



CAROLINA MATERIAL TECHNOLOGIES  
Materials. Processing. Mastered.

## Principle Line Card List: North & South Carolina



**CMT Process Solutions:** Dust Tight Bulk Bag Unloaders, Vibratory Feeders, Bulk Bag Fillers, Bag Dump Stations, Waste Compactors, Automated Unloading, **Full Turnkey Systems**



**Carolina Conveying:** Rotary Valves, IBC Systems, Bin Activators, Diverter Valves, Flexible Screw Conveyors, Double Dump Valves



**Orbetron:** High Accuracy Single & Twin Screw Feeders, Disc Feeders, Batching Systems, Control Systems, Extrusion Systems.



**Unitrak:** Low Maintenance Bucket Conveyors, Aero-mechanical Conveyors, Sanitary Belt Conveyors



**Micronics Filtration:** Dust Collector Systems (Cartridges & Filter Bags), Bin Vent Filters, Bag Dump Stations, Cyclone Separation, Replacement Filters



**Conveyor Engineering & Manufacturing:** Industrial Screw Conveyors, Live Bottoms, Mixers, Screw Presses & More



**Bunting Magnetics:** magnetic separation, metal detection, conveying, and recycling systems—including drawer, plate, and suspended magnets, eddy current separators, magnetic conveyors, and more



**Fox Valves:** Solids Venturi Eductors, Venting Eductors, Slurry Eductors & Washdown Systems, Blower Packages



**Reynolds Mixers:** Industrial Paddle and Ribbon Blenders, Dual Shaft Mixers, Press-Out Stations, Low Speed Agitators, High Speed Dispersers, Coaxial Mixers, Sigma Blade Mixers, ASME Pressure Vessels & Tanks



**AST Storage:** Flat Panel Bolted Silos, Structures and Installation



**Monitor Technologies:** Point Level Controls, Continuous Radar and Plumb Bob Sensors, Moisture Sensors, Dust Sensors, Mass Flow Meter, Flow/No Flow Sensors



**Innova Group:** End of Line Packaging Systems; Stretch Wrapping, Stretch Hooding, Shrink Hood, Strapping Systems, Conveyor Systems, Full System Integration



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## Components & Maintenance Items

|                                                      |                                                                                                                                                                                                                   |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Rotary Airlocks &amp; Feeders</b>                 | Design Issue – reduce rebuild time by 2-4 HOURS<br>Drop Thru, Offset, Blow-thru, Sanitary, Quick Clean<br>Rotor – Open, Closed, Open/Closed                                                                       |
| <b>Slide &amp; Knife Gate Valves</b>                 | Design Issue – Eliminate Leaking<br>Slim Slide and Iris for totes<br>Fabricated gates for various duty<br>Slide gates – standard, sealed rated for 28” Hg<br>Knife Gate Valves                                    |
| <b>Diverter Valves</b>                               | Gravity, Conveying, Plug, Tube, 3-way                                                                                                                                                                             |
| <b>Level Controls – Point Level</b>                  | Design Issues: Rotary – with de-energizing motor (no more motor or gear burn up)<br>Capacitance: Set it and forget it, easy push calibration<br>Vibrating Rod, for light bulk density or low Dielectric constants |
| <b>Level Controls – Continuous</b>                   | Silo Patrol – Yo-yo with Captive Pulley System and IMS Software<br>RadarRight – 80 Ghz no contact radar designed for dry bulk solids. Liquid Version available                                                    |
| <b>Safety Monitor Systems</b>                        | Dust Emissions Monitor<br>Flow/No-Flow Sensor<br>Moisture Sensor                                                                                                                                                  |
| <b>Conveying Elbows</b>                              | Design Issues: Wear Resistant: Guaranteed 1 year<br>Fines Reduction: Up to 70% for plastic pellets (fines, streamers, angel hairs)<br>Eliminate Plugging<br>Reference Lists                                       |
| <b>Blowers &amp; Blower Packages – Hardy Pro Air</b> | Rotron and PD. Roots, MD Kinney, Duraflow, Others. Full Packages & Repairs                                                                                                                                        |
| <b>Bin Vent Filters</b>                              | Design Issue – Access from clean airside. 2 filters in 15 minutes<br>Cartridge Bin Vent Filters<br>Replacement Filters<br>Bag Filter Replacement Service                                                          |
| <b>Venturi Eductors</b>                              | Design Issue – Eliminate rotary valves. No moving parts                                                                                                                                                           |
| <b>Mixer Spare Parts</b>                             | Motors, Shafts, Blades, Trough Lining etc.<br>Refurbishment, Retrofits, Fabrication                                                                                                                               |
| <b>Flow Aids</b>                                     | Aeration devices, Vibrators, Air Pads, Air Cannons                                                                                                                                                                |

