THE ANSWER TO THE CURRENT MRL MARKET REQUIREMENTS

MRL W-Line

EXCELLENCE IN COMPONENTS

EMOTIONS IN MOTION

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MRL W-Line

WITTUR’S ANSWER TO THE CURRENT MRL MARKET REQUIREMENTS

The MRL W-Line, Wittur’s new generation of machine roomless electric lift, offers an ideal solution for residential, commercial and public buildings based on an innovative modular design.

The MRL W-Line has been designed specifically to permit optimised use of space and energy consumption in buildings with up to 15 stops and a travel height of up to 50 m, with a maximum rated load of 1000 kg and a maximum rated speed of 1.6 m/s.

NORM COMPLIANT

The MRL W-Line fulfills all the requirements of the Lift Directive 95/16/EC, as well as the standards EN81-1A3, EN81-28 and EN81-58.

Wittur additionally offers the option of supplying the MRL W-Line to comply with EN81-70 (designed specifically for passengers with reduced mobility) and EN81-73.

Upon request, the MRL W-Line can be manufactured to comply with the standards EN81-71, EN81-72 and EN81-21.

QUICK INSTALLATION

The MRL W-Line is easy and quick to install. A new modular logistics concept has been designed so that each box is opened only as and when its contents are needed, thereby avoiding time wastage and confusion.

Furthermore, each component has its own user-friendly manual, making the steps of the assembly process easy to follow and fail-safe.

The assembly of the electrical components has also been made simpler thanks to Wittur’s “Plug and Play” concept. All the customer has to do is connect the components as instructed in the manuals.
The MRL W-Line offers low energy consumption thanks to its efficient ECO design. It has been awarded the “A” classification according to the norm VDI 4707.

Both the gearless drive motor and car door motor incorporate cutting-edge technology in the form of permanent magnets which guarantee reduced energy consumption during the running of the lift, and whose “Sleep Mode” (upon request) reduces energy consumption to “0” watts when the lift is not being used.

The MRL W-Line requires minimal maintenance due to the high quality and simplicity of its design.

Besides reducing maintenance costs, this adds to the safety of the assembly and maintenance personnel.

Wittur Inside: the MRL W-Line incorporates components manufactured by Wittur to the highest standards of quality, reliability and safety.

The MRL W-Line makes optimal use of available space and, depending on rated load and speed and the height of the car, can be installed in any type of shaft with a pit depth starting at 1100 mm (for 1m/s) or 1200 mm (for 1,6 m/s), and headroom starting at just 3500 mm (for 1m/s) or 3700 mm (for 1,6 m/s).

Mounted directly onto the guide rails under Wittur patent, the MRL W-Line uses Wittur’s bed plates and WSG S-series gearless drives, which offer smaller dimensions through the use of reduced rope diameters with smaller traction sheaves (240 mm for rated loads up to 630 kg, and 320 mm for rated loads up to 1000 kg).

Furthermore, the controller is perfectly integrated into the design of the elevator, fitting snuggly into a compact controller cabinet placed neatly in front of the frame of the landing door itself.
Through the combination of highly efficient mechanical and electrical components (like the gearless drive), the isolation of vibrating elements, drive control by means of a frequency inverter, balanced rope arrangement and low friction sliding guide shoes, it has been possible to obtain a high ride comfort and low noise levels compliant with VDI 2566-2.

The “Comfort Kit” silent blocks made of platted stainless steel wiring, (standard supply for 1.6 m/s but optional for 1 m/s) offers a reduction of up to 15% in the level of vibration of the drive, obtaining an enhanced ride comfort and preventing any vibrations from travelling through the building.

The noise level perceived by the passenger from inside the car is limited to 50 dBA.

A new and user-friendly logistics concept has been designed for Wittur’s new range of elevator systems.

The elevator’s sub-components are delivered in pre-established space-saving and highly recyclable modules which have been clearly identified and numbered according to the order in which they are needed within the elevator’s assembly sequence. This greatly optimises handling and increases safety during transportation.

Each module is easily identifiable and is opened only when its contents are needed, thereby increasing the ease of assembly whilst dramatically reducing the risk of loss of components from boxes that have been opened before it was necessary.

Once the contents of the box have been used, the box can be removed from the site and recycled.

The simplicity of the MRL W-Line in no way detracts from the versatility of the options and car decorations available.

The standard decorations, with their functional designs, offer the added advantage of a short production lead-time, but the MRL W-Line can be supplied in a most versatile range of decorations to suit any request including skinplate, melamine, laminate, wood, stainless steel and glass.

For the full range of available decorations, please contact us.
The MRL W-Line offers versatile solutions with single and double entrances at 180° with various automatic door solutions.

### Table: MRL W-Line Specifications

<table>
<thead>
<tr>
<th>Rated load</th>
<th>Rated speed</th>
<th>N° of entrances</th>
<th>Internal car width</th>
<th>Internal car depth</th>
<th>Clear opening</th>
<th>Door opening</th>
<th>Minimum shaft width</th>
<th>Minimum shaft depth (*)</th>
<th>Minimum headroom</th>
<th>Minimum pit depth</th>
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<tbody>
<tr>
<td>Kg</td>
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<td>d1</td>
<td>b2</td>
<td>C / S</td>
<td>b3</td>
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(*) With MDS1 doors

### Diagram:

- Diagram 1: MRL W-Line single entrance.
- Diagram 2: MRL W-Line double entrance.

NOTE: The dimensions of the car are available upon request in steps of 50mm.
EXCELLENCE IN COMPONENTS

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