

The D3X Needles logo, with "D3" in large black letters and "NEEDLES" in smaller black letters below it, followed by a large red "X" that partially overlaps the text.

# The Next Level of Detectability

We couldn't reinvent the haystack, so we reinvented the detectable needle.

D3™ needles have been the industry leaders in dependability, durability, and detectability. Since we couldn't reinvent the haystack, we reinvented the needle instead. The new D3X needle features a dual-detection measure, an easy-to-grip extraction collar, to ensure that no needle gets left behind. The extraction collar prevents the broken needle from submerging under the skin and is bright red for maximized visibility, so when one does inevitably break, you can easily locate and extract it from the animal.

Using an enhanced proprietary metal alloy, the new D3X needles are up to six times more detectable when compared to 304 stainless steel needles, and fragments can be detected at line speed using magnetic technology, making them one of the safest options on the market today.

D3X needle tips stay sharper longer, and come in multiple different gauge sizes, increasing the number of injections per needle before breaking and reducing the risk of injection site abscess on the animal. When a needle does break, make sure you know your farm's lost needle protocol, and be on the lookout for the extraction collar's highly visible, signature red X sticking out of the animal.

#### Key Features

- Thick-walled cannula is stronger than conventional needles
- Proprietary metal alloy is up to six times more detectable than regular stainless steel needles
- Highly visible, easy-to-grip, red extraction collar for easy identification and removal of broken needles
- Ultra-sharp, tri-beveled tips increase possible number of injections
- ISO color-coded and tamper-evident packaging ensures a safer product



### Dual Detection

D3X needles are Neogen's patent pending dual-detection needles featuring our trusted detectable metal alloy and newly developed highly visible extraction collar. Made from the same proprietary metal alloy, D3X needles are up to 6 times more detectable when compared to 304 stainless steel needles and allow needle fragments to be detected at line speed using magnetic technology. The extraction collar is designed to prevent a broken needle from submerging into the skin of the animal. With an easy-to-grip extraction collar adhered to the needle, this allows needle removal to happen immediately following a broken needle. The extraction collar is highly visible and recognizable so it can be seen in all lighting conditions.

### Durability

D3X Needles have thick-walled cannulas, which are crimped and pressed into sturdy, aluminum hubs. These stronger sidewalls increase load strength and decrease bending and breaking more than 6-fold over some conventional needles. The needle tips stay sharper longer and makes D3X needles the superior option for production needle selection.

### Dependability

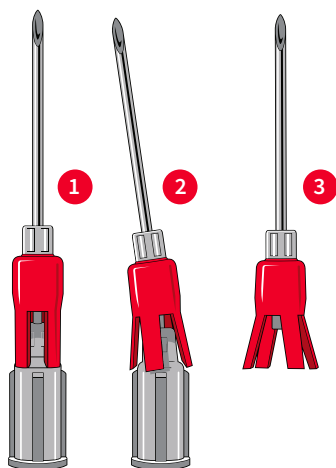
Neogen has been the trusted manufacturer for production farmers for the past 20 years. D3X needles have ultra-sharp, tri-beveled tips that allows for easier penetration into the animal. The sharpness of the needle increases the possible number of injections per needle and reduces the risk of injection site abscesses while decreasing stress on the animal while working.

### Packaging

D3X Needles are packed in trademarked red, color-coded cartridges for safety and convenience while transporting. Cartridges are tamper evident and ISO color-coded for easy gauge and length recognition. D3X needles have thick walled detectable cannulas and hubs. D3X Needles are packaged 100 per box.

*To learn more, call 800.621.8829 (USA/Canada) or 859.254.1221, or visit [neogen.com](http://neogen.com).*

1. Needle intact
2. Bent needle with 1 or 2 of the red arms flared out
3. Broken needle with all 4 arms flared



*Broken needle with extraction collar in an animal*