

FABE-564.01

Opportunities for Sub-surface Nutrient Placement in Ohio

FABE-564.01-Table 1

| Placement Category | Manufacturer | Model | Liquid? | Dry? | AA? | Manure? | Shank Option? | Depth Range | Row Configurations | Row Width Options | *Surface Disturbance | Notes |
|--|--------------|------------------------------|---------|------|-----|---------|---------------|-------------|--------------------|-------------------|----------------------|---|
| Low Disturbance (Injection) ~7–12 mph | Ag Synergy | Genesis Razer | ✓ | ✓ | ✓ | | | 0–6" | | 15, 20, 30" | 15% | Minimal tillage injection unit |
| | Blu-Jet | AT6020 Fertilizer Applicator | ✓ | ✓ | ✓ | | | Shallow | 18, 20, 24 | 15, 20, 30" | 15% | High rate, high acre applicator versatile in fertilizer source and placement options |
| | Case IH | Nutri-Placer 930 | ✓ | ✓ | ✓ | | | 0–6" | 18–30 | 30" | 15% | High speed fertilizer applicator for use in pre-plant applications as well as side dress applications |
| | Dawn | Liquid Fertilizer Applicator | ✓ | | ✓ | | | 3–7" | Customizable | Customizable | 40% | Row units available for purchase and customization of toolbars, shallow coulters type applicator with single coulters knife-style injection |
| | Great Plains | Nutri-Pro Precision NP 4000 | ✓ | | ✓ | | | 3–7" | 16 | 30, 36, 38" | 15% | Vertical tillage type injection unit |
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| Low Disturbance (Injection) ~7–12 mph | John Deere | 2510H | | ✓ | ✓ | | | 0–4.5" | 11–23 | 30" | 15% | Hi-speed dry applicator available for use at pre-plant and side-dress |
| | Orthman | Liquid Fertilizer Applicator | ✓ | | | | | Shallow | 8–24 | 20–40" | 15% | Injection-style shallow coulters applicator—liquid only |
| | Yetter | 10,000 Magnum | ✓ | ✓ | ✓ | | | Shallow | Customizable | Customizable | 15% | Slender fertilizer coulters units available for purchase and customization of toolbars, minimal till environment |
| Zone Mixing ~7–12 mph | Dawn | Pluribus V Strip-Till | ✓ | ✓ | ✓ | ✓ | | 3–7" | Customizable | Customizable | 40% | Well-built, shallow-coulter-type row units available for purchase and customization of toolbars |
| | ETS | SoilWarriorX – Wavy Coulters | ✓ | ✓ | | ✓ | | 5" | Up to 16 Rows | 20, 22, 30, 36" | 40% | Zone-tillage, high speed applicator |
| | Yetter | Maverick 2984 Strip Freshener | ✓ | | ✓ | | | 2–4" | Customizable | Customizable | 15% | Row units available for purchase and customization of toolbars, shallow coulters type strip freshener |

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| Deep Rip & Placement (Banding) ~4–6 mph | AGCO Sunflower | Strip-till 7610 and 7630 | ✓ | ✓ | ✓ | | ✓ | 4–10" | 8 or 12 rows | 30" | 40% | Strip-till type applicator with in-shank openings for dry, liquid, or anhydrous; 20 ft or 30 ft toolbars available |
| | Blu-Jet | Subtiller 4 | ✓ | ✓ | ✓ | | ✓ | 14–18" | 3, 5, 7, 9, 11 | 20, 22, 24, 30, 36, 38, 40" | 33% | Three pt mounted strip-till type applicator utilizing a tandem bar to separate the lead coulter/row cleaners from the injection knife and trailing coulters |
| | Case IH | Nutri-Tiller 5310 | ✓ | ✓ | ✓ | | ✓ | 4–12" | 8, 12, 16, 24 | 30" | 33% | Pull-type ST unit with dry attachment options for the 12 and 16 row options |
| | Hiniker | 6000 Strip-Till | ✓ | ✓ | ✓ | | ✓ | 5–9" | 6, 8, 12, 16 | 22, 30" | 45% | Strip-till type applicator unit, can handle liquid and dry applications |
| | John Deere | 2510S | ✓ | ✓ | ✓ | | ✓ | 0–10" | 12, 16 | 30" | 33% | Strip-till type applicator, AA or dry, various residue configurations |
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| Deep Rip & Placement (Banding) ~4–6 mph | Kongsilde | Deep Placement Applicator | ✓ | ✓ | ✓ | | ✓ | 2–18" | 12, 16, 24 | 30" | 33% | Heavy duty strip-till type applicator with fertilizer knife |
| | Kuhn-Krause | Gladiator 1210M | ✓ | ✓ | ✓ | | ✓ | 6–12" | 4, 8, 16 | 30, 36, 38, 40" | 33% | Re-design of 1200M with upgraded toolbar/hydraulics |
| | Orthman | 1tRIPr II | ✓ | ✓ | ✓ | | ✓ | 0–12" | 8–18 | 20, 22, 30, 36, 38, 40" | 33% | Versatile, precision tillage unit. Allows for dual placement liquid/dry anhydrous at various placement depths independent of shank |
| | Unverferth | Ripper-Stripper ST Subsoiler | ✓ | ✓ | | | ✓ | 6–18" | 2–16 | 30, 36, 38, 40" | 45% | Ripper-Stripper shatters compaction while also allowing for dry/liquid fertilizer applications at various depths |

*Approximated from the width of the row unit, based on 30" rows.

Note: This information is not meant to be a conclusive list of sub-surface nutrient applicators. The Ohio State University does not endorse any 3rd party equipment vendor. This document is for educational purposes only and was last updated January 2024.