

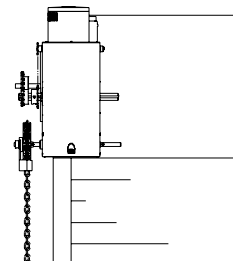
Mechanical Modifications

The following modifications will allow you to cover special applications or provide you with additional protective features. Prices are for one modification per operator.

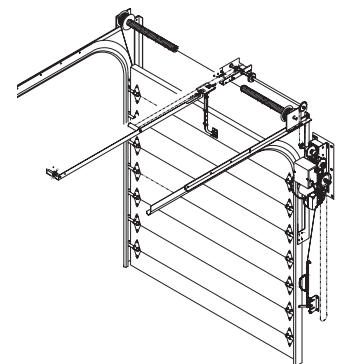
Modification No.	Description
MOD 050	<p>Friction Clutch, #50 Chain</p> <p>Installed directly on the output shaft of the operator. Provides protection so that the clutch will slip when the door encounters an obstruction. Includes sprocket for #50 chain. Operator mounting side must be specified. A spreader bar cannot be used in conjunction with this modification.</p> <p>Applies to Opera-GH, MGH</p>
MOD 051	<p>Friction Clutch, #60 Chain</p> <p>Installed directly on the output shaft of the operator. Provides protection so that the clutch will slip when the door encounters an obstruction. Includes sprocket for #60 chain. Operator mounting side must be specified. A spreader bar cannot be used in conjunction with this modification.</p> <p>Applies to Opera-GH, MGH</p>
MOD 053	<p>Hoist Mounted on Left Hand Side</p> <p>The manual chain hoist is mounted on the left hand side instead of on the right. This is necessary when the operator is hood mounted on the left hand side of the door.</p> <p>Applies to Opera-MH/HJ/H/SH/GH, MGH</p> <p>Note: For Opera-H/SH with environmental modifications and hoist on left, please consult inside sales.</p>
MOD 055	<p>Double V-Belt</p> <p>Applies mainly to apartment applications. The standard single 5L V-belt and pulley are replaced by a double 4L V-belt and pulley. This reduces the door speed from 12"/s to 9"/s for a quieter operation and longer lifetime.</p> <p>Applies to MTH, MTBH</p>
MOD 056	<p>Brake MLT</p> <p>A disk brake is installed on the operator to provide additional braking torque to stop the door quicker.</p> <p>Applies to MLT</p>
MOD 060	<p>Auxiliary Trolley, #41 Chain</p> <p>Provides a draw bar operation of a standard lift door with a jackshaft operator. It is an easy way to combine draw bar and hand chain operation or floor level disconnect. Useful for back room problems or to decrease speed. Maximum door width 22'. Includes track for doors up to 12' high.</p> <p>Applies to Opera-J/H/SH/GH, MGH</p> <p>Note: With side-mount jackshaft applications, reverse limits (MOD007) are supplied at no charge.</p>
MOD 061	<p>Dual Auxiliary Trolley, #41 Chain</p> <p>Provides operation of very wide (over 22') standard lift door with a jackshaft operator driving two identical drawbar arrangements. It is an easy way to combine draw bar and hand chain operation or floor level disconnect. Useful for back room problems or to decrease speed. Includes track for doors up to 12' high.</p> <p>Applies to Opera-J/H/SH/GH, MGH</p> <p>Note: With side-mount jackshaft applications, reverse limits (MOD007) are supplied at no charge.</p>
MOD 062	<p>Dual Trolley Drive, #48 Chain</p> <p>Provides dual even lifting points on very wide doors (over 22' wide). Reduces damage that may occur to top section. Supplied with 12' long cross header shaft for standard lift doors.</p> <p>Applies to MTH and MTBH 1/2 HP</p>



Friction clutch



Hoist on left

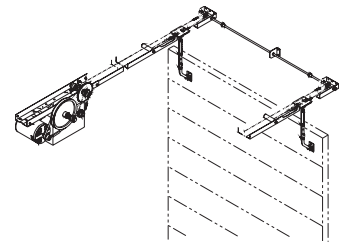


Auxiliary trolley

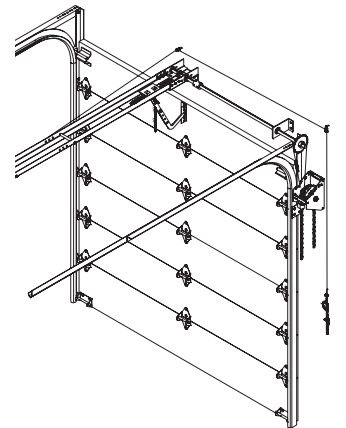
Please note: The modification prices are valid only for one modification per operator and when the modification is purchased in conjunction with the operator. If more than one modification is required on the same operator, please consult inside sales for compatibility and price.

Mechanical Modifications

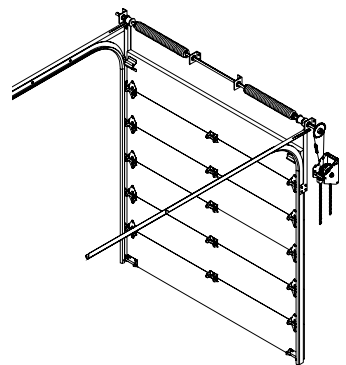
Modification No.	Description
MOD 063	<p>Dual Trolley Drive, #41 Chain</p> <p>Provides dual even lifting points on very wide doors (over 22' wide). Reduces damage that may occur to top section. Supplied with 12' long cross header shaft for standard lift doors.</p> <p>Applies to MTH above 1/2 HP, MTBH above 1/2 HP, MGT</p>
MOD 064	<p>Trolley Hoist, #48 Chain</p> <p>Chain hoist for manual hand operation of standard lift doors equipped with trolley operators. The 1" cross header shaft (12' long) drives the front idler of the drawbar. For use with operators with #48 chain. Incorporates an electric cut-out and a brake release cable when applicable. Hand chain for 14' high door is standard. Hoist assembly width is only 8.5".</p> <p>Applies to MTH and MTBH 1/2 HP</p>
MOD 065	<p>Trolley Hoist, #41 Chain</p> <p>Chain hoist for manual hand operation of standard lift doors equipped with trolley operators. The 1" cross header shaft (12' long) drives the front idler of the drawbar. For use with operators with #41 chain. Incorporates an electric cut-out and a brake release cable when applicable. Hand chain for 14' high door is standard. Hoist assembly width is only 8.5".</p> <p>Applies to MTH above 1/2 HP, MTBH above 1/2 HP</p>
MOD 066	<p>Chain Hoist</p> <p>Chain hoist for manual operation of sectional doors. The hoist directly drives the door shaft. If door is equipped with a trolley operator the door arm must be disconnected. Incorporates an electric cut-out. Can also be used in case of center mount of jackshaft operators. Hoist assembly width is only 8.5". Hand chain for 14' high door shaft is standard.</p> <p>Applies to MTH, MTBH, MGT</p> <p>Warning: Standard lift doors must be specially adapted for use with chain hoist operation.</p>
MOD 068	<p>Pillow Block Bearings on Output Shaft (Opera™)</p> <p>For Opera™ models. The standard precision ball bearings on the operator output shaft are replaced by very heavy duty cast iron pillow block bearings. This helps extend the life of the drive system. See MOD072 for output shaft pillow block bearings on other operator models.</p> <p>Applies to Opera-J/H</p>
MOD 069	<p>Pillow Block Bearings on Input Shaft</p> <p>The standard precision ball bearings on the operator input shaft are replaced by very heavy duty cast iron pillow block bearings. This helps extend the life of the drive system.</p> <p>Applies to MTH, MTBH</p>
MOD 070	<p>Apartment Hardwired</p> <p>Special for apartment applications. Incorporates dual 4L V-belt, track and #41 drive chain for an 8' high door, timer to close. A relay is added to warranty door reversal during the complete door travel. Speed of operator is reduced to 9"/s.</p> <p>Applies to MTH, MTBH</p>
MOD 071	<p>Apartment Wired for Warning Lights</p> <p>Same as MOD070 with dual timer to close for control of warning light (sockets and warning lights are not included). Hardwired operators only.</p> <p>Applies to MTH and MTBH 115V 1 Phase</p>



Dual trolley drive



Trolley hoist

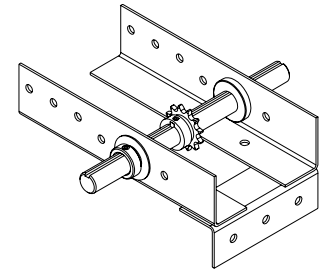


Chain hoist

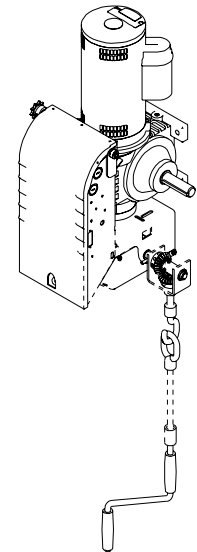
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Mechanical Modifications

Modification No.	Description
MOD 072	Pillow Block Bearings on Output Shaft Same as MOD068 but for non-Opera operator models. Applies to MTH, MTBH
MOD 073	Front Idler, Very Heavy Duty The standard front idler of the track hardware is replaced by a very heavy duty front idler with precision ball bearings. Helps extend the life of the drive system. Only with #41 chain. Applies to MTH, MTBH, MGT
MOD 074	Hand Crank For manual operation with a hand crank instead of a hand chain. Hand crank, hook and eye outlet supplied. A 5/8" rod or pipe, sufficient in a length for floor level operation, is required (not supplied). SHAFT002 should be ordered separately, and desired cut-to length specified. Applies to Opera-GH, MGH
MOD 076	Motor 208V/1Ph 60Hz See details under MOD077 below.
MOD 077	Motor 230V/3Ph 60Hz MOD076 & MOD077 convert standard 230V/1Ph or 208V/3Ph operators to 208V/1Ph or 230V/3Ph incoming power supply. Applies to Opera-J/HJ/H/SH/GH, MGH, MTH, MTBH, MGT, MSL, MGSL
MOD 090	Chain #41 Upgrade Helping to extend the lifetime of the drive system, the standard #48 chain and idler assemblies of the track hardware are replaced by heavy-duty #41 chain and idlers assemblies. Applies to MTH and MTBH, 1/3 and 1/2 HP
MOD 111	Solenoid Brake Option - Opera-J For high-speed door applications (> 8-10"/sec), a solenoid brake is added to the operator. Also available as an assembly kit (MODKIT111) for existing operator upgrades in the field. Applies to Opera-J
MOD 112	Limit Shaft Speed-Up Sprockets and chain are changed in order to accelerate the operator's limit shaft. Also available as an assembly kit (MODKIT112A) for existing MTH/MTBH operator upgrades in the field. The maximum door height for trolley units incorporating MOD112 or MODKIT112A is 28ft. Applies to Opera-MJ/MH/J/HJ/H/SH, MTH, MTBH, MTBH-APT, MTBH-APE
MOD 113	Drum Brake Option, Apartment For high cycle trolley applications. Designed to last longer in comparison to the standard band brake. The time between every brake adjustment is increased and the tension placed on the solenoid is reduced, therefore increasing its lifetime. Also available as an assembly kit (BRAKE014) for existing operator upgrades in the field. Applies to MTBH-APT, MTBH-APE



Very heavy duty
Front idler



Hand crank



Drum brake

Please consult inside sales for other modifications.

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Call: 800-361-2260