

Screw Conveyor Safety Improvement Notice

This notice is issued to notify users of screw conveyor (auger) systems of a recommended Safety Improvement Notice to the electric drive system (motor & gearbox) for Fixed and Variable Speed electric drive systems.

- **Problem** – Screw conveyor (auger) does not stop immediately upon activation of the emergency stop button.
- **Why** – the emergency stop button is designed to cut the electric power to the motor, there is no mechanical brake function built into this system hence the screw conveyor can still take up to six complete revolutions to come to a complete stop after activation of the e-stop.
- **The machinery directive is written into law regarding the safe use of rotating machinery. Any piece of rotating machinery including screw conveyors without an effective Immediate Stop Brake (ISB) may not be compliant with this and other safety directives.**
- **Solution** – Retrofit the old drive system with the new JBS Group Immediate Stop Brake (ISB) system for screw conveyors. This IS RECOMMENDED for ALL screw Conveyor installations.
- Conveyor related injuries often involve a worker's body parts getting caught in **nip points or shear points** when:
 - Cleaning or maintaining a conveyor, especially when it is still operating.
 - Reaching into an in-going nip point to remove debris or to free jammed material.
 - A cleaning cloth or clothing gets caught in the conveyor and pulls fingers or hands into the conveyor

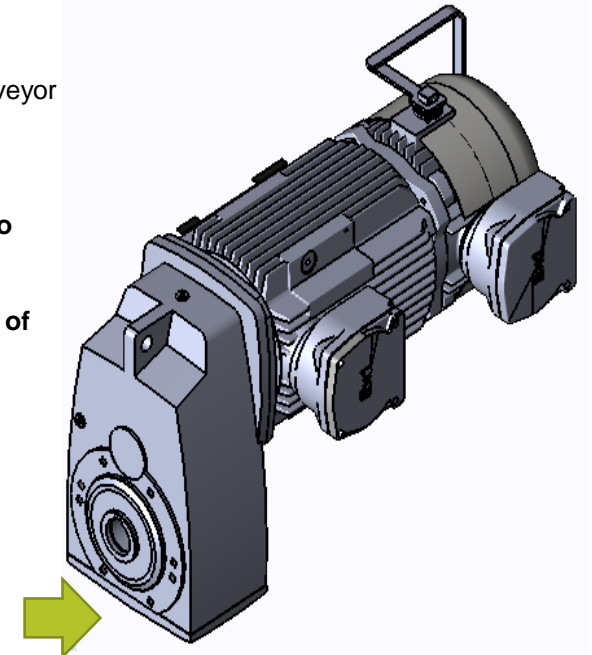
The JBS Group Immediate Stop Brake (ISB) is a very simple retrofit which should be implemented with immediate effect – simply change out the drive unit (motor & gearbox). The mechanical brake is built into the new drive system reducing rig space and cost while improving operator safety.

The JBS Group ISB is designed to bring the screw conveyor to an IMMEDIATE STOP within 0.5 seconds of activation of the emergency stop.

The JBS Group ISB requires manual resetting before resuming conveyor operation.

BAT – Best Available Technology for Screw Conveyor (Auger) Drive Systems - the JBS ISB

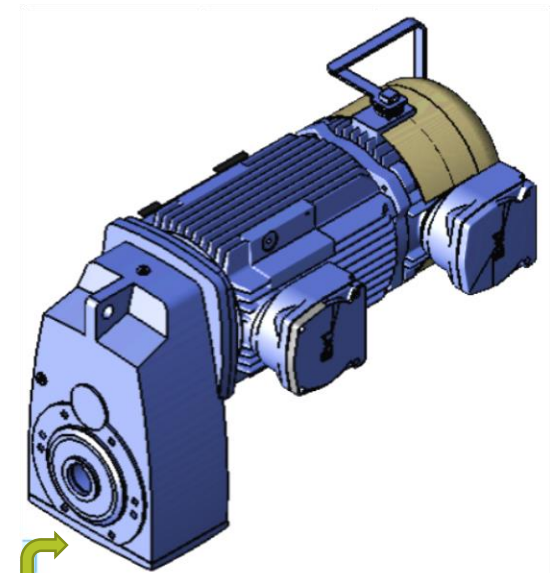
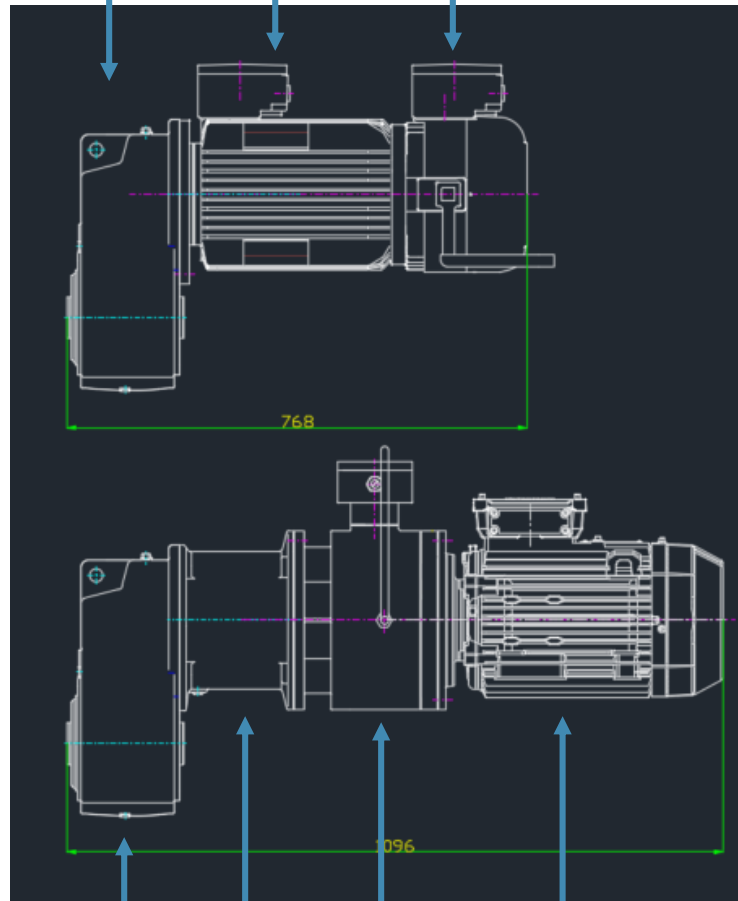
Image shows JBS Group ISB with mechanical brake built into drive unit



The JBS ISB Costs 25% Less and is 35% Smaller Than Other Units

JBS ISB 7.5KW Drive – 768mm Long

Gearbox Motor Brake



JBS ISB

Key Benefits:

SAFETY – Immediate Stop in 0.5 seconds

LESS COST – 25% Cost Saving

NEXT GENERATION

- 35% smaller footprint, less rig space
- Ease of Installation
- Less Moving Parts, Less Maintenance
- Increased Efficiency
- Simple Retrofit
- Fixed & Variable Speed
- Direct Drive
- 24/7 Global Support
- Best Available Technology (BAT)

Old Style ISB 7.5KW Drive – 1096mm Long

Gearbox IEC Flange Brake Motor