

HARDING
AUTOPARK SYSTEMS



SPEC SHEET

WÖHR PARKLIFT™ 411

SUV and Car Parking Systems

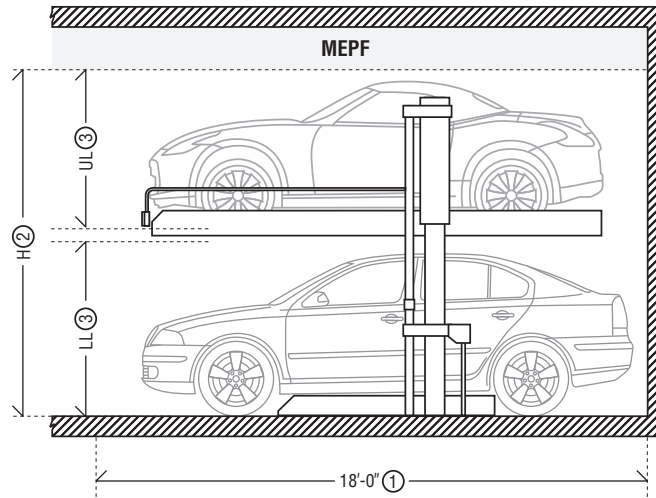
PARKLIFT 411

HEIGHT DIMENSIONS

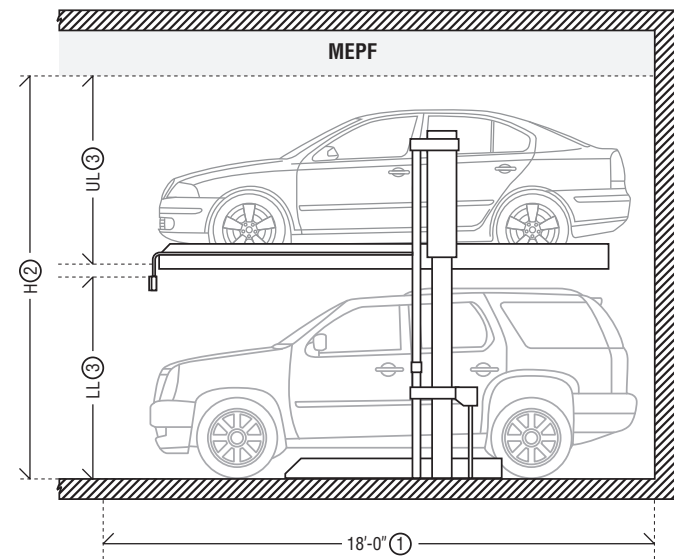
The WOHR Parklift 411 parking system is designed for the dependent parking of two vehicles, one on top of the other and offer a practical solution for maximizing parking spaces in the areas with limited availability. The Parklift 411 features a solid steel on steel lock to hold the platform in place so that vehicle can be parking on the floor underneath. The platforms are moved via a hold-to-run control device with automatic reset upon release, operated with a keyed-alike turn-lock (with two keys provided for each parking place lock).

All Parklift 411 are designed for indoor and outdoor use. All assembly components are post weld hot dipped galvanized to provide protection against rusting.

STANDARD (S)



TALL (T)



STANDARD (S)

H ① (CLEAR HEIGHT)	VEHICLE HEIGHT ③	
	LL	UL
10'-7"	5'-1"	5'-0"
11'-0"	5'-5"	5'-0"
11'-4"	5'-9"	5'-0"

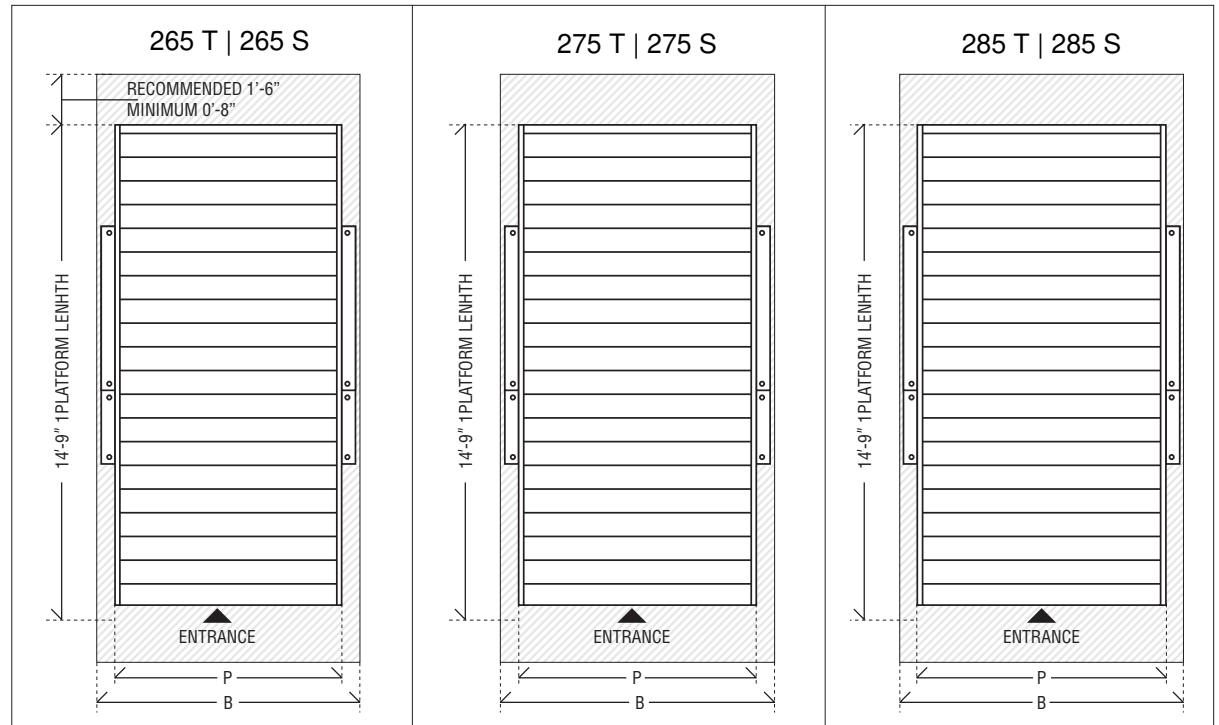
TALL (T)

H ② (CLEAR HEIGHT)	VEHICLE HEIGHT ③	
	LL	UL
11'-7"	6'-0"	5'-0"
12'-0"	6'-4"	5'-0"
12'-3"	6'-8 3/4"	5'-0"

- ① IN THIS AREA, MAX. 1% OF DOWNWARD OR UPWARD SLOPE IN LONGITUDINAL AND CROSS DIRECTION
- ② WITH AN INCREASE IN HEIGHT AVAILABLE, CORRESPONDING TALLER VEHICLES CAN BE PARKED ON THE UPPER LEVEL
- ③ UL = UPPER LEVEL / LL= LOWER LEVEL



WIDTH DIMENSIONS



WIDTH DIMENSIONS	265 T 265 S	275 T 275 S	285 T 285 S
OVERALL WIDTH (B)	8'-8"	9'-0"	9'-4"
PLATFORM WIDTH (P)	7'-6 1/2"	7'-10 1/2"	8'-2 1/2"
DRIVE THRU WIDTH	7'-10"	8'-2"	8'-5 3/4"

NOTES:

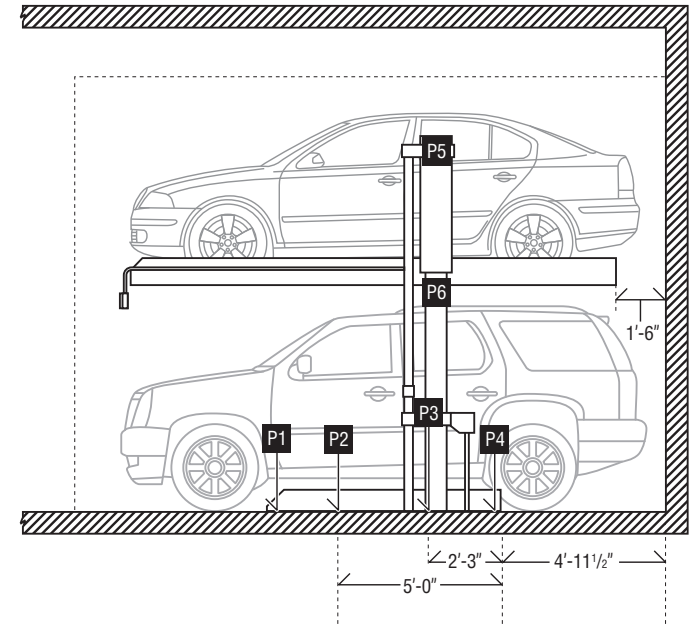
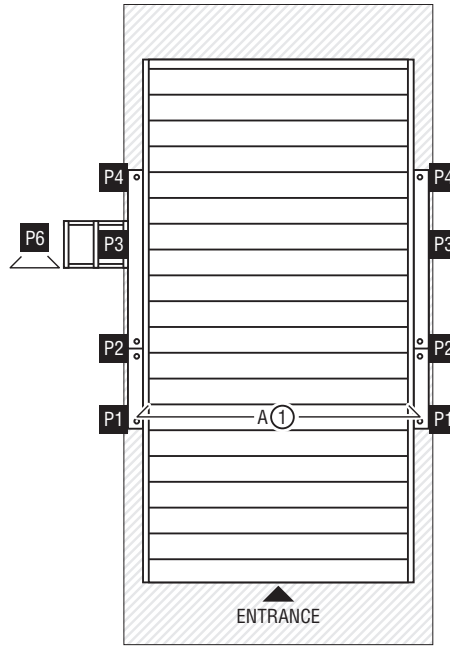
- ALL PLATFORM LENGTH ARE 14'-9"
- WIDTH DIMENSIONS ARE SAME FOR BOTH STANDARD AND TALL MODELS
- ALL DIMENSIONS ARE MINIMUM FINISHED DIMENSIONS. ALLOWANCE SHOULD BE MADE FOR TOLERANCES CAUSED BY THE REQUIREMENTS OF LOCAL BUILDERS OR MEPP CONTRACTORS



PARKLIFT 411

STATIC LOADING

① A= OVERALL WIDTH (B) - 8"



					SEISMIC			
			SDS=0.3		SDS=0.8		SDS=1.2	
	DEAD	CAR	FRONT/ BACK	SIDE/ SIDE	FRONT/ SIDE	SIDE/ SIDE	FRONT/ BACK	SIDE/ SIDE
P1	0	0	-210	82	-560	220	-845	330
P2	315	1500	960	-155	2550	-410	3840	-620
P3	315	1500	245	220	650	585	970	875
P4	0	0	-1000	-600	-2640	-1610	-3970	2410
P5	N/A	N/A	N/A	1090	N/A	2900	N/A	4350
P6	N/A	N/A	SHEAR	210	560		840	
			T/C	1820	4850		7280	
MINIMUM SLAB THICKNESS			0'-5"		0'-7"		0'-8"	

SEISMIC NOTES:

1. ALL LOADS LISTED ARE 1.0 LEVEL IN POUNDS (lbs)
2. SEISMIC LOADS ARE FOR PRELIMINARY DESIGN PURPOSES ONLY, FINAL DESIGN SHALL BE BASED ON SITE SPECIFIC LOADS LISTED ON THE ANCHORAGE DRAWINGS.
3. SEISMIC LOADS LISTED ARE WORST CASE SCENARIOS. LOADS REVERSAL MAY CAUSE OPPOSITE OR LIGHTER LOAD CASES.
4. P5 IS A LATERAL OUT OF PLANE LOAD ACTING PERPENDICULAR TO THE CAR WHEN THE MACHINE IS BRACED TO THE BUILDING STRUCTURE. P6 IS FOR THE SUPPORT POST WHEN USED. EITHER P5 OR P6 ARE USED.
5. T/C STANDS FOR TENSIONS OR COMPRESSION.
6. MINIMUM SUGGESTED SLAB THICKNESS IS BASED ON ANCHORAGE REQUIREMENTS. FINAL ANCHORAGE DESIGN BASED ON SITE SPECIFIC LOADS MAY REQUIRE ADDITIONAL SLAB THICKNESS.
7. LOADS ARE BASED ON A MACHINE RATED FOR 6000 lbs.

GENERAL NOTES:

1. FIXING OF THE SYSTEM FRAMES TO THE FLOOR SLAB IS USING ADHESIVE ANCHOR BOLTS
2. CONCRETE FOUNDATION OR SLAB SUPPORTING THE PARKLIFT ANCHORAGE SHALL HAVE A MIN. 28 DAYS CONCRETE STRENGTH OF F'C = 4000 psi
3. SPECIAL FOUNDATION ARE REQUIRED WITH ASPHALT FLOOR
4. FOR POST TENSION SLABS CAST IN EMBEDS ARE REQUIRED



PARKLIFT 411

FEATURES

CAPABILITIES

Working Capacity	6,000 lbs.
Static Capacity	12,000 lbs.
Dynamic Capacity	9,000 lbs.

SPEED

Lifting Speed (seconds)	~17 seconds
Lowering Speed (seconds)	~15 seconds

POWER

- 100% Galvanized Steel Construction
- Commercial Grade Design and Materials
- Self-Standing
- Central Hydraulic Power Pack
- Solid platform prevents dripping from upper level
- Accommodates most popular SUVs and Minivans
- Available in three width and two height options

SAFETY

- Standard key lock switch for security and safety
- Constant pressure controls. Automatic shut off if operator releases the switch
- Steel on steel lock hold the upper platform in place
- Electronic lock system
- Mechanical travel height protection stop

MAINTENANCE

Regular maintenance is provided subjected to the stipulation of a maintenance agreement by network of our service partners across the country.

CONFORMITY EXAMINATION (TÜV)

- Voluntary conformity assessment by the TÜV SÜD-
- Complaint to:
 - EC Machinery Directive 2006/42/EC
 - DIN EN 14010
 - New York OTCR approved
 - Los Angeles LADBS approved

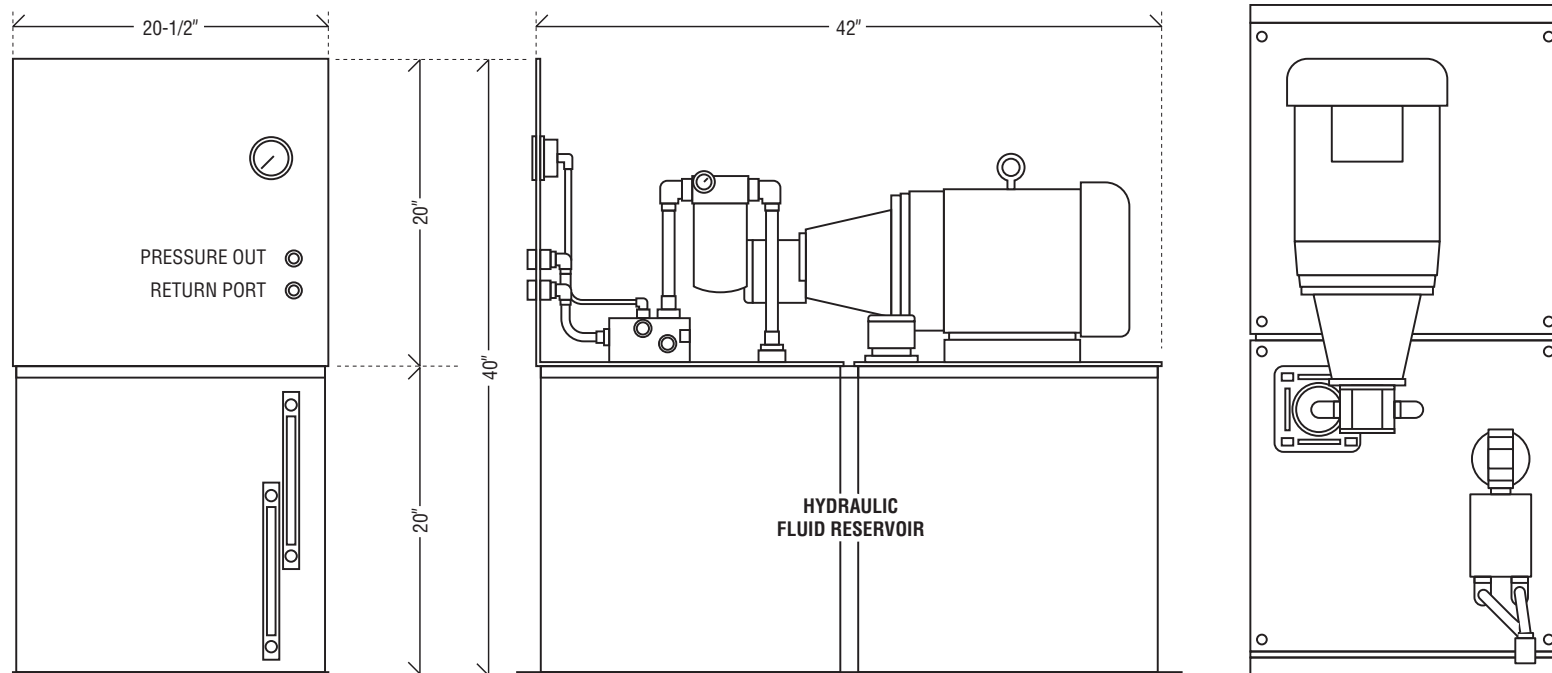
LIGHTING

- Sufficient lighting of the drive aisle and of the parking places must be performed by the customer Fire Safety
- All fire safety requirements and all mandatory equipment must be by the customer



PARKLIFT
411

STANDARD HYDRAULIC POWER UNIT



DESCRIPTION	LOCATION	RECURRENCE
FUSED LOCKABLE ELECTRICAL DISCONNECT 208V, 3Ph+N+PE, 40Amp OR 480V, Ph+N+PE, 20Amp (BY OTHERS)	WITHIN 10'-0" OF HYDRAULIC POWER UNIT	1 PER HYDRAULIC POWER UNIT
HYDRAULIC POWER UNIT (BY HARDING APS)	LOCATED CENERTALLY IN THE PARKLIFT GROUP	1 PER 15-17 PARKLIFTS (TYPICAL) MAX. 25 PARKLIFT

SPECIALITY HYDRAULIC POWER UNITS AVAILABLE FOR NON-STANDARD APPLICATION.
PLEASE CONTACT HARDINGAPS FOR MORE DETAILS.

- Hydraulic Power Unit must be accessible
- As per NEC requirements, Hydraulic unit must have 36" clear space in front of it.
- System operating time could be longer during low temperature.

