New DC servo gear motor combinations.

Complex processing applications requiring human interaction require absolute precision to ensure operator safety. New zero backlash brushless DC servo gear motors with absolute encoder combinations supply the solution.

When a mineral processing company required an automation process involving high torque levels in close proximity to the machinery operator, new product thinking was required. The heavy equipment being moved generates considerable inertia that would need to hold under brake tension. Position control of the load requires encoder feedback on the brushless DC motor to compliment absolute encoder feedback on the load and zero backlash on the gearhead to ensure the unit is in the exact position that the control system thinks it is.

The solution pictured is the first assembled combination of a maxon 60mm 48V 400w brushless DC motor, 3 channel digital incremental encoder, 24V holding brake and 160:1 zero backlash gearhead. This new motor solution can hold a 400Nm load continuously and withstand shock loading on the output of up to 2200Nm. Speeds of up to 30rpm are capable from the unit and it is easily configured for use with servo amplifiers or position controllers having zero cogging or mechanical detents.

For further information on this new product combination or engineering assistance with complex applications please do not hesitate to contact our Sydney office. Ph. +61 2 9457 7477.

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