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NEWS

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Automated Bulk Solids Drum Dumping System

PORT ELIZABETH, SOUTH AFRICA — A new [TIP-TITE™ Drum Dumping System](#) from Flexicon automatically rolls drums containing bulk material into position, dumps the material into downstream equipment and rolls empty drums out of the dumping station, allowing safe, high-capacity transfer from drums of all popular sizes weighing up to 340 kg.

Once full drums are rolled onto the dumping station platform, a hydraulic cylinder raises and seats the drum rim against a discharge hood. A second hydraulic cylinder then tips the drum to an angle of 45, 60 or 90 degrees with a motion-dampening feature. At full rotation, the slide gate opens to allow controlled discharge of material into downstream process equipment. After the empty container is returned to its upright position, the rolling motion is reversed, and the container is halted in front of a pneumatically-actuated pusher, which transfers the empty drum to the return conveyor for removal. Meanwhile, another full drum rolls into position on the dumping platform.

Photoelectric sensors located along the powered roller conveyor relay the position of empty and full drums to the system controller, which actuates the conveyor to advance full and empty drums upon completion of each dumping cycle.

The system is also offered in [high-lift configurations](#) for dumping into elevated receiving equipment, and in [open-chute](#) and [dust-free TIP-TITE designs](#) for dumping of boxes, bins, pails and other containers.

The company also manufactures [manual bag dump stations](#), [bulk bag dischargers](#), [bulk bag conditioners](#), [bulk bag fillers](#), [flexible screw conveyors](#), [tubular cable conveyors](#), [pneumatic conveying systems](#), [weigh batching and blending systems](#), and [engineered plant-wide bulk handling systems](#) with automated controls.

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AUTOMATED BULK SOLIDS DRUM DUMPING SYSTEM

Page 2 of 2



GG-0594_DrumTipperRollerConv_20180607_LO.jpg

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resolution .jpg attached to e-mail.)

Caption:
TIP-TITE™ Dumping System for drums
containing bulk solids allows safe, high-
capacity transfer of materials by
automatically positioning, dumping and
removing of drums in repeated cycles.

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