

SPECIFICATIONS

Model	FK 302
Power input	1200 W
Power output	710 W
No load speed	10000 min ⁻¹
Spindle thread	14 mm
Spindle tread length	20 mm
Wheel arbour	22.23 mm
Wheel diameter, max.	125 mm
Groove depth	0 ÷ 30 mm
Groove width	8 ÷ 29 mm
Weight (including accessories)	4.0 kg
Safety class (EN 60745)	II



This model SPARKY power tool is supplied from single-phase alternating current mains only. It is double insulated according to EN 60745 and 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.

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. Wheel guard
2. Arm
3. Cutting depth scale
4. Screw for fixing the groove depth
5. Driving machine
6. End stop for fixing the operating position of the driving machine
7. Screw for fixing the driving machine
8. Auxiliary handle
9. ON/OFF switch
10. Roller support
11. Flange
12. Diamond wheel
13. Spacer washer
14. Lock nut
15. Spindle lock button
16. Dust extraction pipe

ACCESSORIES TO BE USED WITH THIS POWER TOOL

Diamond wheels Ø125



**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 power tool 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.



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

- Unplug the machine prior to any adjustment, repair or maintenance or in case of mains drop out.



Always wear goggles.



Wear ear protectors!



Wear a dust-proof mask.

- This power tool is designed for dry cutting only.
- Use only diamond cutting wheels.
- Always keep the cord away from the working area of the wheel.
- Do not overload the power tool.
- Never operate the wall chaser without auxiliary handle 8.
- Do not switch on the machine fed into the material and leave the machine only when the wheels have halted rotation.
- 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.
- This power tool is delivered with a wheel guard, never operate it without a wheel guard.
- Protect your hands from the rotating cutting wheels.
- Do not operate materials containing asbestos.
- Fix the processed piece in vice or another appropriate way when necessary.
- 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 10, always place it leaning on its side.
- Protect the diamond wheels from shock.
- Use genuine spare parts and accessories only.
- Carry the tool only by the auxiliary handle 8 and the body of the driving machine.

- 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	- 98 dB (A)
Sound power level	- 109 dB (A)
Weighted acceleration	- 6 m/s ²

OPERATING DIRECTIONS

Switching on Switching off

Switching on: push the slider of ON/OFF switch 9 forward until its front end will sag, thus fixing itself. Switching off: press the back, lifted end of switch 9 and release it to return in its initial position.

Fixing the driving machine in operating position (fig. 1)

This power tool is delivered with the driving machine in transport position. To fix the machine in operating position, release screw 7 (1). Rotate the driving machine clockwise (2) until stop. Tighten screw 7 (3). It is possible to achieve the utmost groove depth only in this position.

Replacing the wheels

Remove the plug from the socket before carrying out any operation on the machine. Use diamond cutting wheels only for speed higher or equal to 10000 min⁻¹. Make sure the wheel dimensions are appropriate for the machine. Utilization of reduction bushes or extensions to adapt wheels with arbour exceeding the recommended is forbidden.

Dismounting:

Unwind the screw 4 for fixing the groove depth entirely. Rotate the arm until the chasing set exits completely from the wheel guard. Fix the spindle by pressing button 15 on the gear case of the machine.



Never press the lock button while the spindle is still rotating!

With button 15 depressed, rotate the spindle until the button sinks distinctly. Unscrew lock nut 14 by the two-pin spanner. Remove and clean from debris lock nut 14, spacer washers 13 and flange 11.

Assembly: Adjusting the groove width:

Place flange 11 onto the spindle and rotate until stop. Place the first wheel 12 onto flange 11. Do not place spacer washers between flange 11 and the first wheel 12. Take care that the arrows, indicating rotation direction on the machine gear case and the wheel coincide. Screw lock nut 14. Secure the spindle by depressing the spindle lock button. Tighten lock nut 14 with two-pin spanner. The total width of spacer washers 13, between the wheels, specifies the groove width. There must be at least one spacer washer between the wheels 12. Regardless of the groove width, all spacer washers 13 must be mounted. By request it is possible to operate the machine with one wheel 12 only, with all 6 spacer washers placed behind it. Screw lock nut 14. Fix the spindle by pressing the spindle lock button. Tighten lock nut 14 with two-pin spanner. Rotate the arm until the chasing set is hidden into the wheel guard. Place the screw 4 for fixing the groove depth back and tighten it.

Testing the 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.

Adjusting the cutting depth

To avoid unevenness during chasing, adjust the cutting depth 2-3 mm deeper than the necessary. Release screw 4 for fixing the cutting depth, set the desired depth by scale 10, then tighten screw 4.

Wheel guard

This power tool is delivered with a wheel guard, never operate the power tool without the wheel guard.

The wheel guard can be removed by screw 7. The wheel guard position towards the driving machine can be shifted within narrow limits.

Auxiliary handle

The auxiliary handle 8 is fastened by built-in screw to the wheel guard. Operating the machine without the auxiliary handle is not allowed.

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 on the machine. 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 15 while the wheels are still rotating!

Dust extraction

The dust separated during operation is harmful to your health. The wall chaser must be operated only with dust extraction. Wear a dust mask as well. The vacuum cleaner should be appropriate for stone dust suction. Mount the dust extraction pipe 16 on the guard nozzle 1 and connect to the vacuum cleaner.







Statics requirements

The places to be processed shall be checked in advance for hidden electric wires, gas and water pipes. Groove chasing in walls is 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 permitted groove depth and width depend on groove length, the wall thickness and structure.

Recommendations

Utilize the wheels only in the materials, marked on the wheels. Feed the machine smoothly and avoid overloading. Watch for the wearing out of the wheels and replace them when considerable drop of efficiency is observed.

Average efficiency m/min:

mm						
	10	20	30	10	20	30
	0,4	0,3	0,2	1,0	0,7	0,5
	0,9	0,7	0,5	1,2	0,9	0,7

Maintenance and servicing

Always withdraw the plug from the power supply socket before carrying out maintenance. Ventilation slots should always be clean and not barred. Clean the ventilation slots and the whole machine with compressed air after finishing operation with the tool. If necessary, use non-metal objects to clean the dust cautiously, and pay attention to prevent damaging internal details.

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.

Replacing the brushes

The machine is equipped with auto-stop brushes. Upon wearing out the brushes, the motor will stop automatically. Worn out brushes must be replaced.

Use genuine spare parts only.

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.

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 centre 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.