


SPECIFICATIONS

	FK 652	FK 653
Model	2100 W	2500 W
Power input	1300 W	1300 W
Power output	6600 min ⁻¹	6600 min ⁻¹
No load speed	M 14	M 14
Spindle thread	20 mm	20 mm
Spindle tread length	22.23 mm	22.23 mm
Wheel arbour	230 mm	230 mm
Wheel diameter, max.	20 ÷ 65 mm	20 ÷ 65 mm
Groove depth	9 ÷ 40 mm	9 ÷ 40 mm
Groove width	8.4 kg	9.0 kg
Weight (without wheels)	II	II
Safety class (EN 60745)		

This model SPARKY power tool is supplied from single-phase alternating current mains. It is double insulated according to EN 60745, IEC 60745 and can be connected to grounded or not grounded sockets. This power tool is radio suppressed in compliance with EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3 for radio interference.

This power tool features safety upon mains drop-out - in case of mains drop-out or unplugging for more than 0,5 s the power tool remains switched off and can be started only after switching off and then on the ON/OFF switch. (This feature is described in part "Operating Directions".)

DESIGNATION

This power tool is designed for cutting grooves with adjustable width and depth only in the materials, specified on the wheels used with this tool (concrete, aerated concrete, masonry, stone, etc., for laying electric installation, duct and gas armature, cable networks, etc. The machine is designed for dry cutting only.

MAIN COMPONENTS

1. Dust extraction pipe
2. Lever for adjusting the cutting depth
3. Wheel guard
4. Screw for fixing the wheel guard
5. Screw for fixing the auxiliary handle
6. Auxiliary handle
7. Roller support
8. ON/OFF switch locking button
9. ON/OFF switch
10. Cutting depth scale
11. Flange
12. Diamond wheel

13. Spacer washer
14. Lock nut
15. Cutting indicator

ACCESSORIES TO BE USED WITH THIS POWER TOOL

Diamond wheels Ø 230 mm



**FOR YOUR SAFETY
READ BEFORE USE!**



Attention, dangerous operation!

Operating with unsecured machined piece or touching the moving parts of the wall chaser could cause severe physical injuries, and noise loading could damage the operator's hearing if the below-mentioned instructions and those in the enclosed Safety Instructions are not observed.



Safety operation instructions and precautions

Before starting to operate the wall chaser, always check the following:

- Make sure power supply voltage corresponds to the value indicated on the name plate with technical data of the tool.;
- Always check the position of ON/OFF switch. The angle grinder must be connected to the power supply socket only when this switch is in OFF position;
- Make sure the cord and the plug are in order. If the replacement of the supply cord is necessary, this has to be done by the manufacturer or his agent in order to avoid a safety hazard.

- Make sure the diamond wheels are reliably fastened and rotate freely. Before starting to operate, check the type of fixing and the maximum number of revolutions of the used tool.
- Make sure if the router bit is well fixed in the collet.



**DURING CARRYING OUT ANY WORK,
PLEASE DO OBSERVE THE FOLLOWING
SAFETY REQUIREMENTS:**

- This power tool is designed for dry cutting only.
- Use only diamond cutting wheels.



Always wear goggles.



Wear ear protectors!



Wear a dust-proof mask.

- Always keep the cord away from the working area of the wheel.
- Unplug the machine prior to any adjustment, repair, maintenance or in case of mains drop out.
- Do not overload the power tool.
- Never operate the wall chaser without auxiliary handle 6.
- Insert the plug into the socket only when the power tool is switched off.
- Never use damaged or unbalanced wheels.
- Do not leave any tools in the work area.
- Hold the tool with both hands and keep proper footing during operation.
- Protect your hands from the rotating cutting wheels.
- Do not operate materials containing asbestos.
- The dust separated during operation is dangerous and aspiration is necessary.
- Feed the wall chaser into the material only if the machine is switched on.
- Be intent when working with the wall chaser to prevent incision of electric cables, water and gas pipes in the walls.
- Never apply pressure to stop the wheel rotation after switching off the wall chaser.
- Do not leave the switched off machine on roller supports 7, always place it leaning on its side.
- Protect the diamond wheels from shock.
- Always withdraw the plug from the power supply socket in case of mains drop out.
- Use original spare parts only.

- Carrying of tool to be done only for the auxiliary handle 6 and the back handle.

● SPARKY power tools must not be used outdoors in rainy weather, or in moist environment (after rain) or in close vicinity with easily flammable liquids and gases. The working place should be well lit.

- Noise emission and vibrations

The values, typical for the device, measured in accordance with EN 60745 are:

Sound pressure level	- 104 dB (A)
Sound power level	- 115 dB (A)
Weighted acceleration	- 6 m/s ²

OPERATING DIRECTIONS

Assembling of wheel guard 1 with the support rollers to the tool (fig.1)

The screw 3 must be loosened. The wheel guard is placed so, that the fixing tooth 4 could be fitted in the groove 2 of the bearing seat of gear box. The screw 3 is tightened till the stable fixing of the wheel guard.

Mounting the cutting wheels

Take the plug out of the socket before carrying out any operation on the machine. Use only diamond cutting wheels for speed 6600 min⁻¹. Place the machine in such a way, that the cutting depth scale 10 can be viewed. Loosen the lever 2 for adjusting the cutting depth and adjust the minimum depth (20 mm). Dismount and clean flange 11, spacers 13 and lock nut 14. Place flange 11 onto the spindle and rotate to fix it.

Adjusting the groove width

The number and thickness of spacers 13 between the cutting wheels define the groove width, varying from 9 to 40 mm. All seven spacer washers 13 must be mounted regardless of groove width. There must be at least one spacer between the two diamond cutting wheels. Mount spacers 13 on flange 11 in due order through the aperture of wheel guard 3, the diamond wheels 12 are mounted in the place, specified by the operator. At will of the operator is possible the use only of one diamond wheel 12 as after it all 7 psc. spacer washers 13 are placed.

Take care that the arrows indicating rotation direction on the wheel guard and the wheel coincide. Screw lock nut 14. Secure the spindle by depressing the spindle lock button 16. Tighten lock nut 14 with two-pin spanner.

Testing new wheels

Operate the wall chaser with new wheels for one minute at no load. Vibrating or otherwise improperly rotating wheels must be replaced immediately.

Initial operation

Make sure power supply voltage corresponds to the value, indicated on the name plate. Before the machine is switched on, place the wall chaser in a position ensuring free wheel rotation.

- Unlocking: Press lock button 8.
- Switching on: Press ON/OFF switch 9 (the wheels start to rotate).
- Locking: Release ON/OFF switch 9 and then lock button 8.
- Switching off: Press and release ON/OFF switch 9. Place the machine on its side with the wheels turned aside from the operator.

In case of mains drop-out (or temporary drop-out for time $t > 0,5$ s), when the ON/OFF switch is in ON position, the machine should not operate after supply recovering. To start operating the machine, first switch off and then switch on the lever of ON/OFF switch 9.

Wheel guard

The wheel guard can be loosened by screw 4. The position of the guard towards the machine can be altered within some limits.

Auxiliary handle

The auxiliary handle 6 is fastened by two screws to the left or to the right of the holder depending on the operating position. The auxiliary handle can be adjusted with screw 5 through 30°. While tightening fixing screw 5, take care that both holder fixing pins get into the guard apertures. The area to be chased must be checked carefully in advance for hidden cables, gas or water pipes.

Adjusting the cutting depth

To avoid unevenness during chasing, adjust the cutting depth 3 mm deeper than the necessary. Release lever 2 for adjusting the cutting depth, set the desired depth by scale 10, then tighten lever 2.

Groove chasing (fig.2)

Always guide the tool with both hands. Place the machine on the front roller guides (1), pull the handle up, so both diamond wheels can

rotate freely. Switch the machine on. After the wheels gain speed, drop the machine down smoothly and feed it into the material (2).

Push the tool smoothly along the groove (3). Take the wheels out of the groove and switch off the machine after finishing operation with the tool. Lay down the machine on its side with the cutting wheels aside from the operator. Do not force the wheels to stop. Never press the lock button while the spindle is still rotating!

Use wooden lath for better guiding for horizontal/diagonal chasing of walls.

Dust extraction

The wall chaser must be operated only with dust extraction. Wear a dust mask. The vacuum cleaner should be appropriate for stone dust suction. Mount the dust extraction pipe 1 on the guard nozzle and connect to the vacuum cleaner.




Observing the statics requirements

The grooves in walls are liable to the regulations in DIN 1053, part 1 or standards, specific for the country. These requirements must be strictly observed. Before starting to operate the wall chaser, consult the person in charge of statics, the architect or the responsible expert. The admitted groove depth and width depend on groove length, the wall thickness and structure.

Recommendations for operation

Feed the tool smoothly and avoid overloading. Upon overloading the built-in electronic protection will actuate and the speed of the wheels will be reduced considerably. To restore the normal speed, withdraw the tool from the operated material. Watch out for wear of wheels and replace them if the efficiency drops down significantly. To chase grooves deeper than 45-50 mm, it is recommendable to perform two passes, half the depth each.

Average efficiency in concrete brand 350:

 mm						
	30	45	60	30	45	60
m/min FK 652	0,85	0,65	0,45	0,60	0,40	0,20
m/min FK 653	0,90	0,70	0,50	0,70	0,50	0,30

Maintenance and repair

Always withdraw the plug from the power supply socket before carrying out maintenance. Ventilation slots 4 on the motor casing should be cleaned periodically. Dismount the cutting wheels and clean the wheel guard after finishing operation with the tool. If the machine should happen to fail despite the care taken, repair should be accomplished by an expert in authorised centres for warranty and post-warranty servicing of SPARKY power tools.

In case the supply cord is damaged, it must be replaced with a special cord or assembly, available from the manufacturer or its service agent.

Warranty

The guarantee period for SPARKY power tools is determined in the guarantee card.

Faults due to normal wear, overloading or improper handling will be excluded from the guarantee.

Faults due to defective materials implemented as well as defects in workmanship are to be corrected free of charge through replacement or repair.

The complaints for defective SPARKY power tools will be recognised if the machine is sent back to the dealer or is presented to the authorised warranty service center undismantled, in its initial condition.

**Environmental Protection**

The machine, accessories and packaging should be sorted for environmental-friendly recycling.

These instructions are printed on recycled paper manufactured without chlorine.

The plastic components are labelled for categorised recycling.