

# Introduction to HVLP Sprayers

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## Why Use a Sprayer?

- **Speed:** Finish projects faster than brushing or rolling.
  - **Quality:** Smoother, more professional finishes with minimal brush marks.
  - **Control:** Better for furniture, cabinets, doors, and trim.
  - **Versatility:** Great for woodworking *and* small auto paint repairs.
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## Types of Sprayers

Type	Best For	Notes
Airless Sprayer	Walls, fences, house painting	High volume, less fine control.
Compressed Air Gun	Auto body finishes, furniture	Requires a large compressor.
HVLP Sprayer	Woodworking, furniture, auto touch-ups	Fine finish, lower overspray, portable.

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## HVLP System Components

### Turbine Units

- **2-stage:** Light use (stains, thin finishes).
- **3-stage:** Good general woodworking choice.
- **4/5-stage:** Professional — handles thick paints and automotive finishes.

### Spray Guns

- **Gravity (top-feed):** Better balance, easy to clean.
- **Siphon (bottom-feed):** Holds more finish, heavier.

## PPE Essentials

- Respirator (organic vapor rated)
  - Eye protection
  - Gloves
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## Tips for Success

- **Control Dust:** Clean the spray area. Lightly mist floors. Turn off fans.
  - **Select the Right Nozzle:**
    - 1.0–1.3 mm: Thin finishes
    - 1.4–1.8 mm: Polyurethane, general finishes
    - 2.0+ mm: Thick paints (latex, primers)
  - **Spray Technique:**
    - Stay 6–8 inches away.
    - Move before pulling the trigger.
    - Overlap each pass by 50%.
  - **Practice First:** Always test settings on scrap before spraying the project.
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## Buying New vs. Used

- Used equipment can save money but **inspect carefully:**
    - Test turbine airflow.
    - Check for cracks, clogs, and worn parts.
    - Verify light hobby use vs. heavy shop use.
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## Popular HVLP Vendors

<b>Fuji Spray</b> (very popular with woodworkers)	<b>Apollo Sprayers</b> (professional systems)
<b>Earlex</b> (budget-friendly entry-level models)	<b>Titan Tool</b> (higher-end prosumer units)