Hicello DB*1 Size 14/90

Hicello DB*1 Industrial Sewing Machine Needles

Model: **DB*1 Size 14/90**

1. Introduction

This instruction manual provides essential information for the proper use and maintenance of your Hicello DB*1 Industrial Sewing Machine Needles, Size 14/90. Please read this manual thoroughly before installation and operation to ensure optimal performance and safety.

2. Product Overview

The Hicello DB*1 Industrial Sewing Machine Needles are designed for industrial lockstitch sewing machines. This package contains 10 needles of size 14/90, suitable for a variety of sewing applications, particularly with medium-weight fabrics. The needles are constructed for durability and consistent stitching performance.



Figure 1: Hicello DB*1 Industrial Sewing Machine Needles.

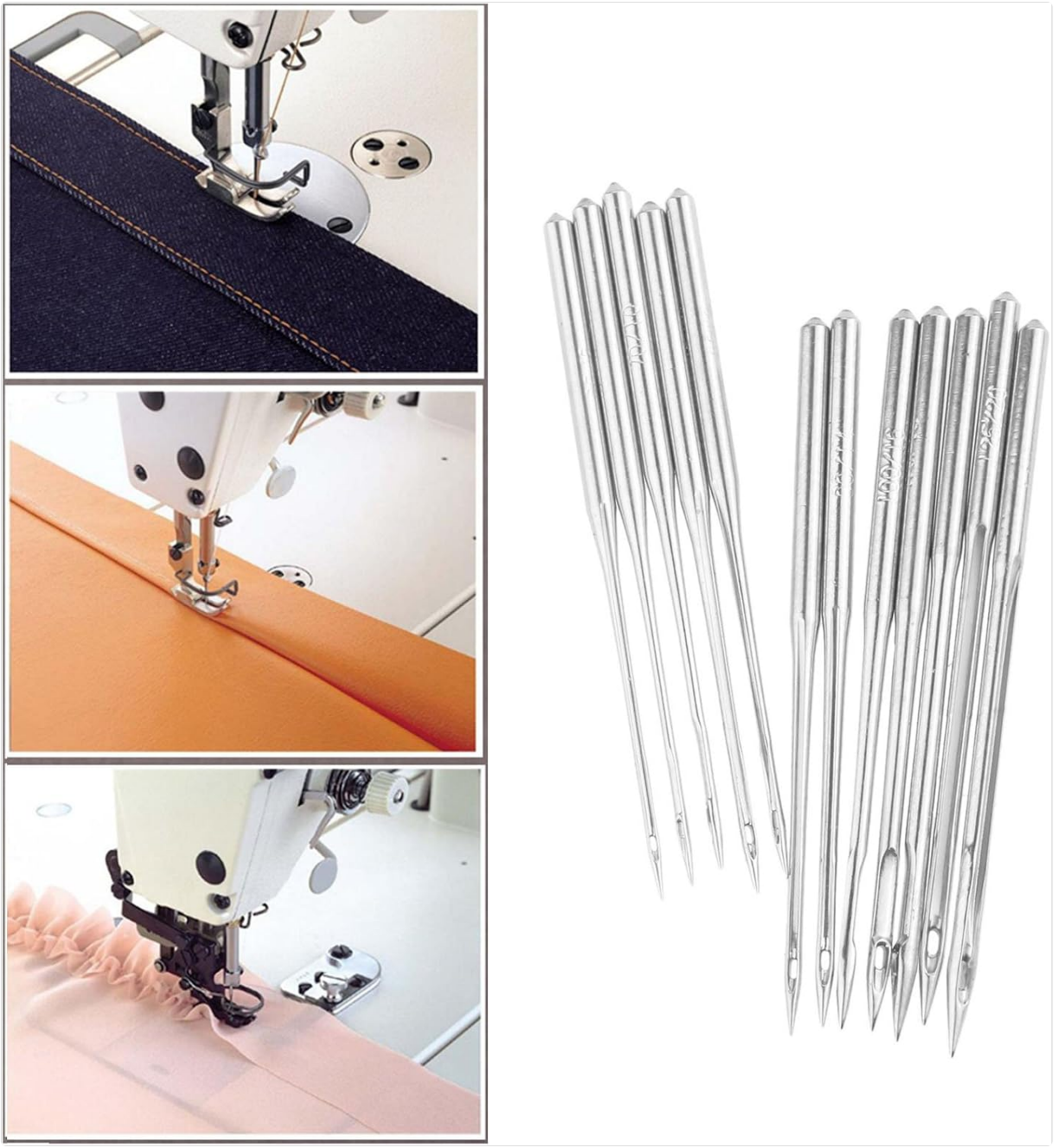


Figure 2: Needles and their application in industrial sewing.

3. Compatibility

These DB*1 needles are compatible with a wide range of industrial lockstitch sewing machines, including popular models from brands such as:

- JUKI (e.g., DDL-555)
- Singer
- Brother
- Most domestic sewing machines designed for industrial needle types

Always refer to your sewing machine's manual to confirm the correct needle system (DB*1) and size requirements.

4. Setup (Needle Installation)

Follow these general steps to install a new needle in your industrial sewing machine. Always consult your specific sewing machine's manual for detailed instructions.

1. **Safety First:** Turn off and unplug your sewing machine before attempting to change the needle. This prevents accidental starts and potential injury.
2. **Lower Needle Bar:** Rotate the handwheel to bring the needle bar to its lowest position, then slightly raise it to expose the needle clamp screw.
3. **Loosen Needle Clamp:** Use a screwdriver to loosen the needle clamp screw. Do not remove the screw completely.
4. **Remove Old Needle:** Carefully pull the old needle downwards and out of the clamp. Dispose of used needles safely.
5. **Insert New Needle:** Take a new Hicello DB*1 needle. Ensure the flat side of the needle shank faces the back of the machine (or as specified by your machine's manual). Push the needle upwards into the needle clamp as far as it will go.
6. **Tighten Needle Clamp:** Securely tighten the needle clamp screw with the screwdriver. Do not overtighten.
7. **Verify Installation:** Gently rotate the handwheel to ensure the needle moves freely and is correctly aligned.





Figure 3: Needle shanks for proper insertion.

5. Operating (Needle Usage)

The size 14/90 needle is a versatile choice for industrial sewing. Here are guidelines for optimal use:

- **Fabric Suitability:** Size 14/90 needles are generally recommended for medium-weight woven fabrics such as denim, canvas, upholstery fabrics, and some synthetic leathers.
- **Thread Compatibility:** Match your needle size to your thread weight. A 14/90 needle works well with medium-weight threads. If your thread is too thick for the needle eye, it can cause skipped stitches or thread breakage.
- **Needle Point:** These needles feature a regular point, suitable for general-purpose sewing on woven materials.
- **Smooth Operation:** Ensure the needle is clean and free from burrs or bends before starting to sew. A damaged needle can snag fabric or break.



Figure 4: Needle tips for precise stitching.

6. Maintenance

Proper care of your sewing machine needles extends their lifespan and ensures consistent stitch quality.

- **Regular Replacement:** Needles should be replaced regularly, typically after 8-10 hours of sewing or at the start of a new project. Dull or bent needles can cause fabric damage, skipped stitches, and thread breakage.
- **Inspection:** Before each use, inspect the needle for any signs of bending, burrs, or a dull point. Run your fingertip gently over the tip (away from the point) to check for roughness.
- **Storage:** Store unused needles in their original packaging or a dedicated needle case to protect them from damage and prevent loss. Keep them in a dry environment to prevent rust.
- **Disposal:** Always dispose of old or broken needles safely in a sharps container or a thick plastic bottle to prevent injury.

7. Troubleshooting

If you encounter issues during sewing, the needle may be a contributing factor. Consider the following:

- **Skipped Stitches:** This is often caused by a bent, dull, or incorrectly inserted needle. Replace the needle and ensure it is inserted with the flat side facing the correct direction.
- **Thread Breakage:** A burr on the needle, a needle that is too small for the thread, or an incorrectly

threaded machine can cause thread breakage. Inspect the needle, ensure proper threading, and consider a larger needle size if the thread is too thick.

- **Fabric Snagging/Damage:** A dull or bent needle can snag and damage fabric. Replace the needle immediately if you notice any fabric damage.
- **Needle Breakage:** This can occur if the needle is bent, too small for the fabric, or if the fabric is pulled forcefully during sewing. Ensure the correct needle size for your material and avoid pulling the fabric.

8. Specifications

Detailed specifications for the Hicello DB*1 Industrial Sewing Machine Needles (Size 14/90):

Feature	Specification
Needle Model	DBx1
Size	14/90 (US Size 14, Metric Size 90)
Length	Approximately 37mm (1.46 inches)
Point Type	Regular Point
Quantity	10 pieces per package
Product Dimensions	4.3 x 2.4 x 0.4 inches (packaging)
Item Weight	0.32 ounces
UPC	653334420343

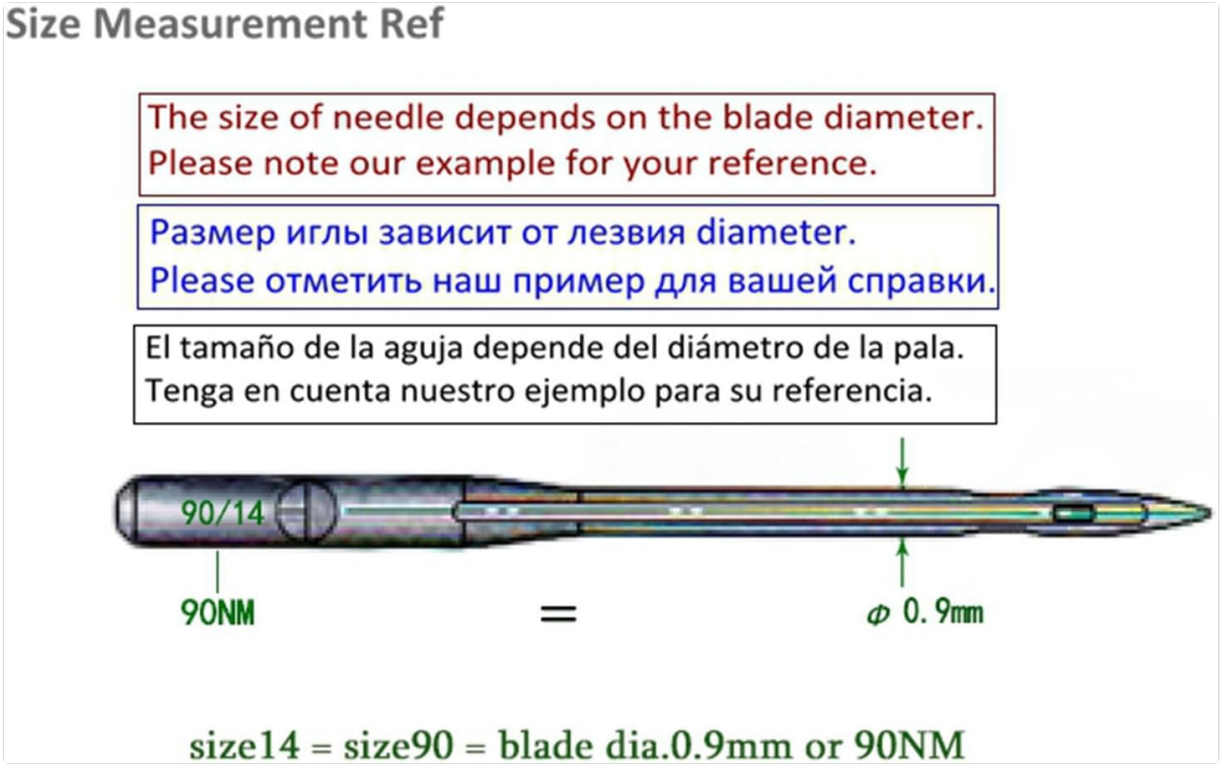


Figure 5: Needle size measurement reference.

9. Warranty and Support

For any questions, concerns, or support regarding your Hicello DB*1 Industrial Sewing Machine Needles, please contact Hicello customer service. Refer to the product packaging or the retailer's website for contact information. Please retain your proof of purchase for any warranty claims.

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