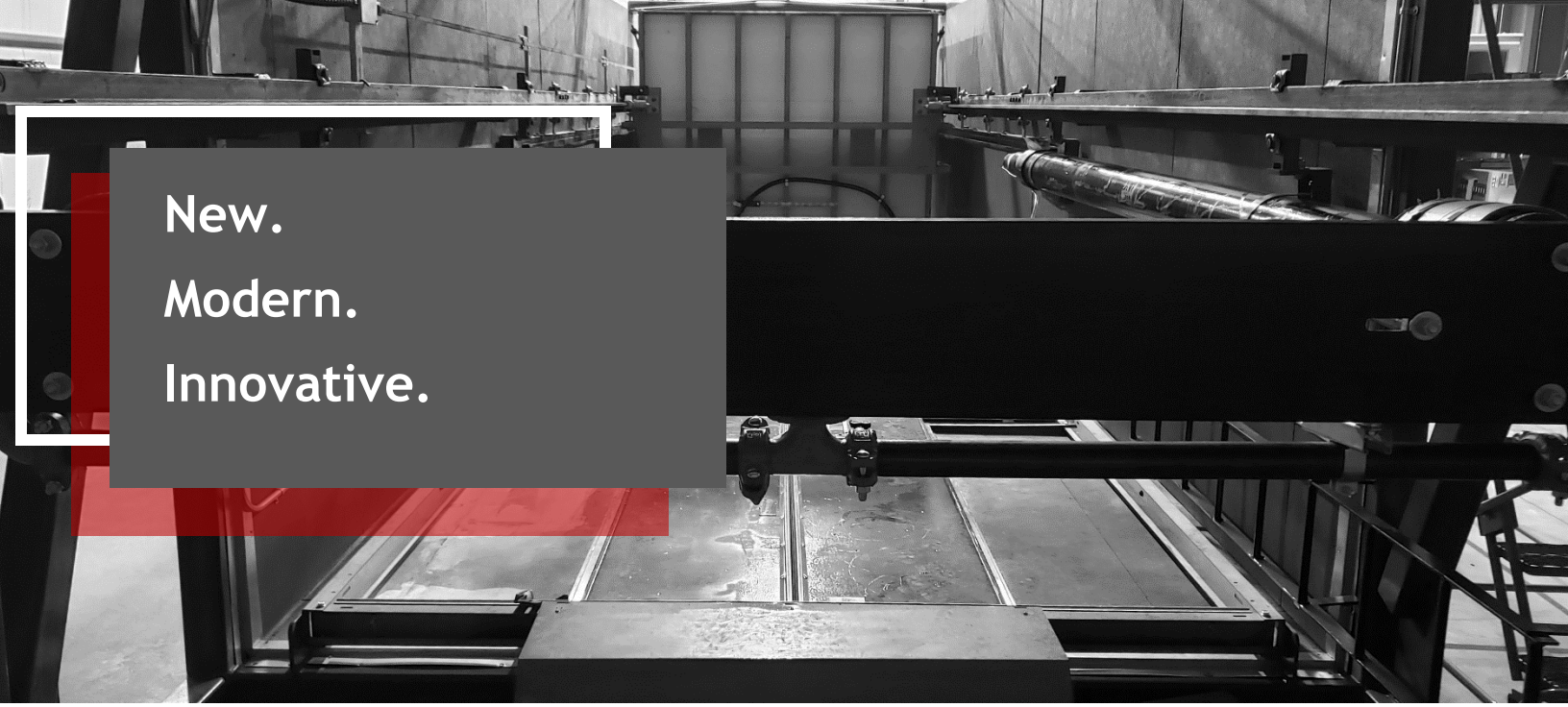
Modular Elevator Systems

resolute ELEVATOR SYSTEMS, INC.



New.

Modern.

Innovative.

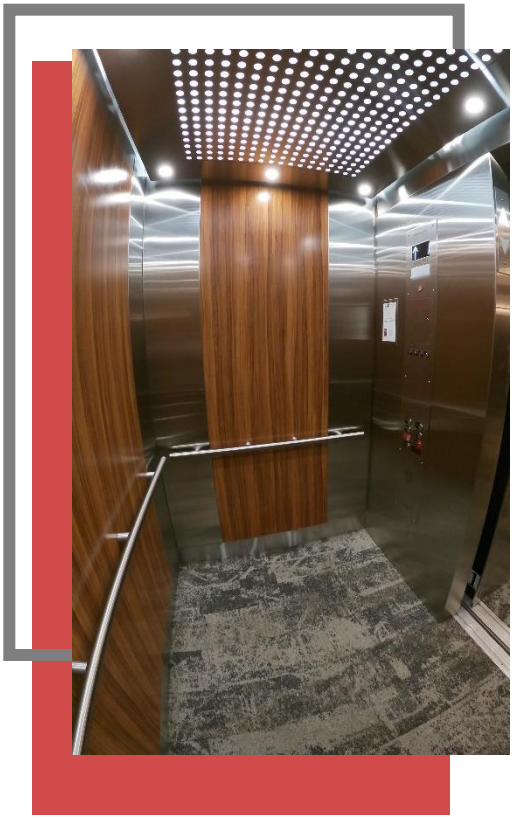
325 Million.

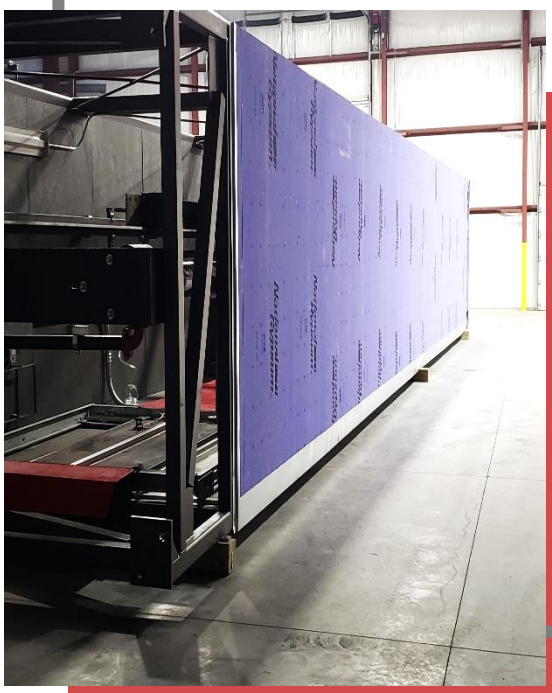
There are approximately 325 Million elevator ride per day, and the average person takes 4 of these rides per day on your elevator.

The population of North Carolina, every year since 1970, has grown faster than the nation—and projections indicate NC will add roughly a million new residents every decade for the next twenty to thirty years.

This growth is happening in all of North Carolina's cities and construction is thriving because of this growth.

To meet the population and reliability demand that this ever-changing society now faces, Resolute Elevator LLC can help. As your Leader in Elevator Innovation, Resolute Elevator LLC is changing how elevators are installed.





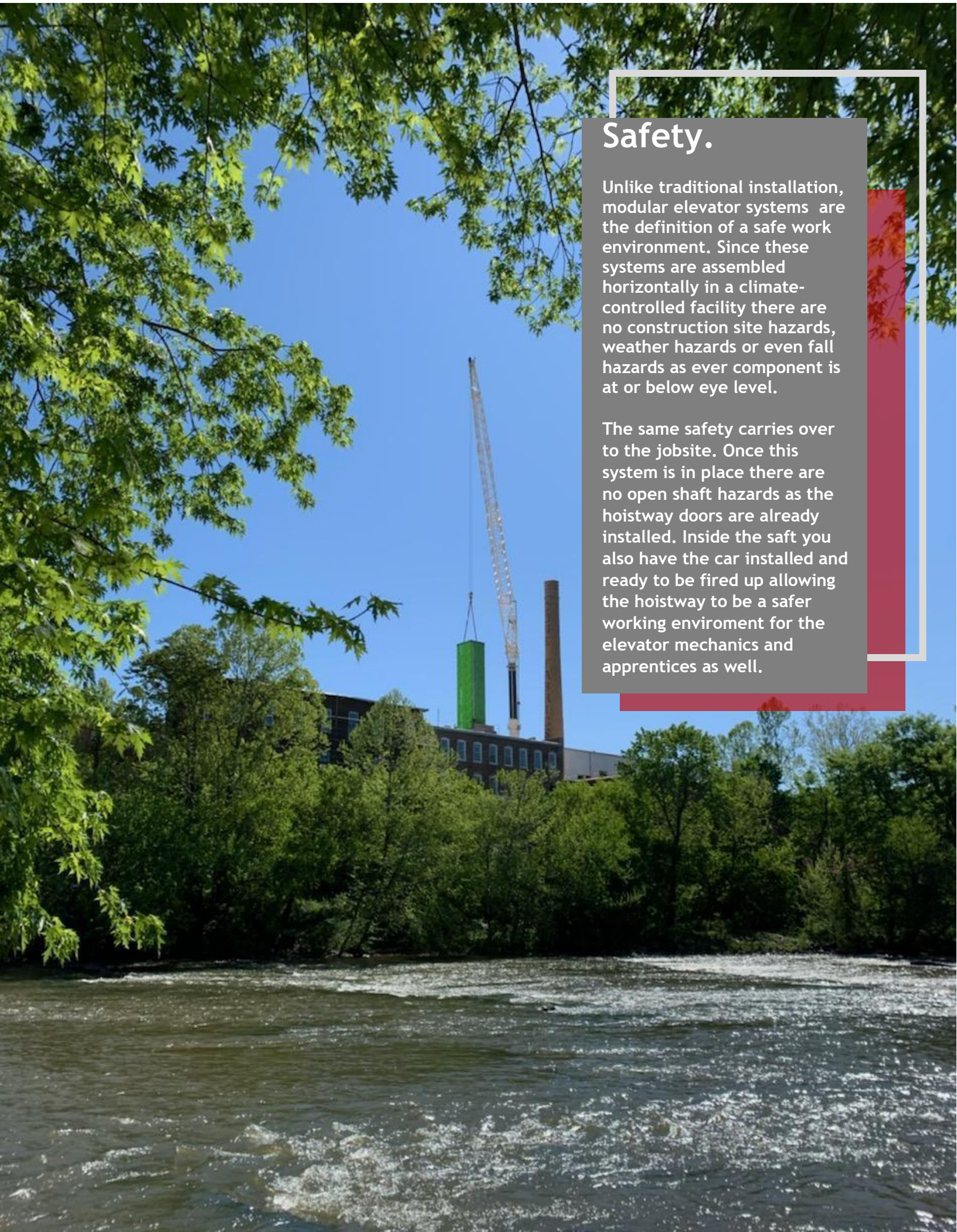
Content

Safety & Efficiency

Safety is a top concern with any elevator and many advances have occurred since the invention of the modern elevator.

The modular elevator system is leading the construction industry with it's innovative design. This system changes the construction site as soon as it arrives. Not only does the modular elevator system create a safer working environment for the elevator mechanics but also workers on site.

This complete prefabricated structure arrives to site as an all- encompassing unit with entrances, doors, fire rating, roof, sheathing, rails, cab, pit ladder, pit GFCI outlet, pit light, and all associated elevator equipment. This is truly a turnkey elevator system.



Safety.

Unlike traditional installation, modular elevator systems are the definition of a safe work environment. Since these systems are assembled horizontally in a climate-controlled facility there are no construction site hazards, weather hazards or even fall hazards as ever component is at or below eye level.

The same safety carries over to the jobsite. Once this system is in place there are no open shaft hazards as the hoistway doors are already installed. Inside the saft you also have the car installed and ready to be fired up allowing the hoistway to be a safer working enviroment for the elevator mechanics and apprentices as well.

Low-rise & High-rise

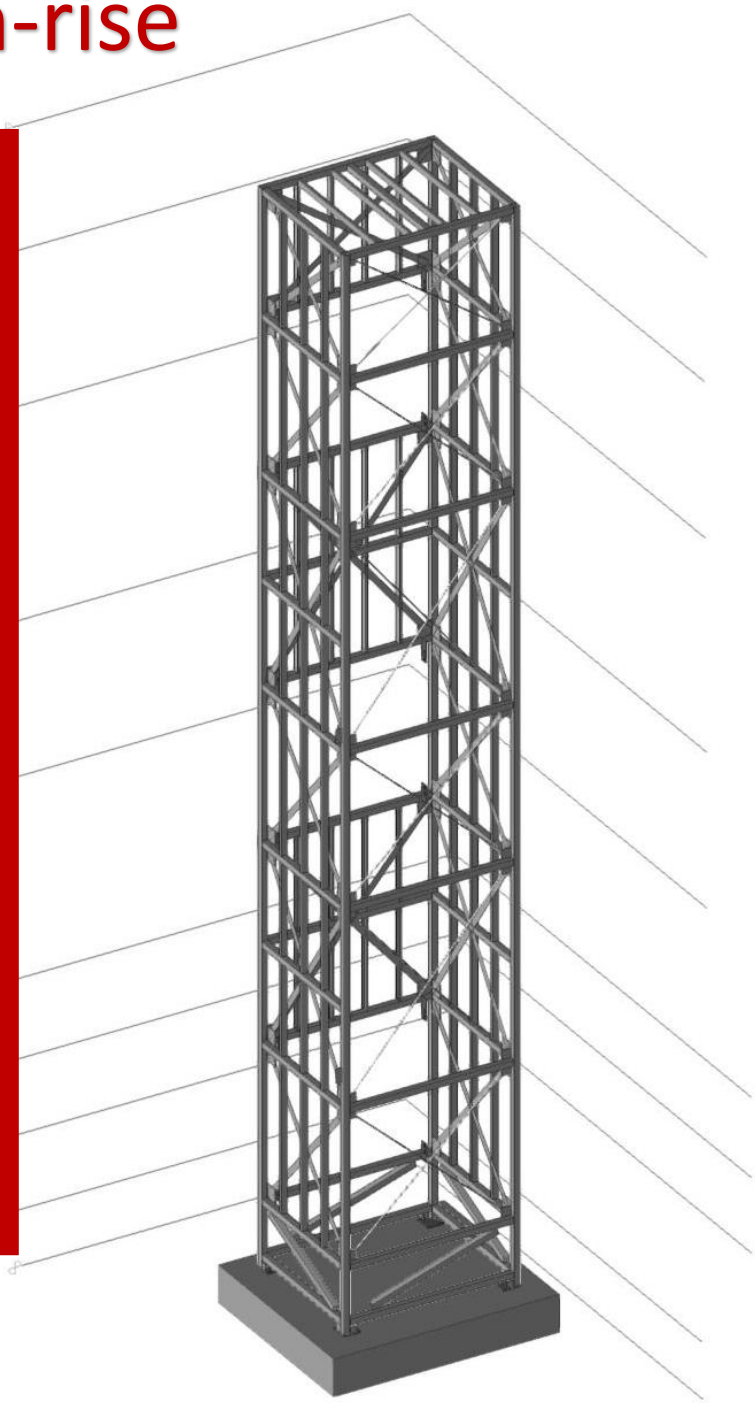
Modular Elevator Systems are offered in many applications, the two main categories are hydraulic elevators and traction elevators.

The hydraulic modular elevator systems are labeled either passenger or service use and can include a machine room-less application or can be utilized with a site-built machine room.

The traction modular elevator systems are labeled either passenger or service use and only include a machine room-less application.

All modular elevator systems are available in a variety of capacities including:

- 2100 lb
- 2500 lb
- 3500 lb
- 4500 lb



Construction Schedule.

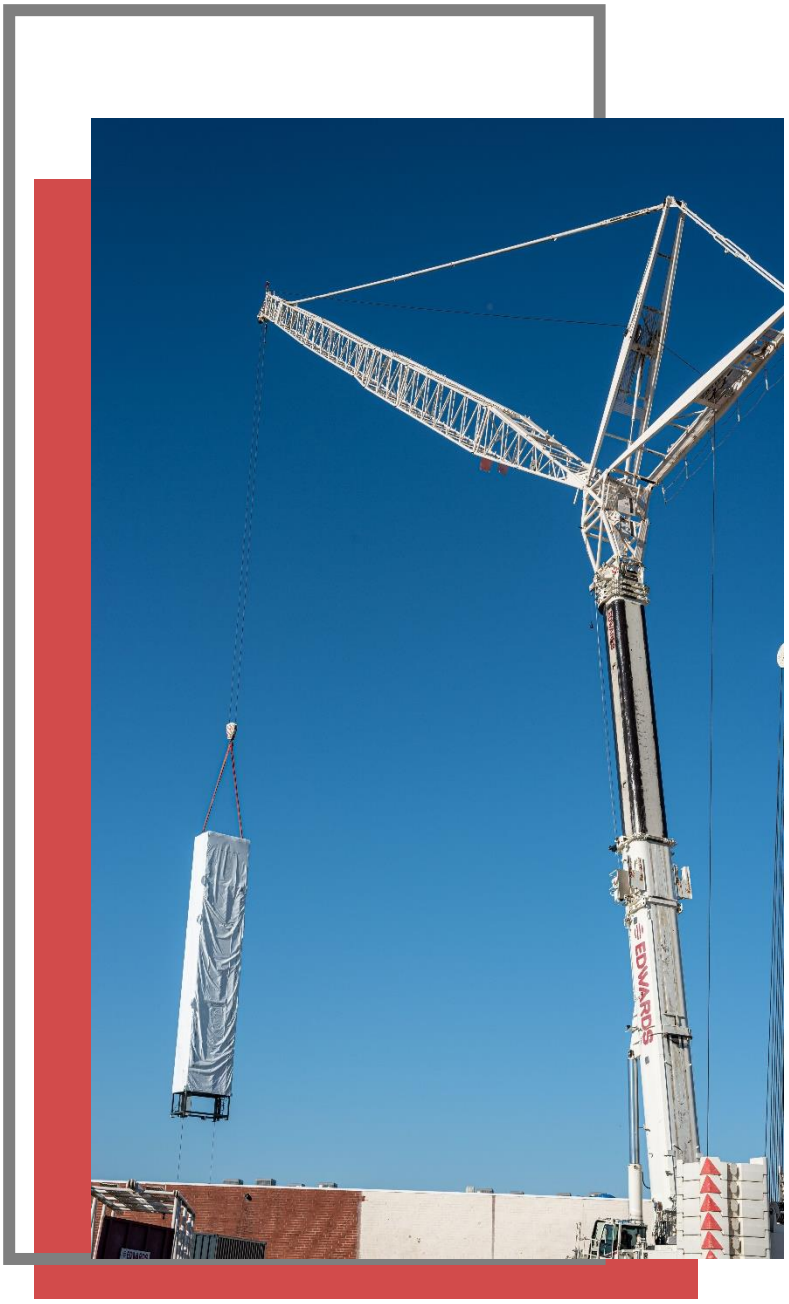
With the North Carolina population growing at astounding rates, and forecasted to continue, there is vast competition in construction schedules.

As the amount of construction grows the amount of available workforce declines. As an innovative company, Resolute Elevator LLC has seen the need for an exponential change in how elevators are constructed.

By constructing elevators in a prefabricated shaft off site and providing all associated equipment in the hoistway; Resolute Elevator LLC is able to provide a much higher quality finished product in less time, while providing a safer working environment not only for elevator mechanics but all trades on the project site as well.

The question is not if you need a modular elevator system:

It’s when.



Just like it’s CMU or wood frame counterparts a modular elevator system should be installed at the beginning of new construction so that the building can be constructed around it.

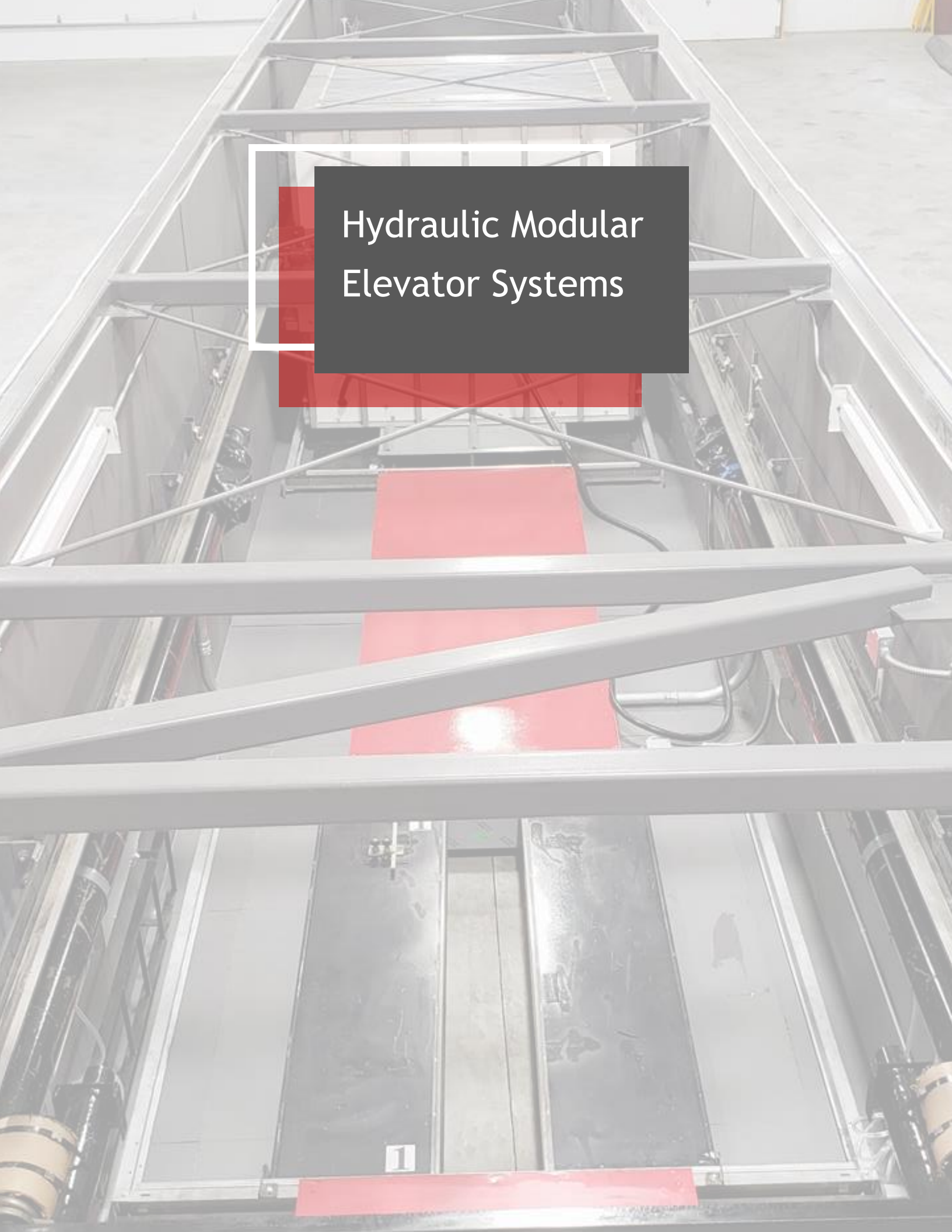
Let’s not forget about existing buildings, since the modular elevator system has the capabilities to be self supporting it can be craned into an existing building or even attached to the side of an existing structure.

A modular elevator system is the perfect choice for saving precious time on your next project as this prefabricated elevator is assembled in a climate controlled environment off site and craned into place in minutes not months and ready to fire up as soon as power is supplied.

It’s time, to change the way the industry installs elevators.

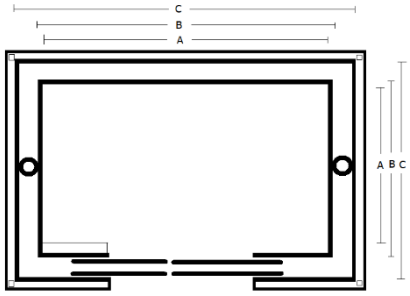
HYDRAULIC MODULAR ELEVATOR SYSTEMS

TRACTION MODULAR ELEVATOR SYSTEMS



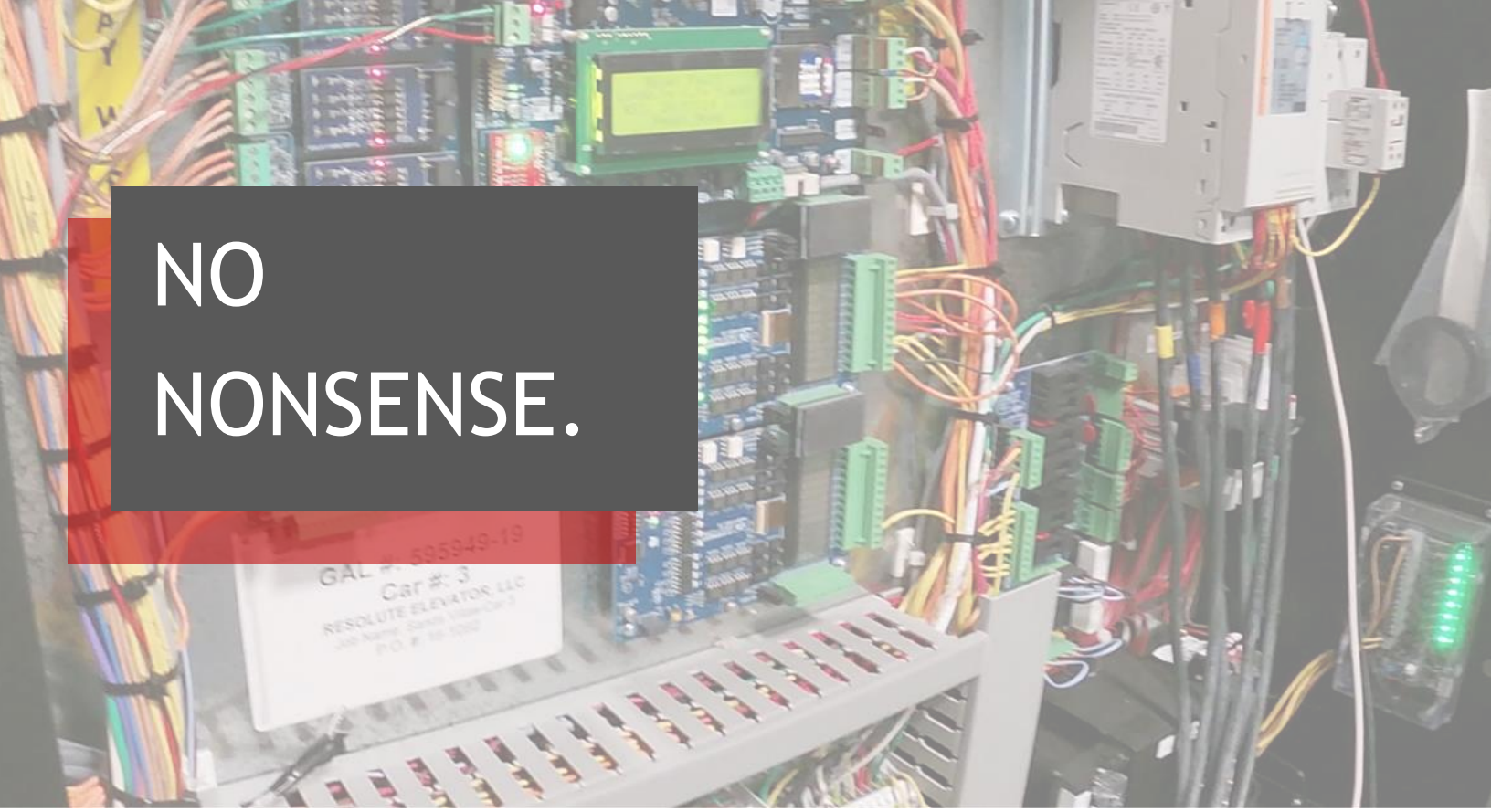
Hydraulic Modular Elevator Systems

Capacity Lbs.	*Openings F=Front R=Rear*	*Door Type & Width*	*Door Hand*	*Clear Inside W x D* A	*Platform Size W x D* B	*Interior Hoistway Size W x D* C
2100	F	Single Speed 36”	Right Hand	5’ 10 ½” x 4’ 3 ½”	6’ x 5’ 7 ¼”	7’ 10” x 6’ 7 ¾”
	F	Single Speed 36”	Left Hand	5’ 10 ½” x 4’ 3 ½”	6’ x 5’ 7 ¼”	7’ 10” x 6’ 7 ¾”
	F & R	Single Speed 36”	Right Hand	5’ 10 ½” x 4’ 3 ½”	6’ x 5’ 7 ¼”	7’ 10” x 6’ 7 ¾”
	F & R	Single Speed 36”	Left Hand	5’ 10 ½” x 4’ 3 ½”	6’ x 5’ 7 ¼”	7’ 10” x 6’ 7 ¾”
2500	F	Single Speed 42”	Right Hand	6’ 9” x 4’ 3 ¾”	7’ x 5’ 1”	8’ 10” x 5’ 9”
	F	Single Speed 42”	Left Hand	6’ 9” x 4” 3 ¾”	7’ x 5’ 1”	8’ 10” x 5’ 9”
	F	Single Speed 42”	Center	6’ 9” x 4’ 3 ¾”	7’ x 5’ 1”	8’ 10” x 5’ 9”
	F & R	Single Speed 42”	Center	6’ 10 ½” x 4’ 2 5/8”	7’ x 5’ 6 5/8”	8’ 10” x 6’ 7 1/8”
	F & R	Single Speed 42”	Right Hand	6’ 10 ½” x 4’ 2 5/8”	7’ x 5’ 6 5/8”	8’ 10” x 6’ 7 1/8”
	F & R	Single Speed 42”	Left Hand	5’ 10 ½” x 4’ 3 ½”	6’ x 5’ 6 5/8”	8’ 10” x 6’ 7 1/8”
3500	F	Single Speed 42”	Right Hand	6’ 9” x 5’ 4 ¾”	7’ x 6’ 2”	8’ 10” x 6’ 10”
	F	Single Speed 42”	Left Hand	6’ 9” x 5’ 4 ¾”	7’ x 6’ 2”	8’ 10” x 6’ 10”
	F	Single Speed 42”	Center	6’ 9” x 5’ 4 ¾”	7’ x 6’ 2”	8’ 10” x 6’ 10”
	F & R	Single Speed 42”	Center	6’ 9” x 5’ 4 ¾”	7’ x 6’ 8 ¼”	8’ 10” x 7’ 10 ¾”
	F & R	Single Speed 42”	Right Hand	6’ 9” x 5’ 4 ¾”	7’ x 6’ 8 ¼”	8’ 10” x 7’ 10 ¾”
	F & R	Single Speed 42”	Left Hand	6’ 9” x 5’ 4 ¾”	7’ x 6’ 8 ¼”	8’ 10” x 7’ 10 ¾”
4500	F	Two Speed 48”	Right Hand	5’ 9” x 7’ 10”	6’ x 8’ 9”	7’ 10” x 9’ 6 ½”
	F	Two Speed 48”	Left Hand	5’ 9” x 7’ 10”	6’ x 8’ 9”	7’ 10” x 9’ 6 ½”
	F	Two Speed 48”	Center	5’ 9” x 7’ 10”	6’ x 8’ 9”	7’ 10” x 9’ 6 ½”
	F & R	Two Speed 48”	Center	5’ 10 ½” x 7’ 10”	6’ x 9’ 5”	7’ 10” x 10’ 8 ½”
	F & R	Two Speed 48”	Right Hand	5’ 10 1/2” x 7’ 10”	6’ x 9’ 6”	7’ 10” x 10’ 8 1/2”
	F & R	Two Speed 48”	Left Hand	5’ 10 1/2” x 7’ 10”	6’ x 9’ 6”	7’ 10” x 10’ 8 1/2”



Quick Calculations:

- **Single Stage Jacks:**
  - **Up to 100 FPM:**
    Pit Depth = 4’ 0”
    Overhead = 12’ 6”
    Top Over Travel = 3.5”
    Bottom Over Travel = 5.0”
    Max Travel: 13’ 10”
    Max Overall Cab Height = 8’ 6”
  - **101 – 125 FPM:**
    Pit Depth = 4’ 0”
    Overhead = 12’ 6”
    Top Over Travel = 4.25”
    Bottom Over Travel = 7.25”
    Max Travel: 13’ 4”
- **Two Stage Jacks:**
  - **Up to 100 FPM:**
    Pit Depth = 4’ 0”
    Overhead = 12’ 6”
    Top Over Travel = 7.5”
    Bottom Over Travel = 5.5”
    Max Travel: 24’ 4”
    Max Overall Cab Height = 8’ 2”
  - **101 – 125 FPM:**
    Pit Depth = 4’ 0”
    Overhead = 12’ 6”
    Top Over Travel = 9.0”
    Bottom Over Travel = 7.0”
    Max Travel: 24’ 4”
    Max Overall Cab Height = 8’ 2”



NO NONSENSE.

A no nonsense workhorse for the industry for over 75 years. Hydraulic elevators offer safe and reliable vertical transportation for low-rise buildings. Paired with new, modern non-proprietary solid state controllers this workhorse will continue to be reliable for years to come.

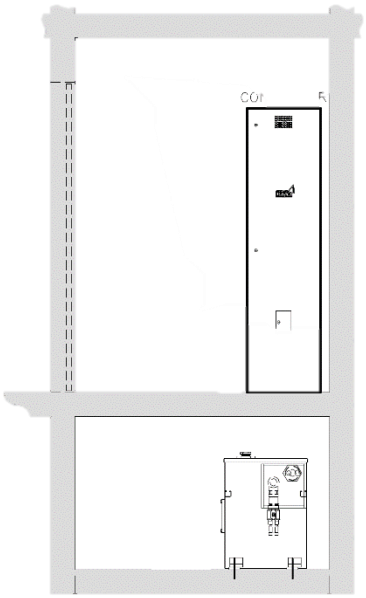
Hydraulic Elevators have stood the tests of time. They are reliable and economical, but hydraulic elevators of today are not the same as just 10 years ago. So many technological advances have been made to improve ride quality, efficiency, and user interaction.

Hydraulic Modular Elevator Systems

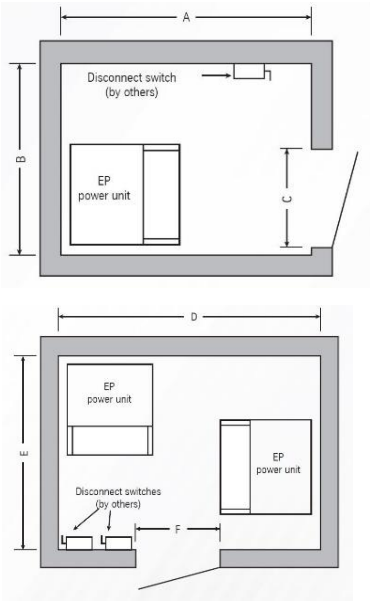
All Resolute Elevator Hydraulic Modular Elevator Systems are available with a variety of speeds capacities, travel heights, and machine room or machine room-less options. These options determine the size and horsepower of the power unit, which determines the size of the machine room or machine space.

When a machine room is required the most desirable location is on the lowest floor served, adjacent to the modular elevator hoistway. If necessary, the machine room may be located remote from the modular elevator hoistway. To determine the correct machine space or room and location for your project, consult your Resolute Elevator LLC representative.

Machine Room-Less Example:



Machine Room Examples:



TRACTION MODULAR ELEVATOR SYSTEMS

FASTER. QUIETER.

Traction Elevators are the laborers of the city high-rise buildings. Since the conception of the elevator, traction elevators have been the historical front runner of the industry. Combined with modern permanent magnet gearless machines and VVVF Regenerative Drives, this prominent commodity will continue to move patrons for years to come.

Traction Elevators have been changing the industry since the first person dreamed of vertical movement. They are consistent and speedy, but the traction elevators of today are not the same as just 10 years ago. So many technological advanced have been made to improve ride quality, efficiency, and user interaction.

Traction Modular Elevator Systems

Increased Speed & Ride Quality

- Controllers with microprocessors will learn the traffic patterns of the building and position the elevators at high demand floors during high traffic times.
- VVVF AC drives and AC hoist motors. Programable VVVF drives will allow for increased smooth acceleration and deceleration leading to faster floor to floor speeds.
- Microprocessor-based control system reduces average wait time by 50%.
- Programable drives paired with solid state controllers will allow for many different parameter changes, this allows for a smooth ride customized to the building conditions.
- Machine isolation assembly and hoist rope compensation springs will prevent vibrations of the motor and machine from translating to the car.

Elevator Reliability

- Modern sophisticated microprocessor-based controllers deliver maximum flexibility, outstanding performance, and unparalleled reliability. Controller will record faults and monitor elevator conditions in order to identify issues, therefore, preventing expensive down time.
- Closed loop solid state door operators is one of the fastest, quietest, most dependable door operators available.
- Geared machines have been the gold standard for the elevator industry for decades. Each machine is assembled and thoroughly tested before shipping.

Increased Safety

- Microprocessor-based controllers have redundant safety processors and absolute position landing systems that are accurate to $1/100^{th}$ of an inch.
- Rope grippers will prevent the elevator from leaving the floor with the doors open and over speeding in the up direction.
- Overspeed governors are built to meet both ASME A17.1 and GSA specifications. Governors are tested, preset and sealed in the factory and comes standard with overspeed switches and safety rope guard.
- Heavy duty geared traction machines are built with tapered roller bearings, disc brakes, fabricated steel base, demountable traction sheave and bronze gear, steel worm on integral shaft, and motor mounting pads.


USG
DANGER

Powder Coating

PROUDLY FINISHED WITH
SHERWIN-WILLIAMS.

RAL 9003 Signal White RWS3-00002	RAL 9002 Gray White RWS3-60002	RAL 7044 Silk Gray RAS3-00027	RAL 7038 Agate Gray RAS3-00010	RAL 7045 Telegray RAS3-00024
RAL 5024 Pastel Blue RLS3-60003	RAL 5002 Ultramarine Blue RLS3-20001	RAL 5003 Sapphire Blue RLS3-20003	RAL 5013 Cobalt Blue RLS3-20011	RAL 7011 Iron Gray RAS3-00018
RAL 1015 Light Ivory RHS4-00001	RAL 1019 Beige Gray RHS3-00005	RAL 7006 Gray Beige RHS3-00006	RAL 8014 Sepia Brown RNS3-00002	RAL 8019 Gray Brown RNS3-00004
RAL 3003 Ruby Red RRS3-00003	RAL 3005 Wine Red RRS3-60002	RAL 6005 Moss Green RGS3-80002	RAL 6009 Fir Green RGS3-00025	RAL 9005 Jet Black RBS3-60004

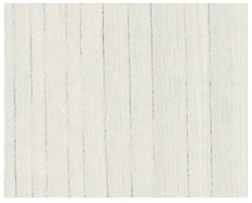
Plastic Laminate

949
White

6696
Carrara Bianco

9285
White Twill

9310
White Marble Herringbone

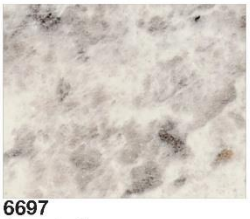


8841
White Ash

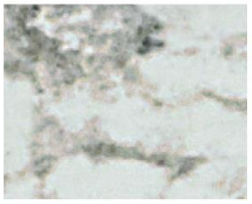
8826
Neutral Twill

912
Oyster Gray

927
Folkstone



6697
Argento Romano



9476
White Ice Granite

9306
White Bardiglio

7406
Mamara Beige

9497
Silver Quartzite

7732
Butterum Granite

8844
Aged Ash

5883
Pecan Woodline

8845
Bleached Legno

7747
Pencil Wood

756
Natural Maple

86992
Hard Rock Maple

5884
Chestnut Woodline

8842
Weathered Ash

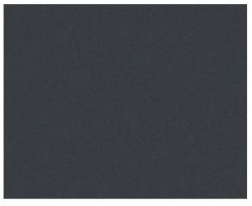
9524
Umbra Oak

8906
Danish Maple

7012
Amber Maple

8847
Jerroh Legno

961
Fog



837
Graphite

8848
Blackened Legno

909
Black

Cab Accessories

Standard
Handrail: Flat
Finish: #4 Stainless Steel

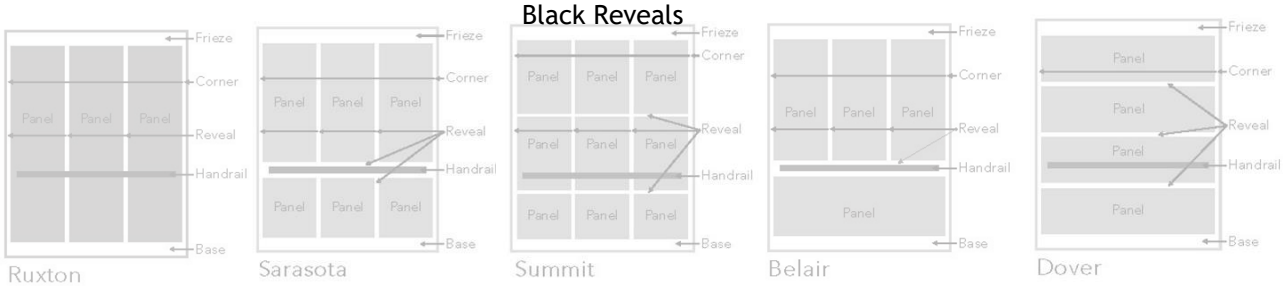
Standard
Ceiling: Luminous
Frame Finish: #4 Stainless Steel

Standard
Handrail: Round
Finish: #4 Stainless Steel

***Upgrade Option**
Ceiling: LED Downlight
Finish: #4 Stainless Steel

Standard
Walls: Flat Plastic Laminate

***Upgrade Option**
Walls: Raised Plastic Laminate with Black Reveals



Leading The Way In Innovation

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