

CASESTUDY



Gravel Producer Turns up the Torque in Five Days with SEW Solution

Challenge

A. Teichert & Sons, Inc., a construction materials manufacturer located in Sacramento, CA., providing aggregates, asphalt, readymix, precast products, and construction services to over 21 Northern and Central California counties, was in the process of implementing a new gravel production site in Marysville, CA., just north of Sacramento.

All new equipment was installed for the system. The major components included: a large feed hopper, an aggregate material staging conveyor, and an incline belt conveyor to transport material to a crusher operation.

Front-end loaders fill the hopper which then dumps the aggregate material onto the staging conveyor below. As the critical component in the system, the staging conveyor must control the flow rate (volume and speed of the material) onto the incline belt conveyor to achieve a consistent feed rate to the crusher.

The existing staging conveyor drive proved insufficient for the aggregate load that had to be handled and continuing

problems were encountered. The equipment manufacturer needed 4 to 6 weeks to ship and retrofit a larger more compatible drive for the application. This length of reduced production time was unacceptable for Teichert.

Solution

Doug Hammons at Teichert spoke with SEW-Eurodrive's Mike Haskins who recommended a right-angle combination planetary drive to solve the problem of low torque and insufficient speed control that existed with the staging conveyor. SEW's production facility was able to build the new drive and have it ready to ship within 24 hours.

"With the help of our distributor, we were able to build, ship, and install the new drive within a week with a few modifications such as shortening the conveyor drive shaft and fabricating a new base platform and supporting structure. We were also able to use the existing variable frequency inverter for control of the new drive unit," says SEW's Mike Haskins.

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Gravel Production Operation

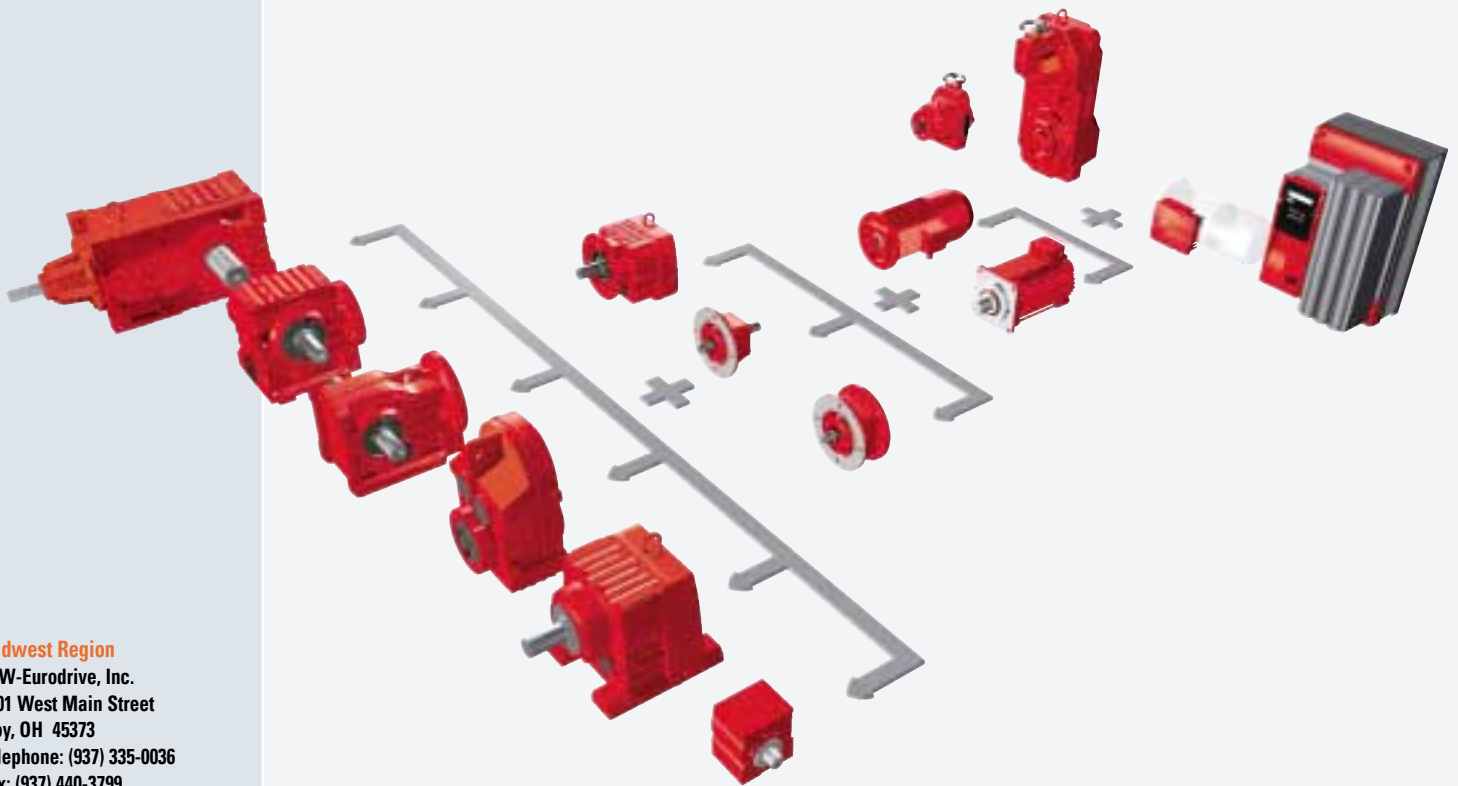


SEW-EURODRIVE
Driving the World

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Results

The system now has all the power and torque necessary to consistently control the aggregate flow. The new drive can handle whatever output is required at any time.

“Due to our quick installation, the system was capable of running at full production in less than a week. The successful results also convinced Teichert to choose the same combination drive for a second application at the facility,” says Haskins.



SEW-Eurodrive combination planetary gear units are designed with the motor mounted integrally to the input of the planetary gear unit – no traditional couplings or adapter flanges are required. Both inline co-axial and right angle configurations are available.

SEW EURODRIVE