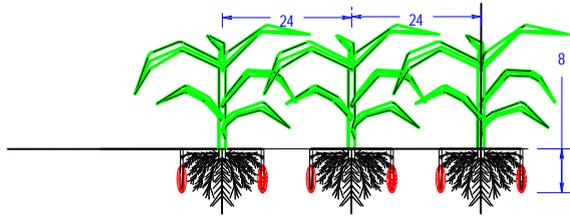


Primary No-Tillage Research For Exactrix Owners.

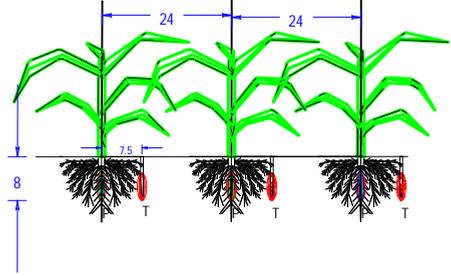
Arrangement 1 and 2.
 24 inch Pre-plant, 12 inch Pre-plant possible at 5 degree angles.



Standard Opener arrangement used for pre-plant and side dressing.

5 degree angle TAPPS Pre-plant on 12 inch, first 30 days:
 The 24 inch row planter singulating corn seed is aligned 15% of the time within 2 inches on either side (4 inches total width) of the pre plant TAPPS 12 inch deep band. Thus 15% of the area is accessible by the initial seminal roots. NPKS efficiency must be reviewed on sandy soils since corn roots at emergence need placed NPKS very close to seed rows.

Primary Indexed Banding, 12 inch, V-6 Turbo Side Band. Arrangement 4.



Binary Banding can have higher and lower rates in P and T bands.

| | | |
|---|---|--|
| <p>24 inch Askew Bands.</p> | <p>12 inch Equalateral 5° Askew Bands.</p> | <p>Paired Binary Indexed Banding.</p> <p>100% of all corn plants access a dedicated Primary band at Emergence. 100% of all corn plants access a second dedicated T band at V-3 with 19/5.</p> <p>Note: 24 inch corn rows. Plant Spacing 8 inch. Bands located 7 to 8 inches deep. Root Circular limits at 4, 10 and 15 inch dia. Seed row fertilizer may not be functional with Paired Binary Indexed Banding.</p> |
| <p>V-2 V-6</p> <p>Banding 24 inch Askew.</p> <p>Red Alert, 116 lbs. N per band. V-2, at 20 to 25 days. 10% to 15% are in hot bands. V-6 at 35 to 40 days. 65% to 70% are in hot bands.</p> | <p>V-6 V-6</p> <p>V-6, 35 to 40 days.</p> <p>Acceptable Stand, 56 lbs. N as NH3 per band. Equalateral Banding 12 inch Askew. Silt Loam Soils Approved with Seed Row Starter.</p> | <p>V-6 V-6 V-3</p> <p>V-6, 35 to 40 days. V-3-4, 21 to 25 days.</p> <p>Top Performance, 56 lbs. N as NH3 per band. Binary Paired Indexed Banding, 16.5/7.5</p> <p>Sandy Soils Approved. Delete Seed Row Starter.</p> <p>Top Performance, 56 lbs. N as NH3 per band. Binary Paired Indexed Banding, 19/5 Sandy Soils Approved. Delete Seed Row Starter.</p> |

- Notes
- Application rate of NH3 not to exceed 140 lbs. N per acre. TAPPKTS Band concentration at 56 lbs. N as NH3 per acre. Bands located directly under the 24 inch corn row. Bands concentration 56 lbs. N in a 12 inch band at 8 inch depth will allow highest levels of P and K availability. P and K can be further reduced with Rotational Band Loading.
- Note 1, Research developed by Harapiak and Penney, Alberta Cooperative Fertilizers, Nitrogen interference with Phosphate Uptake.
- Note 2. Researched developed by Travis Miller, Texas AM, Banding depth and yield with exceptional phosphate efficiency in wheat and pasture production systems.
- Note 3, Research for Binary Banding Guide Lines by Bock and Swanson, Goodland, KS, 2018, Bock, Consultant for TKI and Swanson Pres. of Exactrix Global Systems.
- Note 4, Testing confirms highest rate per acre at 140 lbs. N as Exactrix NH3 with 1%CV of application uniformity. Highest nutrient efficiency achieved at 56 lbs. N per band on 12 inch.
- Note 5, Testing confirms highest rate per acre at 140 lbs. N as Exactrix NH3 with 1%CV of application uniformity. Highest nutrient efficiency achieved at 70 lbs. N per band on 15 inch.
- Note 6. The research and testing confirms that Exactrix TAPPKTS pre-plant P-51C Mustang banding at 1% CV is the only nutrient application system approved for the practice of Binary Banding. Do not attempt with inferior openers that can not band to 7 to 8 depths. Do not attempt with systems that can not deliver at high 300 psi pressures at 1% CV application uniformity. Materials approved are NH3, 10-34-0 Ammonium Poly Phosphate, 12-0-0-26S or Thiosul, 0-0-25-17S or KTS, Ammoniated Zinc with Manganese sulfate. Use no other materials.
- Note 7, The No-till research and testing confirms that Exactrix TAPPKTS pre-plant P-51C Mustang banding can occur immediately ahead of the planter with no waiting period. Confirmation is further made the planter can operate directly on top of the Exactrix bands. No waiting period is required. Highest levels of fertilizer efficiency is anticipated, No seed row fertilizer is required on the planter. Not designed for tillage systems.