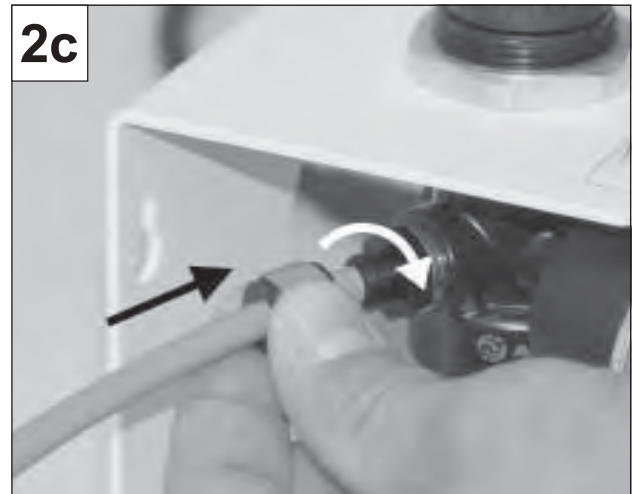
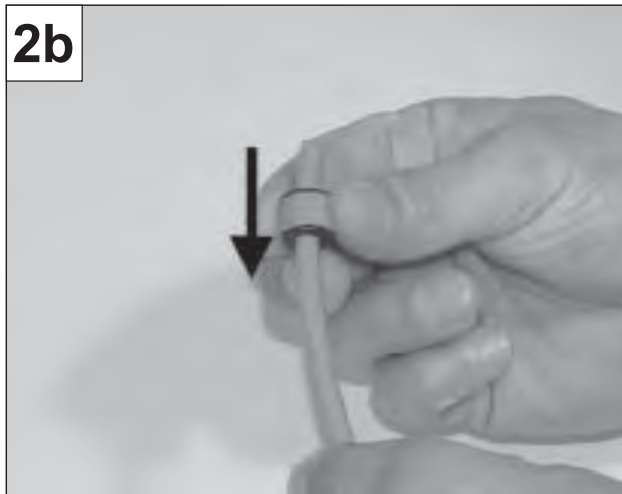
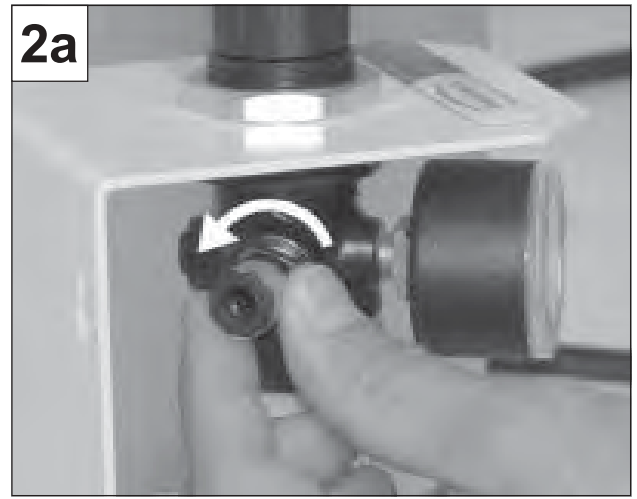
No. 1594-1305	50 µm [400-200 mesh]	5 kg canister
No. 1594-2312	50 µm [400-200 mesh]	12.5 kg canister
No. 1589-1005	100 µm [170-100 mesh]	5 kg canister

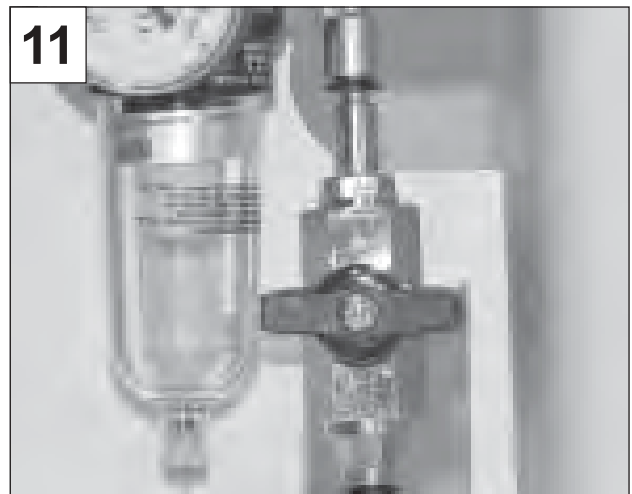
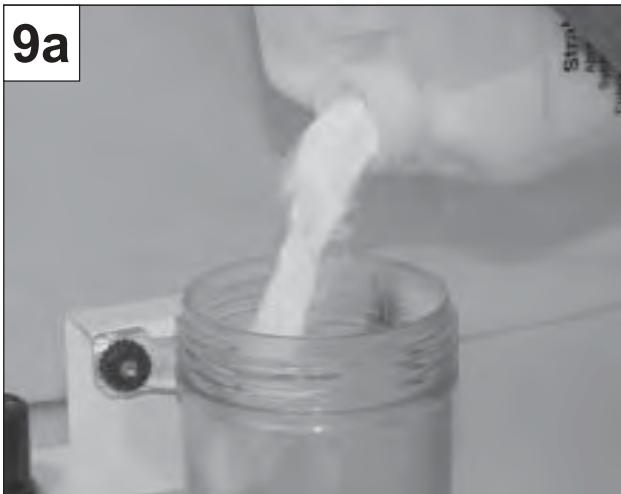
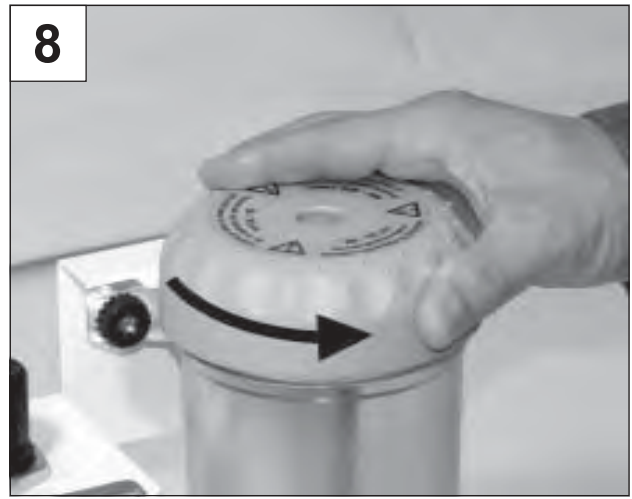
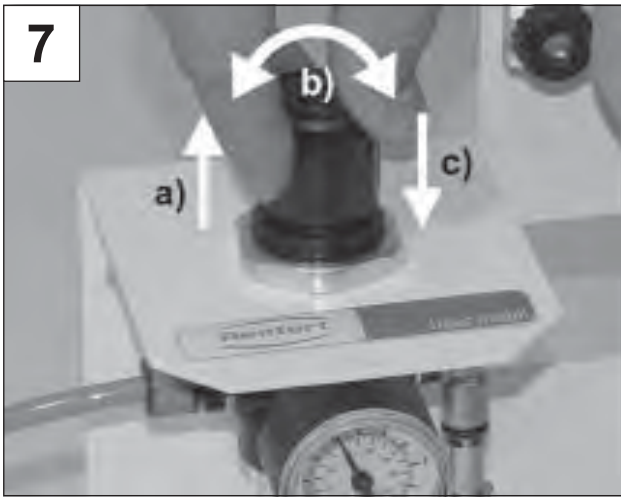
Satinat

No. 1595-1005	50 µm [400-200 + 270 mesh]	5 kg canister
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13. Troubleshooting Guide

Problem	Possible cause	Corrective action
No air and no abrasive.	<ul style="list-style-type: none"> ⚡# Blasting nozzle blocked at the hand-piece. ⚡# Foot switch connecting lines kinked. 	<ul style="list-style-type: none"> ⚡# Unscrew the nozzle from the hand-piece and blow it out. ⚡# With the nozzle removed, blow out the blasting hose by activating the foot pedal. ⚡# Inspect/correct the connection lines.
Only air, no or very little abrasive.	<ul style="list-style-type: none"> ⚡# Metering nozzle (centre nozzle) blocked at the tank. ⚡# Mixing chamber filter combination blocked. ⚡# Abrasive contains impurities or is moist. 	<ul style="list-style-type: none"> ⚡# Unscrew the tank cover. ⚡# Seal the top of the riser pipe (blue hose) with a piece of insulation or Sello tape. ⚡# Reinstall the cover. ⚡# Hold your finger over the nozzle on the hand-piece and repeatedly activate the foot switch. ⚡# Unscrew the tank cover and remove the tape from the riser pipe. Reinstall the cover and continue normal sandblasting. <p>Install new filter sets:</p> <ul style="list-style-type: none"> à Part no. 90002-8889 25-70 µm à Part no. 90002-8888 70-250 µm <p>(Refer to the insert for the appropriate filter set):</p> <ul style="list-style-type: none"> ⚡# Disconnect the compressed air supply to the mixing chamber. ⚡# Unscrew the plug-in connection. ⚡# Remove the old filter sets. ⚡# Run a thin (1 mm) wire through the opening in the mixing chamber. ⚡# Install new filter sets as follows (number of components according to the filter set– smooth (colour marked) side facing the mixing chamber): <ol style="list-style-type: none"> 1. Screen 2. Filter, thin 3. Filter, thick 4. Screen 5. Spacer <p>Reinstall the screw-on connections in the reverse order. Make certain there is no abrasive residue on the threads. Attention: Never operate the unit without filters! Do not reinstall used filter sets!</p> <ul style="list-style-type: none"> ⚡# Replace the abrasive.
Unit blasts continuously.	<ul style="list-style-type: none"> ⚡# Foot switch connected incorrectly. ⚡# Valve in foot switch is defective. 	<ul style="list-style-type: none"> ⚡# Inspect/correct the foot switch connection. ⚡# Replace foot switch.
Compressed air leaking from the foot switch.	<ul style="list-style-type: none"> ⚡# Pneumatic hoses reversed. 	<ul style="list-style-type: none"> ⚡# Reverse the connections.
Foot switch fails to switch on.	<ul style="list-style-type: none"> ⚡# No pressure at the compressed air connection. ⚡# Pneumatic hoses are kinked. 	<ul style="list-style-type: none"> ⚡# Inspect the compressed air lines and/or the compressor. ⚡# Reposition the hoses.





Seriennummer, Herstelldatum und Geräte-Version befinden sich auf dem Geräte-Typenschild.

Serial number, date of manufacturing and unit version are shown on the type plate of the unit.

Le numéro de série, la date de fabrication et la version se trouvent sur la plaque signalétique de l'appareil.

Il numero di serie, la data di costruzione e la versione si trovano sulla targhetta dell'apparecchio.

El número de serie, la fecha de fabricación y la versión del aparato están indicados en la placa identificadora del aparato.

Seriennummer, produktiedatum en versie staan op het apparaat-type plaatje.



EG-Konformitätserklärung

Renfert GmbH, Industriegebiet, 78247 Hilzingen / Germany

Hiermit erklären wir, dass die Bauart des Sandstrahlgerätes *basic MOBIL* folgenden einschlägigen Bestimmungen entspricht:

EG-Richtlinie Maschinen (98/37 EG)

Angewendete harmonisierte Normen:

DIN EN 61010-1 (2002); EN 292 T.1; EN 292 T.2

Angewendete nationale Spezifikationen: DIN 45635 T.1

Tilo Burgbacher, Leiter Konstruktion
und Geräteentwicklung

Hilzingen, 29.01.2004



EC Declaration of conformity

Renfert GmbH, Industriegebiet, 78247 Hilzingen / Germany

We hereby declare that the construction type of the sandblaster *basic MOBIL* conforms to the following relevant regulations:

EC guidelines on machines (98/37 EC)

Harmonised specifications applied:

DIN EN 61010-1 (2002); EN 292 T.1; EN 292 T.2

National specifications applied: DIN 45635 T.1

Tilo Burgbacher,
Engineering Director

Hilzingen, 29.01.2004



Déclaration de conformité CE

Renfert GmbH, Industriegebiet, 78247 Hilzingen / Germany

Par la présente, nous certifions que le modèle de sableuse *basic MOBIL* est conforme aux prescriptions applicables, énumérées ci-dessous :

Directive CE relative aux machines (98/37 CE)

Normes harmonisées appliquées :

DIN EN 61010-1 (2002); EN 292 T.1; EN 292 T.2

Spécifications nationales appliquées : DIN 45635 T.1

Tilo Burgbacher,
Chef du bureau d'études

Hilzingen, 29.01.2004



Dichiarazione di conformità CE

Renfert GmbH, Industriegebiet, 78247 Hilzingen / Germany

Con la presente dichiariamo che il sistema di costruzione della sabbiatrica *basic MOBIL* è conforme alle direttive elencate qui di seguito:

Direttiva macchine CE (98/37 CE)

Norme armonizzate applicate:

DIN EN 61010-1 (2002); EN 292 T.1; EN 292 T.2

Norme nazionali applicate: DIN 45635 T.1

Tilo Burgbacher, responsabile costru-
zione e sviluppo apparecchi

Hilzingen, 29.01.2004



Declaración de conformidad CE

Renfert GmbH, Industriegebiet, 78247 Hilzingen / Germany

Declaramos que el diseño del chorreador de arena *basic MOBIL* se atiene a las normas pertinentes que figuran a continuación:

Directiva CE sobre máquinas (98/37 CE)

Normas armonizadas aplicadas:

DIN EN 61010-1 (2002); EN 292 T.1; EN 292 T.2

Especificaciones nacionales aplicadas: DIN 45635 T.1

Tilo Burgbacher, Director Desarrollo
y Construcción de Aparatos

Hilzingen, 29.01.2004



EG-Conformiteitsverklaring

Renfert GmbH, Industriegebiet, 78247 Hilzingen / Germany

Hierbij verklaren wij, dat de constructie van het zandstraal-apparaat *basic MOBIL* in overeenstemming is met de volgende bepalingen:

EG-richtlijn machines (98/37 EG)

Toegepaste geharmoniseerde normen:

DIN EN 61010-1 (2002); EN 292 T.1; EN 292 T.2

Toegepaste nationale specificaties: DIN 45635 T.1

Tilo Burgbacher, Chef constructie
en apparatenontwikkeling

Hilzingen, 29.01.2004

Numer serii, data produkcji i wersja urządzenia znajduje się na tabliczce znamionowej urządzenia.
Номер серии, дата изготовления и модель прибора указаны на фирменной табличке.



Deklaracja zgodności UE

Renfert GmbH, Industriegebiet, 78247 Hilzingen / Germany

Niniejszym oświadczamy, że konstrukcja piaskarki *basic MOBIL* odpowiada następującym obowiązującym przepisom:

EG-wytyczna maszyny (98/37 EG)

Zastosowane zgodne normy:

DIN EN 61010-1 (2002); EN 292 T.1; EN 292 T.2

Zastosowane narodowe specyfikacje: DIN 45635 T.1

Tilo Burgbacher, kierownik działu
konstrukcji i rozwoju urządzeń

Hilzingen, 29.01.2004



Заявление о соответствии ЕС

Renfert GmbH, Industriegebiet, 78247 Hilzingen / Germany

Настоящим мы заявляем, что конструкция пескоструйного аппарата *basic MOBIL* отвечает требованиям следующих соответствующих положений:

ЕС-положение по машинам (98/37 EG)

Соответствие согласованным нормам:

DIN EN 61010-1 (2002); EN 292 T.1; EN 292 T.25

Соответствие отечественным спецификациям:

DIN 45635 T. 1

Tilo Burgbacher, руководитель
конструкторского отдела

Hilzingen, 29.01.2004