

Unbalanced Forces and Couples

Reciprocating compressors develop unbalanced forces and couples due to tolerances in the reciprocating weights at the offset of the compressor throws. The unbalance comes in the form of horizontal and vertical forces and horizontal and vertical couples.

The compressor skid and foundation must be designed to dampen and transfer these forces.

All Forces and Couples act about the center of the crankshaft.

Related topic: [Balanced Opposed Design](#)

