



## Product

## BG & BK Series Geared Motors

## Application

## Drill Pipe Hardbanding Machine

## Highlights

- BG & BK Series geared motors feature inverter-friendly design
- All-position mounting flexibility
- Low noise gearing
- IP65 Enclosure (Standard), IP66 (Optional)
- All units are completely enclosed, sealed against dust and moisture

A leading oil field services company needed robust geared motors for use on its large hardbanding machines. After repeated use, the box end joint of drill pipe sections tend to wear. If the pipe OD wears down too far, the 27-32 ft. long pipe sections become unusable. This can be an expensive problem with drill pipe costs averaging \$75 USD per foot. Hardbanding is a process that effectively extends the life of drilling pipe by welding an approximately 3 in. wide band of reinforcing alloy material to the worn tool joint area of the pipe.

Geared motors are used to move the heavy pipe sections through the hardbanding machine as well as to rotate the pipe in multi-position orientations. Bauer Gear Motor was initially contacted by a distribution partner, who coordinated a meeting directly with the customer, to review the application details. Additional collaboration occurred between the Bauer engineering team and the customer's engineers to specify and design the precise geared motor solutions needed.

Bauer supplied Model BK06 right angle, helical bevel geared motors and Model BG90 inline worm gear units to meet the different application requirements on the machine. Modifications were made to the units including an internal motor brake, shaft orientation and the conduit box.

The economical BG Series gear motors set new standards for reliability. The units feature an inverter-friendly design, which provides easy integration. BG models offer all-position mounting flexibility to meet any requirement. Other features include generously dimensioned ball or roller bearings, case-hardened forged and ground gears, and internally and externally reinforced gearboxes to ensure a long, low maintenance service life.

BK Series gear motors are highly reliable, efficient and cost-effective. They feature a torque rating up to 18500 Nm and output speeds up to 280 min<sup>-1</sup>. Units are completely enclosed and sealed against dust and moisture.

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