



## Product

## Application

## Highlights

- BF Series features an economical and space-saving shaft mount design with integrated torque arm for easy and convenient mounting
- Motor power from 0.03 kW to 75 kW
- 10 gearbox sizes for torques from 90 Nm to 18500 Nm
- High-efficiency and robust gearing design impervious to shock and vibration
- Enclosure IP 65 as standard, IP66 (optional)
- Corrosion protection COR01, COR02, COR03



## BF Series Geared Motors

## Lumber Tilt Hoists

A lumber-handling equipment manufacturer needed a robust electric geared motor solution to replace hydraulic cylinders on its tilt hoists. During operation, full bundles of stacked, rough-cut lumber are moved onto the hoist. The entire bundle is then lifted and tilted. As the tilted hoist slowly raises the bundle, single layers/rows of boards are released from the top of the bundle and slide onto a feeder conveyor that transports the boards for further finishing.

Bauer supplied BF60 parallel shaft gear motors to meet the customer's application requirements. Each tilt hoist utilizes two 30 HP geared motors that drive long ball screws. The electric gear motors combined with the ball screws provide a more precise, controlled movement of the hoist compared to hydraulic cylinders. The possibility of damaging fluid leaks and cylinder creep/drift are also eliminated.

BF Series gearboxes feature high-tensile, case-hardened steel gearing with strong, non-flexible pinion design and oversized input bearings to ensure exact tooth meshing and longevity of the gearbox. Gearing is enclosed within a thick, reinforced, high-tensile cast housing. Units feature a 3-piece labyrinth input seal to protect against oil leakage in any orientation. Aluminum die-cast motor housings, bearing covers and terminal boxes provide maximum corrosion-resistance. An aluminium die-cast cage rotor ensures high reliability at high starting torques and low starting currents. Bauer motors are manufactured in-house allowing for customization to meet specific application requirements. All Bauer motors are inverter duty and IP65 rated as standard.

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