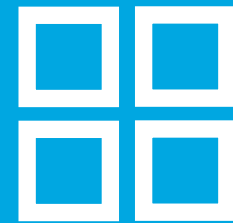


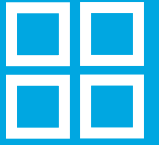
citylift

PUZZLE



SPECIFICATION SHEET

PUZZLE

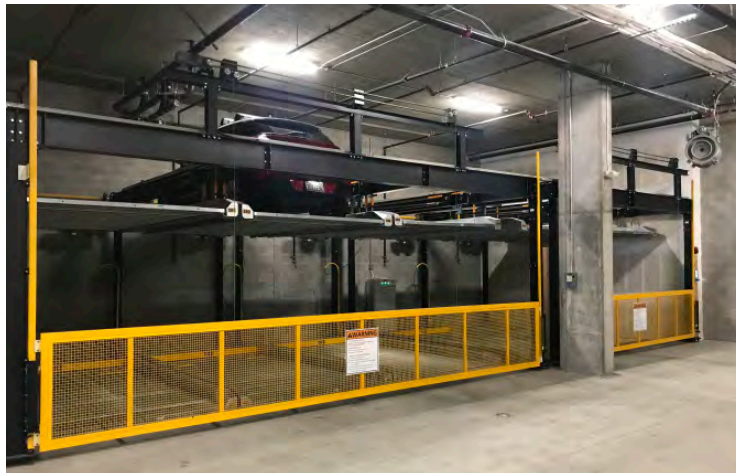


33 SECONDS
AVERAGE RETRIEVAL TIME

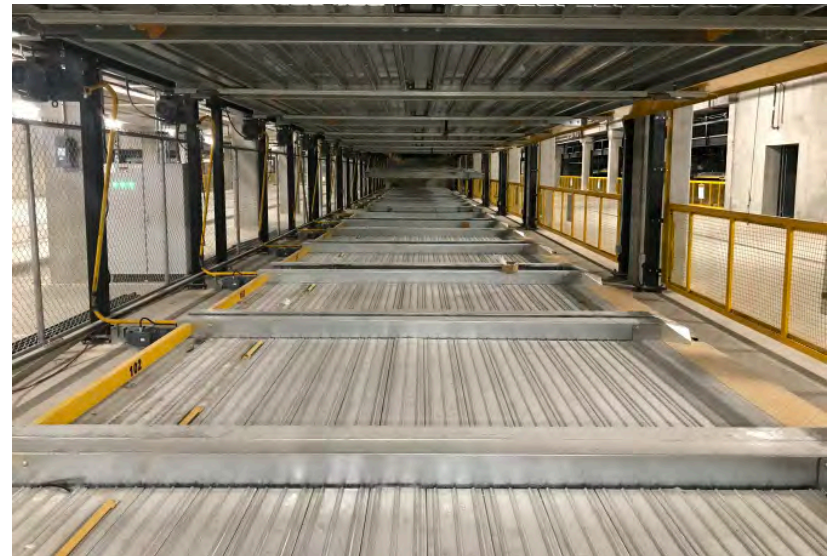
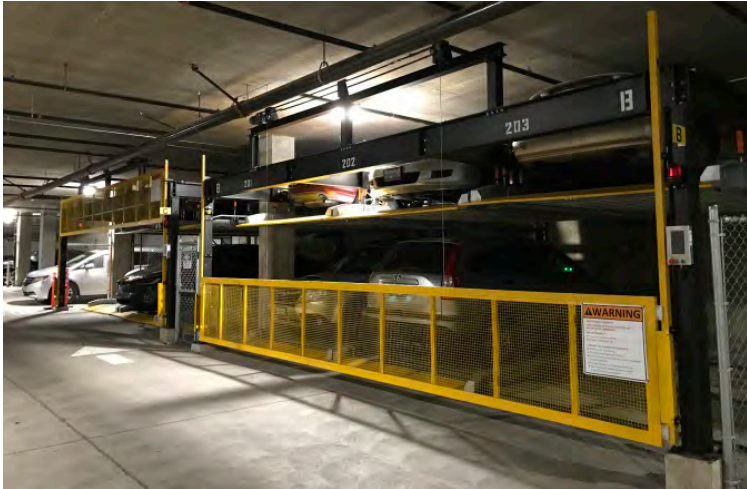
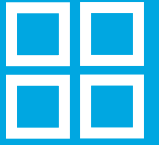
UP TO 7 LEVELS
2 - 7 LEVEL CONFIGURATIONS

40,000
SPACES INSTALLED

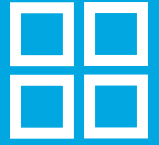
Our most popular and versatile mechanical parking solution is the Puzzle. It comes in 2, 3, 4, 5, 6, and 7-level configurations; with or without pits and is ideal for new construction or retrofits. This mechanical parking lift also works in a tandem configuration without impacting retrieval time. They are widely used in residential, mixed use, and public garages in impacted urban areas. Replacing traditional stackers with the Puzzle can drastically reduce valet costs since each space is independently accessed. The Puzzle can be used indoors or outdoors and requires a minimum clear height of 11' 7 3/4" beginning with the 2 level system.



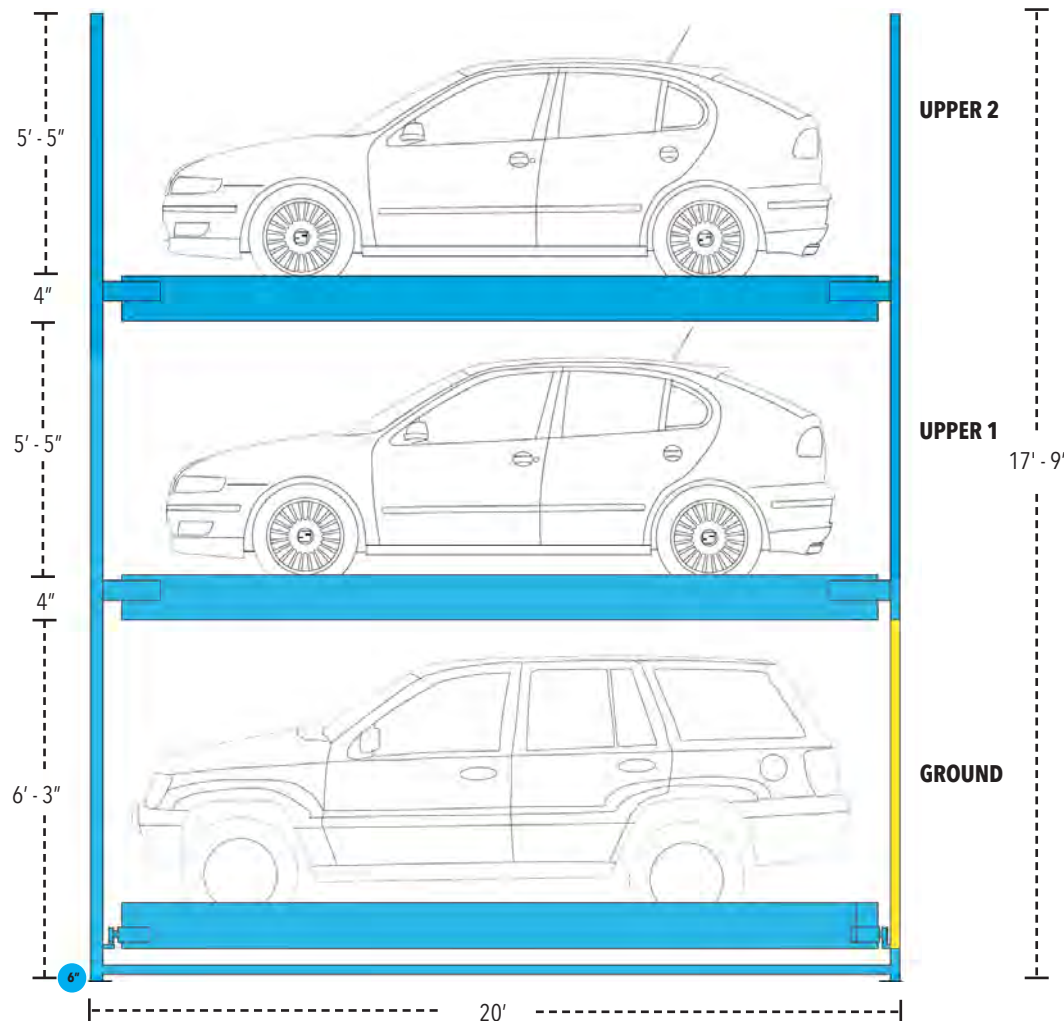
PUZZLE



THREE-LEVEL AND UP



MODEL NO 3LP, 4LP, 5LP, 6LP, 7LP



CAR SIZES

	LENGTH	WIDTH
UPPER 2	17' - 0 ^{3/4} "	6' - 10"
UPPER 1	17' - 0 ^{3/4} "	6' - 6 ^{3/4} "
GROUND	17' - 0 ^{3/4} "	6' - 6 ^{3/4} "

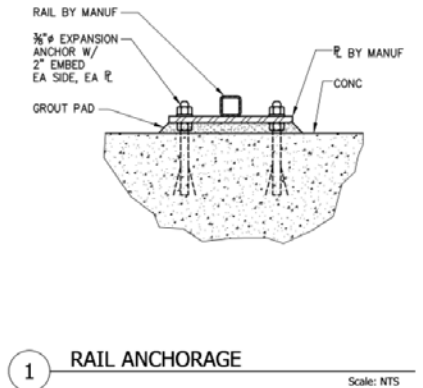
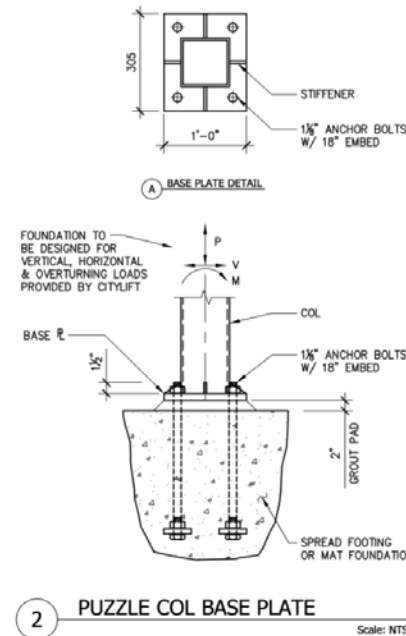
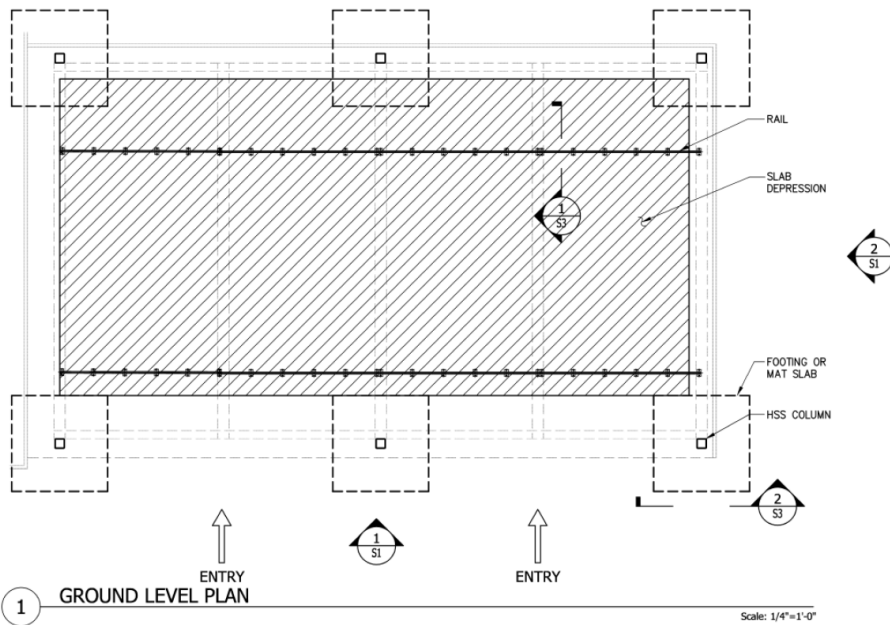
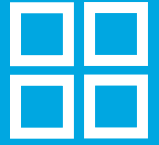
HEIGHT OPTIONS

	MINIMUM	RECOMMENDED
UPPER 2	5' - 5"	6' - 5"
UPPER 1	5' - 5"	6' - 5"
GROUND	6' - 3"	7' - 0"

NOTES:

- Recommended car sizes are listed above
- Additional sizes can be customized. See *Car Sizes* page.
- Each dimension has a tolerance of: 6" for length, 6" for width, and 3" for height
- Recommend 4" depressed slab if doing ground level installation for flat driving onto platform
- Usable space dimensions will not change for flat pallets
- Bumper bar needs to be able to be moved. Pre-drilled holes as one solution
- 6" needed from rear column to wall face

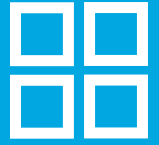
THREE-LEVEL AND UP



NOTES:

- Dimensions will vary depending on size of platform and design of structure

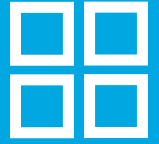
TECHNICAL SPECS



Average Retrieval Time	Ranges from 30-90 seconds depending on system
Maximum Vehicle Weight	5,200 pounds (6,000 pounds optional)
Electrical Requirement	480 3-Phase or 208 3-Phase
Lifting Motor	4.0kW-4P or 2.2 kW-4P (<i>5.5kW for +5 Systems</i>)
Traverse Motor	0.37 kW-4P
Control Method	PLC control
Circuit Breaker	ABB S204-C40
Operation Method	Button type or touch panel control
Emergency Stop Switch	XB2-BS542C
Optoelectronic Switch	LA31/K31/25/31/115
Remote Monitoring	Primitive Logic / AMI
Drive System/Motor	SEW-Germany
PLC/Sensor	Rockwell
Applicable Code	CA Building Code, 2016 edition
Seismic Loads	Ch.15 ASCE 7-10: Steel ordinary moment frame
Machine Bolts	Min tensile strength = 900 MP
Anchor Bolts/Rods	ASTM F1554, GR.55
Welding Electrodes	480 MP (E-70 KSI) MIN



CAR SIZES



LARGE		MEDIUM		SMALL	
LENGTH	WIDTH	LENGTH	WIDTH	LENGTH	WIDTH
17' - 0 ³ / ₄ "	6' - 10"	16' - 5"	6' - 10"	15' - 9"	6' - 10"
17' - 0 ³ / ₄ "	6' - 6 ³ / ₄ "	16' - 5"	6' - 6 ³ / ₄ "	15' - 9"	6' - 6 ³ / ₄ "
NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	15' - 9"	6' - 4 ³ / ₄ "

NOTES:

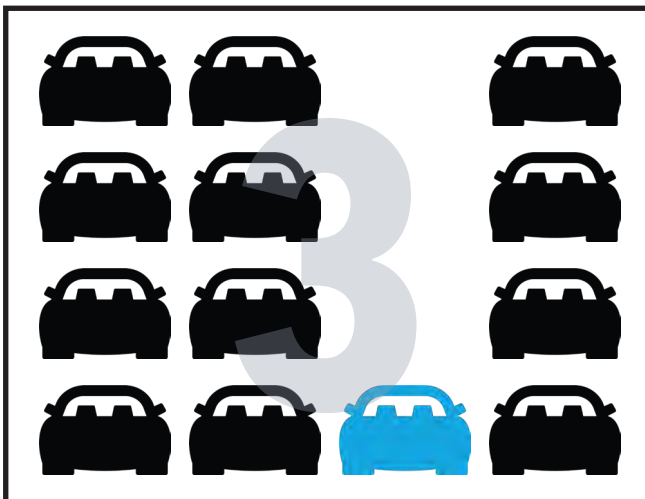
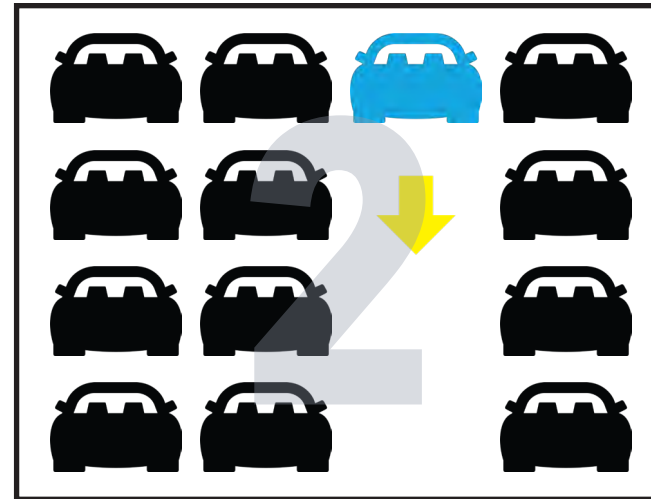
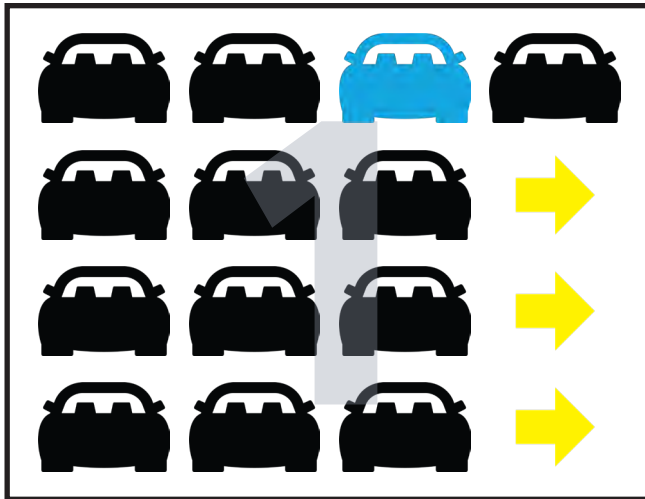
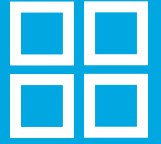
- Recommended car sizes are listed above
- Additional sizes can be customized
- Each dimension has a tolerance of:
6" for length, 6" for width, and 3" for height
- Recommend 4" depressed slab if doing ground level installation for flat driving onto platform
- Usable space dimensions will not change for flat pallets

SAMPLE CAR LIST

LARGE			
BMW 5-Series	Audi Q5	Tesla Model S	Volvo XC60
MEDIUM			
Audi A6	BMW X5	Dodge Durango	Jeep Grand Cherokee
SMALL			
Acura ILX	BMW 3-Series	Honda Civic	Lexus IS

Note: Standard load is 5,200 lbs per vehicle. Heavier loads available. Individual cars should be measured for size fit. Above is a sample list of 2016 model cars that can fit on the different platform sizes given a 6' horizontal clear height. This list is not meant to be comprehensive or exhaustive.

CAR RETRIEVAL



1. Except for the top level, one space will be missing from each level. This allows for each car to be independently accessible via kiosk or remote key fob. For the blue car to be retrieved, 3 cars from levels 1-3 will move to the right.
2. This allows for the blue car to drop to ground level.
3. Blue car is ready to be retrieved.