

CASE STUDY: Heavy-Duty Rotary Electric Valve Actuators

INDUSTRY	Actuator
PROJECT NAME	Motor Technology for Heavy-Duty Rotary Electric Valve Actuators
PRODUCT TYPE	Feasibility Study
DESCRIPTION	Identify potential alternatives to using a large array of discrete motors that can be inserted into a common gearbox to produce the specific performance required for a given application. Ideally, the alternatives should enable a very narrow set of motor and gearbox combinations to cover a very large range of rotational speeds and torque outputs through tunable parameters in the power electronics or motor controller.
RESULT	The Feasibility Study deliverables included a) a survey of potential architectural concepts for the electro-mechanics, b) a survey of potential power and control methods that would have to be employed to achieve the desired performance levels, c) an assessment of the potential range of application, performance, and relative cost of each alternative.
DURATION	5 months

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