

Bona FlexiSand 1.9 by KÜNZLE & TASIN

The Bona FlexiSand 1.9 is a powerful machine that can be equipped with many different drive plates for a wide variety of floor preparation jobs including sanding to bare timber, fine sanding, concrete grinding, application of oil or stain and cleaning. With its powerful 1.9 kW motor and robust construction it runs smoothly and remains cool even when under heavy load. Bona FlexiSand 1.9 comes set up for use with the Bona PowerDrive, a unique drive plate that allows powerful direction-free sanding.

For sanding difficult or challenging substrates the performance of the Bona FlexiSand 1.9 can be enhanced by using the two optional 7 KG weights. Mounted at the front of the machine the weights increase the efficiency of the sanding process when using coarse or medium abrasives. When using the Bona Concrete plate the additional weight can make a significant difference to the performance of the system.

For optimal dust reduction, Bona FlexiSand 1.9 is compatible with the Bona DCS 70.

- Powerful, single speed motor
- Easy and ergonomic operation
- Foldable handle for minimum space when transported
- Prepared for the Bona PowerDrive
- Optional 7 KG weights to increase sanding efficiency
- Effective concrete preparation with the Bona Concrete disc

Technical data

Power:	1.9 kW / 230 Volt (+/- 5%)
Rpm:	147 (unloaded)
Weight:	50 KG
	2 x 7KG weights - optional extra
Height / Width / depth	1170 mm / 490 mm / 640 mm
Disc size:	407 mm

For more technical data, please see the machine manual

Preparation before use

Additional weights

Two optional additional weights may be used with the FlexiSand 1.9. The machine is supplied with pre-drilled holes in the chassis; these are closed with small plugs. Remove the plugs, install the two metal columns and fix by tightening the nuts; all of the required fixings are supplied with the weights.

To use the weights simply remove the black butterfly heads from the metal columns, slide the weight/s into place and tighten the heads once more.

Bona PowerDrive

The FlexiSand 1.9 comes ready to accept the Bona PowerDrive. The steel clogged ring is placed against the chassis and aligned with the screw holes in the steel poles. The ring is secured with the supplied self-cutting screws; firmly tighten the screws to ensure the ring doesn't come loose and check them periodically.



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Drive Plates

Before use, a drive plate has to be attached to the machine. Several different types of drive plates exist for different types of sanding jobs. The most versatile drive plate, the Bona Pad Drive is included on delivery.

To mount a drive plate, tip the machine backwards and place the drive plate towards the centre axle. Turn the drive plate counter clockwise until it attaches and locks. For mounting the Bona PowerDrive, see separate instruction on the PowerDrive datasheet.



	Product name	Description	Abrasive system
	Bona Drive plate, 407 mm (supplied)	Standard drive plate for a wide variety of jobs. Used with various pads / abrasives as appropriate	Bona Screen Bona Scrad System Bona Oil & Stain application Cloths
	Bona PowerDrive 4 x 150 mm	Unique geared drive plate for powerful sanding	Bona Ceramic Abrasives Bona Zirconia Abrasives Bona Diamond Abrasives Bona Intermediate Pads
	Bona Concrete Disc	Drive plate for different types of grinding segments to clean and prepare concrete	Diamond PCD Split PCD Maxi
	Bona Quattro Disc 4 x 150 mm Bona Multi-disc 6 x 125 mm	Fine sanding of wooden floors Suitable as a final finish after belt sanding.	Bona Zirconia Abrasives Bona Diamond Abrasives Bona Intermediate Pads
	Bona Wire brush system	Wire brushing / texturing of timber floors	Bona Wire brush system:- <ul style="list-style-type: none"> • 5 x wire brushes – including for edger tool • Optional Tynex brushes

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Directions for use

When using the Bona FlexiSand 1.9 for the first time, read the machine manual carefully and follow the instructions to set the machine up. It is recommended to always use **an earth leakage circuit breaker**.

The Bona FlexiSand 1.9 can be used for preparation, sanding, application of various products and maintenance depending upon the attachment selected.

Sanding operations include use with the **Bona PowerDrive**, preparation of concrete surface with the **Bona Concrete disc**, fine and multi-head sanding using the **Bona Quattro or Multi disc** attachments and sanding with the **Bona Scrad** system or screens using the **Bona Drive plate** supplied with the machine.

When sanding, attach a vacuum hose to the machine using the supplied aluminium pipe fitting. To obtain the best dust free result it is recommended to use the **Bona DCS 70**; other vacuum systems may be compatible but often cannot cope with the volume of dust produced, particularly when using the Bona PowerDrive.

The FlexiSand 1.9 can be used with **Bona Craft Oil 2K** and other high solids oils, traditional buffing oils and suitable staining systems, such as **Bona DriFast stain**. Maintenance and cleaning can also be undertaken using the FlexiSand 1.9.

Before starting the machine release the handle lock by pressing the black button in the top of the handle and lower the handles to a comfortable working position – essentially this means hands at waist height or slightly lower. NB. Having your hands too high makes controlling the FlexiSand 1.9 more difficult.

Start the machine by pressing in the small red control buttons and squeezing the red triggers on each side of the machine handle. To control the machine, gently lift or lower the handle. Make small gentle movements of only a few centimetres; lift up and the machine moves to the right - push down and it will move to the left.

It can be helpful to use the FlexiSand for the first time on a smooth flat surface with just a white pad under the Bona Pad drive plate. This will give the feel for the machine and allow an understanding to be gained as to the amount of movement required to use the machine as easily and as efficiently as possible.

Please note: These instructions **do not apply** when using the **Bona PowerDrive** system with the Bona FlexiSand 1.9. Using the PowerDrive requires the handle to be only slightly tilted leaving your hands broadly in front of your chest so as to allow the machine to be moved forwards and backwards like a belt sander.

When transporting the FlexiSand 1.9 no drive plate should be attached. If required the handle can be folded in half. The handle hinge can be loosened by turning the black lever halfway up the handle. This will unlock the hinge allowing the handle to be folded. It is important to lock the hinge whilst it is being transported.

Applications

Preparation – It is important that concrete and other cementitious surfaces are well prepared before the installation of a timber floor. The presence of deposits of paint, previous adhesives, carpet underlay remnants, etc. should all be removed together with any friable material to leave a solid slightly textured surface ready to take the timber adhesive.

With a Bona Concrete plate you can choose between three different types of abrasive segment to ensure that you get the best option for the job at hand. The Diamond segment is suitable for concrete and hard surfaces where the floor needs to be ground and levelled. The PCD Split segment is an all-rounder that can deal with most materials in small areas without extensive grinding needed. The PCD Maxi segment can be used for many materials but is not suitable for hard concrete.

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Sanding - There is no need to work in any particular direction when sanding a wooden floor with a FlexiSand 1.9. However, to ensure you do not miss any areas or sand some areas more than others it is often sensible to try to have a methodical pattern. Bona recommend to sand first across the wood grain and then along the grain. When using coarser grits it is particularly important to vary the sanding direction so as not to leave any 'patterns' across the floor.

If using a multi-disc attachment ensure that all of the individual discs are in good condition and that the discs move freely. The abrasives should be changed on all discs at the same time.

It is recommended to vacuum the floor between each sanding operation so that it is clean before continuing; this is to prevent any sanding grit remaining on the flooring from causing scratches. Once sanding is completed, the floor should be vacuumed and tack mopped to ensure all dust is removed before the application of any finishes.

Oil - With **Bona Craft Oil 2K** the Bona FlexiSand can be used to distribute and drive oil into the floor with a red pad before excess oil is removed. It is usual to remove excess oil using a **Bona Buffing cloth** wrapped around a clean buffing pad. A similar process is used when applying **Bona Decking Oil**. A similar process can be used to polish the floor surface using a **Bona Wool pad**. NB. Use the machine without the dust skirt and clean well to remove all oil residues after use.

Bona DriFast Stain application – It is possible to use the FlexiSand 1.9 to apply DriFast stain. Complete a small area by hand first, approx. 2 m², and then apply a small amount of stain as a 'puddle' on this area. Place the machine, with a Bona Buffing cloth around a clean buffing pad in place, on the puddle and then buff the stain across the floor with additional stain being poured occasionally; buff over the original hand applied area first to ensure an even appearance. DriFast stain can be applied sparingly using a lambswool pad and the same system used to remove, and spread, excess stain – all excess stain **must** be removed so as to prevent issues with poor adhesion. NB It is **not** recommended to apply Bona DriFast White in this way.

It is important that the quantity of stain is carefully controlled so as to prevent excess material being left on the floor or material being 'flicked' onto skirting, etc. Hand wipe the surface under the buffing pad after removing the machine so as to ensure that no excess material remains. NB. When working with Bona Craft Oil 2K or Bona DriFast Stain the buffing cloth needs to be replaced occasionally. Upon completion both the cloths and the pad should be disposed of carefully due to the risk of self-ignition.

Cleaning - Use a buffing pad, choosing the appropriate colour pad depending on the task, together with an appropriate cleaning solution. Bona FlexiSand 1.9 is not suitable for buffing floor polish as the rpm is too low.

Periodic maintenance

Clean the FlexiSand 1.9 regularly to ensure that it is free from dust, etc. It is recommended that the underside of the machine and the skirt is carefully cleaned at the end of each job to prevent future contamination. This is particularly important where stain, oil or cleaning materials have been used.

Check the power cable for damage frequently. If the motor receives a weak power supply, e.g. from poor supply or an overly long cable or for other reasons becomes overloaded, the motor's speed may be reduced. The carbon motor brushes should be checked regularly. N.B. Always replace all four brushes at the same time.

Outside of the routine maintenance tasks, major servicing of the Bona FlexiSand 1.9 should be carried out by a professional machine / electrical workshop.

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