

Case Study
(2-Minute Overview)

Crankshaft Handling Made Easy



Features/Benefits Provided:

- **Improved operator Safety**
- **Increased Productivity**
- **Precise Fitting of Part**
- **Reduced part damage**

Overview of what was accomplished. Installing 45 lb. crankshafts into an engine block requires gentle handling and precision. The crankshaft has to be removed from the racks and placed very carefully in the engine block on the conveyor; otherwise the support bearing can be damaged.

The electronic controls of the Balancer and special handforce-sensing handle allow for fast, efficient pick up of the crankshaft. Once the part is safely secured and lifted from the rack, the balancer automatically switches into “float” mode. This allows the operator to safely and precisely set the crankshaft using both hands.

The equipment selected for this task was an Enclosed Track Crane System & “smart” Balancer. The design features of the track allow the crane to be moved with minimum effort into the exact position required.

The operators were immediately excited about how easily and accurately the part could be handled.

WrapUp. By greatly improving the precision of this operation, the quality of the end product was improved.

More discussion of accomplishments.

- This system has proven to be both reliable and durable over years of operation.
- The ergonomic benefits reduce the risk of muscle and back injuries.
- The gentle handling has greatly reduced damage to the support bearings.

DEMAG
Cranes & Components

Handling Technology
29201 Aurora Road
Solon, OH, 44139
440-248-2400 and 440-248-2768
ergo@demag-us.com
www.demag-us.com

Proud Member of the
Monorail Manufacturers
Association

