Page 1 Title page

Page 2 Shaft with walls

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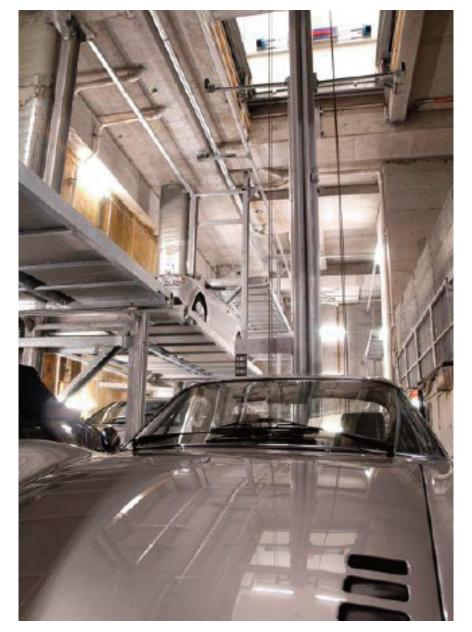
Page 4 Tower/shaft with walls

Page 5 Tower/shaft without walls

Page 6 Variants



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mastervario**r3c**

Shelf system, crosswise

The automatic shelf system is arranged similar to a high-bay storage system and particularly suited for narrow and long premises.

The shelf system can be designed as above-ground or underground system or as a combination of both variants.

- Storage and retrieval unit with horizontal and vertical conveying unit
- Optional turning unit
- Up to 8 parking levels
- Vehicle height variable
- Different level height possible
- Floor loads per parking space: 2500 kg
- Higher loads per parking space possible upon request

Please note the separate technical information.







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Shaft design. With walls or support between the parking spaces

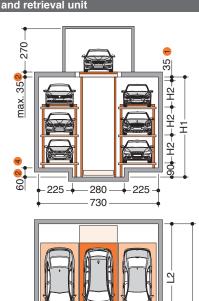
- For 1–8 levels
 - Up to 80 metres length

Transfer cabin above storage

- Transfer cabin located directly above storage and retrieval unit, or in the area of the parking spaces
- Parking levels with different heights for variable vehicle heights
- Multi-row arrangement possible
- Turning unit optional (in transfer cabin or in system)

Electrical cabinet

Close to the transfer cabin room for an electrical cabinet is to be provided. Minimum dimensions: I: 240 cm, w: 200 cm, h: 230 cm.



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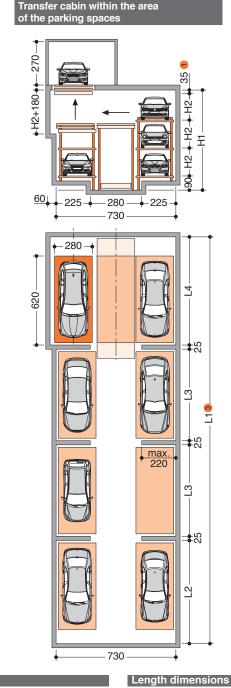
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max. 220



Height dimensions

730

	all levels for		parking spaces	L		onl	y 1 leve	el 🧯	5	 from 2 levels							
levels	H1	car height	H2	H1	car height	H2	L	per level	L	L1		L2		L3	L1	L2 L3 L4	<u> </u>
1	261	160	172	308	200	212	L	6	L	1905		655		545	1960	665 580 690)
2	472	160	172	481	160	172	L	8	L	2475	_	655		545	 2565	665 580 690)
3	644	160	172	679	160	172	L	10	L	3045	_	655		545	 3170	665 580 690)
4	831	160	172	852	160	172	L	12	L	3615		655		545	 3775	665 580 690)
5 (5)	1030	160	172	1025	160	172	L	14	L	4185		655		545	 4380	665 580 690)
6	1175	160	172	1198	160	172	L	16	L	4755	_	655		545	 4985	665 580 690)
7	1362	160	172	1371	160	172		18	L	5325		655		545	5590	665 580 690)
max. 8	1534	160	172	1544	160	172	L	20	L	5895	_	655		545	 6195	665 580 690)



Depending on the location of the transfer cabin the number of parking spaces may differ.

1 From 2 parking levels an additional height of 35 cm is required for the storage and retrieval unit.

In case of ceiling thicknesses greater 35 cm the dimension 60 must be increased by the same value.

3 All length (L) are examples and depending on the actual width of the intermediate walls or supports.

If a turning unit is used on the storage and retrieval unit, the dimension 60 must be increased by 50 cm.

In case of more than 4 levels crossbars are to be provided in each third level (+ 15 cm).

6 System with entry above storage and retrieval unit.

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Shaft design. Without walls or support between the parking spaces

For 1–8 levels

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Shaft

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Variants

Tower/shaft without walls

without walls

- Up to 80 metres length
- Transfer cabin located directly above storage and retrieval unit, or in the area of the parking spaces

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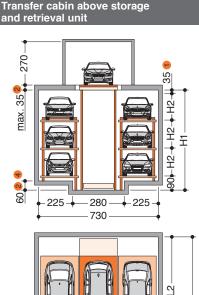
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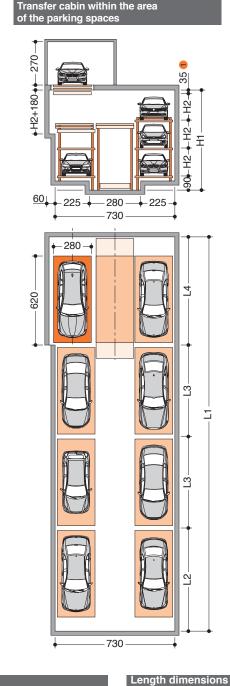
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- Parking levels with different heights for variable vehicle heights
- Multi-row arrangement possible
- Turning unit optional (in transfer cabin or in system)

Electrical cabinet

Close to the transfer cabin room for an electrical cabinet is to be provided. Minimum dimensions: I: 240 cm, w: 200 cm, h: 230 cm.





Height dimensions

730

	all levels		parking spaces		only 1 level 6						evels								
levels	H1	car height	H2	H1	car height	H2	L	per level	L	L1		L2		L3		L1	L2	L3	L4
(261	160	172	308	200	212	L	6	L	1850	6	655		540		1870	655	560	690
	472	160	172	481	160	172	L	8	L	2390	6	655		540		2430	655	560	690
	644	160	172	679	160	172	L	10	L	3470	6	655		540		2990	655	560	690
4	831	160	172	852	160	172	L	12	L	4010	6	655		540		3550	655	560	690
5 5	1030	160	172	1025	160	172	L	14	L	4550	6	655		540		4110	655	560	690
6	1175	160	172	1198	160	172	L	16	L	4700	6	655		540		4670	655	560	690
7	1362	160	172	1371	160	172	L	18	L	5100	6	655		540		5230	655	560	690
max. 8	1534	160	172	1544	160	172	L	20	L	5640	6	655		540		5790	655	560	690



Depending on the location of the transfer cabin the number of parking spaces may differ.

1 From 2 parking levels an additional height of 35 cm is required for the storage and retrieval unit.

In case of ceiling thicknesses greater 35 cm the dimension 60 must be increased by the same value.

3 All length (L) are examples and depending on the actual width of the intermediate walls or supports.

If a turning unit is used on the storage and retrieval unit, the dimension 60 must be increased by 50 cm.

In case of more than 4 levels crossbars are to be provided in each third level (+ 15 cm).

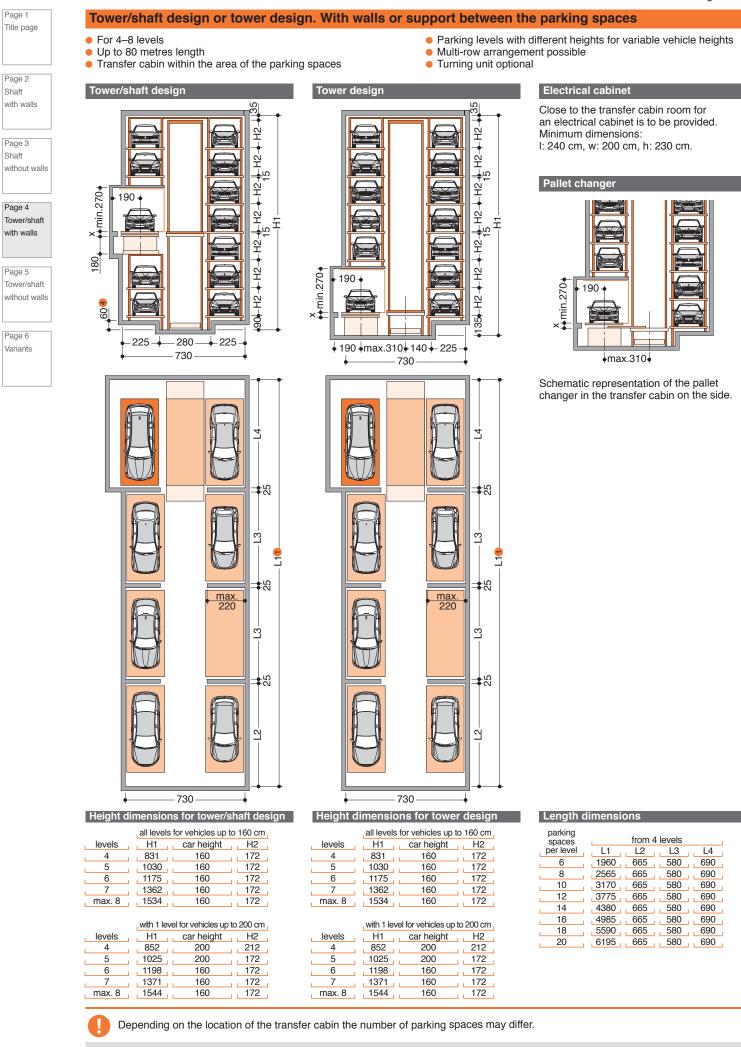
6 System with entry above storage and retrieval unit.



Shaft

Shaft

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Ill length (L) are examples and depending on the actual width of the intermediate walls or supports. If a turning unit is used on the storage and retrieval unit, the dimension 60 must be increased by 50 cm.



L4

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690

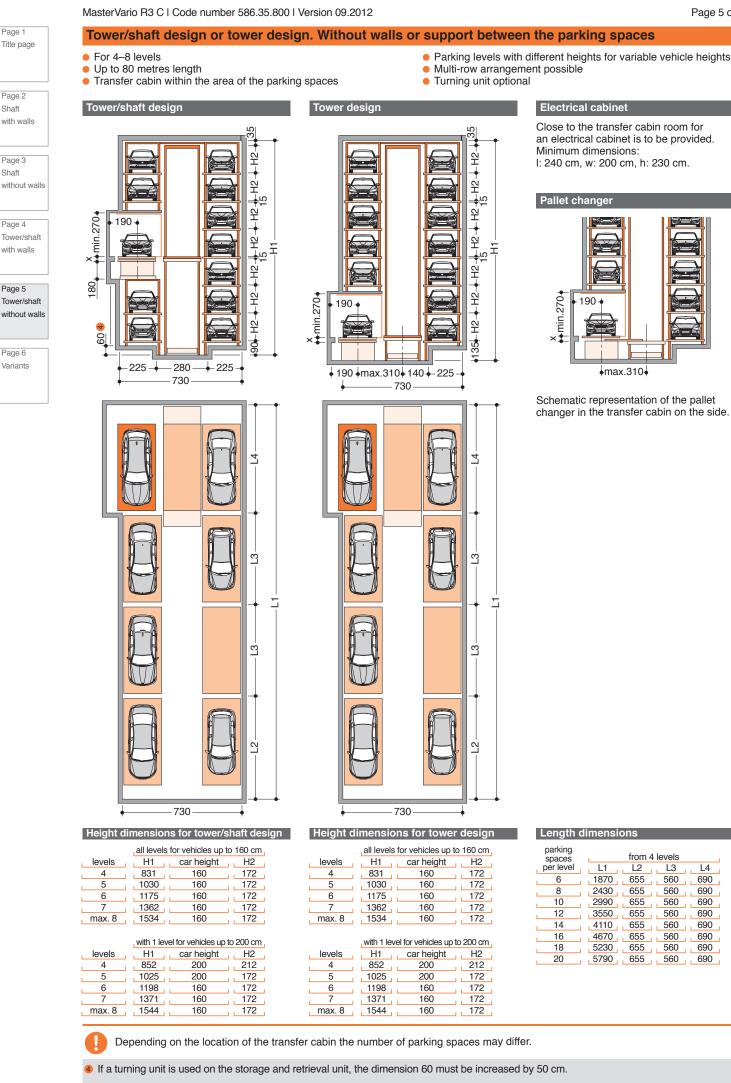
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Tower/shaft

with walls

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Arrangement options of the transfer cabin



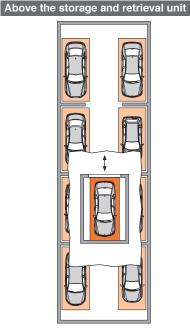
Page 2 Shaft with walls

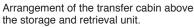
Page 3 Shaft without walls

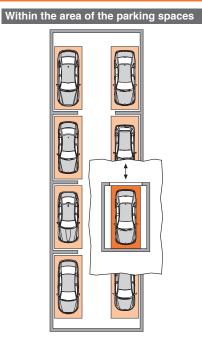
Page 4 Tower/shaft with walls

Page 5 Tower/shaft without walls

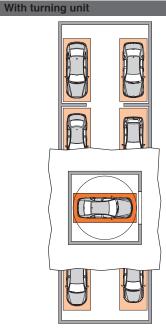
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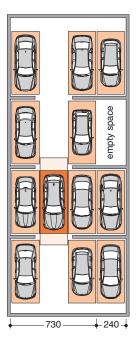
The transfer cabin can be arranged to the left or right of the parking spaces. The location can be above any parking space.

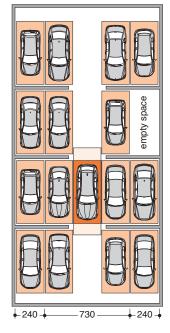


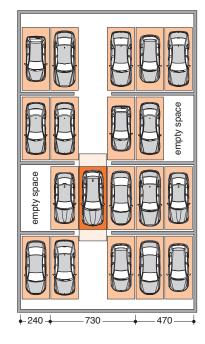
A turning platform in the transfer cabin allows entering and exiting at any desired angle.

Multi-row arrangement

The multi-row arrangement allows optimal utilization of the premises. With an empty space up to two rows next to the storage and retrieval unit can be arranged; with two empty spaces even up to three rows.







We reserve the right to change this specification without further notice

KLAUS Multiparking reserves the right in the course of technical progress to use newer or other technologies, systems, processes, procedures or standards in the fulfillment of their obligations other than those originally offered provided the customer derives no disadvantage from their so doing.