

## TRAIN LIFTING SYSTEM S-TL/MDB-S

**ARIES'** revolutionary train lifting system: simultaneous train lifting and bogie dismounting.

### SYSTEM BENEFITS

<b>MODULAR SETUP</b>	The system offers solution for different setups: <ul style="list-style-type: none"> <li>• The lifting jacks are located into the correct position using a crane or a forklift.</li> <li>• the lifting pads of the jacks can be moved to adapt to different jacking pads positions of the train</li> </ul>
<b>FLEXIBLE</b>	One or various bogies can be selected and lowered to the track, whilst keeping the train lifted
<b>FULLY ELECTRIC</b>	The electric lifting system means clean spaces and low maintenance.
<b>NO CIVIL WORKS REQUIRED</b>	No specific civil works are required to install the lifting jack. No need for bogie drop pits.
<b>LOAD CAPACITY</b>	Standard capacity for each individual jack is 15 t. Double and triple assemblies are available depending the train type (30 and 45 t combined load available). Customized specifications can be made under request.
<b>CONTROL &amp; PRECISION</b>	<ul style="list-style-type: none"> <li>• The lifting jack assemblies are synchronized during all the operation stages, monitored and controlled by a dedicated PLC.</li> <li>• Vertical position accuracy &gt; 1 mm</li> <li>• Overall movement tolerance configurable from 5 mm</li> </ul>
<b>SAFETY</b>	The safe loop is active regardless the composition, the active jacks, or the connection of the control desk panel The jacks are designed to be switched off and withstand the load.

(\* Different technical specifications under request

**Designed and Engineered** by railway expert engineers. **ARIES'** offers the whole system as a **Turn-key solution**



**Flexible and adaptable:** customizable to any wagon and bogie design and setup for variable number of wagons.



**OPERATION SEQUENCE**

<b>WHOLE TRAIN LIFTING</b>	<ul style="list-style-type: none"> <li>• Train arrives at maintenance facility</li> <li>• Train is put in place and lift forks aligned</li> </ul>
<b>BOGIE DISASSEMBLY</b>	<ul style="list-style-type: none"> <li>• With the train elevated, bogies are unbounded and disassembled</li> <li>• Bogies are lowered to floor level for maintenance or replacement.</li> </ul>
<b>BOGIE ASSEMBLY</b>	<ul style="list-style-type: none"> <li>• New or repaired bogies are lifted and assembled to lifted train</li> <li>• Bogies are mounted and fixed</li> </ul>
<b>WHOLE TRAIN LOWERING</b>	<ul style="list-style-type: none"> <li>• With the replaced bogies, the whole repaired train is lowered.</li> </ul>



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