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NEWS

For Immediate Release
31 May 2016
Image: Herewith

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Flexible Screw Conveyor For Front End Loader

PORT ELIZABETH, SOUTH AFRICA — A new extreme-duty Flexicon™ [flexible screw conveyor](#) with purpose-built hopper transfers bulk material received from front end loaders.

The conveyor consists of a heavy-gauge stainless steel screw that rotates within a 200 mm stainless steel tube. Since the conveyor is driven at its top end by a 15 kW variable speed electric motor and gear reducer, material exits the discharge housing prior to contacting any seals or bearings. The tube interior and removable screw are smooth and crevice-free, allowing rapid, thorough cleaning.

Rugged enough to withstand incidental contact with front end loaders, the heavy-gauge stainless steel hopper holds up to 7 tonnes, or 5.7 m³, providing an ample supply of material for the high capacity conveyor to run continually as a front end loader replenishes the material.

Self-contained on an all-stainless skid equipped with forklifting tubes, the system can be deployed in multiple indoor or outdoor locations with a single power connection, conveying a broad range of free-flowing and non-free-flowing materials from fine powders to large aggregates including abrasives, corrosives and materials with bulk densities up to 2400 kg/m³.

Material is conveyed at a 40 degree incline before discharging into downstream processing equipment or storage vessels.

The simple design is said to deliver efficient performance and high reliability while reducing maintenance and cost.

The system is also available constructed of carbon steel with durable industrial coatings.

Other equipment manufactured by the company includes [tubular cable conveyors](#), [pneumatic conveying systems](#), [bulk bag dischargers](#), [bulk bag conditioners](#), [bulk bag fillers](#), [bag dump stations](#), [drum/box/container tippers](#), [weigh batching systems](#) and [engineered plant-wide bulk handling systems](#) with automated controls.

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Caption:

New extreme-duty stainless steel Flexible Screw Conveying System from Flexicon can be forklifted to multiple plant locations to transfer materials sourced by front end loaders at high rates.

EE-0636ZA Flexible Screw Conveyor for Front End Loader PR 20160531.doc

Keywords:
Flexible Screw Conveyor
Front End Loader
Front End Loading of Bulk Materials