

# Air File FRV-60A

## PRODUCT INSTRUCTIONS & SAFETY INFORMATION



**MANUFACTURED  
IN SWEDEN**

### Warning

Failure to follow the safety warnings and instructions may result in **serious injury**.  
Remember to save these warnings and instructions for future reference.

## Table of Contents

Technical data.....	3
Thank you for choosing a tool from IPT Technologies .....	4
Intended use.....	4
Important safety notes.....	4
Warnings.....	4
Warranty .....	6
Instructions for use .....	6
Maintenance.....	8
Disposal.....	8
Accessories.....	8
Spare Parts .....	9

## Technical data

Length	200 mm
Weight	0,3 kg
Frequency of Strokes	98 Hz
Stroke	6 mm
Maximum air Flow	0,7 l/s
Air Pressure	6-6.5 bar
Maximum Air Pressure	7 bar
Maximum Air Temperature	35° C
File shank size	Up to 4 mm
Hose Coupling	1/4 inch
Size of Hose Recommended	3-5 mm
Vibration Level according to ISO 8662-1	1,8 m/s <sup>2</sup>
Sound Level according to ISO 7574 / 2	71 dB (A)

**Warning.** Declared values obtained from lab testing according to standards can help compare tools. However, they are insufficient for accurate risk assessments. Actual exposure and risk of harm depend on additional factors.

## Thank you for choosing a tool from IPT Technologies

The FRV-60A air file is an advanced, actively vibration-dampened filing machine with a low noise level (System IPT). The low weight and very low vibration level make it perfect for high-precision work without tiring the operator. Following these simple instructions will ensure a long life of excellent operation.

### Intended use

This tool is intended for professional use only. Neither the tool nor its accessories must be modified in any way. If the product or accessories have sustained damage, do not use them. Installation, operation, and servicing should be carried out exclusively by qualified personnel. Safety and adherence to these guidelines are paramount.

This product is designed for different types of filing.










### Important safety notes


All local safety rules regarding installation, operation, and maintenance shall always be followed. Always use adequate personal protective gear, such as safety goggles, noise protection, gloves, etc., as appropriate.

Always disconnect the tool from the air line before changing the file or making other adjustments.

Carefully blow the compressed air hose clean before connecting the tool to ensure there is no accumulation of water or dirt. The compressed air should be dry and clean. A filter unit should always be used.

### Warnings

-  Do not exceed 7 bar pressure. Use a regulator set to 6,5 bars.
-  Power tools are not insulated for encountering electric power sources.
-  Power tools shall not be used in explosive atmospheres.
-  Do not use files that are broken, cracked, or deformed.
-  Use only accessories designed for this tool.
-  Stored compressed air may cause a hazard.
-  Long hair or loose clothing may be drawn in or trapped by the power tool.
-  Make sure that any sparks emitted are directed so as not to cause a hazard.
-  Be aware of the risk of a whipping compressed air hose.

 Use a facemask or respirator if the work creates dust.

## Warranty

The FRV-60A air file is warranted for 12 months from the date of purchase against faulty workmanship or materials, provided the tool has not been opened by unauthorized persons and has always been lubricated and connected to a filtered air supply of the recommended pressure.

Please return any defective tool to your authorized supplier.

This warranty does not include repair or replacement required because of misuse, abuse, or normal wear and tear on wear parts.

Note that this hand tool is intended for fine mechanic work in clean surroundings, typically for an average use of 1 hour per day or less. For such service, the major parts of the tool will last for years, and wear parts should last for a year or more. However, the life of wear parts depends on the conditions that the tool is operated under (weight of files, air pressure, lubrication, air filtration, and/or several hours of daily use).

Use only original IPT spare parts for any replacement. Other parts may result in hazardous conditions, decreased performance, and increased maintenance and wear.

## Instructions for use

### General Information

The air file is designed to operate at an air pressure of 6 to 6.5 bar but will tolerate some variations without much change in performance. Do not exceed 8 bar pressure. Use a regulator set to 6.5 bar. Connect to a 3 mm ID hose or larger.

Ensure there is no accumulation of water or dirt in the hose by carefully blowing the hose clean before connecting the tool. The compressed air should be dry and clean. A filter unit should always be used. In-line lubrication is recommended. Where this is unavailable, apply a generous amount of oil in the air supply hose 2 to 3 m upstream of the tool every 2 to 4 hours of operation. This is considerably more efficient than supplying oil directly to the tool inlet.

## Operation

The FRV-60A is excellent for high-precision tasks and light finishing operations, including removing flash from workpieces and small castings, but also for mold makers etc. It accepts shank sizes of 4 mm and less. As a special, the piston extension assembly can be modified for slightly larger shanks.

**NOTE:** It is important to let the file do the work to ensure optimum performance. Do not force it down; guide it only. Make sure the file is installed correctly.

The tool is started by gently pushing on the valve cap (16) to move the valve all the way to the open position. To stop, push in the opposite direction. If the compressed air supply to the tool is interrupted, move the valve to the stop position. Restart the tool when the supply is reestablished.

The exhaust can be directed as desired by turning the ring (19). Be sure to direct it so it doesn't cause any harm.

## Changing the file

**NOTE:** Always disconnect the tool from the compressed air line when removing or attaching files.

Use the hex key (23) to loosen the lock screw (1). Insert the file (max. shank 4 mm except as noted above) to a depth consistent with the shank geometry. Orient the file as desired, but preferably take advantage of a bearing surface that is as large as possible during work. Tighten the screw securely by hand and ensure the file is properly clamped.

The tool is optimized for files commonly used in filing machines. These files are generally 60 to 100 mm long, weigh about 10 grams, and have a 3 to 4 mm shank diameter. It is not recommended for files heavier than about 15 grams.

## Maintenance

Lubricate regularly (apply a generous amount of oil in the air supply hose 2 to 3 m upstream of the tool). Use only quality air tool oil. If a continuous lubrication unit is used, it should be positioned 3 to 5 m upstream of the tool, or it will not be effective. The oil flow should be set to provide one drop of oil for every 150 liters of free air. If you tend to push the tool hard downwards during work, apply a couple of drops directly into the front part of the tool.

**Lack of lubrication will result in excessive wear of critical parts inside the tool.**

Note: Do not open the tool; it will void the warranty!

## Disposal

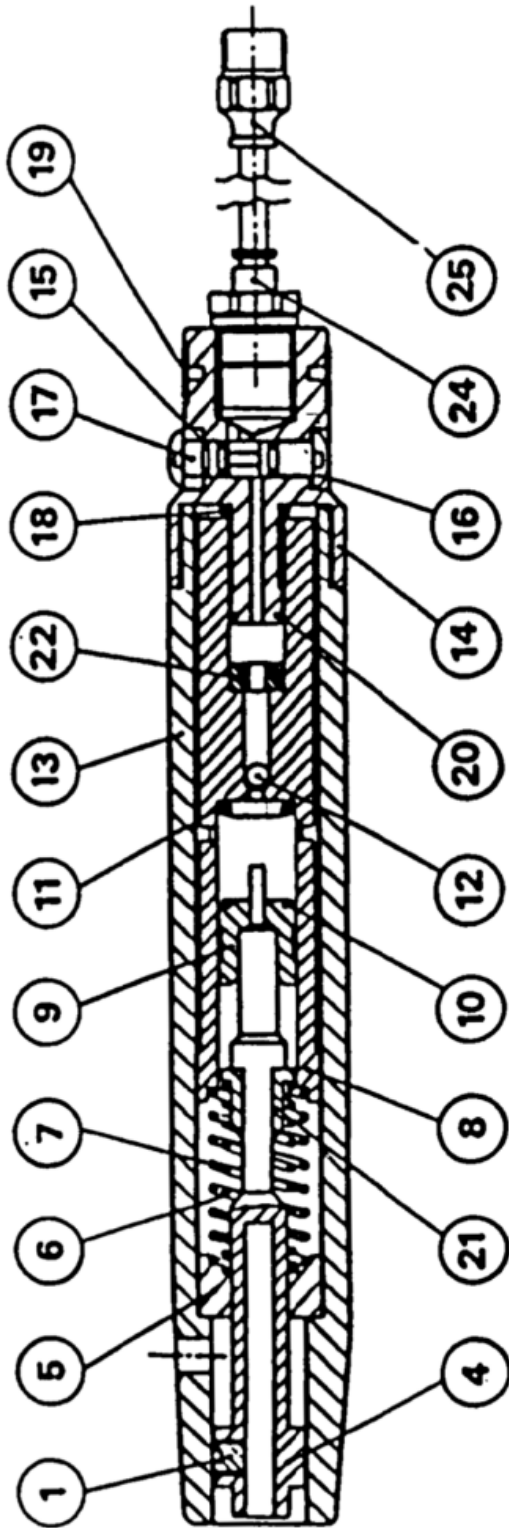
This tool is designed and manufactured to last a long time if properly maintained, and all parts are available as spare parts. If you want to recycle it for any reason, please dismantle it completely, degrease it, and send the different materials separately for recycling according to local laws and regulations.

## Accessories

FRV-60A is delivered without a file so you can choose the optimal one for your job.

## Spare Parts

Use only original IPT spare parts for any replacement! Other parts may result in hazardous conditions, decreased performance, increased wear, and damage to the tool.



- |                                |                                   |                                 |
|--------------------------------|-----------------------------------|---------------------------------|
| 1. F-60-01 File Lock Screw     | 11. F-60-11A Limit Ring A         | 19. F-60-19 Ring                |
| 4. F-60-04A Piston Extension A | 12. F-60-12 Ball                  | 20. F-60-20 Seal Ring           |
| 5. F-60-05 Support             | 13. F-60-13A Housing A            | 21. F-60-21 Spring Support      |
| 6. F-60-06 Spring              | 14. F-60-14 Rear                  | 22. F-60-22 Stop Ring           |
| 7. F-60-07 Spring              | 15. F-60-15 O-ring (3 pcs needed) | 23. F-60-23 Hex Key (Not Shown) |
| 8. F-60-08A Cylinder A         | 16. F-60-16 Endcap (2 pcs needed) | 24. F-60-24 Inlet Fitting       |
| 9. F-60-09A Piston A           | 17. F-60-17 Valve Stem            | 25. F-60-25 Tubing with Fitting |
| 10. F-60-10 Piston Ring        | 18. F-60-18 O-ring                |                                 |