

Series 8000

grinding and polishing machines

Good equipment is half the job

Many congratulations on your purchase.

The Creusen Professional is a Dutch quality product which complies with many international safety standards. You will get many years of useful service from this grinder, particularly if you closely follow the tips and recommendations given in these operating instructions. Lots of success! Ask your dealer about the practical range of Creusen accessories. These will allow you to make optimum use of the possibilities that the Creusen professional has to offer.

The machine destination is the grinding and polishing of steel or equivalent materials.

Technical Information

Type	DS 8150 T	DS 8150 TS	DS 8200 T
Voltage V	220-240 380-415	220-240 380-415	220-240 380-415
	1~ 3~	1~ 3~	1~ 3~
Frequency Hz	50-60 50-60	50-60 50-60	50-60 50-60
Power P ₁ Watt	500 600	500 600	800 850
Speed min ⁻¹	2800/3400	2800/3400	2800/3400
Per. speed m/sec	22-26	22-26	30-36
Grindingwheel	150 x 20 x 15 mm	150 x 40 x 15 mm	200 x 25 x 15 mm
d ₁ x b x d ₂		150 x 20 x 15 mm	
Grit	36/80	100/80	36/80
Weight kg	10	11	16
Noise level dB (A)	50	50	50

Type	DPC 8150 T	DPC 8200 T
Voltage V	220-240	220-240
	1~	1~
Frequency Hz	50-60	50-60
Power P ₁ Watt	500	800
Speed min ⁻¹	2800/3400	2800/3400
Per. speed m/sec	22-26	30-36
Polishingwheel d ₁ x d ₂ (not standard)	150 x 15 mm	200 x 15 mm
Weight kg	7	9
Noise level dB (A)	50	50

The machine is equipped with a no-volt release switch and with thermal overload protection.

The machines are in conformity with the European Machinery Directive 98/37/EC; low voltage Directive 73/23/EC, electromagnetic compatibility 89/336/EC and the standards NEN 3173, VDE 0530, IEC 1029-1, 1029-2-4.

Before starting work, read this instruction carefully.

Mains voltage

Before connecting up the machine, check that the actual mains voltage corresponds to the voltage on the nameplate. If the voltage is not the same, consult your dealer. Always connect the machine on a earthed mains voltage.

Three-phase machine

Does your machine operate on three-phase current? If so, proceed as follows to check that the grinding wheels are rotating in the right direction. Switch the on/off switch to 'on' for a fraction of a second and then quickly back to 'off' again. *Caution:* do not let the machine reach full speed. If the direction of rotation is wrong, the wheels may work loose and cause damage. If the wheels turn in the wrong direction, ask a technician to change over the two phase wires.

Assembly

Do you want to fix the Creusen Professional to a workbench, the Creusen pedestal or the Pro-support wall console? First remove the rubber buffers. Then proceed as follows:

workbench: fix the machine to the workbench using wood screws and retaining rings (see fig.1a).

Creusen pedestal: use an M6 nut to fasten the machine (see fig 1b)

Pro-support wall console: use the fastening materials supplied and follow the instruction in the pack.

Machines completed with a steel wire brush have to be fixed on workbench or pedestal.

Safety

- Keep your work area clean
- Dress properly and do not wear loose clothing or jewelry. They can be caught in moving parts.

- Always wear safety spectacles when grinding.
- Fix the eye shields as shown on the drawing in the pack. The position is optimum if you are looking vertically down at the eye guard whilst grinding.
- Never run a grinding wheel without the wheel guard fitted.
- Always remove the plug from the socket before carrying out maintenance work on the machine.
- Fit only Creusen accessories and spare parts.

The best way to work

Below are some recommendations and tips for the best method of grinding (see fig. 2) To adjust the various parts of the machine, use spanner No.10.

- Check that the spark arrestors A are fitted as close as possible to the grinding wheel and adjust the grinding supports B (see fig.2) The maximum gap is 2 mm between the wheel and the grinding support and 2 mm between the grinding wheel and the spark arrestor. The topside of the grinding support is always some 3 mm under the middle of the grinding wheel. To ensure safe working, check and adjust the gap regularly to allow for wear and tear of the grinding wheels.
- You can adjust the grinding supports. The supports are tiltable at the middle line from the wheel. The stability of the supports is guaranteed under all circumstances thanks to the double connection with wheel guard and guard cover.
- After each replacement mount the nuts carefully in order to keep the grinding supports and spark arrestors in the right position.
- *Allow the machine to reach full speed before you start grinding.*
- Work with a minimum of pressure of the tool against the grinding wheel so that the wheel can do its metal removing work. Too much pressure only results in less power supply and extra motorheating by rubbing.
- *Duty:* The machine is meant for SB duty which means: 2 hours running on no load and 1/2 hour running on load.

Grinding wheels: maintenance and replacement

Dressing

Grinding wheels wear away. To prolong their useful life you can dress the wheels from time to time. Preferably by using the Creusen hand dresser. This is made of coarse silicon carbide.

Use the hand dresser:

- to give the wheel a neatly rounded shape again. This prevents vibration. After being dressed, the wheels will grind better because new, sharp granules will be released.
- to remove any paint or oil remnants left behind on the wheel after grinding tools. Paint or oil remnants will (partially) clog up the rough surface.
- if you grind tools made of a metal other than for which the wheel is intended, the granules will be smoothed off instead of broken out. Here, again, dressing is recommended.

Replacement

If the grinding wheel diameter has become too small because of repeated use, the wheel needs to be replaced. When doing so, bear the following points in mind:

- Preferably fit new Creusen grinding wheels. These comply with the highest quality standards.
- The maximum radial oscillation of a new grinding wheel must not exceed approx 0,3 mm or a maximum of 0,5 mm in an axial direction, in each case measure at the circumference of the wheel.
- Each grinding wheel must carry the following information: maker's name, type of binder, dimensions, maximum permissible speed. The grinding wheel must also be fitted with soft card or rubber plates.
- Always store spare grinding wheels in a dry place and at a uniform temperature.
- Always remove the plug from the socket before replacing a grinding wheel.
- First carry out a 'ringing' test before fitting a new wheel. A light tap on the wheel should produce a clear ringing sound. If not, consult your dealer.
- Use only the clamping plates which are fitted standard to the Creusen machine.

-After mounting new grinding wheels, always test them by running them in for about 5 minutes.

Caution: make the test with the wheel guard and cover fitted, and with the spark arrestors and eye shields in the correct position. Allow the machine to run without load.

The Creusen Professional as a polishing machine

If you want to use the Creusen Professional for polishing work, ask your dealer for the Creusen polishing machines or for the special tapered extension spindles. These are an exact fit on the shaft of the grinder. The tapered spindles have an external thread on which the polishing wheels can be easily screwed. The cylindrical section of the spindle is marked with a letter 'R' or 'L'. The spindle marked L should be fitted on the left hand side of the machine and the spindle marked R on the right hand side. If they are fitted the wrong way round, the polishing wheel will run off the spindle when it starts to rotate.

Within the European Communities and the Member States it is obliged to mount polishing covers on the polishing machine. Creusen covers are available in 150 ø and 200 ø mm.

The Creusen Professional with steel wire brush

Fit only Creusen steel wire brushes. The special metal core in this brush fits precisely on the grinder shaft (see fig.3). Besides, this ensures safer working: Creusen steel wire brushes are fully suitable for use within the wheel guard and guard cover, which is absolutely necessary and obliged. Do not exceed the maximum dimensions of the brushes:

grinding wheel diameter	max. diameter of brush	max. width of brush
ø 150 x 20 mm	ø 150 mm	18 mm
ø 200 x 25 mm	ø 200 mm	22 mm

When working with steel wire brushes we strongly recommend to wear safety spectacles.

Maintenance: some tips

If used according to the instructions, the Creusen Professional is virtually maintenance-free. The bearings are completely enclosed and self-lubricating. So there is no need for oiling. The following points should be borne in mind:

- after intensive and prolonged use, take off the guard cover so that you can remove any grindings with a soft brush.
- if rotating parts (such as the tapered polishing spindle) are not going to be used for a long time, it is best to give them a coating of oil. This will prevent oxidation.
- if a grinder wheel becomes clogged up with deposits, roughen up the surface again using the Creusen hand dresser.

5 year warranty

Every Creusen machine is carefully checked before it leaves the factory. This is one of the reasons why we give a warranty against material and/or manufacturing defects for 5 years. Obviously this warranty is subject to certain conditions.

Conditions

This warranty only applies after we have ascertained that a part was defective as from the start. The warranty does not cover defects resulting from inexperienced use or careless treatment, overloading or normal wear. If you wish to make use of your warranty rights, contact your supplier to decide on what action to take and also send in a dated purchase invoice. Any form of transport damage en route or to the factory is not covered by the warranty. We cannot accept for repair any machines and/or parts which are sent in direct, i.e. not via your supplier. We reserve the right to refuse responsibility if parties other than Creusen or on behalf of Creusen have made or attempted to make repairs. We do not recognise any other written or oral warranty conditions in respect of

our products. All our deliveries are further subject to our general conditions of delivery and sale.

Technical changes reserved



EC declaration of conformity for machines

Creusen Electro-Mechanische Industrie BV
Dr Philipslaan 39
6042 CT Roermond
the Netherlands

herewith declares that the bench grinders Creusen Professional serie 8000 are in conformity with the

* European Machinery Directive 98/37/EC
(formerly 89/392/EC)

* The EC guidelines

- Low Voltage Directive 73/23/EC,
as changed lastly.
- Electromagnetic compatibility 89/336/EG,
as changed lastly.

* Appropriate standards NEN, VDE, IEC,
EN 60204-1, EN 60204-2-4.

A handwritten signature in black ink, followed by the printed name 'M.J.F. Creusen'.