HARDING
AUTOPARK SYSTEMS

SPEC SHEET

TRI-LIFT
QUAD-LIFT

4-Post Integrated
Parking Lift

Tri-Lift
Quad-Lift

Harding Autopark Systems' multi-vehicle stacking systems are a 4-post integrated parking lift designed for rugged indoor or outdoor operation. Each system may be configured as a stand-alone lift or combined into rows of lifts, with each pair of machines sharing a common set of posts. Each parking level of the lift is an all-steel *galvanized* platform that will accommodate vehicles weighing up to 6000 pounds with overall heights of approximately 75". Each vehicle platform is raised and lowered by a series of cables attached to the four corners of each platform. A hydraulic cylinder on each machine controls the raising and lowering of the platforms. Lifts are operated by a trained attendant who must be present at the control switch of each lift during operation. Lifts are equipped with steel locking mechanisms that provide safety to both vehicles and personnel.

Hydraulic Power System: Lifts are powered by an integrated power pack that consists of an electrical control panel, hydraulic pump motor, and hydraulic fluid tank. Power packs are sized to the specific application. Each power pack can operate up to 20 lifts depending on configuration, layout, and other technical factors. Power pack units each require their own dedicated 220V, 40 amp, 3-phase power circuit. Fluid tanks are equipped with electric heaters.

Applications: Tri-Lifts are ideal for applications that require high density vehicle parking and storage. These lifts are employed all over the world in applications that include commercial parking, retail auto dealerships, classic car storage, residential parking, office parking, rental car agencies, and auto repair/service.

- Commercial parking
- Vehicle storage
- Auto retail and service
- Residential—multi family
- High security environments
- Rental car agencies
- Fabricated in the USA
- All US hydraulic components

- Hot dipped galvanized vehicle platforms standard
- Seismic Zone 4 approved
- Two-position fail-safe locking mechanism
- Custom enamel finishes for columns and beams

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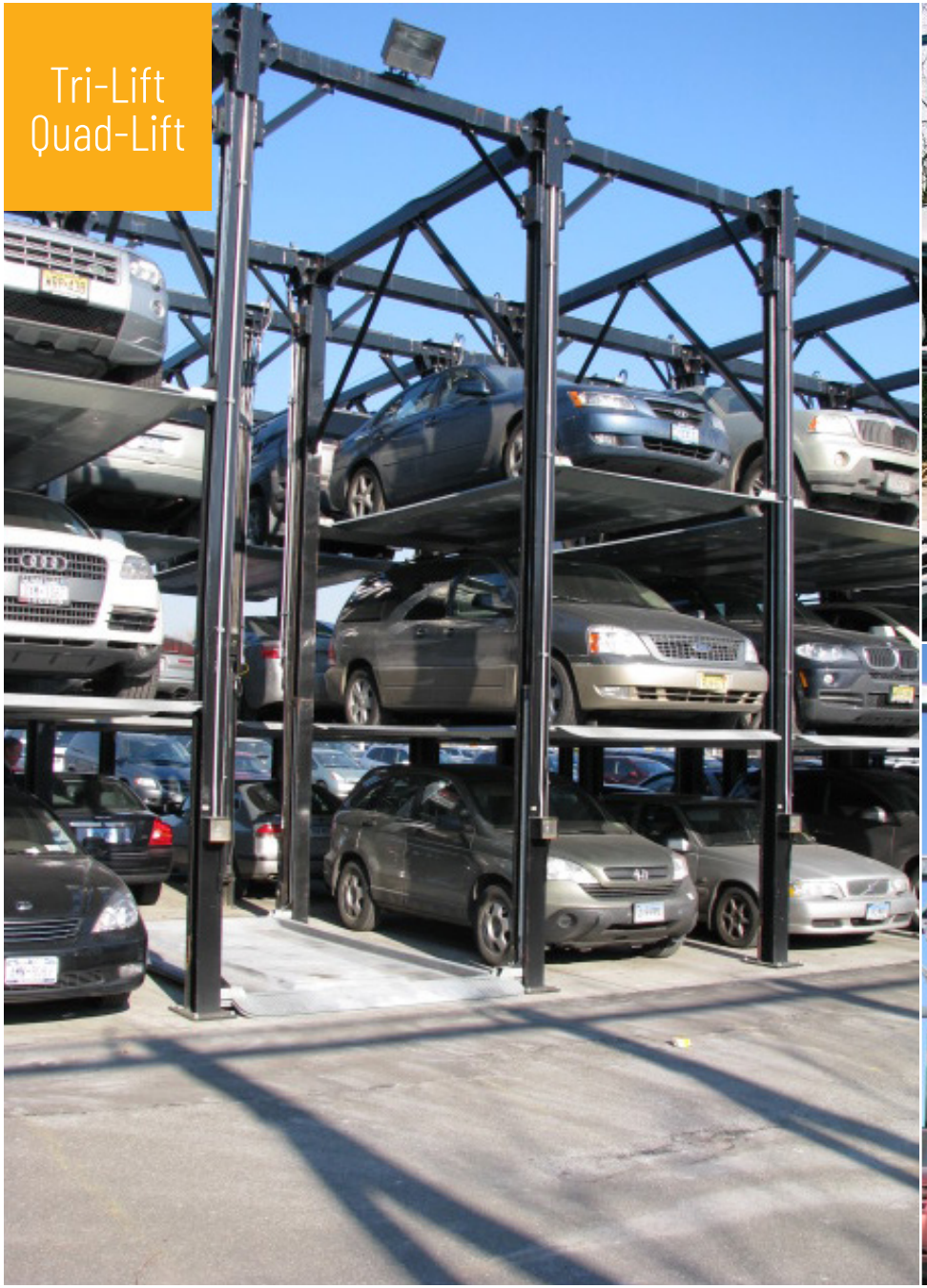
Tri-Lift
Quad-Lift



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Toggle switches or push button/key locks are available.

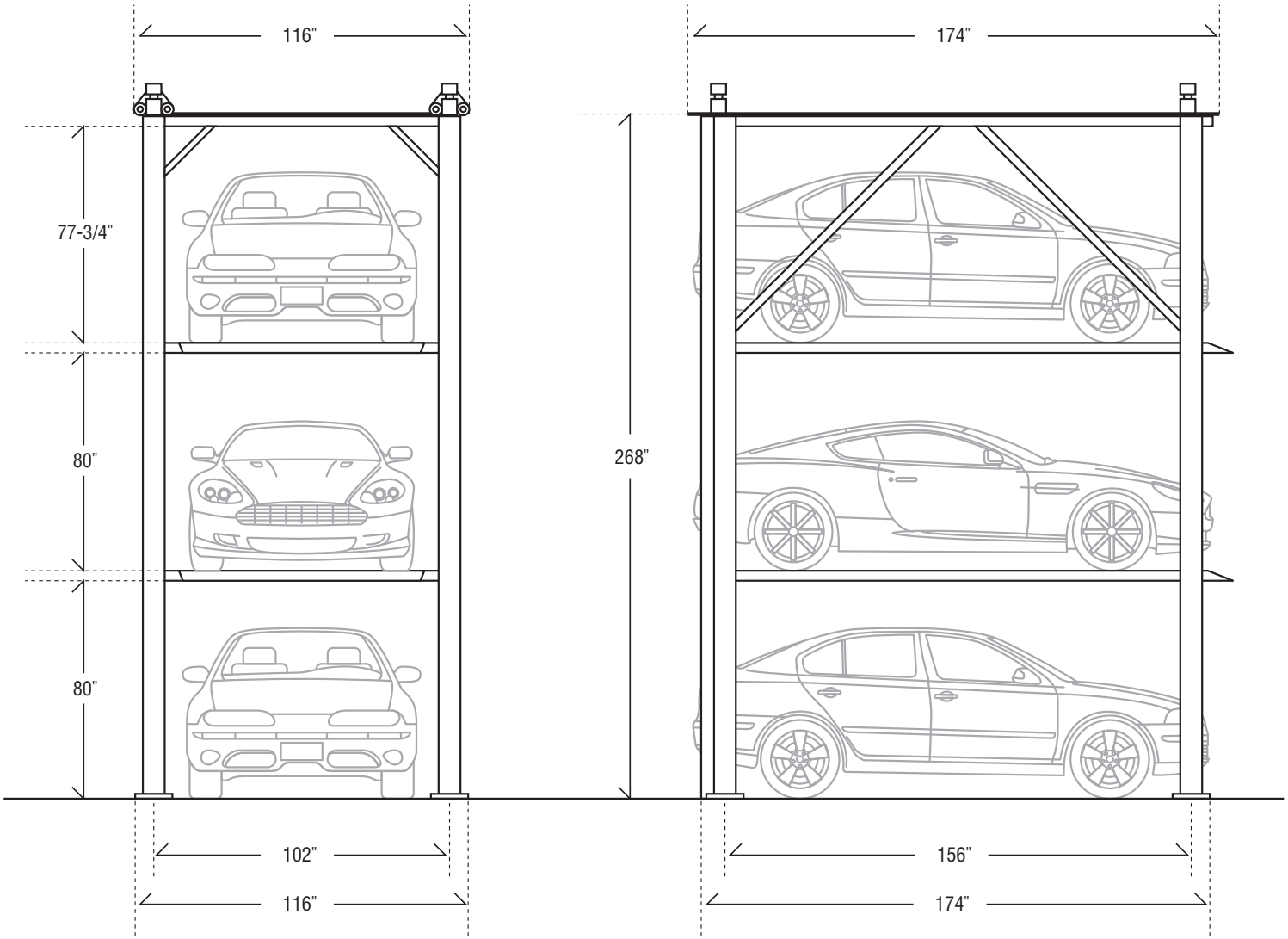

FIG. 1

Heights of overall machine and individual stall heights may be customized by application.

Triple high units are now available in a 8' 6" wide model

Tri-Lift
Quad-Lift

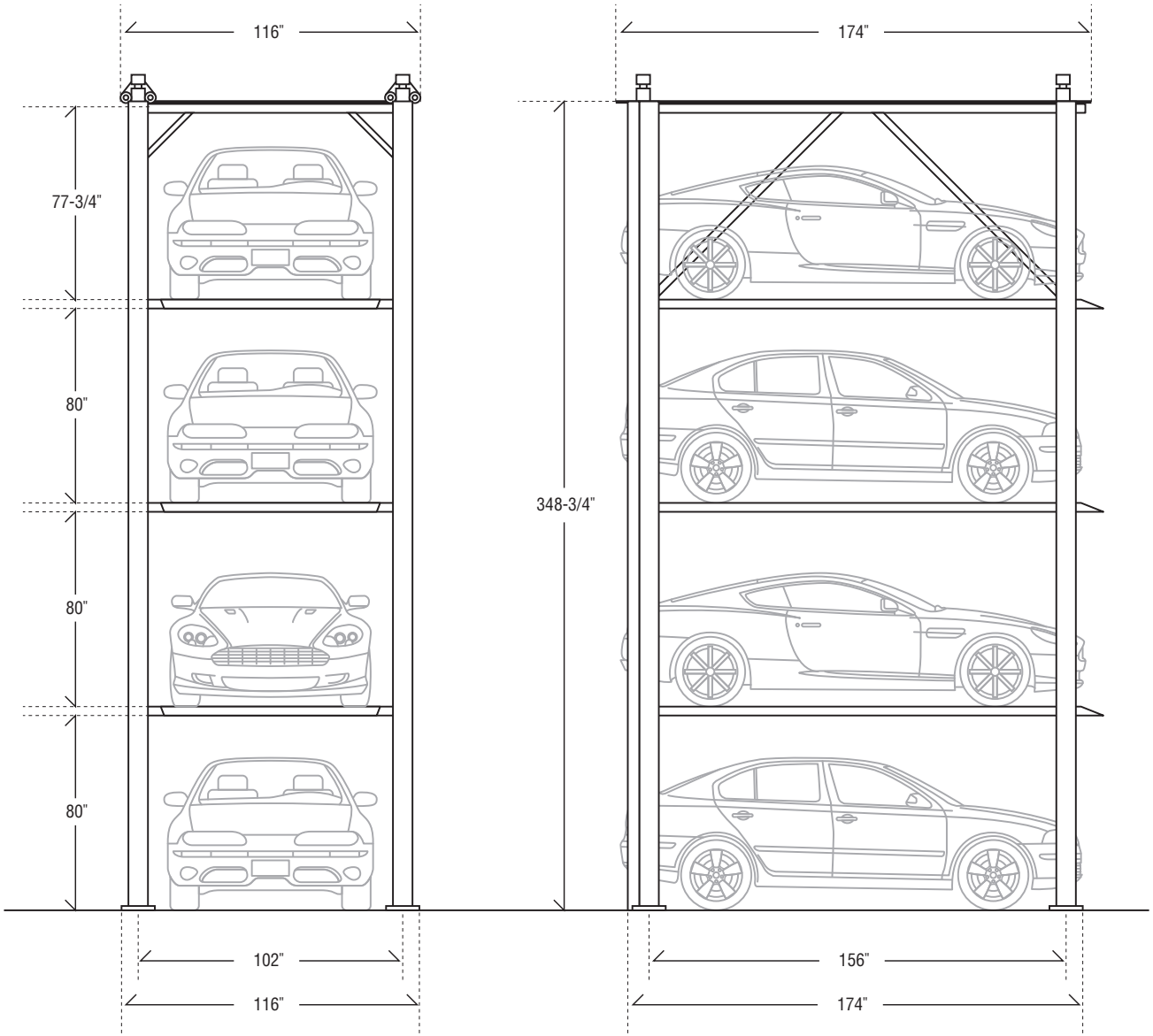

FIG. 2

Heights of overall machine and individual stall heights may be customized by application.

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TRI-LIFT and QUAD-LIFT SYSTEMS (STANDARD) FOOTPRINT DIMENSIONS
(8" PRODUCT)

TRI-LIFT and QUAD-LIFT SYSTEMS (WIDE) FOOTPRINT DIMENSIONS
(8"6" FOOT PRODUCT)

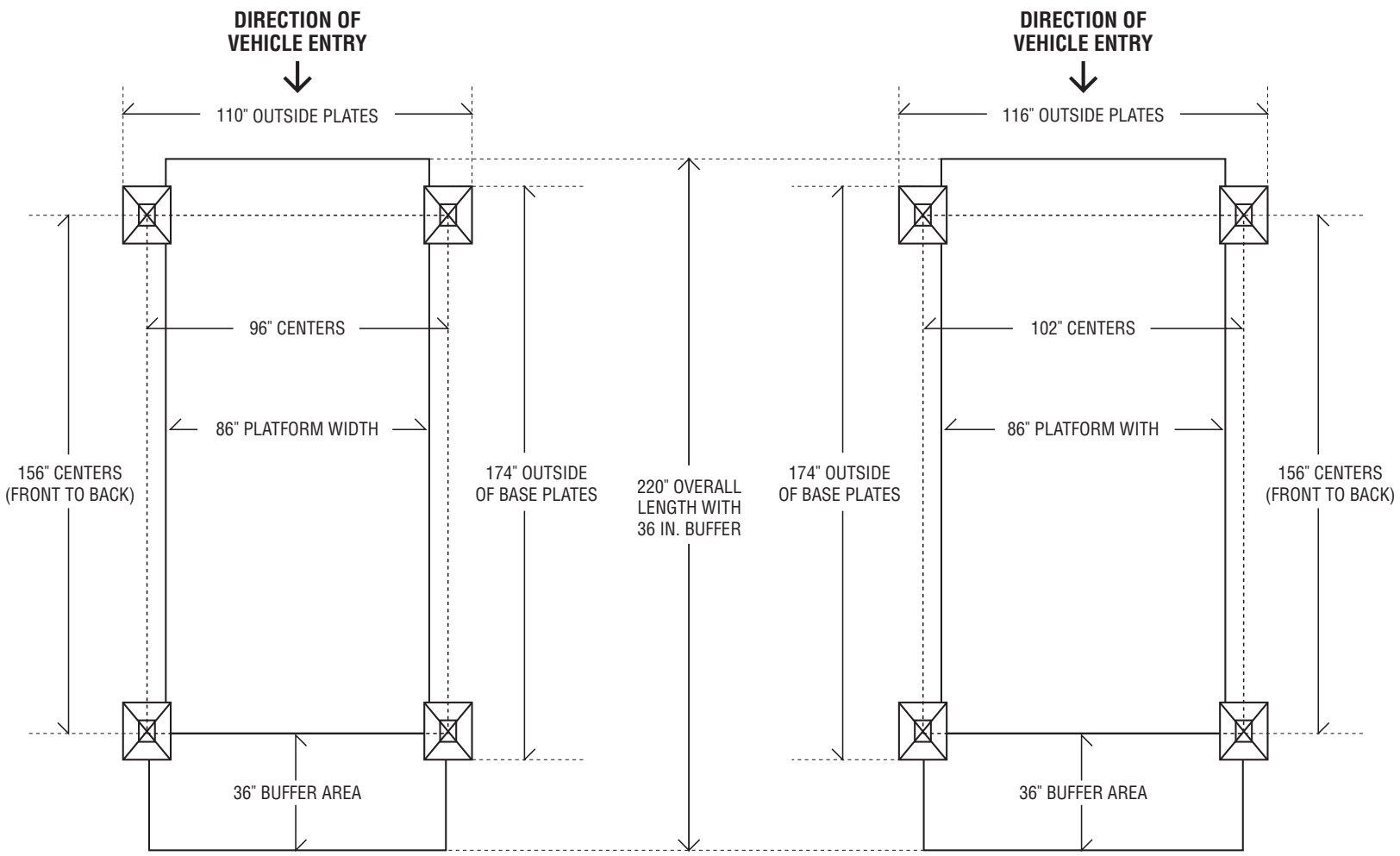

FIG. 3

Triple high units are also available in a 8' 6" wide model (102" centers).

Tri-Lift
Quad-Lift

Typical configuration. End leg is required to complete a row of lifts.

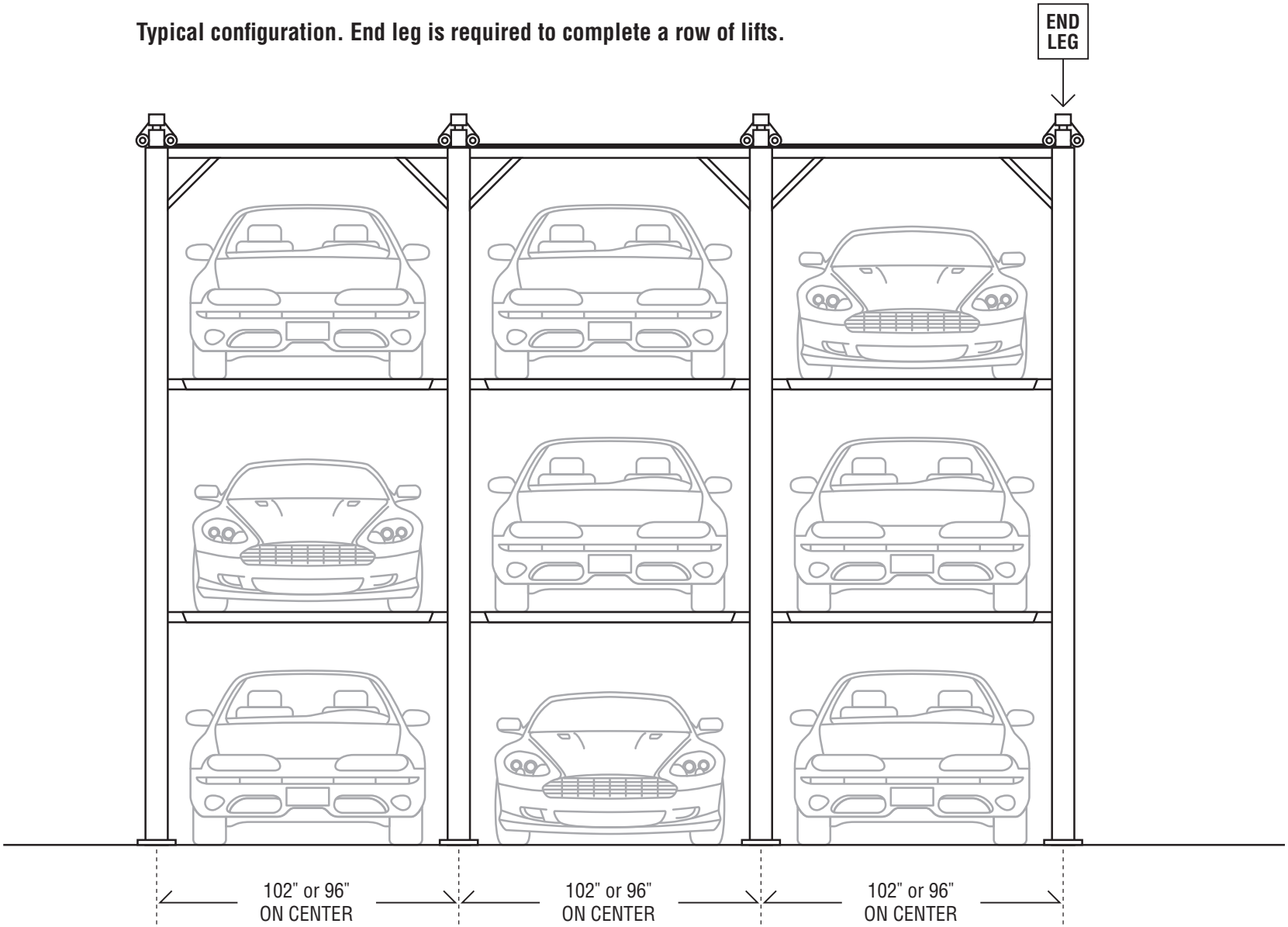

FIG. 4

Tri-Lift
Quad-Lift

CAPACITY

The maximum lifting capacity is twelve thousand pounds for the Tri-Lift and 18,000 pounds for the Quad-Lift. Platforms are rated at six thousand (6,000) pounds each.

SITE REQUIREMENTS

- Lifts can be installed as single units, or in rows, sharing common posts between units.
- Surface must be level to within 2 inches per 8 feet (side-to-side or front-to-back).
- Surface under lifts should be standard commercial grade, 3000 psi reinforced concrete at least 6" in depth. Footer details available on request
- Pier footers may be constructed in lieu of full concrete pads (see manufacturer for specifications)
- Lifts will be firmly bolted to concrete pad or footers
- Drainage should be such that standing water is eliminated under lift platforms
- Turning radius in front of machines no less than 19' (20'- 22' recommended).

CLEARANCES

- Clear ceiling height: 22' 6" minimum for standard height Tri-Lift, 29'6" for standard height Quad-Lift. Custom heights are available for all model lifts.
- Distance at rear of lifts to nearest wall or obstruction: 36"
- Distance between two rows of lifts in tandem configurations: 60-72".

POWER REQUIREMENTS

- 220V, 40 amp, 3-phase for each hydraulic power pack unit
- Each power pack unit operates up to 20 lifts depending on configuration and layout
- Individual lifts are operated by 24 VDC (low voltage)

LOADINGS

There are no uplifting loads on the structure. All loading is downward and the center of gravity is located within the lift structure. Base Plate loading is below AISC allowable standards. When operated at full capacity as a stand-alone unit, the base plate loading is 17 psi (4284 lbs on base plate). When operated as a double unit in a row, the base plate loading is 26 psi (6552 lbs on base plate).

WARRANTY

One year electrical, two year mechanical, five year structural

SAFETY

- Key-operated control switch for security and safety
- Hydraulic velocity fuses on all cylinders
- Automatic shut-off if operator releases the key-switch
- Structure certified for seismic and wind loads
- Integrated anti-fall safety system
- Manually operated lock releases
- All platforms configured with wheel stops and centering guides