

Scaler / Chipper HRV-601A

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.....	2
Thank you for choosing a tool from IPT Technologies	3
Intended use	3
Important safety notes	3
Warnings	3
Warranty	4
Instructions for use.....	4
Maintenance.....	6
Disposal	6
Accessories	7
Spare Parts	8

Technical data

Length	233 mm	
Weight	1.75 kg	
Frequency of Strokes	115 Hz	
Maximum air Flow	2,3 l/s	
Air Pressure	6,5 - 7 bar	
Maximum Air Pressure	8 bar	
Maximum Air Temperature	35° C	
Hose Coupling	3/8 inch	
Size of Hose Recommended	10 mm	
Vibration Level according to ISO 28927-9 5,2 m/s ²	Uncertainty 0,9 m/s ²	
Sound Pressure Level according to ISO 15744	93 dB (A)	Uncertainty 3 dB (A)
Sound Power Level according to ISO 15744	104 dB (A)	Uncertainty 3 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

HRV-601A Scaler/Chipper is superior to any heavy-duty hammer ever made! It is very powerful, but our effective anti-vibration system has reduced vibrations to quite a low level. The lower vibration level makes it possible to work with higher precision than with other tools, and the noise level is remarkably low. Try it, and you'll be convinced that it is the most efficient chipper of its size!

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 chipping and scaling.

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 chisel 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 8 bar pressure. Use a regulator set to 6,5 to 7 bars.
- ⚠ Power tools are not insulated for encountering electric power sources.
- ⚠ Power tools shall not be used in explosive atmospheres.
- ⚠ Do not use chisels 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

Instructions for use

General Information

The scaler/chipper is designed to operate at an air pressure of 6.5 to 7 bar but will tolerate some variations without much change in performance. Do not exceed 8 bar pressure (although typically, the excess pressure will discharge into the atmosphere). Connect to a 10 mm or larger hose. Use an air connection that will not interfere with the end of the lever (17).

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.

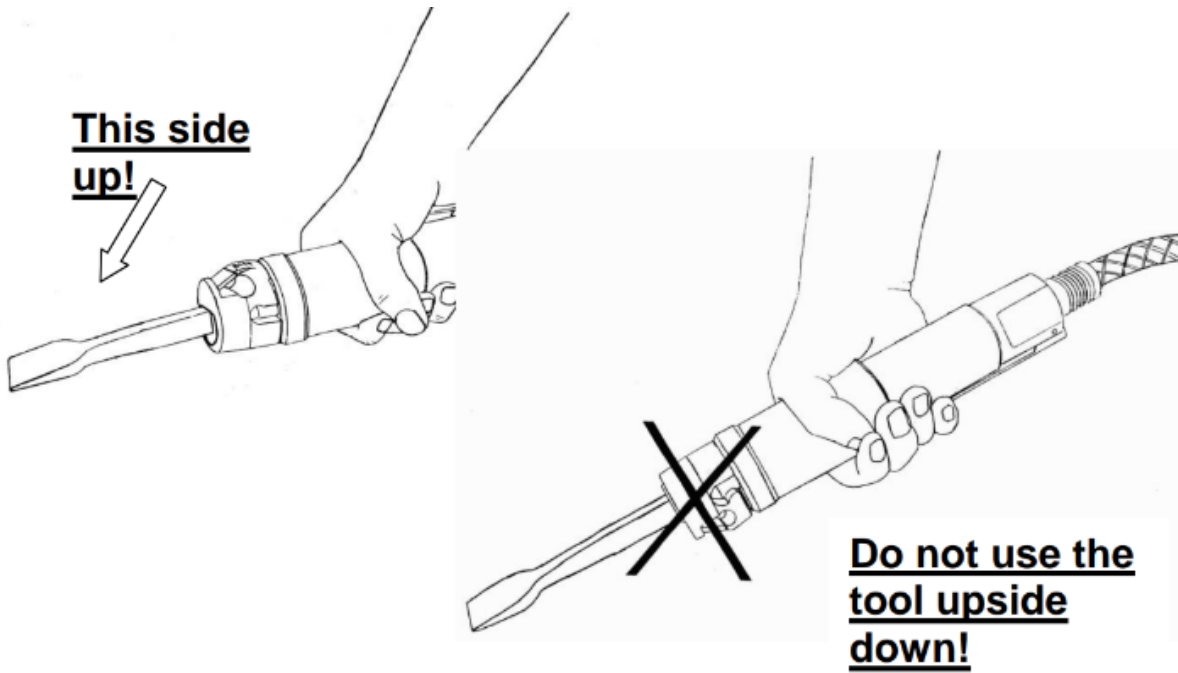
Operation

HRV-601 doesn't work exactly the same as conventional scaling hammers. You need to get acquainted with the tool to appreciate the advantages. It doesn't start to work until there is resistance to the chisel. For efficient material removal, you will find that an intermediate force works the best.

The tool is delivered with the throttle lever (17) on the upper side of the tool. To change the position of the lever, secure the chisel in a vice and rotate the tool body (force needed) clockwise into the desired position.

The discharge of the compressed air is through the front of the tool. Some air circulates in and out of the tool through an opening between the rear (20) and the housing cover (19). This circulation is directed downwards, but the opening in the housing cover can be rotated to direct the air stream as desired.

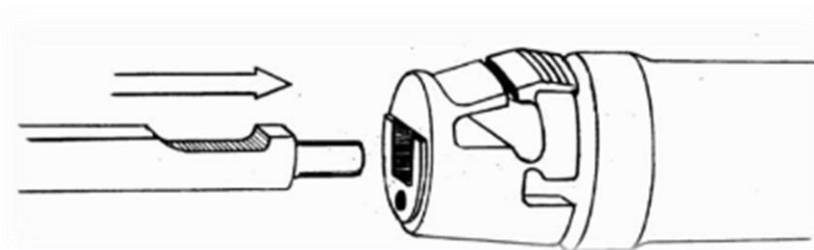
See below for the correct orientation of the tool and chisel retainer.



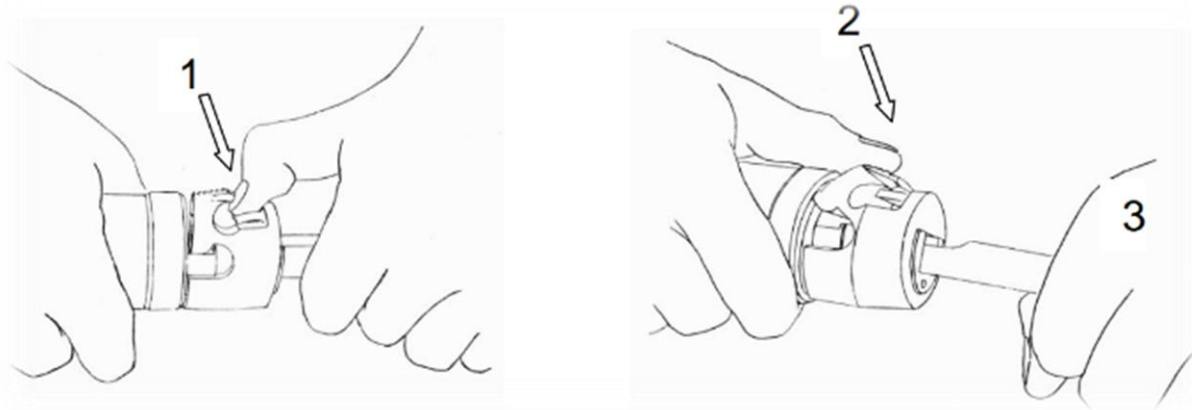
Changing the Chisel

- Always disconnect the scaler/chipper from the compressed air line when removing or attaching chisels.
- Do not clamp the housing (18) in a vice. Deformation of the housing will result in malfunction or poor tool performance.
- Do not point the front end downwards when removing the chisel. The chisel can fall out, causing damage to people and materials.
- Use only chisels intended for this tool. (See Accessories below.) They have a square cross-section and a milled groove, as shown in the figure below.

Push the new chisel into the tool until it reaches the bottom of the chisel holder. Try to pull the chisel out to make sure it has snapped into the correct position.



To remove the chisel, first push it into the tool, or it will interfere with the release of the locking mechanism. Then push the safety catch down (see 1) and push the locking mechanism forward, as shown at 2. The chisel can now be removed, 3.



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 a large amount of dirt or dust has entered the tool, the filter (28) in the rear (20) of the tool (or on the extension handle) might clog. The filter can easily be removed with a wide screwdriver for cleaning. Do not use too much force downward with the screwdriver, as this may damage the filter. **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!

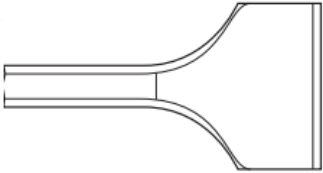

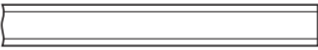
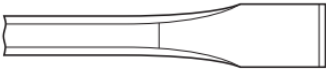
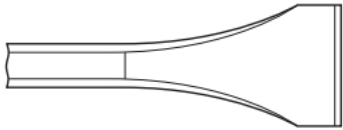


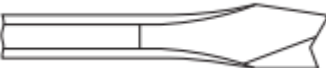
Disposal

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

Chisels

HRV-601A is delivered without a chisel so that you can choose the optimal one for your job. Chisels with Cleco-type shanks fit and are available in different widths, lengths, and angles.

Part number	Description	Width (mm)	Length (mm)	Illustration
390	Wide Scaling Chisel	50	183	
390-3	Wide Scaling Chisel	75	200	
390-A	Angle Scaling Chisel	50	176	
391	Chisel, Blank	13	173	
392	Flat Chisel	18	188	
392-12	Flat Chisel	18	305	
393	Scaling Chisel	35	173	
393-12	Scaling Chisel	35	305	
394	Angle Chisel	35	173	
394-12	Angle Chisel	35	305	
3232	Cape Chisel	8	183	
3241	Panel Cutter	2	158	

Extension handles

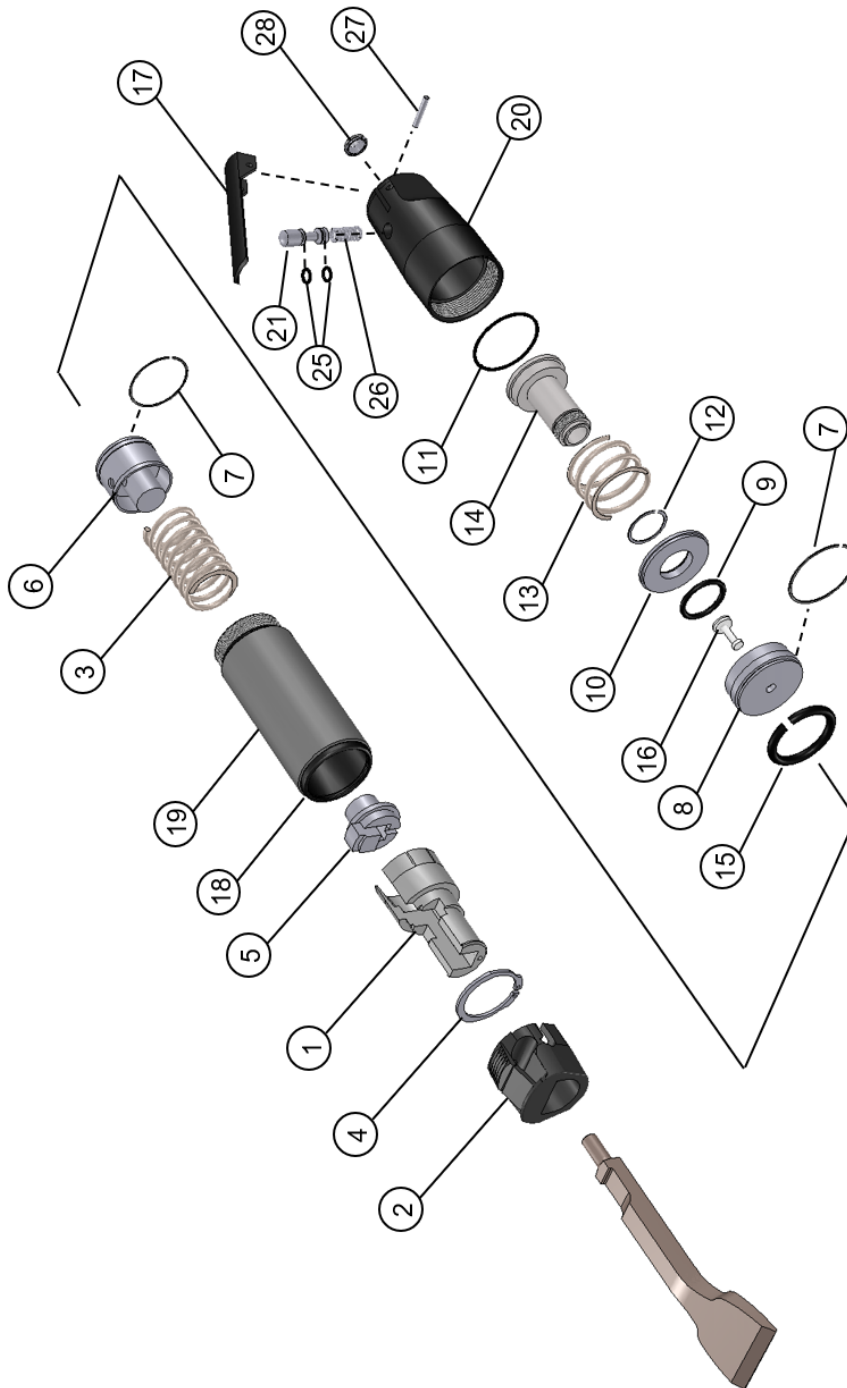
The extension handles are designed specifically for the HRV-601A and will provide superior ergonomic conditions for the operator.



Part number	Description	Length
HRV-601-S1	Extension handle	893 mm including the length of the tool
HRV-601-S2	Extension handle	1859 mm including the length of the tool

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. H-601-01 Steel Front
2. H-601-02 Chisel Retainer
3. H-601-03 Forward Spring
4. H-601-04 Snap Ring
5. H-601-05 Chisel Guide
6. H-601-06 Piston
7. H-601-07 Piston Ring
8. H-601-08 Balance
9. H-601-09 O-ring

10. H-601-10 Divider
11. H-601-11 Rear O-ring
12. H-601-12 Seal Ring
13. H-601-13 Rear Spring
14. H-601-14 Balance Extension
15. H-601-15 Limit Ring
16. H-601-16 Valve
17. H-601-17 Lever
18. H-601-18 Housing

19. H-601-19 Housing Cover
20. H-601-20 Rear
21. H-601-21 Valve Stem
25. H-601-25 O-ring (2 pcs needed)
26. H-601-26 Valve Spring
27. H-601-27 Pin
28. H-601-28 Air Filter