HATCHI LT

USER MANUAL

Version 1.0.0

Developer: Hachipa

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1. INTRODUCTION

HATCHI LT is a standalone DXF processing application designed to automatically reconstruct closed regions and generate solid hatch fills from complex CAD drawings.

The software is optimized for AutoCAD LT workflows and does not require AutoCAD APIs.

The primary goal of HATCHI LT is to reduce manual hatch creation work and automatically process large and complex drawings.

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2. SYSTEM REQUIREMENTS

Operating System:

- Windows 10 (64-bit)
- Windows 11 (64-bit)

Recommended:

- 8 GB RAM or more
- SSD storage
- Multi-core processor

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3. INSTALLATION

1. Run Setup.exe.
2. Accept the License Agreement.
3. Select installation directory.
4. Complete the installation process.
5. Launch HATCHI LT from Desktop or Start Menu.

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4. FIRST START

When starting the software for the first time:

1. The activation window will appear.

2. Copy the displayed Machine ID.
3. Generate a license key using the authorized key generator.
4. Paste the generated key into the License Key field.
5. Click Activate.

After successful activation the main window will display:

License: ACTIVE

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5. MAIN WORKFLOW

Step 1: Select the input DXF file.

Step 2: Review processing parameters.

Step 3: Click RUN PROCESS.

Step 4: Wait until processing is complete.

Step 5: Review the generated DXF file.

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6. INPUT REQUIREMENTS

Supported entities:

- Lines
- Polylines
- Arcs
- Circles
- Ellipses
- Splines

Best results are achieved when the drawing contains well-defined boundaries.

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7. PROCESSING OPTIONS

Tolerance / Gap Close

Controls automatic closure of small gaps between entities.

Lower values:

- Higher precision
- Slower processing

Higher values:

- Faster processing
- More aggressive gap closing

Minimum Area

Defines the smallest region considered valid.

Regions smaller than this value may be ignored.

Curve Segments

Controls spline and curve approximation quality.

Higher values:

- Better accuracy
- Longer processing time

Spatial Grid Size

Controls topology subdivision.

Smaller values:

- More precise detection
- Higher memory usage

Larger values:

- Faster processing
- Lower precision

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8. OUTPUT

The software generates:

*_HATCHED.dxf

The output DXF contains:

- Generated hatch regions
- Original geometry
- Corrected topology where applicable

9. LICENSE MANAGEMENT

The software uses machine-based offline licensing.

License information is stored locally on the computer.

Reinstallation normally does not require reactivation if the registry information remains available.

Major hardware or operating system changes may require a new activation.

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10. PERFORMANCE RECOMMENDATIONS

For very large drawings:

- Close unnecessary applications.
- Use SSD storage.
- Avoid network drives when processing.
- Use reasonable tolerance values.
- Save source drawings before processing.

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11. TROUBLESHOOTING

Problem: No hatch generated.

Possible causes:

- Open boundaries
- Invalid geometry
- Extremely small regions

Solution: Increase gap-closing tolerance slightly and re-run the process.

Problem: Processing appears slow.

Possible causes:

- Extremely complex geometry
- Excessive spline content

Solution: Reduce curve segmentation settings if acceptable.

Problem: License activation fails.

Possible causes:

- Incorrect Machine ID
- Invalid license key

Solution: Generate a new license key using the exact Machine ID displayed by HATCHI LT.

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12. BEST PRACTICES

- Keep backup copies of original DXF files.
- Verify generated output before project delivery.
- Test parameter changes on smaller sample drawings first.
- Use stable release versions for production work.

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13. SUPPORT

Developer: Hachipa

Product: HATCHI LT

Version: 1.0.0

END OF DOCUMENT