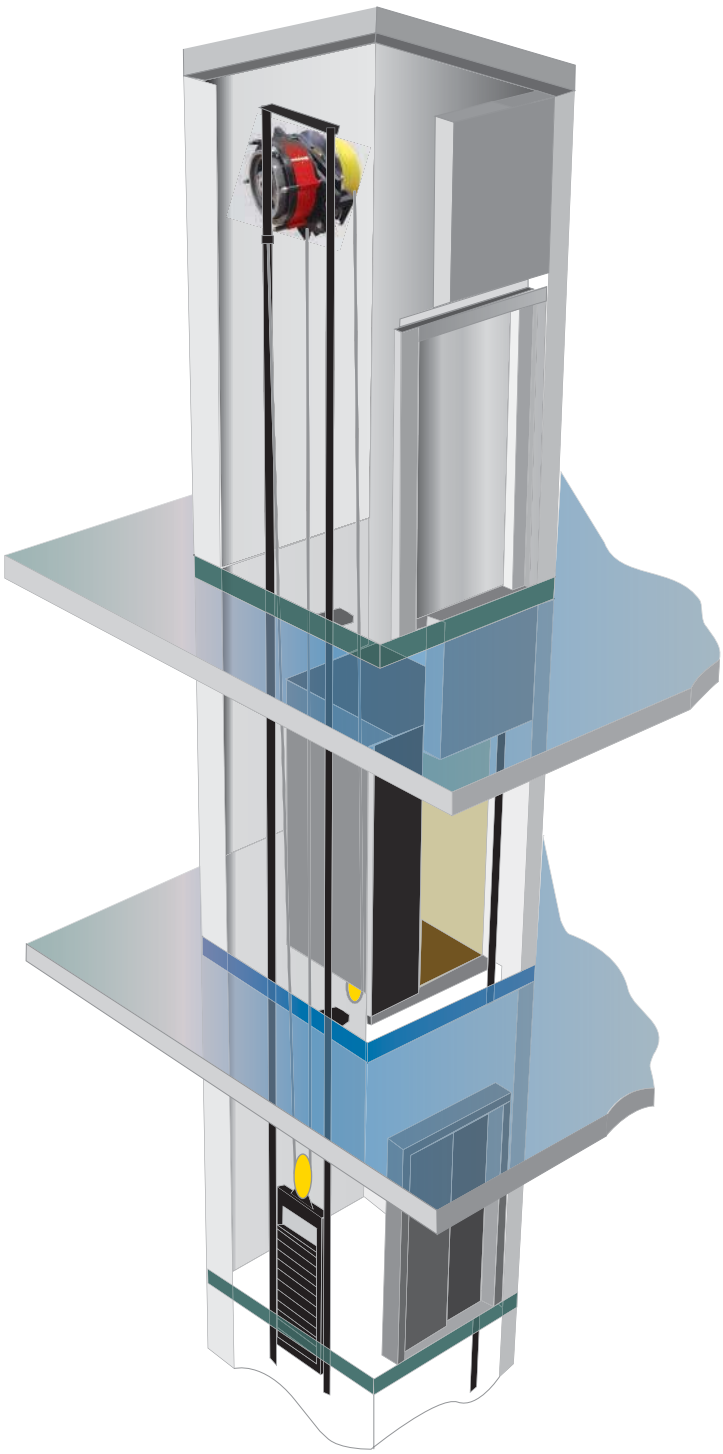
GT VisionLift MRL™
General Guide Line

Machine-Room-Less Elevator

The Next Evolution in Elevator Efficiency



ENERGY SAVINGS
- Energy Saving Up to 60% vs hydraulic
- Energy Saving Up to 25% vs traction
- Very Low Power Consumption
- High Efficiency Permanent Magnet Motor Technology

RIDE QUALITY
- Gearless Traction Elevator Performance
- Surprisingly Smooth Ride
- Quiet, Virtually Noiseless Operation

ENVIRONMENTALLY RESPONSIBLE
- Environmentally Friendly
- No Hydraulic Oil - Zero Spill Risk
- No Hot Oil Smell

BUILDING EFFICIENCY
- Recover Machine Room Space
- Flexible Layout

MRL TECHNOLOGY
- Proven Reliability
- Universally Maintainable Design
- Standard Commercial Components

APPLICATIONS / FEATURES
- Low to Mid-Rise Applications
- Upgraded Cab Standard
- 2-Year Warranty

CONTRACTOR'S PROGRAM
- Ask about joining the GT MRL Network
- Visit our web site at www.gtmrlnetwork.com

GLOBAL TARDIF

Elevator Manufacturing Group

toll-free 1-800-661-6316 • sales@globaltardif.com • www.globaltardif.com

Machine-Room-Less (MRL) technology stands to bring rapid change to the elevator industry. Times of change bring opportunity and the potential for tapping new markets, serving new customers, and discovery of more profitable methods and processes.

Since 1984, Global-Tardif has earned a top reputation as a manufacturer of field-proven, innovative products for the elevator industry. The company has grown to become one of the largest independent manufacturers of elevators in North America.

GT VisionLift™ MRL *packages are engineered to satisfy the exacting standards of the largest elevator companies in the world. Manufacturing elevator system packages for multinational OEM customers is where GT built their reputation for top quality equipment and technical expertise.*

Energy savings

The GT MRL uses PM gearless, synchronous AC machine technology. Typically a power factor of 1 is achieved, which means that 100% of the electrical energy to the machine is converted and output as mechanical energy. Highly efficient permanent magnet PM machines use rare earth magnets to generate magnetic field flux, so no external power is consumed by field windings. GT MRL power savings vs a traditional holed hydraulic elevator is over 60%. Power savings vs a traditional geared traction elevator is over 25%.

Environmentally friendly

Since the GT MRL system uses no hydraulic oil, there is zero risk of a spill causing environmental contamination, and potential cleanup liability.

Superior ride quality

The GT MRL elevator is a gearless system, widely recognized for providing the smoothest possible ride with the best overall motion control. For an investment similar to that of hydraulic elevators, ride comfort and performance are incomparable.

Reduced maintenance

Since the GT MRL system has no gearbox, mechanical aspects are simplified and maintenance all but eliminated.

Silent and odor-free

Unlike hydraulic systems utilizing pressurized hydraulic fluid, a pump reservoir, and liquid control valve, GT MRL systems are elegant in their simplicity. The MRL PM gearless machine is all but noiseless and it produces no hot hydraulic oil odor.

Reduced construction costs

The GT MRL system incorporates a small control closet which replaces the traditional machine room. Placed inside the insulated building envelope, the control system closet requires no cooling.

MRL Express™

- Passenger Elevator
- 2000 - 3500 lbs (900 - 1588 kg) Capacity
- Up to 175 feet of Travel
- 200 fpm (1 m/s) Speed
- Counterweight at Side
- Up to 8 Landings
- Front / Front & Rear Openings

MRL ECHO LE or XT™

- Passenger Elevator
- 2000 - 3500 lbs (900 - 1588 kg) Capacity
- Up to 100 feet of Travel
- 150 - 200 fpm (0.75 to 1 m/s) Speed
- Counterweight at Side
- Up to 8 Landings
- Front or Front & Rear Openings
- Hydraulic Elevator Footprint

MRL Z3™

- Passenger or Service Elevator
- Passenger : 2000 - 4000 lbs (900 - 1814 kg)
- Service : 4000 - 5000 lbs (1814 -2265kg)
- Up to 325 feet of Travel
- 200 to 500 fpm (1 to 2.5 m/s) Speed
- Counterweight at Side
- Up to 26 Landings
- Front / Front & Rear Openings

MRL Genius™

- Passenger
- 2000 - 4000 lbs (900 - 1814 kg) Capacity
- Up to 325 feet of Travel
- 200 to 500 fpm (1 to 2.5 m/s) Speed
- Counterweight at Rear
- Up to 26 Landings
- Front Opening

Superior structural and aesthetic design

Even the most basic GT MRL package includes an upgraded elevator cab and upgraded fixtures. Options to customize include panoramic elevator cabs; stone, stamped exotic metals, custom wood paneling, matched wood panels, glass wall panels, and countless other upgrades that provide a unique and prestigious identity for buildings that stand out from the ordinary.

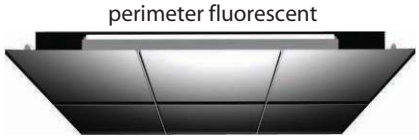
- Stainless Steel Cab Front, Doors, Reveals, Kick Bases
- Removable Plastic Laminate Wall Panels
- Attractive Standard Design
- Many Options Available

Typical Stainless Steel #4 Push Button. Incomparable Premium Line Features

Optional Features

Ceilings - Island **GT-22E** Eggcrate

Ceilings - Island **GT-PF** with perimeter fluorescent



Ceilings - Island **GT-124** downlights

Ceilings - Island **GT-22L** Lexan

Ceilings - Island **GT-23** downlights

Ceilings - Island GT33 downlights

GT150TSS4
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Cylindrical Handrail
1 ½" or 2" diameter
(38 or 50 mm)

GT142FSS4
Solid Handrail
¼" x 2"
(6 x 100 mm)

GT144FSS4
GT146FSS4
GT148FSS4
Solid Handrail
¼" x 4" - 6" - 8"
(6 x 100 - 150 - 200 mm)

GTHW26
GTHW28
GTHW210
Hardwood Handrail
2" x 6" - 8" - 10"
(50 x 150 - 200 - 255 mm)

since 1984

GLOBAL TARDIF

Elevator Manufacturing Group

GT-VisionLift MRL's - SELECTION CHART

MRL (Machine Room Less) - AC VVVF Permanent Magnet

	MRL Express ™	MRL ECHO LE or XT™	MRL Z3 ™	MRL Genius™
Cost	**$**	**$**	**$$$$**	**$$$$$**
Capacity	**2000 to 2500 lbs**	**2000 to 2500 lbs**	**2000 to 5000 lbs**	**2000 to 4000 lbs**
Speed	**150 - 200 fpm**	**150 - 200 fpm**	**200 to 500 fpm**	**200 to 500 fpm**
Configuration - Available	Passenger	Passenger	Passenger Hospital	Passenger
Building Power Supply	208 / 480 / 600	208 / 480 / 600	208 / 480 / 600	208 / 480 / 600
Max. Total Travel	**100 ft**	**100 ft**	**325 ft**	**325 ft**
Total Landings (stops)	8	8	26	26
Opening available	Front Front & Rear	Front Front & Rear	Front Front & Rear	Front
Hoistway Foot Print	Hydraulic	Hydraulic	Traction Cwt at Side	Traction Cwt at Rear
Arrangement (Design)	**Cwt at Side**	**Cwt at Side**	**Cwt at Side**	**Cwt at Rear**
Min. **Pit** ASMEA17,1-2007 CSA B44-07 — 150 fpm	5'-6"	5'-6"	-	-
200 fpm	5'-6"	5'-6"	5'-0"	5'-6"
350 fpm	-	-	5'-6"	5'-6"
500 fpm	-	-	6'-6"	6'-6"
Min. **Overhead** For 8 ft Cab — 150 fpm	15'-6"	15'-6"	-	-
200 fpm	15'-6"	15'-6"	15'-6"	15'-0"
350 fpm	-	-	16'-0"	15'-6"
500 fpm	-	-	17'-0"	16'-6"
Recommended **Overhead** For 8 ft Cab — 150 fpm	17'-0"	17'-0"	-	-
200 fpm	17'-0"	17'-0"	17'-0"	16'-6"
350 fpm	-	-	17'-6"	17'-0"
500 fpm	-	-	18'-6"	18'-0"
Machine location	Above in hoistway	Above in hoistway	Above in hoistway	Above in hoistway
Remote Control Location	Option – 100 ft	Option – 100 ft	Option – 100 ft	Option – 100 ft
Car Group	Up to 4	Up to 4	Up to 8	Up to 8

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