



## GEARBOX

## INFORMATION SHEET

### OVERVIEW

Diamond doors operate with an industrial grade gearbox determined by door size, weight, and opener speed. These gear boxes are oil-bath lubricated and come factory filled.

Our gearbox (in combination with the driveline, electric lift motor, standard lift cables, and "Y" pushers), provides a standard open rate of 18ft per minute. The gearbox ratio ranges from 32:1 up to 90:1, providing customers with the industry's fastest opening bi-fold door. Our drive system speed can be further increased with our speed increase kit. This option will increase the opening rate by 20-25%.

Door safety is especially important to us at Diamond Doors, which is why we engineer our doors with an overrated gearbox. Our gearboxes are rated for continuous use, which is significantly above the requirements for even the most frequently used doors.

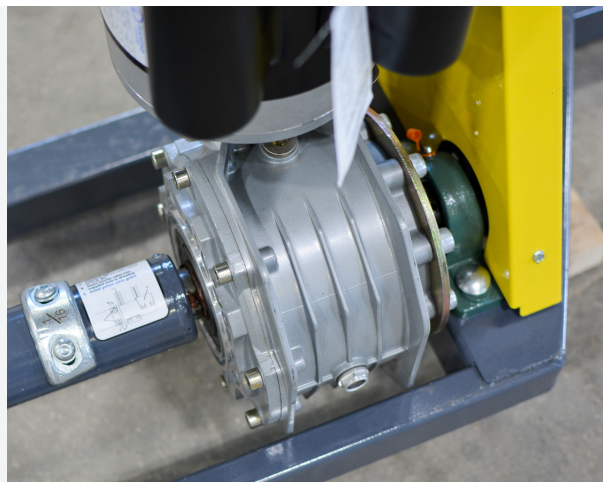
Our sidewinder mounted gear boxes have a direct drive system. This simple design is exclusive to Diamond Doors. Not only is it effective, but using a simplified system eliminates the likelihood of chain failure and reduces maintenance. This drive system is used on doors of 600sq/ft or less. Center mounted gear boxes are placed in the middle of the door, coupling the two drivelines together.

### WARRANTY

The door is free of manufacturing defects in material and workmanship for a period of two years. The door will not warp, crack, or buckle under normal intended use as a door.

### TECHNICAL SPECS

Oil Application System: Oil bath  
Standard Opening Speed: 18ft per minute  
Gear Ratio: 32:1 - 90:1



### FREQUENTLY ASKED QUESTIONS

#### How often do I have to change the gearbox oil?

Unless there is evidence that oil has been leaking out, the oil in the gear box should be checked every three months. Low usage doors typically need the oil changed after several years. You can refer to the owner's manual for oil change procedure.

#### Do I need to add oil to the gearbox?

The gearbox comes oil-bath lubricated and factory filled. When it comes time to top up the oil, refer to the owners manual for oil recommendations specific to your climate.

#### What type of gear system does your gearbox have?

Our Gearboxes utilize a worm gear system. These gear systems are unlikely to turn backwards, creating a natural brake – another safety precaution we have implemented.

