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RULMECA Motorized Pulleys power Inertia machine portable plants

Since their first **Rulmecca** Motorized Pulley purchase, Inertia Machine and their customers obtained significant benefits from the internally powered drives and standardized on the compact drives to power key conveyors.



5066 Tracker diesel engine drives crusher, hydraulic pumps for tracks and clutch and generator for all electric motors.



Inertia Machine's 5066 Tracker features Rulmecca Motorized Pulley model 400M at 15 hp to move up to 700 tph of crushed product at 300 fpm, using 460v/3ph/60Hz.

As shown here, Inertia's 5066 Tracker uses a 15 hp Rulmecca Motorized Pulley to drive the 42-inch rear discharge conveyor. This belt transfers up to 700 tph of shot rock limestone, recycled asphalt and recycled concrete at 300 fpm from the huge horizontal shaft impact crusher to the discharge point.

Initially selected because of their compactness, the Rulmecca Motorized Pulley quickly demonstrated its high efficiency and robustness when the discharge conveyor plugged during commissioning. "We pulled off a couple two foot chunks of concrete and then fired up the conveyor," said Tyler Burkholder, Inertia design engineer, "and were surprised that the drive dug itself out without tripping." He explained that the motor/gearbox/V-belt drives used previously were prone to tripping under those conditions.

In addition to the powerful crusher, plant compactness and portability are key features of the 5066 Tracker. Note that it is the only tracked plant of its size capable of being transported from pit to pit without disassembly.



5066 Tracker features quick and easy transport capability using built in three axle bogey.

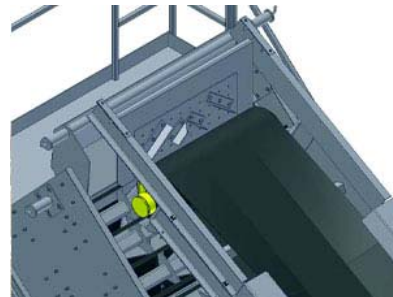
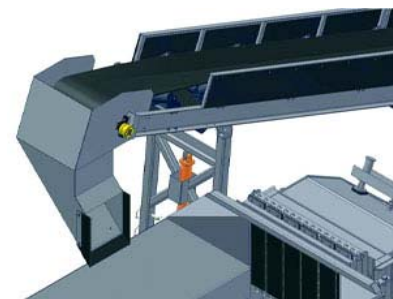


Diagram illustrates improved top size material handling by increased feed opening relief bowl liners.

Off site transport preparation is limited to inserting a triple axle bogey into the kingpin beneath the discharge conveyor and hitching a triple axle semi truck to the kingpin beneath the feeder, as shown.

Rulmecca's compact and powerful conveyor drive is a natural fit with Inertia's plant design strategy. Burkholder said, "Rulmecca Motorized Pulleys reduced our assembly time and enabled us to stay with electric power."



Return Conveyor.



CAD files for Rulmecca products are downloadable.

Rulmeca Motorized Pulley usage recently expanded when Inertia recently included 10 and 15 hp units into the company's 4048 closed circuit plant, currently under construction, driving the 100 tph closed circuit and 300 tph delivery conveyors, respectively.



Note compactness of 10 hp motorized pulley.

Since the plant features quick and easy set up to process RAP, Motorized Pulleys were selected. "These drives give us a great alternative conveyor drive to expand our product line and stay with electric power," said Inertia's Burkholder.

Initially developed in 1953 for coal and stone conveyors in fixed plants in Europe, Rulmeca Motorized Pulleys have gained acceptance in portable plant usage throughout the world. Now portable plant operators can enjoy higher system reliability and lower maintenance expense because Rulmeca Pulleys enclose all drive components within an oil filled hermetically sealed pulley shell. Rather than struggling to protect exposed conveyor drive components, portable plant operators who use Motorized Pulleys can hide them out of harm's way when handling stone, RAP and recycled concrete.

Rulmeca president Mike Gawinski said, "We're very pleased to supply Motorized Pulleys for Inertia's 5066 Tracker and 4048 FRAP plants. We're sure their customers will be very pleased to use them."

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